

# AFRITECH

**EQUIPMENT SOLUTIONS (PTY) LTD**  
- WHERE EXPERIENCE COUNTS -



**SALES & RENTAL CATALOGUE**  
- VOLUME 1 -

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**WE SELL BRANDS THAT BUILD THE WORLD**



**ERRORS AND OMISSIONS EXCEPTED**



# 001 WELDING MACHINES



# DURA ARC200 INVERTER

STOCK CODE: DURA-ARC200

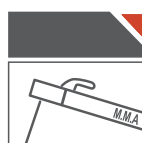
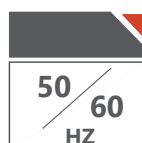


## Features and Benefits:

- VRD feature
- MMA/TIG selection
- Mosfet technology
- Excellent arc characteristics
- Adjustable ARC FORCE
- Full parts back-up
- Generator compatible



|         |                          |
|---------|--------------------------|
| Output  | DC/CC                    |
| Process | Stick (SMAW)/Scratch TIG |



|                                    | ARC200                      |
|------------------------------------|-----------------------------|
| Rated input voltage/frequency (Hz) | Single phase, 230V, 50/60Hz |
| Rated input capacity (KVA)         | 8.6                         |
| Rated input current (A)            | 39                          |
| Duty cycle (40°C)                  | 35%@200A                    |
| OCV (V)                            | 56                          |
| VRD (V)                            | 9                           |
| Output current range (A)           | 20-200                      |
| Efficiency                         | 80                          |
| Cosp                               | 0.98                        |
| Protection class                   | IP21                        |
| Insulation class                   | F                           |
| Weight (kg)                        | 9.5                         |
| Dimension (mm)                     | 389×160×299                 |

## Standard equipment

- 1 Power source
- 1 Connected primary cable L=3m with 3 pin plug

## Recommended areas of use

- Construction and maintenance
- Repair and maintenance
- Light manufacturing
- Farming

## Recommended base metals

- Carbon steel
- Alloy steel



# DURA ARC200II INVERTER

STOCK CODE: DURA-ARC200II



## Features and Benefits:

- VRD feature
- IGBT technology
- Real current output 200A
- Capable of 4mm electrode welding
- Multiple protections: over voltage protection, under voltage protection, over heat protection, fan fault protection, over current protection
- Cellulose electrode welding



**1 YEAR  
LIMITED  
WARRANTY**

**Output**

**DC/CC**

**Process**

**Stick (SMAW) /Lift TIG**



|                                           | <b>DuraARC200II</b>         |
|-------------------------------------------|-----------------------------|
| <b>Rated input voltage/frequency (Hz)</b> | Single phase, 230V, 50/60Hz |
| <b>Rated input capacity (KVA)</b>         | 9                           |
| <b>Rated input current (A)</b>            | 39                          |
| <b>Duty cycle (40C)</b>                   | 35%@200A                    |
| <b>OCV (V)</b>                            | 82(VRD OFF) /13(VRD ON)     |
| <b>Output current range (A)</b>           | 10-200                      |
| <b>Efficiency</b>                         | 80                          |
| <b>Cosφ</b>                               | 0.98                        |
| <b>Protection class</b>                   | IP23S                       |
| <b>Insulation class</b>                   | F                           |
| <b>Weight (kg )</b>                       | 7.3                         |
| <b>Dimension (mm )</b>                    | 381×155×298                 |

## Standard equipment

- 1 Power source
- 1 Connected primary cable L=3m with 3 pin plug

## Recommended areas of use

- Construction
- Maintenance
- Petrochemical industry
- Paper and pulp
- Pipeline industry
- Farming

## Recommended base metals

- Carbon steel
- Alloy steel

# DURA ARC 400II INVERTER - PIPELINE

STOCK CODE: DURA-ARC400II



## Features and Benefits:

- IGBT technology
- Hot Start ensure 100% arc ignition
- Suitable for long distance welding (100m)
- Adjustable Arc Force
- Stable Arc when using extended welding cables 25m+
- Voltage fluctuation
- Extra Arc Force Current
- **Vertical down-welding of cellulose electrodes (CEL) 6010/7010**
- Long cable/Short cable selection
- Proven reliability in the Pipeline industry
- Full spares back-up
- Stable Arc during Voltage fluctuation



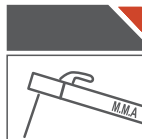
**3 YEAR  
LIMITED  
WARRANTY**

**Output**

**DC/CC**

**Process**

**Stick (SMAW)**



|                                           | <b>ARC400II</b>    |
|-------------------------------------------|--------------------|
| <b>Rated input voltage/frequency (Hz)</b> | 3phase ,380V, 50Hz |
| <b>Rated input capacity (KVA)</b>         | 20                 |
| <b>Rated input current (A)</b>            | 41                 |
| <b>Duty cycle (40°C)</b>                  | 60%@400A           |
| <b>OCV (V)</b>                            | 84                 |
| <b>Output current range (A)</b>           | 20-400             |
| <b>Efficiency</b>                         | 89                 |
| <b>Cosφ</b>                               | 0.95               |
| <b>Protection class</b>                   | IP21               |
| <b>Insulation class</b>                   | H                  |
| <b>Weight (kg )</b>                       | 45                 |
| <b>Dimension (mm )</b>                    | 614×311×557        |

## Standard equipment

- 1 Power source
- 1 Connected primary cable L=3m

## Recommended areas of use

- Pipeline industry
- Shipbuilding and offshore engineering
- Industry plant construction
- Maintenance and repair

## Recommended base metals

- Carbon steel
- Alloy steel

# DURA ARC400/630 INVERTER

STOCK CODE: DURA-ARC400/630



## Features and Benefits:

- VRD feature
- IGBT technology
- Proven reliability in the construction industry
- Good performance with E6013, E7018 electrodes
- High quality
- Suitable extended welding cables up to 100m
- Hot start ensure 100% Arc Ignition
- Wire/wireless remote control (optional)
- Adjustable Arc Force
- Proven reliability in the rental industry
- Full parts back-up



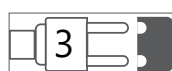
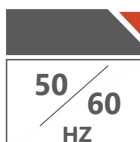
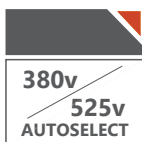
**3 YEAR  
LIMITED  
WARRANTY**

**Output**

**DC/CC**

**Process**

**Stick (SMAW) /Gouging(>500A)/Scratch TIG**



|                                   | ARC400                        | ARC630      |
|-----------------------------------|-------------------------------|-------------|
| <b>Rated input voltage</b>        | 3phase, 380/525V, Auto select |             |
| <b>Frequency (Hz)</b>             | 50/60Hz Manual select         |             |
| <b>Rated input capacity (KVA)</b> | 18.7                          | 34.2        |
| <b>Rated input current (A)</b>    | 28.4/20.5                     | 58.7/42.5   |
| <b>Duty cycle (40°C)</b>          | 60%@400A                      | 100%@630A   |
| <b>OCV (V)</b>                    | 68                            | 96          |
| <b>VRD (V)</b>                    | 15                            | 20          |
| <b>Output current range (A)</b>   | 20-400                        | 50-630      |
| <b>Efficiency</b>                 | 89                            |             |
| <b>Cosφ</b>                       | 0.95                          |             |
| <b>Protection class</b>           | IP21S                         |             |
| <b>Insulation class</b>           | H                             |             |
| <b>Weight (kg )</b>               | 43                            | 58          |
| <b>Dimension (mm)</b>             | 576×297×557                   | 686×322×584 |

## Standard equipment

- 1 Power source
- 1 Connected primary cable L=3m
- 1 Remote controller with 30m cable (optional)

## Recommended areas of use

- Shipbuilding and offshore engineering
- Construction industry
- Petrochemical industry
- Mining
- Paper and pulp

## Recommended base metals

- Carbon steel
- Alloy steel
- Stainless steel



# DURA ATIG200P TIG INVERTER (PULSED)

STOCK CODE: DURA-ATIG200P

## Features and Benefits:

- IGBT technology
- HF ignition
- VRD feature
- Multi-parameters adjustment
- MCU control
- Small in size and light weight
- Adjustable up-slope /down-slope time
- Adjustable pre-gas /post-gas
- Adjustable pulse frequency, pulse duty cycle, peak current, background current
- Multi-protection against overheat, over current, over voltage
- Full parts back-up



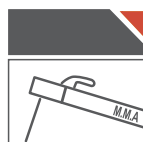
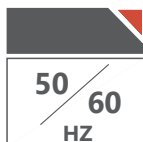
**1 YEAR  
LIMITED  
WARRANTY**

**Output**

**DC/CC**

**Process**

**DC TIG (GTAW) /Stick (SMAW)/Pulsed TIG**



| ATIG200P                           |                               |
|------------------------------------|-------------------------------|
| Rated input voltage/frequency (Hz) | 1 phase, 230V±10%, 50/60Hz    |
| Rated input capacity (KVA)         | 6.6                           |
| Rated input current (A)            | 30                            |
| Duty cycle (40°C)                  | 40%@200A                      |
| OCV (V)                            | 60                            |
| VRD (MMA)                          | 9                             |
| MMA                                | Output current (A)            |
|                                    | 20-160                        |
|                                    | Arc force (A)                 |
| TIG                                | 50                            |
|                                    | Hot start (A)                 |
|                                    | 50                            |
|                                    | Output current (A)            |
|                                    | 10-200                        |
|                                    | Pre-gas /post-gas (s)         |
|                                    | 0.1-15 /0.1-15                |
|                                    | Initial /final current (A)    |
|                                    | 10-200 /10-200                |
|                                    | Up-slope /down-slope time (s) |
|                                    | 0.1-10 /0.1-10                |
|                                    | Base current (A)              |
|                                    | 10-200                        |
|                                    | Pulse frequency (Hz)          |
|                                    | 0.2-20                        |
|                                    | Pulse duty cycle              |
|                                    | 15-85%                        |
|                                    | Trigger mode                  |
|                                    | 2 /4T                         |
|                                    | Arc ignition method           |
|                                    | HF                            |
| Protection class                   |                               |
| IP21                               |                               |
| Insulation class                   |                               |
| F                                  |                               |
| Dimension (mm)                     |                               |
| 389*160*299                        |                               |
| Weight (kg)                        |                               |
| 9.5                                |                               |

## Standard equipment

- 1 Power source
- 1 Connected primary cable L=3m

## Recommended areas of use

- Construction and installation
- Mechanical maintenance
- Pipeline industry
- Light manufacturing
- Paper and pulp

## Recommended base metals

- Carbon steel
- Stainless steel
- Copper
- Titanium

# DURA ATIG 270P INVERTER (PULSED)

STOCK CODE: DURA-ATIG270P



## Features and Benefits:

- All parameters can be precisely adjusted in real time
- MMA: adjustable arc current, arc force current, easy arc starting
- Smart fan feature
- Widely used for nuclear power installation, pipe installation, shipbuilding
- Suitable for stainless steel, carbon steel, copper, titanium welding

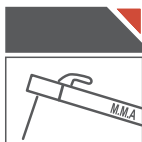


Output

DC/CC

Process

PULSED TIG/TIG/STICK WELDING



1 YEAR  
LIMITED  
WARRANTY



## ATIG270P

|                                    |                            |                              |
|------------------------------------|----------------------------|------------------------------|
| Rated input voltage/frequency (Hz) |                            | 3 phase, 380V±10%, 50Hz      |
| Rated input capacity (KVA)         |                            | 10                           |
| Rated input current (A)            |                            | 16.5                         |
| Duty cycle (40 °C)                 |                            | 35%@270A 100%@200A           |
| OCV (V)(MMA /TIG)                  |                            | MMA (23V) /TIG (77V)         |
| MMA                                | Output current (A)         | 5-270                        |
|                                    | Arc force (A)              | 10-200                       |
|                                    | Hot start (A)              | 20-160                       |
|                                    | Output current (A)         | 5-270                        |
|                                    | Pre-gas /post gas (s)      | 0.1-10/0.1-60                |
| TIG                                | Initial /final current (A) | 10-160 /5-270                |
|                                    | Up-slope /down-slope (s)   | 0-10 /0-20                   |
|                                    | Peak current (A)           | 5-270                        |
|                                    | Base current (A)           | 5-270                        |
|                                    | Pulse frequency (Hz)       | 0.2-30 /20-500               |
|                                    | Pulse duty cycle           | 10%-90%                      |
|                                    | Trigger mode               | 2T, 4T, Spot welding, repeat |
| Arc ignition method                |                            | HF /NON HF                   |
| Protection class                   |                            | IP23S                        |
| Insulation class                   |                            | H                            |
| Dimension (mm)                     |                            | 460*210*410                  |
| Weight (kg /lb)                    |                            | 19 /42                       |

## Standard equipment

- 1 Power source
- 1 Connected primary cable L=3m

## Recommended areas of use

- Construction and installation
- Mechanical maintenance
- Manufacturing
- Pipeline industry
- Nuclear power

## Recommended base metals

- Stainless steel
- Carbon steel
- Copper
- Titanium

# DURA ATIG315PAC - AC/DC INVERTER (PULSED)

STOCK CODE: DURA-ATIG315PAC



## Features and Benefits:

- IGBT technology
- Can remotely control current
- All parameters can be precisely adjusted in real time
- Adjustable cleaning parameters, increase cleaning effect when welding aluminum, reduce tungsten electrode loss
- MMA: adjustable arc force current, easy arc starting
- Synchronous mutual arc feature (optional)
- Widely used for nuclear power installation, pipe installation, shipbuilding, high pressure container, etc.
- Suitable for stainless steel, carbon steel, copper, titanium, aluminum welding
- Full parts back-up



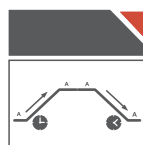
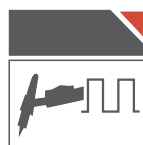
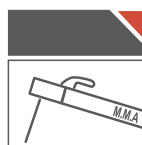
**3 YEAR  
LIMITED  
WARRANTY**

**Output**

**AC/DC**

**Process**

**Stick (SMAW) / DC TIG (GTAW) / DC Pulsed TIG / AC Pulse TIG / AC TIG**



**Rated input voltage/frequency (Hz)**

3 phase, 380V±10%, 50Hz

**Rated input capacity (KVA)**

13.6

**Rated input current (A)**

20.7

**Duty cycle (40°C)**

60%@315A

**OCV (V) (MMA/TIG)**

45 /79

**MMA Output current range (A)**

5-315

**Arc force (A)**

10-200

**Pre-gas/post gas (s)**

0.1-15/0.1-60

**Initial/final current (A)**

10-160 /5-315

**TIG Up-slope/down-slope (s)**

0.1-10 /0.1-15

**Peak current (A)**

5-315

**Pulse frequency (Hz)**

0.2-20

**Pulse duty cycle**

1%-100%

**AC frequency (Hz)**

20-200

**AC balance**

-40%±40%

**Protection class**

IP21S

**Dimension (mm)**

655\*325\*560

**Weight (kg)**

53

## Standard equipment

- 1 Power source
- 1 Connected primary cable L=3m
- Water cooler (Optional)
- Trolley (Optional)
- Remote controller (Optional)
- Foot pedal (Optional)

## Recommended areas of use

- Maintenance and repair
- Construction Industry
- Petrochemical Industry
- Shipbuilding
- Pipeline industry
- Paper and pulp
- Nuclear industry

## Recommended base metals

- Mild steel
- Stainless steel
- Copper
- Titanium
- Aluminum

# DURA ATIG400 INVERTER

STOCK CODE: DURA-ATIG400



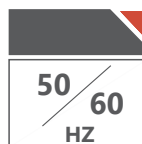
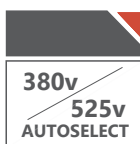
## Features and Benefits:

- MMA adjustable parameters: arc force current, knee point voltage, arc starting time, arc starting current
- TIG adjustable parameters: pre-gas time, post-gas time, up-slope time, down-slope time, arc starting current and crater filling current
- Smart fan feature
- IGBT technology
- VRD feature
- Generator compatible
- Full parts back-up

|                |                                    |
|----------------|------------------------------------|
| <b>Output</b>  | <b>DC/CC</b>                       |
| <b>Process</b> | <b>DC TIG (GTAW) /Stick (SMAW)</b> |



**3 YEAR  
LIMITED  
WARRANTY**



|                                   |                                   | <b>ATIG400</b>                  |
|-----------------------------------|-----------------------------------|---------------------------------|
| <b>Rated input voltage</b>        |                                   | 3 phase, 380V/525V, Auto select |
| <b>Frequency (Hz)</b>             |                                   | 50/60Hz, Manual select          |
| <b>Rated input capacity (KVA)</b> |                                   | 18.7                            |
| <b>Rated input current (A)</b>    |                                   | 28.4 /20                        |
| <b>Duty cycle (40°C)</b>          |                                   | 60%@400A                        |
| <b>OCV (V)</b>                    |                                   | 22                              |
| <b>Output current range (A)</b>   |                                   | 5-400                           |
| <b>MMA</b>                        | <b>Arc force (A)</b>              | 1-200                           |
|                                   | <b>Knee-point voltage (V)</b>     | 10-30                           |
|                                   | <b>Hot start (A)</b>              | 0-160                           |
|                                   | <b>Hot start duration (s)</b>     | 0.1-1.5                         |
|                                   | <b>Pre-gas /post gas (s)</b>      | 0.1-15 /0.1-15                  |
| <b>TIG</b>                        | <b>Initial /final current (A)</b> | 10-160 /5-160                   |
|                                   | <b>Up-slope /down-slope (s)</b>   | 0.1-10 /0.1-15                  |
|                                   | <b>Trigger mode</b>               | 2 /4T                           |
|                                   | <b>Arc ignition method</b>        | HF                              |
| <b>Protection class</b>           |                                   | IP21S                           |
| <b>Insulation class</b>           |                                   | H                               |
| <b>Dimension (mm)</b>             |                                   | 614*311*557                     |
| <b>Weight (kg)</b>                |                                   | 43                              |

## Standard equipment

- 1 Power source
- 1 Connected primary cable L=3m
- 1 Remote controller with 30m cable (optional)

## Recommended areas of use

- Construction
- Manufacturing industry
- Petrochemical industry
- Pipeline industry
- Shipbuilding
- Paper and pulp

## Recommended base metals

- Carbon steel
- Stainless steel
- Alloy steel



**MULTI PROCESS MACHINE**

# DURA AMIG 210PM INVERTER (PULSED)

STOCK CODE: DURA-AMIG210PM



## Features and Benefits:

- VRD function (MMA mode)
- Portable multi-process machine, MMA, LIFT, TIG, MIG/MAG
- Powerful expert database system, just select the built-in job lists for the application
- Digital model, MCU control with good arc characteristic
- Compatible with current control spool gun
- Compact design, with a built-in 5kg /15kg wire spool
- 2 /4T trigger mode, suitable for long /short seam
- Over current /over voltage /over load protection
- IGBT technology



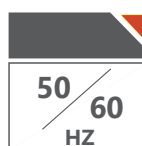
**1 YEAR  
LIMITED  
WARRANTY**

**Output**

**DC /CC/CV**

**Process**

**MMA/LIFT TIG/MIG/PULSED MIG**



## AMIG210PM

|                                    |                             |
|------------------------------------|-----------------------------|
| Rated input voltage/frequency (Hz) | 1 phase, 230V±10%, 50 /60Hz |
| Rated input capacity (KVA)         | 11.4                        |
| Rated input current (A)            | 42                          |
| Duty cycle (40°C)                  | 35%@210A                    |
| Modes                              | MMA /TIG /MIG /MIG-P        |
| OCV (V)                            | 60                          |
| Output voltage range (V)           | 15.3-24.5                   |
| Spool weight (kg)                  | 5/15                        |
| Wire Diameter (mm)                 | 0.8, 1.0, 1.2               |
| Trigger mode                       | 2T /4T /Special 4T          |
| Output current range (A)           | 25-210                      |
| Protection class                   | IP21S                       |
| Insulation class                   | F                           |
| Dimension (mm)                     | 540*220*420                 |
| Weight (kg /lb)                    | 17 /37.4                    |

## Standard equipment

- 1 Power source, with built-in wire feeder
- 1 Connected primary cable L=3m
- MIG gun (optional extra)
- Earth cable (optional extra)

## Recommended areas of use

- Maintenance and repair
- Specialist fabrication
- Farming

## Recommended base metals

- Carbon steel
- Alloy steel
- Stainless steel
- Aluminium

# DURA MIG250C INVERTER (COMPACT)

STOCK CODE: DURA-MIG250C



## Features and Benefits:

- Compact design, built-in wire feeder
- Low welding distortion, high welding deposit rate
- Easy arc starting with slow wire feeding
- High duty cycle
- Less spatter due to the advanced wave form control technology
- Digital display for accurate parameter preset, easy to operate
- Used for solid /flux-cored welding wire



**1 YEAR  
LIMITED  
WARRANTY**

**Output**

**DC/CV**

**Process**

**CO2/MAG(GMAW)**



**Rated input voltage/frequency (Hz)**

**MIG250C**  
3 phase, 380V, 50Hz

**Rated input capacity (KVA)**

8.5

**Rated input current (A)**

12.9

**Duty cycle (%)**

60%@250A

**OCV (V)**

55

**Output current range (A)**

40-250

**Output voltage range (V)**

14-30

**Trigger mode**

2 /4T

**Wire size (mm)**

0.8,1.0

**Protection class**

IP21S

**Insulation class**

H

**Weight (kg)**

30

**Dimension (mm)**

527\*272\*495

## Standard equipment

- 1 Power source
- 1 Connected primary cable L=3m
- MIG gun (optional)

## Recommended areas of use

- Construction
- Maintenance
- Shipbuilding and offshore engineering
- Farming

## Recommended base metals

- Carbon steel
- Alloy steel

# DURA MIG 500 INVERTER

STOCK CODE: DURA-MIG500



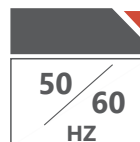
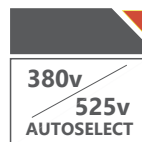
## Features and Benefits:

- Low welding distortion, high welding deposit rate
- Easy arc starting
- High duty cycle
- Less spatter due to the advanced wave form control technology
- Proven reliability in the manufacturing industry
- Digital display for accurate parameter preset, easy to operate
- Used for solid /flux-cored welding wire
- Generator compatible
- Full parts back-up



**3 YEAR  
LIMITED  
WARRANTY**

|                |                      |
|----------------|----------------------|
| <b>Output</b>  | <b>DC/CV</b>         |
| <b>Process</b> | <b>CO2/MAG(GMAW)</b> |



|                                           | <b>MIG500</b>         |
|-------------------------------------------|-----------------------|
| <b>Rated input voltage/frequency (Hz)</b> | 3 phase, 380V/525V    |
| <b>Frequency</b>                          | 50/60hz Manual Select |
| <b>Rated input capacity (KVA)</b>         | 25                    |
| <b>Rated input current (A)</b>            | 46/33                 |
| <b>Duty cycle (%)</b>                     | 60%@500A              |
| <b>OCV (V)</b>                            | 79                    |
| <b>Output current range (A)</b>           | 60-500                |
| <b>Output voltage range (V)</b>           | 14-50                 |
| <b>Trigger mode</b>                       | 2 /4T                 |
| <b>Wire size (mm)</b>                     | 1.0, 1.2, 1.6         |
| <b>Protection class</b>                   | IP21S                 |
| <b>Insulation class</b>                   | H                     |
| <b>Weight (kg)</b>                        | 50                    |
| <b>Dimension (mm)</b>                     | 636*322*584           |

## Standard equipment

- 1 Power source
- 1 Connected primary cable L=3m
- 1 Wire feeder with Europe connection
- Mig torch (optional)

## Recommended areas of use

- Construction
- Manufacturing
- Mining
- Shipbuilding and offshore engineering
- Paper and pulp

## Recommended base metals

- Carbon steel
- Alloy steel

**MULTI PROCESS MACHINE**

# DURA FLEXIARC 400/600 INVERTER

STOCK CODE: DURA-FLEXIARC400/600



## Features and Benefits:

- Multi-process for various applications
- Unique wave control technology ensures less spatter, stable current
- Advanced creep start and flashback, easily arc striking
- Stepless adjustment of current and voltage with wide range
- 2 step /4 step
- Remote control
- VRD feature (MMA mode)
- Work with generator
- CC/CV wire feeder friendly
- Full parts back-up



**3 YEAR  
LIMITED  
WARRANTY**

**Output**

**DC/CC/CV**

**Process**

**CO2/MAG(GMAW)/FCAW/Stick(SMAW)/Scratch TIG/Gouging**



|                                   | <b>Flexi Arc 400</b>                             | <b>Flexi Arc 600</b> |
|-----------------------------------|--------------------------------------------------|----------------------|
| <b>Rated input voltage</b>        | 3 phase, 380V/525V                               | 3 phase, 380V/525V   |
| <b>Frequency</b>                  | 50/60 hz Manual Select                           |                      |
| <b>Rated input capacity (KVA)</b> | 18.7                                             | 33                   |
| <b>Rated input current (A)</b>    | 29/22                                            | 63/45.5              |
| <b>Duty cycle (%)</b>             | 60%@400A                                         | 100%@600A            |
| <b>OCV (V)</b>                    | 70                                               | 64/87                |
| <b>VRD (V)</b>                    | 20                                               | 20                   |
| <b>Output current range (A)</b>   | 60-400(MIG)/30-400(MMA) 60-600(MIG) /50-600(MMA) |                      |
| <b>Output voltage range (V)</b>   | 14-40                                            | 17-44                |
| <b>Trigger mode</b>               | 2 /4T                                            | 2 /4T                |
| <b>Wire size (mm)</b>             | 0.8, 1.0, 1.2                                    | 1.0, 1.2, 1.6        |
| <b>Electrode size (mm)</b>        | 2.0-6.0                                          | 2.0-6.0              |
| <b>Protection class</b>           | IP21S                                            | IP21S                |
| <b>Insulation class</b>           | H                                                | H                    |
| <b>Weight (kg)</b>                | 40                                               | 60                   |
| <b>Dimension (mm)</b>             | 576*297*574                                      | 686*322*588          |

## Standard equipment

- 1 Power source
- Primary cable L = 3m
- 1 Wire feeder with Europe connection

## Recommended areas of use

- Manufacturing industry
- Shipbuilding and offshore
- Mining Industry
- Construction industry
- Mining industry
- Petrochemical industry
- Paper and pulp

## Recommended base metals

- Carbon steel
- Alloy steel
- Stainless steel



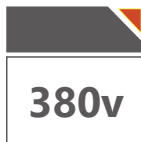
# POWERMIG 3500 - INVERTER (PULSED)

STOCK CODE: DURA POWERMIG 3500



## Features and Benefits:

- High quality
- High performance, semi-automatic carbon and stainless steel welding with no spatter and high deposition rate
- Digital CPU control, full digital control 4 roller wire feeding mechanism equipped with encoder, stable wire feeding
- Synergic/individual adjustment, easy to operate
- Initial period/crator filling period adjustment
- Penetration depth control function ensures excellent penetration
- Widely used in steel fabrication, heavy machinery and other industries



Output

CV

Process

MIG /PULSED MIG



Rated input voltage/frequency

3 phase, 380V±10%, 50Hz

Rated input capacity (KVA)

13

Rated input current (A)

21

Rated output voltage (V)

31.5

Rated duty cycle (%)

60%@350A

Rated open circuit voltage (V)

101

Output current range (A)

60-350

Output voltage range (V)

10-40

Wire feeding method

Push

Gas flow (L/min)

15-20

Protection class

IP21S

Insulation class

H

Dimension (mm)

630\*300\*550

Weight (Kg /lb)

45/99

## POWERMIG 3500

## Standard equipment

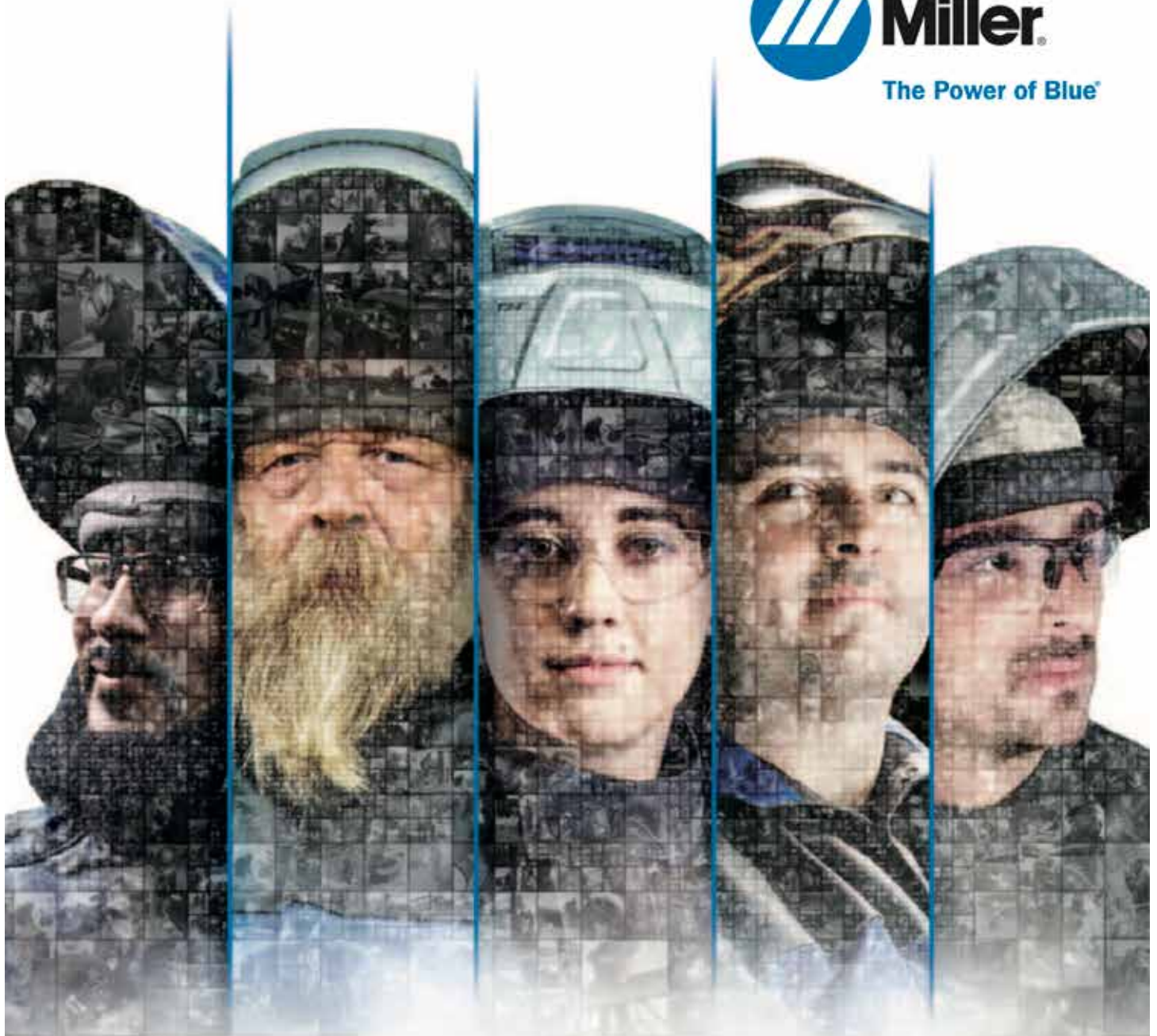
- 1 Power source
- 1 Connected primary cable L=3m
- Includes wirefeeder
- 3m interconnecting cable

## Recommended areas of use

- Petrochemical
- Construction
- Manufacturing
- Shipbuilding
- Mining
- Paper and Pulp

## Recommended base metals

- Carbon Steel
- Stainless Steel



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## Engine-Driven

### Trailblazer® 302 Air Pak™

See literature ED/4.78

**Powerful all-in-one tool designed for repair and construction with multiprocess weld quality, generator power, air compressor and battery charge/jump start.**



**Superior arc performance.** Preset dig settings optimized for the majority of stick welding applications, best-in-class wire arc performance, and two Lift-Arc™ TIG modes for most DC TIG applications.

**Strongest combined generator/compressor power.** Delivers an industry-leading 13,000 watts of peak generator power independent of weld settings — can power a Spectrum® 875 plasma cutter, and provide air for plasma cutting at the same time (rated 13 mm [1/2 in.] mild steel).

**Rotary screw air compressor.** Delivers up to 0.88 m³/min. (31 cfm) and 160 psi of air with no storage tank. Gives 100 percent deliverable air and runs many tools at idle speed. Air outputs are rated at an industry-high 40°C (104°F). Front panel air pressure adjustment and automatic overpressure shutdown with indication. Designed for more than 30,000 hours of operation and warranted for three years by Miller.

**Battery charge/crank assist.** Provides selectable 12- or 24-volt battery charging with up to 450 amps of battery crank assist capability. Convenient front panel access.

*Note: Battery charge/jump cables (300422) must be ordered separately.*

\*Recommended for operation at altitudes above 1,524 m (5,000 ft.).

**Heavy industrial** ● **CC** **CV** **AC** **DC**

#### Processes

- AC/DC stick (SMAW)
- MIG (GMAW)<sup>1</sup> • Flux-cored (FCAW)<sup>1</sup>
- AC<sup>2</sup>/DC<sup>3</sup> TIG (GTAW)
- Air carbon arc cutting and gouging (CAC-A) (rated 4.8 mm [3/16 in.] carbons, capable 6.4 mm [1/4 in.] carbons)

<sup>1</sup> With wire feeder.

<sup>2</sup> With Dynasty® 210 Series.

<sup>3</sup> Two-piece TIG torch recommended.

#### Gasoline engine

**Kohler CH750:** 27 hp at 3,600 rpm V-twin-cylinder, four-cycle, overhead valve, industrial, air-cooled

*Note: Engine is warranted separately by engine manufacturer.*

#### Most popular accessories

- SuitCase® Feeders
- Spoolmatic® 30A Aluminum Spool Gun / WC-24 Control 130831 / 137549
- HWY-Mid Frame Trailer 301438
- 7.6 m (25 ft.) Battery Charge/Jump Cables with Plug 300422

| Gasoline       | Stock Number                                                           | Welding Mode                                                                    | Process   | Amp/Volt Ranges                                                                                                       | Rated Weld Output at 40°C (104°F)                               | Single-Phase Generator Power at 40°C (104°F)   | Dimensions                                                                                                     | Net Weight       |
|----------------|------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------------------------------------------------|------------------|
|                | (907549001) Kohler                                                     | CC/DC                                                                           | Stick/TIG | 10–300 A                                                                                                              | 280 A at 32 V, 100% duty cycle                                  | Peak: 13,000 watts<br>Continuous: 11,000 watts | H: 711 mm (28 in.)<br>H: 876 mm (34.5 in.) to top of exhaust<br>W: 508 mm (20 in.)<br>D: 1,514 mm (59.625 in.) | 350 kg (771 lb.) |
|                | (907549) Kohler with GFCI and electric fuel pump*                      | CV/DC                                                                           | MIG/FCAW  | 13–35 V, 350 A                                                                                                        | 300 A at 32 V, 100% duty cycle<br>350 A at 32 V, 60% duty cycle |                                                |                                                                                                                |                  |
|                | (907549003) Kohler with GFCI, cooler/seperator and electric fuel pump* | CC/AC                                                                           | Stick/TIG | 10–225 A                                                                                                              | 200 A at 25 V, 60% duty cycle                                   |                                                |                                                                                                                |                  |
| Air Compressor |                                                                        | Features                                                                        |           | Free Air Delivery                                                                                                     |                                                                 | Working Pressure Constant                      | Duty Cycle                                                                                                     | Oil Capacity     |
|                |                                                                        | Rotary screw with electric clutch for on/off, oil change intervals of 500 hours |           | 0.88 m³/min. (31 cfm) at 3,600 rpm<br>0.79 m³/min. (28 cfm) at 3,000 rpm<br>0.62 m³/min. (22 cfm) at 2,400 rpm (idle) |                                                                 | 80–160 psig                                    | 100%                                                                                                           | 1.7 L (1.75 qt.) |

### Big Blue® 400X Pro

See literature ED/5.7

**The professional welder's choice — designed with the professional in mind, the Big Blue 400X Pro is the best for ease of use, reliability and fuel economy.**



**Available on select models. Remote control of the power source without a control cord.**

**Tailored arc control (DIG)** allows arc characteristics to be changed for specific applications and electrodes. Smooth running 7018 or stiffer, more penetrating 6010.

**Industrial USB port.** Quickly upload the latest software and download machine log files to retrieve in-depth information such as diagnostics and machine statistics.

**10,000 watts of pure generator power.** Plug in an extra Miller® inverter-based power source for an additional welding arc!

**Quiet operation.** Only 71.6 decibels (96 Lwa) under full load. Improves jobsite communication and safety.

**Standard features** include digital meters with SunVision™, automatic idle, adjustable Hot Start™, output contactor control and 120-volt block heater.

**Heavy industrial** ● **CC** **CV** **AC** **DC**

#### Processes

- Stick (SMAW) • MIG (GMAW)
- Flux-cored (FCAW) • DC TIG (GTAW)
- RMD\*\* • Pulsed MIG (GMAW-P)\*
- Air carbon arc cutting and gouging (CAC-A) (rated 4.8 mm [3/16-in.] carbons)

\*ArcReach models only with ArcReach Smart Feeder.

#### Diesel engines

**Kubota V1505:** 20.2 hp at 1,800 rpm Four-cylinder, industrial, liquid-cooled

**CAT C1.5:** 21.7 hp at 1,800 rpm Three-cylinder, liquid-cooled

*Note: Engines are warranted separately by engine manufacturer.*

#### Most popular accessories

- ArcReach® SuitCase® Feeders
- ArcReach® Smart Feeder\*\*
- ArcReach® Stick/TIG Remote\*\*
- Dynasty® 210 Series
- Protective Cover 195301

\*\*For ArcReach models only.

| Diesel | Stock Number                                                                                    | Welding Mode | Process   | Amp/Volt Ranges | Rated Output at 40°C (104°F)                                                                       | Single-Phase Generator Power at 40°C (104°F)   | Dimensions                                                          | Net Weight                                                        |
|--------|-------------------------------------------------------------------------------------------------|--------------|-----------|-----------------|----------------------------------------------------------------------------------------------------|------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------------------|
|        | (907732010) Kubota, CE<br>(907732011) Kubota w/ArcReach, CE<br>(907774002) CAT Turbo w/ArcReach | CC/DC        | Stick/TIG | 20–400 A        | 300 A at 32 V, 100% duty cycle<br>350 A at 27 V, 100% duty cycle<br>400 A at 24 V, 100% duty cycle | Peak: 12,000 watts<br>Continuous: 10,000 watts | H: 813 mm (32 in.)<br>W: 667 mm (26.25 in.)<br>D: 1,422 mm (56 in.) | <b>Kubota</b> 456 kg (1,003 lb.)<br><b>CAT</b> 500 kg (1,100 lb.) |

**3 YEAR LIMITED WARRANTY**  
**ENGINE WARRANTY SUPPLIED BY ENGINE MANUFACTURER**



## Engine-Driven

### Big Blue® 500X Pro

See literature ED/11.0

Clean, quiet, multiprocess machines designed to give welders the output they need for heavy-duty applications on construction and fabrication sites.



### ArcReach®

Remote control of the power source without a control cord.



**Arc control** is beneficial when welding with stick and solid wires for easier fine-tuning of tough-to-weld materials and out-of-position applications.

**Industrial USB port.** Quickly upload the latest software and download machine log files to retrieve in-depth information such as diagnostics and machine statistics.

**Low OCV stick (VRD)** for improved operator safety without compromising arc starts.

**Auto Remote Sense™ (ARS)** detects if a remote control is plugged into the 14-pin receptacle and eliminates confusion of a remote/panel switch.

**15,000 watts of pure generator power.** Plug in an extra Miller® inverter-based power source for an additional welding arc!

**Standard features** include digital meters with SunVision™, adjustable Hot Start™, output contactor control, automatic idle, thermal overload protection and 120-volt block heater.

Heavy industrial   

#### Processes

- Stick (SMAW) ▪ MIG (GMAW)
- Flux-cored (FCAW) ▪ DC TIG (GTAW)
- RMD\*\* ▪ Pulsed MIG (GMAW-P)\*
- Air carbon arc cutting and gouging (CAC-A) (rated 8 mm carbons)

\*ArcReach models only with ArcReach Smart Feeder.

#### Diesel engine

##### Deutz D2011L03i

3-cylinder, industrial, air/oil-cooled

Note: Engines are warranted separately by engine manufacturer.

#### Most popular accessories

- ArcReach® SuitCase® 8/12
- ArcReach® Smart Feeder\*\*
- ArcReach® Stick/TIG Remote\*\*
- Dynasty 210® Series
- Full KVA Adapter Cord
- Full KVA Plug Kit
- Protective Cover
- 301495
- 301113
- HWY-225 Trailer 301338
- Wireless Remote Hand Control/
- Wireless Antenna Kit
- 300430 / 300749
- Spark Arrestor Kit 195012

\*\*For ArcReach models only.

| Diesel | Stock Number                 | Welding Mode | Process      | Amp/Volt Ranges | Rated Output at 40°C (104°F)                                                                     | Generator Power at 40°C (104°F)                                                                                                 | Dimensions                                                             | Net Weight         |
|--------|------------------------------|--------------|--------------|-----------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|--------------------|
|        | (907788) Deutz with ArcReach | CC/DC        | DC stick/TIG | 20-500 A        | 400 A at 36 V, 100% duty cycle<br>450 A at 33 V, 60% duty cycle<br>500 A at 30 V, 40% duty cycle | Three-phase<br>Peak: 27,000 watts<br>Continuous: 20,000 watts<br>Single-phase<br>Peak: 15,000 watts<br>Continuous: 12,000 watts | H: 1,067 mm (42 in.)<br>W: 724 mm (28.5 in.)<br>D: 1,654 mm (65.1 in.) | 694 kg (1,530 lb.) |
|        |                              | CV/DC        | MIG/FCAW     | 14-50 V         |                                                                                                  |                                                                                                                                 |                                                                        |                    |

**3 YEAR LIMITED WARRANTY**  
**ENGINE WARRANTY SUPPLIED BY ENGINE MANUFACTURER**

## Engine-Driven

# Big Blue® 500X CC and 600X CC

See literature  
ED/10.11

**Designed for fleet owners that demand the ultimate in reliability and performance. Built with reliable, heavy-duty industrial components for operation in remote locations, without downtime.**



Big Blue 600X CC shown.

### Meter maintenance displays:

- Hour meter function and Oil change interval
- High coolant temperature and low oil pressure shutdowns
- Low fuel shutdown — engine shuts down before system runs out of fuel, making restarts easy

**Enclosed robust case design** protects internal components from impact and allows air flow to cool and prolong the life of the engine. Also reduces sound levels.

**Hot Start™** provides positive stick electrode starts making it easy to start all types of electrodes and it also works great for bead tie-ins.

**Arc-Drive™** makes welding easy. Automatically enhances stick welding, especially on pipe, by focusing the arc and preventing the electrode from going out.

**5,500-watt peak AC power** independent of weld settings means no interaction between tools and welding arc.

**Quick and easy maintenance** with single-side access to oil level check, oil fill, oil filter, fuel filter and air cleaner.

## Heavy industrial ● CC DC

### Processes

- Stick (SMAW)
- TIG (GTAW)
- Air Carbon Arc Cutting and Gouging (CAC-A) (500X: rated 8 mm [5/16 in.] carbons); (600X: rated 9.5 mm [3/8 in.] carbons)

### Diesel engines

#### 500X – Deutz D2011L03i

3-cylinder, industrial, air/oil-cooled

#### 500X – Perkins 404D-22

4-cylinder, industrial, liquid-cooled

#### 600X – Deutz D2011L04i

4-cylinder, industrial, air/oil-cooled

*Note: Engines are warranted separately by engine manufacturer.*

### Most popular accessories

- Engine Filter Kits  
Deutz 2011 246988  
Deutz 912 246989  
Perkins 404 246985
- Cold Weather Starting Aids available for all units
- Weld Meters 195131
- Battery Voltmeter 195454
- Spark Arrestor Kit 195012
- Protective Cover 194683
- RHC-3GD34A Remote Hand Control 041122

| Model             | Stock Number                                                            | Description     | Process       | Amp/Volt Ranges | Rated Output at 40°C (104°F)                                                                                                 | Generator Output Rated at 40°C (104°F)                                                                       | Shipping Weight                  |
|-------------------|-------------------------------------------------------------------------|-----------------|---------------|-----------------|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|----------------------------------|
| Big Blue 500 X CC | (907185)<br>(907185001)<br>with auto idle, V-A meters and battery meter | Deutz D2011L03i | DC, Stick/TIG | 55-500 A        | 400 A at 36 V (14.4 kW), 100% duty cycle<br>450 A at 38 V (17.1 kW), 60% duty cycle<br>500 A at 30 V (15 kW), 40% duty cycle | <b>Peak:</b> 5500 watts<br><b>Continuous:</b> 4000 watts,<br>34/17 A, 120/240 VAC,<br>50/60 Hz while welding | <b>907185:</b> 728 kg (1604 lb.) |
| Big Blue 600 X CC | (907193)<br>(907193001)<br>with auto idle, V-A meters and battery meter | Deutz D2011L04i |               | 65-600 A        | 500 A at 40 V (20 kW), 100% duty cycle<br>550 A at 34 V (18.7 kW), 60% duty cycle<br>600 A at 30 V (18 kW), 40% duty cycle   |                                                                                                              | <b>Deutz:</b> 769 kg (1695 lb.)  |

**3 YEAR LIMITED WARRANTY  
ENGINE WARRANTY SUPPLIED BY ENGINE MANUFACTURER**



## Engine-Driven

# Big Blue® 800X Duo Air Pak™

See literature ED/13.0

The most powerful diesel welder/generator in the industry. Robust output for welding and power generation, and ideal for dual-operator applications on labor intensive jobsites, or jobsites with limited space.



### ArcReach®

Remote control of the power source without a control cord.



**Multi-arc welding.** One dependable engine – two independent arcs with up to 400 amps each. Or plug in additional inverters for a true multioperator work platform! Example: Two additional XMT machines equals four operators, up to 200 amps each. Premium quality arcs allow operators to work independently with no arc interaction. Multioperator welding has never been easier or more versatile.

**Increased efficiency.** More arcs and better fuel economy equal increased profits for your business. Estimated savings are 34 percent with a dual-operator unit versus two single-operator units.

**Simple paralleling switch** makes switching from a single operator to dual operators a breeze. Weld up to 400 amps per side when set up in dual-operator mode, or up to 800 amps in single-operator mode.

**Electronic engine display** simultaneously displays fuel level, engine hours, coolant temperature, oil pressure, battery volts and engine rpm. Also tracks oil change intervals and displays engine diagnostics for easier servicing. Air Pak model adds air pressure and compressor hours displays.

**Arc control** is beneficial when welding with stick and solid wires for easier fine-tuning of tough-to-weld materials and out-of-position applications.

**Industrial USB port.** Quickly upload the latest software and download machine log files to retrieve in-depth information such as diagnostics and machine statistics.

**20,000 watts of pure generator power.** Plug in an extra Miller® inverter-based power source for an additional welding arc!

**Standard features** include digital meters with SunVision™, automatic idle, 120-volt block heater and vandalism lockout (protects control panel and receptacles, see photo at right).

**Ingersoll Rand ultra-reliable industrial rotary screw compressor.** 30,000-hour life expectancy. Independent on/off control for applications not requiring compressed air – allows greater fuel savings and longer compressor service intervals.



Heavy industrial   

### Processes

- Stick (SMAW) • MIG (GMAW)
- Flux-cored (FCAW) • DC TIG (GTAW)
- RMD® • Pulsed MIG (GMAW-P)\*
- Air carbon arc cutting and gouging (CAC-A) (rated 12.7 mm [1/2-in.] carbons)
- Stud (12.7 mm [1/2 in.])

\*With ArcReach Smart Feeder.

### Diesel engine

#### Deutz TD2011L04i

63.4 hp at 1,800 rpm

Turbo-charged, four-cylinder, industrial, air/oil-cooled

Note: Engines are warranted separately by engine manufacturer.

### Most popular accessories

- ArcReach® SuitCase®  
8: 301457 / 12: 301456 / 12RC: 301121
- ArcReach® Smart Feeder 300935
- ArcReach® Stick/TIG Remote 301325
- Dynasty 210® Series
- Full KVA Adapter Cord 300517
- Full KVA Plug Kit  
119172 Single-phase  
254140 Three-phase
- Protective Cover 301113
- HWY-225 Trailer 301338
- Four-Wheel Off-Road Trailer 042801
- Wireless Remote Hand Control / Wireless Antenna Kit  
300430 / 300749



### Desiccant Air Dry System (Air Pak model only)

- 195117 Side mount
- 195117001 Rear mount
- Eliminates moisture in the air stream and prevents air line freeze-ups in cold climates.
- Spark Arrestor Kit 195012

\*Welder truck specific models available – visit [MillerWelds.com](http://MillerWelds.com) or your distributor.

| Diesel                                | Stock Number*                                                                                                    | Welding Mode/Process                                     | Output Mode             | Amp/Volt Ranges | Rated Output at 100% Duty Cycle at 40°C (104°F) | Generator Power at 40°C (104°F)                                                                                                                                         | Dimensions                                                             | Net Weight         |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-------------------------|-----------------|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|--------------------|
|                                       | (907763) Deutz with ArcReach                                                                                     | CC/DC (Stick/TIG)                                        | Separate (dual outputs) | 20-400 A        | 400 A at 36 V (each side)                       | Three-phase<br>Peak: 27,000 watts<br>Continuous: 20,000 watts<br>380/400V Three-phase auxiliary power<br>Single-phase<br>Peak: 15,000 watts<br>Continuous: 12,000 watts | H: 1,168 mm (46 in.)<br>W: 724 mm (28.5 in.)<br>D: 1,765 mm (69.5 in.) | 968 kg (2,095 lb.) |
|                                       |                                                                                                                  |                                                          | Paralleled (combined)   | 40-800 A        | 700 A at 44 V, 800 A at 38 V                    |                                                                                                                                                                         |                                                                        |                    |
|                                       |                                                                                                                  | CV/DC (MIG/FCAW)                                         | Separate (dual outputs) | 14-50 V         | 400 A at 34 V (each side)                       |                                                                                                                                                                         |                                                                        |                    |
|                                       |                                                                                                                  |                                                          | Paralleled (combined)   | 14-50 V         | 750 A at 40 V, 800 A at 38 V                    |                                                                                                                                                                         |                                                                        |                    |
| Ingersoll Rand CE55 G1 Air Compressor | Features                                                                                                         | Free Air Delivery                                        |                         |                 | Working Pressure Constant                       | Duty Cycle                                                                                                                                                              | Oil Capacity                                                           |                    |
|                                       | Rotary screw with electric clutch for on/off, oil change intervals of 500 hours, life expectancy of 30,000 hours | Idle: 1.13 m³/min (40 cfm)<br>Weld: 1.70 m³/min (60 cfm) |                         |                 | 100 psig (7 bar)                                | 100%                                                                                                                                                                    | 3.79 L (4 qt.)                                                         |                    |

# DIESEL ENGINE DRIVEN WELDING MACHINES

MPM 8/300 IKAS - 300A Diesel



**LIMITED  
WARRANTY  
12 MONTHS/  
1000 HOURS**

**ROAD WORTHY OR SITE TRAILER  
– OPTIONAL EXTRA**

## GENERATOR

|                      |                                         |
|----------------------|-----------------------------------------|
| Type                 | Asynchronous                            |
| Single phase power   | 2.5 kVA - 230 V (according to DIN 6271) |
| Frequency            | 50 Hz                                   |
| Power factor         | 0,8                                     |
| Insulation class     | H                                       |
| Degree of protection | IP 23                                   |

## D.C. WELDING

|                             |              |
|-----------------------------|--------------|
| Welding at 35% duty cycle   | 300 A - 32 V |
| Welding at 60% duty cycle   | 270 A - 31 V |
| Range of continuous control | 30 ÷ 300 A   |
| OCV                         | 70 V         |
| Electrodes diameter         | 6 mm         |

## ENGINE

|                                                        |                     |
|--------------------------------------------------------|---------------------|
| Engine type                                            | Kubota D722         |
| Number of cylinders                                    | 3                   |
| Displacement                                           | 719 cm <sup>3</sup> |
| Power (emergency service)                              | 17 HP (12,5 kWm)    |
| Engine speed                                           | 3000 rpm            |
| Cooling system                                         | Water               |
| Fuel type                                              | Diesel              |
| Oil tank capacity                                      | 3,1 l               |
| Starting system                                        | Electric            |
| Consumption per hour<br>(at 75% of continuous service) | 2,9 l/h             |

## GENERAL SPECIFICATIONS

|                                                       |                    |
|-------------------------------------------------------|--------------------|
| Noise power emission level                            | L <sub>wa</sub> 99 |
| Battery                                               | 12 V - 44 Ah       |
| Fuel tank capacity                                    | 30 l               |
| Operating range at 75% of continuous<br>service power | 11 h ~             |
| Dry weight                                            | 345 Kg             |
| Dimensions (L x W x H)                                | 1360 x 530 x 866   |

# TWIN & QUAD WELDING PACKS

- High Quality
- Build to Handle the Extreme Africa Operating Conditions
- Operate with low grade diesel fuel.
- Meeting latest SANS specifications on the Electrical side
- Easy to Maintain
- Ideal for Greenfield projects/ construction work/  
Pipe line welding
- Multi purpose welding – MMA/MIG/TIG/ FLUXCORE/PLASMA CUT/CELLULOSIC
- Save on Fuel & Transport cost by having 1 unit only to do the job of 2 or 4 individual units
- Full parts Back-up



**Warranty - 12 months or 1000 hours warranty on all Major Parts & Labour subject to Afritech standard conditions of sale**

**LIMITED  
WARRANTY  
12 MONTHS/  
1000 HOURS**

| TYPE                            | TWIN WELDING PACK         | QUAD WELDING PACK |
|---------------------------------|---------------------------|-------------------|
| Item Code                       | 2-PACK                    | 4-PACK            |
| Model                           | GMS 30 DR                 | GMS 40 DR         |
| Enclosure type                  | WEATHER PROOF             |                   |
| KVa output (Sea level)          | 30/33                     | 40/44             |
| Output A per Ph max (Sea Level) | 47.6                      | 63.5              |
| Voltage                         | 380/230V                  |                   |
| 230V Power outlets – 16A        | 2                         | 4                 |
| 380V Power outlets – 40A        | 2                         | 4                 |
| Engine Model                    | F3L912 AIR COOLED         | F4L912 AIR COOLED |
| Engine KW output max.           | 42                        | 54                |
| Aspiration                      | NATURAL                   |                   |
| Engine speed                    | 1500 RPM                  |                   |
| Starting system                 | 12V DC                    |                   |
| Alternator type                 | NEWAGE STAMFORD           |                   |
| Alternator model                | PI 144 E                  | PI 144 K          |
| PLC                             | PLC 920                   |                   |
| Engine protection               | HIGH TEMPERATURE, LOW OIL |                   |
| Fuel tank capacity              | 145L                      |                   |
| Welding units per unit          | 2                         | 4                 |
| Size L x W x H                  | 2000 X 959 X 1463         | 2200 X 959 X 1463 |
| Fuel consumption 100% load      | 218G KW.H                 | 235G KW.H         |
| Weight (unit without trailer)   | 877                       | 977               |

Optional Extra

\*Welding Machines & Accessories as per client specification

\*Low Fuel cut out system

\*Twin Axle Road Worthy Trailer



**022 PLASMA CUT/PLASMA TORCH SPARES & CONSUMABLES**



# DURA CUT120 PLASMA CUTTER

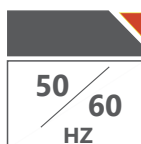
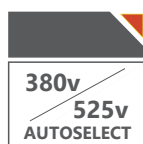
STOCK CODE: DUR-ACUT120



## Features and Benefits:

- ACUT is air cooled power source to provide a non-stop work
- ACUT provides cutting of steel, stainless steel, copper, aluminum etc
- Self diagnostic and different protections help in work and maintain power source
- Post flow function gives additional cooling for plasma torch
- Transferring arc to reduce the burning loss of nozzle and electrode
- 2T /4T
- Work with generator
- Full parts back-up

|         |       |
|---------|-------|
| Output  | DC/CC |
| Process | CUT   |



|                                    | ACUT120                         |
|------------------------------------|---------------------------------|
| Rated input voltage/frequency (Hz) | 3 phase, 380V/525V, Auto Select |
| Frequency                          | 50/60 hz, Manual select         |
| Rated input capacity (KVA)         | 20                              |
| Rated input current (A)            | 39/28                           |
| Duty cycle (40°C)                  | 60%@120A                        |
| OCV (V)                            | 260                             |
| Output current range (A)           | 30-120                          |
| Arc ignition method                | HF pilot                        |
| Maximum cutting thickness(mm)      | 35                              |
| Clean cut thickness (mm)           | 1-18                            |
| Air pressure (MPa)                 | 0.45-0.55                       |
| Protection class                   | IP21S                           |
| Insulation class                   | H                               |
| Dimension (mm)                     | 655*325*560                     |
| Weight (kg)                        | 43.5                            |

## Standard equipment

- 1 Power source
- 1 Connected primary cable L=3m
- 1 Pressure-reducing valve
- 1 Plasma torch

## Recommended areas of use

- Maintenance and repair
- Pipeline construction
- Construction
- Manufacturing
- Shipbuilding
- Mining

## Recommended base metals

- Mild steel
- Alloy steel
- Stainless steel
- Copper
- Aluminum and other non-ferrous metals

# TRAFIMET A141 PLASMA TORCH & SPARES



## A141 PLASMA TORCH



|              |                                                       |
|--------------|-------------------------------------------------------|
| PC-A141-4    | TRAFIMET PLASMA TORCH A141 4 METER                    |
| PC-CV0011    | PLASMA CUTTING SPRING ATTACHMENT CV011 - (H)          |
| PC-CV0012    | PLASMA CUTTING CROWN ATTACHMENT CV0012                |
| PC-CV0021    | PLASMA CUTTING CIRCLE CUTTING ATTACHMENT CV0021 - (J) |
| PC-PC0101    | PLASMA CUTTING OUTER NOZZLE PC0101 - (B)              |
| PC-PC0102    | PLASMA OUTER NOZZLE PC0102 A141                       |
| PC-PD0101-11 | PLASMA CUTTING CONTACT TIP PD0101-11 - (C)            |
| PC-PD0101-14 | PLASMA CUTTING CONTACT TIP PD0101-14 - (D)            |
| PC-PE0101    | PLASMA CUTTING SWIRL RING PE0101 - (I)                |
| PC-PF0155    | TRAFIMET A141 TORCH HEAD PF0155 - (K)                 |
| PC-PH1171-4  | TRAFIMET A141 POWER CABLE PH1171-4 4 METER            |
| PC-PR0101    | PLASMA CUTTING ELECTRODE PR0101 - (A)                 |

# 025 TIG TORCHES AND CONSUMABLES



# WELDCRAFT™ A-125 SERIES

Formerly WP-9 Series

## Models: A-125

A-125 Valve  
A-125 Flex  
A-125 Flex Valve  
A-125 Flex Redhead™  
A-125 Flex Valve Redhead™  
A-125 Pencil

**Applications:** Maintenance and repair  
Home/hobby  
Metal art/sculpture  
Motorsports  
Fabrication

**Rated Output:** DC: 125 A, AC: 100 A

**Duty Cycle:** 60%

**Electrode Range:** .020–1/8 in. (0.5–3.2 mm)

**The lightweight body** reduces fatigue and downtime, and increases operator comfort.

**Perfected control.** The gas valve in the A-125 Valve offers improved shielding gas control.

**Flexibility.** Using the A-125 Flex, the flexible neck easily adjusts to any angle for improved torch control.

**The pencil-style model** without a back cap allows for superior access to confined areas (A-125 Pencil).

**Combine the flexible neck and gas valve** for welding limited-access joints using power sources without gas solenoids (A-125 Flex Valve).

**For maximum versatility** on multiple welding applications, without adding expenses, use the A-125 Flex Redhead and A-125 Flex Valve Redhead.

*Note: Torches delivered may vary slightly from images shown.*



| MODELS    |                  | 1-PIECE POWER CABLE STANDARD RUBBER |                | 2-PIECE POWER CABLE RUBBER |                |
|-----------|------------------|-------------------------------------|----------------|----------------------------|----------------|
| OLD MODEL | NEW NAME         | 12.5 FT. (3.8 M)                    | 25 FT. (7.6 M) | 12.5 FT. (3.8 M)           | 25 FT. (7.6 M) |
| WP-9      | A-125            | WP-9-12-R                           | WP-9-25-R      | WP-9-12-2                  | WP-9-25-2      |
| WP-9V     | A-125 VALVE      | WP-9V-12-R                          | WP-9V-25-R     | WP-9V-12-2                 | WP-9V-25-2     |
| WP-9F     | A-125 FLEX       | WP-9F-12-R                          | WP-9F-25-R     | —                          | —              |
| WP-9FV    | A-125 FLEX VALVE | WP-9FV-12-R                         | WP-9FV-25-R    | WP-9FV-12-2                | WP-9FV-25-2    |
| WP-9P     | A-125 PENCIL     | WP-9P-12-R                          | WP-9P-25-R     | —                          | —              |

V = Valve F = Flex FV = Flex Valve P = Pencil

Torch packages include torch body, handle, power cable, and long back cap (excluding the A-125 Pencil model).

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# WELDCRAFT™ A-150 SERIES

Formerly WP-17 Series

## Models: A-150

A-150 Valve  
A-150 Flex  
A-150 Flex Valve  
A-150 Flex Redhead™  
A-150 Flex Valve Redhead™  
A-150 Positive Stop Handle  
A-150 Valve Positive Stop Handle

**Applications:** Fabrication  
Maintenance and repair  
Aerospace  
Food and beverage industry  
Metal art  
Petro/chemical  
Shipboard installation/repair

**Rated Output:** DC: 150 A, AC: 115 A

**Duty Cycle:** 60%

**Electrode Range:** .020–1/8 in. (0.5–3.2 mm)

## A-150 Series TIG torches

Formerly known as the WP-17 Series, the A-150 Series is comprised of an assortment of versatile and innovative air-cooled torches designed for maximum comfort in a variety of applications. The A-150 Series torches are a cost-effective alternative to complex water-cooled systems.

**Diamond Grip™ head design** (A-150 and A-150 Valve) has ergonomic contact points for thumb and fingers. Provides a more comfortable grip and reduces operator fatigue.

**Improve control and comfort** with the A-150 Flex and the flexible neck that allows access into hard-to-reach areas.

**Maximum versatility.** Utilize the Redhead Series torches in a variety of welding applications without adding expenses.

**Ribbed handle and torch design** provide cool operation and maximum operator comfort while reducing downtime caused by operator fatigue.

**Utilize existing parts.** Replacement parts are easy to find. The A-150 Series uses Weldcraft 10N series consumables.

**Available with 12.5- or 25-foot, single or heavy-duty two-piece cable assembly** determined by the compatibility of the power source. Heavy-duty cable assembly allows use of a larger conductor for the power cable which simplifies repair and replacement making it ideal for field applications.

*Note: Torches delivered may vary slightly from images shown.*



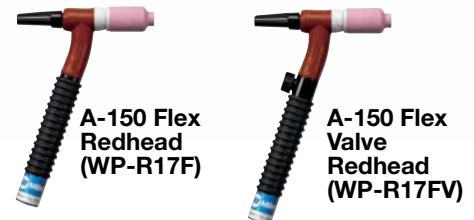
A-150  
(WP-17)

## ADDITIONAL TORCH MODELS



A-150  
Flex  
(WP-17F)

A-150 Flex  
Valve  
(WP-17FV)



A-150 Flex  
Redhead  
(WP-R17F)

A-150 Flex  
Valve  
Redhead  
(WP-R17FV)



A-150  
Valve  
(WP-17V)

A-150 PSH  
(WP-17V-  
Positive  
Stop Handle)

A-150  
Valve PSH  
(WP-17V-  
Positive  
Stop Handle)

| MODELS    |                  | 1-PIECE POWER CABLE STANDARD RUBBER |                | 1-PIECE POWER CABLE MONO-FLEX™ |                | 2-PIECE POWER CABLE RUBBER |                |
|-----------|------------------|-------------------------------------|----------------|--------------------------------|----------------|----------------------------|----------------|
| OLD MODEL | NEW NAME         | 12.5 FT. (3.8 M)                    | 25 FT. (7.6 M) | 12.5 FT. (3.8 M)               | 25 FT. (7.6 M) | 12.5 FT. (3.8 M)           | 25 FT. (7.6 M) |
| WP-17     | A-150            | WP-17-12-R                          | WP-17-25-R     | WP-17-12-MF                    | WP-17-25-MF    | WP-17-12-2                 | WP-17-25-2     |
| WP-17V    | A-150 VALVE      | WP-17V-12-R                         | WP-17V-25-R    | WP-17V-12-MF                   | WP-17V-25-MF   | WP-17V-12-2                | WP-17V-25-2    |
| WP-17F    | A-150 FLEX       | WP-17F-12-R                         | WP-17F-25-R    | —                              | —              | WP-17F-12-2                | WP-17F-25-2    |
| WP-17FV   | A-150 FLEX VALVE | WP-17FV-12-R                        | WP-17FV-25-R   | —                              | —              | WP-17FV-12-2               | WP-17FV-25-2   |

V = Valve F = Flex FV = Flex Valve PSH = Positive Stop Handle (threaded handle)  
Torch packages include torch body, handle, power cable and long back cap.

# WELDCRAFT™ W-350 SERIES

Formerly WP-18 Series

**Models:** W-350

W-350 Valve

**Applications:** Aluminum fabrication  
Aluminum ship repair  
Automotive  
Exotic material fabrication  
Light and heavy manufacturing  
Maintenance and repair  
Metal fabrication  
Pipe and tube fabrication  
Pressure vessel fabrication  
Shipbuilding  
Tool and die  
Tube and pipe  
Vocational

**Rated Output:** DC: 350 A, AC: 250 A

**Duty Cycle:** 100%

**Electrode Range:** .020–5/32 in. (0.5–4.0 mm)

## W-350 Series TIG torches

Formerly known as the WP-18 Series, the W-350 Series is comprised of rugged torches engineered for high-amperage and continuous hand-held welding in mechanized applications. With the W-350 Series, welders can handle their welding applications with more power and comfort.

**Reduce downtime and costs** by minimizing overheating with the unique cooling design engineered for operator comfort. Reduce discomfort and fatigue using the comfortable handle design.

**Superior gas flow control** offered through the built-in fingertip gas control (W-350 Valve).

*Note: Torches delivered may vary slightly from images shown.*



| MODELS    |             | RUBBER           |                | VINYL            |                |
|-----------|-------------|------------------|----------------|------------------|----------------|
| OLD MODEL | NEW NAME    | 12.5 FT. (3.8 M) | 25 FT. (7.6 M) | 12.5 FT. (3.8 M) | 25 FT. (7.6 M) |
| WP-18     | W-350       | WP-18-12-R       | WP-18-25-R     | WP-18-12         | WP-18-25       |
| WP-18V    | W-350 VALVE | —                | WP-18V-25-R    | —                | WP-18V-25      |

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# WELDCRAFT™ A-200 SERIES

Formerly WP-26 Series

## Models: A-200

A-200 Valve  
A-200 Flex  
A-200 Flex Valve  
A-200 Flex Redhead™  
A-200 Flex Valve Redhead™

**Applications:** Fabrication  
Maintenance and repair  
Manufacturing  
Shipbuilding  
Vocational

**Rated Output:** DC: 200 A, AC: 150 A

**Duty Cycle:** 60%

**Electrode Range:** ..020–5/32 in. (0.5– 4.0 mm)

**Eliminate the expense** of a water-cooled system. The air-cooled capability pairs reliability with cost-effectiveness for all field applications.

**Robust performance.** The heavy copper construction delivers optimal welding capacity for rugged fieldwork.

**Effortless adjustments.** The A-200 Valve provides a gas control valve to ensure a quick, easy adjustment of shielding gas flow.

**Flexibility.** Using the A-200 Flex, the flexible neck easily adjusts to any angle for better torch control in limited-access joints.

**Combining the flexible neck and gas valve** advances capabilities with greater comfort and control (A-200 Flex Valve).

**Maximum versatility.** Utilize the Redhead Series torches in a variety of welding applications without adding expenses.

*Note: Torches delivered may vary slightly from images shown.*



A-200  
(WP-26)

## ADDITIONAL TORCH MODELS



A-200 Flex  
(WP-26F)



A-200 Flex  
Valve  
(WP-26FV)



A-200  
Valve  
(WP-26V)



A-200 Flex  
Redhead  
(WP-R26F)



A-200 Flex  
Valve  
Redhead  
(WP-  
R26FV)

| MODELS    |                            | 1-PIECE POWER CABLE STANDARD RUBBER |                | 2-PIECE POWER CABLE RUBBER |                |
|-----------|----------------------------|-------------------------------------|----------------|----------------------------|----------------|
| OLD MODEL | NEW NAME                   | 12.5 FT. (3.8 M)                    | 25 FT. (7.6 M) | 12.5 FT. (3.8 M)           | 25 FT. (7.6 M) |
| WP-26     | A-200                      | WP-26-12-R                          | WP-26-25-R     | WP-26-12-2                 | WP-26-25-2     |
| WP-26V    | A-200 VALVE                | WP-26V-12-R                         | WP-26V-25-R    | WP-26V-12-2                | WP-26V-25-2    |
| WP-26F    | A-200 FLEX                 | WP-26F-12-R                         | WP-26F-25-R    | WP-26F-12-2                | WP-26F-25-2    |
| WP-26FV   | A-200 FLEX VALVE           | WP-26FV-12-R                        | WP-26FV-25-R   | WP-26FV-12-2               | WP-26FV-25-2   |
| WP-R26F   | A-200 FLEX REDHEAD™        | WP-R26F-12-R                        | —              | —                          | WP-R26F-25-2   |
| WP-R26FV  | A-200 FLEX VALVE RED-HEAD™ | —                                   | WP-R26FV-25-R  | —                          | —              |

V = Valve F = Flex FV = Flex Valve

Torch packages include torch body, handle, power cable and long back cap.

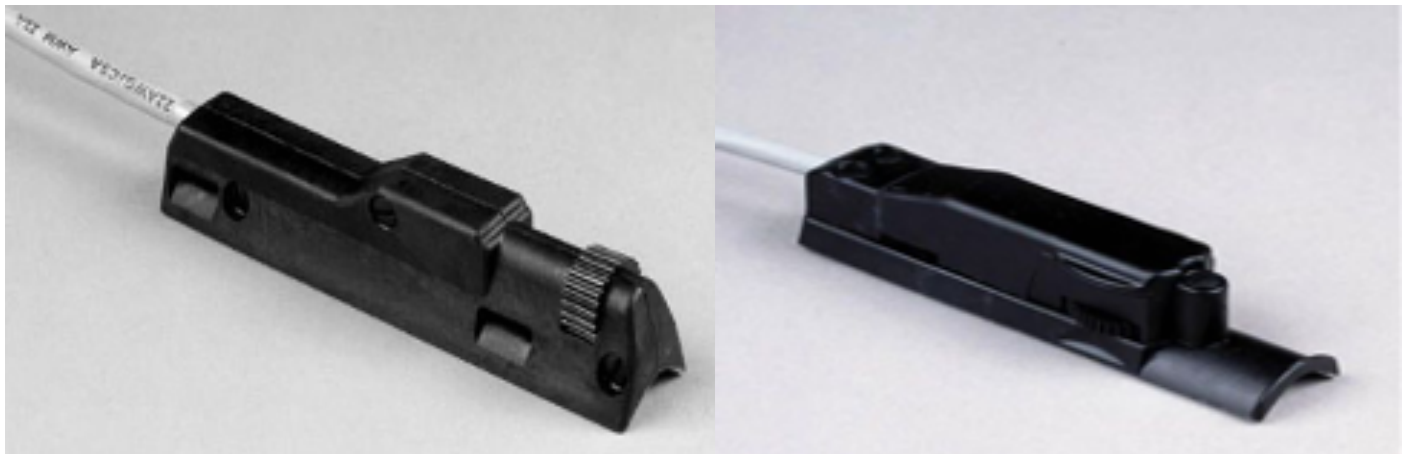
## MILLER WELDCRAFT TIG TORCHES

|               |                                                           |
|---------------|-----------------------------------------------------------|
| WC-WP17V-25-2 | WELDCRAFT WP17V-25-2 TIG TORCH VALVED AIR- COOLED 2 PIECE |
| WC-WP18-25-R  | WELDCRAFT WP18-25-R TIG TORCH WATER COOLED RUBBER         |
| WC-WP26V-25-2 | WELDCRAFT WP26V-25-2 TIG TORCH AIR W/VALVE 25FT           |
| WC-WP9FV-25-2 | WELDCRAFT WP9FV-25-2 FLEX HEAD TIG TORCH 2 PIECE          |
| WC-WP9FV-25-R | WELDCRAFT WP9FV-25-R FLEX HEAD TORCH 25FT                 |
| WC-WP9V-25-2  | WELDCRAFT WP9V-25-2 TIG TORCH VALVED AIR COOLED 2 PIECE   |



## DURA WELD TIG TORCHES

|                 |                                                         |
|-----------------|---------------------------------------------------------|
| TIG-WP9V-25     | DURA WELD WP9V-25 TIG TORCH VALVED AIR COOLED 7.5M 25FT |
| TIG-WP17V-25    | DURA WELD WP17V TORCH AIR COOLED 7.5MT 25FT             |
| TIG-WP18-25     | DURA WELD WP18-25 TIG TORCH W/COOLED RUBBER 7,6M 25FT   |
| TIG-WP26-25     | DURA WELD WP26-25 TIG TORCH AIR COOLED 7,6M 25FT        |
| TIG-WP26VSS-20M | DURA WELD TORCH WP26VSS X 20 METER                      |
| TIG-WP26VSS-25  | DURA WP26V-25 TIG TORCH VALVED A/COOLED 7.6M 25FT       |



## WELDCRAFT – FINGERTIP CONTROLS

|              |                                                    |
|--------------|----------------------------------------------------|
| WC-WPRCC-14  | WELDCRAFT WPRCC-14 EAST/WEST FINGERTIP CONTROL WIT |
| WC-WPRSSC-14 | WELDCRAFT WPRCCS-14 NORTH/SOUTH FINGERTIP CONTROL  |

## WELDCRAFT – POWER CABLE ADAPTOR

|            |                                       |
|------------|---------------------------------------|
| WC-WP45V11 | WELDCRAFT WP45V11 POWER CABLE ADAPTOR |
| WC-WP45V62 | WELDCRAFT 45V62 POWER CABLE ADAPTER   |



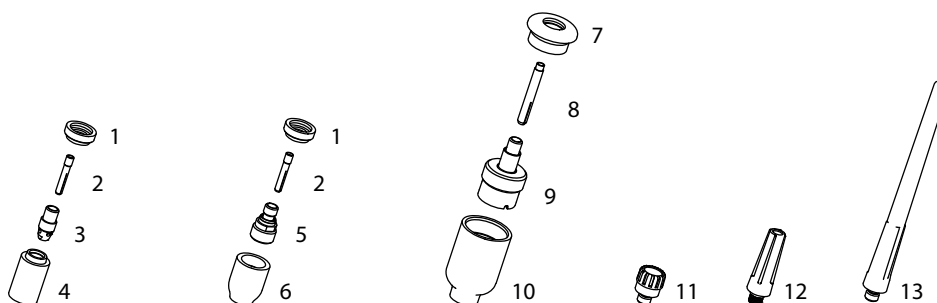
## DURA ARC - POWER CABLE ADAPTOR

|           |                               |
|-----------|-------------------------------|
| TIG-45V11 | TIG 45V11 POWER CABLE ADAPTOR |
| TIG-45V62 | TIG 45V62 POWER CABLE ADAPTOR |



# WELDCRAFT™ CONSUMABLES

## A-125 Series



### Non-Gas Lens

| Electrode Size — inch (mm) | .020 (0.5) | .040 (1.0) | 1/16 (1.6) | 3/32 (2.4) | 1/8 (3.2) |
|----------------------------|------------|------------|------------|------------|-----------|
| 1 Insulator (required)     | 598882     | 598882     | 598882     | 598882     | 598882    |
| 2 Collet                   | 13N20      | 13N21      | 13N22      | 13N23      | 13N24     |
| 3 Collet Body              | 13N25      | 13N26      | 13N27      | 13N28      | 13N29     |

| Nozzle Size — size # (inch) | 3 (3/16) | 4 (1/4) | 5 (5/16) | 6 (3/8) | 7 (7/16) | 8 (1/2) | 10 (5/8) | 12 (3/4) | Short |
|-----------------------------|----------|---------|----------|---------|----------|---------|----------|----------|-------|
| 4 Alumina                   | —        | 13N08   | 13N09    | 13N10   | 13N11    | 13N12   | 13N13    | —        | —     |
| * Lava                      | —        | 13N14   | 13N15    | 13N16   | 13N17    | 13N18   | 13N19    | —        | —     |
| * Long Lava                 | 796F70   | 796F71  | 796F72   | 796F73  | —        | —       | —        | —        | —     |
| * X-Long Lava               | 796F74   | 796F75  | 796F76   | 796F77  | —        | —       | —        | —        | —     |

### Gas Lens

| Electrode Size — inch (mm) | .020 (0.5) | .040 (1.0) | 1/16 (1.6) | 3/32 (2.4) | 1/8 (3.2) |
|----------------------------|------------|------------|------------|------------|-----------|
| 1 Insulator (required)     | 598882     | 598882     | 598882     | 598882     | 598882    |
| 2 Collet                   | 13N20      | 13N21      | 13N22      | 13N23      | 13N24     |
| 5 Gas Lens                 | 45V41      | 45V42      | 45V43      | 45V44      | 45V45     |

| Nozzle Size — size # (inch) | 3 (3/16) | 4 (1/4) | 5 (5/16) | 6 (3/8) | 7 (7/16) | 8 (1/2) | 10 (5/8) | 12 (3/4) | Short |
|-----------------------------|----------|---------|----------|---------|----------|---------|----------|----------|-------|
| 6 Alumina Gas Lens          | —        | 53N58   | 53N59    | 53N60   | 53N61    | 53N61S  | —        | —        | —     |

### Large Diameter Gas Lens

| Electrode Size — inch (mm) | .020 (0.5) | .040 (1.0) | 1/16 (1.6) | 3/32 (2.4) | 1/8 (3.2) |
|----------------------------|------------|------------|------------|------------|-----------|
| 7 Insulator (required)     | 54N63-20   | 54N63-20   | 54N63-20   | 54N63-20   | 54N63-20  |
| 8 Collet                   | 13N20L     | 13N21L     | 13N22L     | 13N23L     | 13N24L    |
| 9 Large Diameter Gas Lens  | 45V0204S   | 45V0204S   | 45V116S    | 45V64S     | 995795S   |

| Nozzle Size — size # (inch) | 3 (3/16) | 4 (1/4) | 5 (5/16) | 6 (3/8)  | 7 (7/16) | 8 (1/2)  | 10 (5/8) | 12 (3/4) | Short |
|-----------------------------|----------|---------|----------|----------|----------|----------|----------|----------|-------|
| 10 Large Dia. Gas Lens      | —        | —       | —        | 57N75    | —        | 57N74    | 53N88    | 53N87    | 53N89 |
| * Large Dia. Gas Lens-L     | —        | —       | —        | 57N75L   | —        | 57N74L   | 53N88L   | 53N87L   | —     |
| * Large Dia. Gas Lens-XL    | —        | —       | —        | 57N75XL  | —        | 57N74XL  | 53N88XL  | 53N87XL  | —     |
| * Large Dia. Gas Lens-XXL   | —        | —       | —        | 57N75XXL | —        | 57N74XXL | 53N88XXL | 53N87XXL | —     |

### Back Caps

|                |                 |               |
|----------------|-----------------|---------------|
| 11 Short 41V33 | 12 Medium 41V35 | 13 Long 41V24 |
|----------------|-----------------|---------------|

\*Not shown.

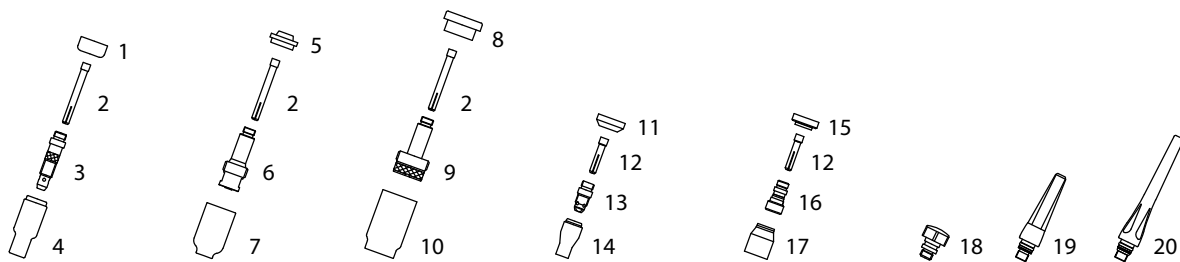


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# WELDCRAFT™ CONSUMABLES

A-150 Series | A-200 Series | W-350 Series



## Non-Gas Lens

| Electrode Size — inch (mm) | .020 (0.5) | .040 (1.0) | 1/16 (1.6) | 3/32 (2.4) | 1/8 (3.2) | 5/32 (4.0) |
|----------------------------|------------|------------|------------|------------|-----------|------------|
| 1 Insulator (required)     | 18CG       | 18CG       | 18CG       | 18CG       | 18CG      | 18CG       |
| 2 Collet                   | 10N21      | 10N22      | 10N23      | 10N24      | 10N25     | 54N20      |
| 3 Collet Body              | 10N29      | 10N30      | 10N31      | 10N32      | 10N28     | 406488     |

| Nozzle Size — size # (inch) | 4 (1/4) | 5 (5/16) | 6 (3/8) | 7 (7/16) | 8 (1/2) | 10 (5/8) | 12 (3/4) | Short |
|-----------------------------|---------|----------|---------|----------|---------|----------|----------|-------|
| 4 Alumina                   | 10N50   | 10N49    | 10N48   | 10N47    | 10N46   | 10N45    | 10N44    | —     |
| * Long Alumina              | —       | 10N49L   | 10N48L  | 10N47L   | —       | —        | —        | —     |
| * Lava                      | 105Z43  | 105Z42   | 105Z44  | 105Z45   | 08N78   | 08N79    | 08N80    | —     |
| * Long Lava                 | 12N03   | 105Z60   | 12N02   | 105Z61   | —       | —        | —        | —     |

## Gas Lens

| Electrode Size — inch (mm) | .020 (0.5) | .040 (1.0) | 1/16 (1.6) | 3/32 (2.4) | 1/8 (3.2) | 5/32 (4.0) |
|----------------------------|------------|------------|------------|------------|-----------|------------|
| 5 Insulator (required)     | 54N01      | 54N01      | 54N01      | 54N01      | 54N01     | 54N01      |
| 2 Collet                   | 10N21      | 10N22      | 10N23      | 10N24      | 10N25     | 54N20      |
| 6 Gas Lens                 | 45V29      | 45V24      | 45V25      | 45V26      | 45V27     | 45V28      |

| Nozzle Size — size # (inch) | 4 (1/4) | 5 (5/16) | 6 (3/8) | 7 (7/16) | 8 (1/2) | 10 (5/8) | 12 (3/4) | Short |
|-----------------------------|---------|----------|---------|----------|---------|----------|----------|-------|
| 7 Alumina Gas Lens          | 54N18   | 54N17    | 54N16   | 54N15    | 54N14   | —        | —        | 54N19 |
| * Long Gas Lens             | —       | 54N17L   | 54N16L  | 54N15L   | —       | —        | —        | —     |

## Large Diameter Gas Lens

| Electrode Size — inch (mm) | .020 (0.5) | .040 (1.0) | 1/16 (1.6) | 3/32 (2.4) | 1/8 (3.2) | 5/32 (4.0) |
|----------------------------|------------|------------|------------|------------|-----------|------------|
| 8 Insulator (required)     | 54N63      | 54N63      | 54N63      | 54N63      | 54N63     | 54N63      |
| 2 Collet                   | 10N21      | 10N22      | 10N23      | 10N24      | 10N25     | 54N20      |
| 9 Large Diameter Gas Lens  | 45V0204    | 45V0204    | 45V116     | 45V64      | 995795    | 45V63      |

| Nozzle Size — size # (inch) | 4 (1/4) | 5 (5/16) | 6 (3/8)  | 7 (7/16) | 8 (1/2)  | 10 (5/8) | 12 (3/4) | Short |
|-----------------------------|---------|----------|----------|----------|----------|----------|----------|-------|
| 10 Large Dia. Gas Lens      | —       | —        | 57N75    | —        | 57N74    | 53N88    | 53N87    | 53N89 |
| * Large Dia. Gas Lens-L     | —       | —        | 57N75L   | —        | 57N74L   | 53N88L   | 53N87L   | —     |
| * Large Dia. Gas Lens-XL    | —       | —        | 57N75XL  | —        | 57N74XL  | 53N88XL  | 53N87XL  | —     |
| * Large Dia. Gas Lens-XXL   | —       | —        | 57N75XXL | —        | 57N74XXL | 53N88XXL | 53N87XXL | —     |

## Stubby Non-Gas Lens

| Electrode Size — inch (mm) | .020 (0.5) | .040 (1.0) | 1/16 (1.6) | 3/32 (2.4) | 1/8 (3.2) |
|----------------------------|------------|------------|------------|------------|-----------|
| 11 Insulator (required)    | 18CG20     | 18CG20     | 18CG20     | 18CG20     | 18CG20    |
| 12 Stubby Collet           | —          | 10N22S     | 10N23S     | 10N24S     | 10N25S    |
| 13 Stubby Collet Body      | 17CB20     | 17CB20     | 17CB20     | 17CB20     | 17CB20    |

| Nozzle Size — size # (inch) | 4 (1/4) | 5 (5/16) | 6 (3/8) | 7 (7/16) | 8 (1/2) | 10 (5/8) | 12 (3/4) | Short |
|-----------------------------|---------|----------|---------|----------|---------|----------|----------|-------|
| 14 Stubby Alumina           | 13N08   | 13N09    | 13N10   | 13N11    | 13N12   | 13N13    | —        | —     |

## Stubby Gas Lens

| Electrode Size — inch (mm) | .020 (0.5) | .040 (1.0) | 1/16 (1.6) | 3/32 (2.4) | 1/8 (3.2) |
|----------------------------|------------|------------|------------|------------|-----------|
| 15 Insulator (required)    | 17GLG20    | 17GLG20    | 17GLG20    | 17GLG20    | 17GLG20   |
| 12 Stubby Collet           | —          | 10N22S     | 10N23S     | 10N24S     | 10N25S    |
| 16 Stubby Gas Lens         | —          | 17GL040    | 17GL116    | 17GL332    | 17GL18    |

| Nozzle Size — size # (inch) | 4 (1/4) | 5 (5/16) | 6 (3/8) | 7 (7/16) | 8 (1/2) | 10 (5/8) | 12 (3/4) | Short |
|-----------------------------|---------|----------|---------|----------|---------|----------|----------|-------|
| 17 Alumina Gas Lens         | 53N58   | 53N59    | 53N60   | 53N61    | 53N61S  | —        | —        | —     |

## Back Caps

|                |                |               |
|----------------|----------------|---------------|
| 18 Short 57Y04 | 19 Medium 300M | 20 Long 57Y02 |
|----------------|----------------|---------------|

\*Not shown.

## WELDCRAFT - TUNGSTENS

|               |                                         |
|---------------|-----------------------------------------|
| WC-WPWC332X7  | WELDCRAFT TUNGSTEN 2% CERATED 2.4 MM    |
| WC-WPWL2332X7 | WELDCRAFT TUNGSTEN 2% LANTHANATED 2.4MM |



## DURA ARC - TUNGSTENS

|              |                                                   |
|--------------|---------------------------------------------------|
| TIG-TTUNG1.6 | DURA THORIATED TUNGSTEN 1.6MM X 150MM RED WT20    |
| TIG-TTUNG2.4 | DURA THORIATED TUNGSTEN 2.4MM X 150MM RED WT20    |
| TIG-TTUNG3.2 | DURA THORIATED TUNGSTEN 3.2MM X 150MM RED WT20    |
| TIG-ZTUNG1.6 | DURA ZIRCONIATED TUNGSTEN 1.6MM X 150MM WHITE WZ8 |
| TIG-ZTUNG2.4 | DURA ZIRCONIATED TUNGSTEN 2.4MM X 150MM WHITE WZ8 |
| TIG-ZTUNG3.2 | DURA ZIRCONIATED TUNGSTEN 3.2MM X 150MM WHITE WZ8 |



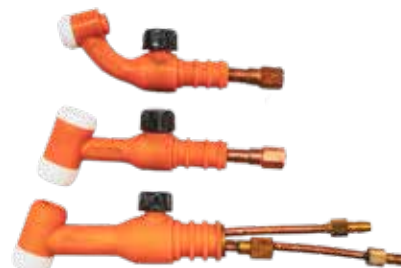
## WELDCRAFT TIG TORCH HEADS

|          |                                                 |
|----------|-------------------------------------------------|
| WC-WP9F  | WELDCRAFT WP9F TORCH BODY NO VALVE              |
| WC-WP9FV | WELDCRAFT WP9FV TORCH BODY FLEX HEAD WITH VALVE |
| WC-WP9V  | WELDCRAFT WP9V TORCH BODY WITH VALVE            |
| WC-WP17  | WELDCRAFT WP17 TORCH BODY NO VALVE              |
| WC-WP17V | WELDCRAFT WP17V TORCH BODY WITH VALVE           |
| WC-WP18  | WELDCRAFT WP18 TORCH BODY NO VALVE              |
| WC-WP26  | WELDCRAFT WP26 TORCH BODY NO VALVE              |
| WC-WP26V | WELDCRAFT WP26V TORCH BODY WITH VALVE           |



## DURA ARC TIG TORCH HEADS

|           |                                            |
|-----------|--------------------------------------------|
| TIG-WP17V | DURA WP17V TORCH BODY WITH VALVE           |
| TIG-WP18  | DURA WP18 TORCH BODY NO VALVE              |
| TIG-WP18V | DURA WP18V TORCH BODY WITH VALVE           |
| TIG-WP26  | DURA WP26 TORCH BODY NO VALVE              |
| TIG-WP26V | DURA WP26V TORCH BODY WITH VALVE           |
| TIG-WP9FV | DURA WP9FV TORCH BODY FLEX HEAD WITH VALVE |
| TIG-WP9V  | DURA WP9V TORCH BODY WITH VALVE            |



## WELDCRAFT - COLLETS

|             |                                        |
|-------------|----------------------------------------|
| WC-WP13N21  | WELDCRAFT WP13N21 COLLET 1.0MM         |
| WC-WP13N22  | WELDCRAFT WP13N22 COLLET 1.6MM         |
| WC-WP13N23  | WELDCRAFT WP13N23 COLLET 2.4MM         |
| WC-WP10N23  | WELDCRAFT WP10N23 COLLET 1.6MM         |
| WC-WP10N24  | WELDCRAFT WP10N24 COLLET 2.4MM         |
| WC-WP10N24S | WELDCRAFT WP10N24S STUBBY COLLET 2.4MM |



## DURA ARC - COLLETS

|            |                                 |
|------------|---------------------------------|
| TIG-10N23  | DURA 10N23 COLLET 1.6MM         |
| TIG-10N24  | DURA 10N24 COLLET 2.4MM         |
| TIG-10N24S | DURA 10N24S STUBBY COLLET 2.4MM |
| TIG-13N22  | DURA 13N22 COLLET 1.6MM         |
| TIG-13N23  | DURA 13N23 COLLET 2.4MM         |
| TIG-10N25  | DURA 10N25 COLLET 3.2MM         |
| TIG-17CB20 | DURA 17CB20 STUBBY COLLET 3.2MM |



## WELDCRAFT - COLLET BODY

|            |                                     |
|------------|-------------------------------------|
| WC-WP13N26 | WELDCRAFT WP13N26 COLLET BODY 1.0MM |
| WC-WP13N27 | WELDCRAFT WP13N27 COLLET BODY 1.6MM |
| WC-WP13N28 | WELDCRAFT WP13N28 COLLET BODY 2.4MM |



## DURA ARC – COLLET BODY

|            |                                 |
|------------|---------------------------------|
| TIG-10N23  | DURA 10N23 COLLET 1.6MM         |
| TIG-10N24  | DURA 10N24 COLLET 2.4MM         |
| TIG-10N24S | DURA 10N24S STUBBY COLLET 2.4MM |
| TIG-10N25  | DURA 10N25 COLLET 3.2MM         |
| TIG-10N28  | DURA 10N28 COLLET BODY 3.2MM    |
| TIG-10N31  | DURA 10N31 COLLET BODY 1.6MM    |
| TIG-10N32  | DURA 10N32 COLLET BODY 2.4MM    |
| TIG-10N28  | DURA 10N28 COLLET BODY 3.2MM    |
| TIG-10N31  | DURA 10N31 COLLET BODY 1.6MM    |
| TIG-10N32  | DURA 10N32 COLLET BODY 2.4MM    |
| TIG-13N27  | DURA 13N27 COLLET BODY 1.6MM    |
| TIG-13N28  | DURA 13N28 COLLET BODY 2.4MM    |
| TIG-45V44  | DURA 45V44 COLLET BODY 2.4MM    |



## WELDCRAFT - ALUMINA NOZZLES

|             |                                             |
|-------------|---------------------------------------------|
| WC-WP10N46  | WELDCRAFT WP10N46 ALUMINA NOZZLE NO 8       |
| WC-WP10N47  | WELDCRAFT WP10N47 ALUMINA NOZZLE NO 7       |
| WC-WP10N48  | WELDCRAFT WP10N48 ALUMINA NOZZLE NO 6       |
| WC-WP10N49  | WELDCRAFT WP10N49 ALUMINA NOZZLE NO 5       |
| WC-WP10N49L | WELDCRAFT WP10N49L ALUMINA NOZZLE NO 5 LONG |
| WC-WP13N08  | WELDCRAFT WP13N08 ALUMINA NOZZLE NO 4       |
| WC-WP13N10  | WELDCRAFT WP13N10 ALUMINA NOZZLE NO 6       |
| WC-WP13N11  | WELDCRAFT WP13N11 ALUMINA NOZZLE NO 7       |
| WC-WP13N12  | WELDCRAFT WP13N12 ALUMINA NOZZLE NO 8       |
| WC-WP53N59  | WELDCRAFT WP53N59 ALUMINA NOZZLE NO 5       |
| WC-WP53N60  | WELDCRAFT WP53N60 ALUMINA NOZZLE NO 6       |
| WC-WP53N61  | WELDCRAFT WP53N61 ALUMINA NOZZLE NO 7       |
| WC-WP53N87  | WELDCRAFT WP53N87 ALUMINA NOZZLE NO 12      |
| WC-WP53N88  | WELDCRAFT WP53N88 ALUMINA NOZZLE NO 10      |
| WC-WP54N14  | WELDCRAFT WP54N14 ALUMINA NOZZLE NO 8       |
| WC-WP54N15  | WELDCRAFT WP54N15 ALUMINA NOZZLE NO 7       |
| WC-WP54N16  | WELDCRAFT WP54N16 ALUMINA NOZZLE NO 6       |
| WC-WP54N17L | WELDCRAFT WP54N17L ALUMINA NOZZLE NO 5 LONG |



## DURA ARC – ALUMINA NOZZLES

|            |                                     |
|------------|-------------------------------------|
| TIG-10N45  | DURA 10N45 ALUMINA NOZZLE #10       |
| TIG-10N46  | DURA 10N46 ALUMINA NOZZLE #8        |
| TIG-10N47  | DURA 10N47 ALUMINA NOZZLE #7        |
| TIG-10N48  | DURA 10N48 ALUMINA NOZZLE #6        |
| TIG-10N49  | DURA 10N49 ALUMINA NOZZLE #5        |
| TIG-10N49L | DURA 10N49L ALUMINA NOZZLE LONG #5  |
| TIG-10N50  | DURA 10N50 ALUMINA NOZZLE #4        |
| TIG-13N10  | DURA 13N10 ALUMINA NOZZLE #6        |
| TIG-13N11  | DURA 13N11 ALUMINA NOZZLE #7        |
| TIG-13N12  | DURA 13N12 ALUMINA NOZZLE #8        |
| TIG-53N59  | DURA 53N59 ALUMINA NOZZLE #5        |
| TIG-53N60  | DURA 53N60 ALUMINA NOZZLE #6        |
| TIG-53N61  | DURA 53N61 ALUMINA NOZZLE #7        |
| TIG-53N87  | DURA 53N87 ALUMINA NOZZLE LARGE #12 |
| TIG-53N88  | DURA 53N88 ALUMINA NOZZLE #10       |
| TIG-54N14  | DURA 54N14 ALUMINA NOZZLE # 8       |
| TIG-54N15  | DURA 54N15 ALUMINA NOZZLE #7        |
| TIG-54N16  | DURA 54N16 ALUMINA NOZZLE           |



## WELDCRAFT – BACK CAPS

|            |                                  |
|------------|----------------------------------|
| WC-WP41V24 | WELDCRAFT WP41V24 LONG BACK CAP  |
| WC-WP41V33 | WELDCRAFT WP41V33 SHORT BACK CAP |
| WC-WP57Y02 | WELDCRAFT WP57Y02 LONG BACK CAP  |
| WC-WP57Y04 | WELDCRAFT WP57Y04 SHORT BACK CAP |



## DURA ARC – BACK CAPS

|           |                            |
|-----------|----------------------------|
| TIG-41V24 | DURA 41V24 LONG BACK CAP   |
| TIG-41V33 | DURA 41V33 SHORT BACK CAP  |
| TIG-41V35 | DURA 41V35 MEDIUM BACK CAP |
| TIG-57Y02 | DURA 57Y02 LONG BACK CAP   |
| TIG-57Y04 | DURA 57Y04 SHORT BACK CAP  |



## WELDCRAFT – BACK CAP INSULATOR

|          |                                    |
|----------|------------------------------------|
| WC-WP9-4 | WELDCRAFT WP9-4 BACK CAP INSULATOR |
|----------|------------------------------------|



## WELDCRAFT – GAS LENS

|              |                                                 |
|--------------|-------------------------------------------------|
| WC-WP45V26   | WELDCRAFT WP45V26 GAS LENS 2.4MM                |
| WC-WP45V43   | WELDCRAFT WP45V43 GAS LENS 1.6MM                |
| WC-WP45V44   | WELDCRAFT WP45V44 GAS LENS 2.4MM                |
| WC-WP45V64   | WELDCRAFT WP45V64 GAS LENS 2.4MM LARGE DIAMETER |
| WC-WP17GL332 | WELDCRAFT WP17GL332 STUBBY GAS LENS 2.4MM       |



## DURA ARC - GAS LENS

|             |                                          |
|-------------|------------------------------------------|
| TIG-45V25   | DURA 45V25 GAS LENS 1.6MM                |
| TIG-45V26   | DURA 45V26 GAS LENS 2.4MM                |
| TIG-45V27   | DURA 45V27 GAS LENS 3.2MM                |
| TIG-45V43   | DURA 45V43 GAS LENS 1.6MM                |
| TIG-45V64   | DURA 45V64 GAS LENS 2.4MM LARGE DIAMETER |
| TIG-57N74   | DURA 57N74 GAS LENS LARGE                |
| TIG-17GL332 | DURA 17GL332 STUBBY GAS LENS 2.4MM       |



## WELDCRAFT – CUP GASKET/INSULATOR

|              |                                            |
|--------------|--------------------------------------------|
| WC-WP598882  | WELDCRAFT WP598882 NOZZLE INSULATOR        |
| WC-WP17GLG20 | WELDCRAFT WP17GLG20 STUBBY GASKET          |
| WC-WP18-7    | WELDCRAFT WP18-7 INSULATOR BACK CAP        |
| WC-WP18CG    | WELDCRAFT WP18CG CUP GASKET                |
| WC-WP18CG20  | WELDCRAFT WP18CG20 STUBBY NOZZLE INSULATOR |
| WC-WP54N63   | WELDCRAFT WP54N01 INSULATOR GAS LENS       |
| WC-WP54N63   | WELDCRAFT WP54N63 INSULATOR GAS LENS       |



## DURA ARC – CUP GASKET/INSULATOR

|             |                                         |
|-------------|-----------------------------------------|
| TIG-598882  | TIG 598882 NOZZLE INSULATOR             |
| TIG-17GLG20 | DURA 17GLG20 STUBBY GASKET              |
| TIG-18-7    | DURA 18-7 INSULATOR BACK CAP            |
| TIG-18CG    | DURA 18CG CUP GASKET FRONT              |
| TIG-18CG20  | DURA 18CG20 CUP STUBBY NOZZLE INSULATOR |
| TIG-54N01   | DURA 54N01 INSULATOR                    |
| TIG-54N63   | DURA 54N63 INSULATOR                    |



## WELDCRAFT - HANDLES

|            |                                        |
|------------|----------------------------------------|
| WC-WPH100  | WELDCRAFT WPH100 HANDLE KNURLED        |
| WC-WPH100R | WELDCRAFT WPH100R HANDLE RIBBED        |
| WC-WPH200  | WELDCRAFT WPH200 HANDLE KNURLED        |
| WC-WPH200R | WELDCRAFT WPH200R HANDLE RIBBED        |
| WC-WPTHRD  | WELDCRAFT WPTHRD HANDLE RIBBED 105Z55R |



## DURA ARC - HANDLES

|              |                           |
|--------------|---------------------------|
| TIG-H100     | TIG H100 HANDLE SMOOTH    |
| TIG-H100R    | TIG H100R HANDLE RIBBED   |
| TIG-H105Z55R | TIG 105Z55R RIBBED HANDLE |
| TIG-H200     | TIG H200 HANDLE SMOOTH    |
| TIG-H200R    | TIG H200R HANDLE RIBBED   |



## WELDCRAFT - REPAIR KIT

|               |                                    |
|---------------|------------------------------------|
| WC-WPZCRK26-2 | WELDCRAFT ZCRK26-2 REPAIR KIT 2 PC |
|---------------|------------------------------------|



## DURA ARC – REPAIR KIT

|               |                     |
|---------------|---------------------|
| TIG-9VREPAIR  | DURA 9V REPAIR KIT  |
| TIG-17VREPAIR | DURA 17V REPAIR KIT |
| TIG-26VREPAIR | DURA 26V REPAIR KIT |



## DURA ARC – TIG TORCH SLEEVING

|            |                                      |
|------------|--------------------------------------|
| TIG-BOOT   | DURA RUBBER BOOT SLEEVING            |
| TIG-SLEEVE | DURA TORCH SLEEVE 25 METER ANTI-FIRE |



## DURA ARC – TIG SWITCH

|            |                   |
|------------|-------------------|
| TIG-SWITCH | TIG SWITCH SW-1-M |
|------------|-------------------|



## WELDCRAFT – VALVES

|          |                             |
|----------|-----------------------------|
| WC-WPVS1 | WELDCRAFT WPVS-1 VALVE STEM |
| WC-WPVS2 | WELDCRAFT WPVS-2 VALVE STEM |

## DURA ARC – VALVES

|         |                      |
|---------|----------------------|
| TIG-VS1 | DURA VS-1 VALVE STEM |
| TIG-VS2 | DURA VS-2 VALVE STEM |



## WELDCRAFT - POWER CABLES

|              |                                                    |
|--------------|----------------------------------------------------|
| WC-WP57Y03-2 | WELDCRAFT WP57Y03-2 POWER CABLE 2 PIECE 7.6M (WP9) |
| WC-WP46V30-2 | WELDCRAFT 46V30-2 POWER CABLE 2 PIECE 7.6M (WP26)  |
| WC-WP46V30R  | WELDCRAFT 46V30R POWER CABLE 7.6M                  |



## DURA ARC – POWER CABLES

|            |                                        |
|------------|----------------------------------------|
| TIG-WP18PC | TIG WP18 WATER COOLED POWER CABLE 7.5M |
| TIG-WP26PC | TIG WP26 AIR COOLED POWER CABLE 7.5M   |





| TUNGSTEN ELECTRODE<br>SELECTION CHART                                                                                                                                           |                                                                   |          |                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|----------|---------------------------------------------------------------------------------------|
| Type of Tungsten                                                                                                                                                                | Sizes                                                             | Current  | Materials Welded                                                                      |
| <b>2% Thoriated Tungsten (EwTh2) - Red Tip</b>                                                                                                                                  |                                                                   |          |                                                                                       |
| Offers good arc stability and is ideal for DC high current requirements.                                                                                                        | 0.04" x 7"<br>1/16" x 7"<br>3/32" x 7"<br>1/8" x 7"<br>5/32" x 7" | DC       | Carbon Steel<br>Stainless Steel<br>Nickel Alloys<br>Titanium<br>Cooper                |
| <b>1.5% Lanthanated Tungsten (EWLa1.5) - Gold Tip</b>                                                                                                                           |                                                                   |          |                                                                                       |
| Provides excellent arc starting, arc stability and re-ignition, and less prone to tip wear. Best used in DC applications                                                        | 0.04" x 7"<br>1/16" x 7"<br>3/32" x 7"<br>1/8" x 7"<br>5/32" x 7" | DC<br>AC | Carbon Steel<br>Stainless Steel<br>Nickel Alloys<br>Titanium<br>Aluminum<br>Magnesium |
| <b>2% Lanthanated Tungsten (EWLa2) - Blue Tip</b>                                                                                                                               |                                                                   |          |                                                                                       |
| Provides excellent arc starting, arc stability and re-ignition, and less prone to tip wear. Performs exceptionally well in both AC & DC                                         | 0.04" x 7"<br>1/16" x 7"<br>3/32" x 7"<br>1/8" x 7"<br>5/32" x 7" | DC<br>AC | Carbon Steel<br>Stainless Steel<br>Nickel Alloys<br>Titanium<br>Aluminum<br>Magnesium |
| <b>2% Ceriated Tungsten (EWCe2) - Grey Tip</b>                                                                                                                                  |                                                                   |          |                                                                                       |
| Performs well in DC welding and arc starting at low current settings. Can be used proficiently in AC processes.                                                                 | 0.04" x 7"<br>1/16" x 7"<br>3/32" x 7"<br>1/8" x 7"<br>5/32" x 7" | DC<br>AC | Carbon Steel<br>Stainless Steel<br>Nickel Alloys<br>Titanium<br>Aluminum<br>Magnesium |
| <b>0.3% Zirconiated Tungsten (EWZ3) - Brown Tip</b>                                                                                                                             |                                                                   |          |                                                                                       |
| Bears a fine performance in AC welding. Produces an extremely stable arc, retains a balled tip, and shows a high resistance to contamination. Great current carrying capability | 0.04" x 7"<br>1/16" x 7"<br>3/32" x 7"<br>1/8" x 7"<br>5/32" x 7" | AC       | Aluminum<br>Magnesium                                                                 |
| <b>0.8% Zirconiated Tungsten (EWZ8) - White Tip</b>                                                                                                                             |                                                                   |          |                                                                                       |
| Bears a fine performance in AC welding. Produces an extremely stable arc, retains a balled tip, and shows a high resistance to contamination. Great current carrying capability | 0.04" x 7"<br>1/16" x 7"<br>3/32" x 7"<br>1/8" x 7"<br>5/32" x 7" | AC       | Aluminum<br>Magnesium                                                                 |
| <b>Pure Tungsten (EWP) - Green Tip</b>                                                                                                                                          |                                                                   |          |                                                                                       |
| Forms a clean, balled end when heated and provides good arc stability for AC welding.                                                                                           | 0.04" x 7"<br>1/16" x 7"<br>3/32" x 7"<br>1/8" x 7"<br>5/32" x 7" | AC       | Aluminum<br>Magnesium                                                                 |
| <b>TRI-Element Tungsten (EWG) - Purple Tip</b>                                                                                                                                  |                                                                   |          |                                                                                       |
| Combines the best of all alloying elements and provides excellent arc stability in AC and DC welding                                                                            | 0.04" x 7"<br>1/16" x 7"<br>3/32" x 7"<br>1/8" x 7"<br>5/32" x 7" | DC<br>AC | Carbon Steel<br>Stainless Steel<br>Nickel Alloys<br>Titanium<br>Aluminum<br>Magnesium |

## TIG WELDING

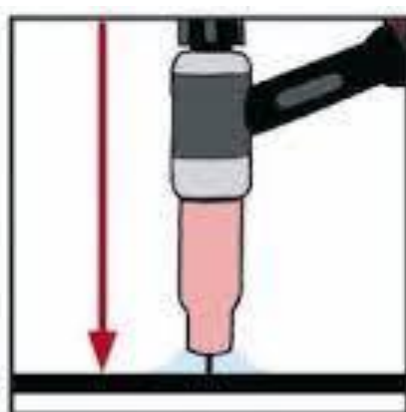
### HF START VS. DC LIFT START TIG VS. SCRATCH START

**Scratch Start TIG** is probably the oldest method of starting an arc and similar to striking a match on a box. It works well, and it allows almost any DC stick welder to be turned into a TIG welder without much work. But Scratch start has some significant draw backs as the tungsten gets hot almost instantly as the arc is struck and small bits and pieces of the tungsten break off and get stuck in the weld. This can cause structural problems later. For general work though it works pretty well. Scratch start is a good way to get started TIG welding and is used throughout the world on a daily basis.

**Lift Start** is probably the most misunderstood form of starting. A lot of times it is confused with scratch start. It may look similar but is far from it. It is a relatively clean process even though it involves contact with metal. The lift start involves bringing the tungsten down quickly and lightly into contact with the metal, and then a quick lift up to “draw” the arc. What happens with lift start is the OCV of the welder cuts back to a very low voltage output when the unit senses it has made continuity with the work piece. Once lifted the unit shifts to a higher output as the tungsten leaves the surface. This creates little contamination and preserves the point on the tungsten. It is still not 100% clean. The tungsten still can get contaminated but lift start is a much better option than scratch starting, for steel and stainless but it is not a good option for Aluminum because of the affinity aluminum and tungsten have for each other.

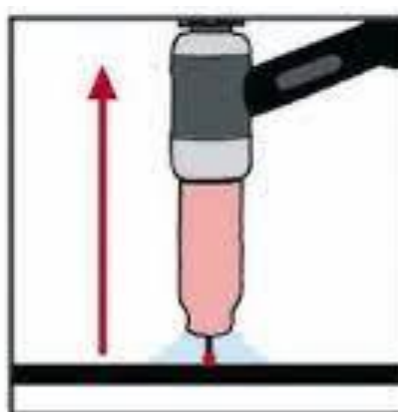
**High Frequency Start** is the most popular and best option that generates a high frequency arc that is capable of ionizing the air and bridging the gap between the tungsten point and the work piece. The High Frequency start is a touch-less method and creates almost no contamination unless the tungsten is over sharpened or the amperage is turned too high at the start. It is an excellent choice for welding aluminum, and really is the only acceptable choice. Unless you need to weld Aluminum, you don't have to really have High Frequency start, but it is nice to have to weld AC or DC if you have the option.

#### SCRATCH TIG



TOUCH ELECTRODE TO  
SURFACE

#### LIFT TIG



LIFT UP TORCH TO  
IGNITE ARC

## 039 MIG TORCHES AND CONSUMABLES



## KLASIK SERIES

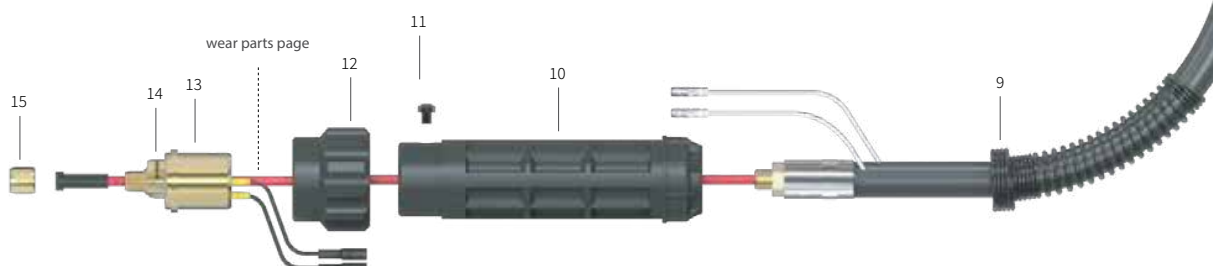
### N25

Rating : 230A CO<sub>2</sub> 200A mixed gas, 60% duty. wires: 0.8-1.2mm.



| Model                               |        |             |
|-------------------------------------|--------|-------------|
| Description                         | Length | Part Number |
| N25<br>Welding Gun c/w Euro Fitting | 3M     | N25-3       |
|                                     | 4M     | N25-4       |
|                                     | 5M     | N25-5       |

| Components |             |                            |     |             |             |
|------------|-------------|----------------------------|-----|-------------|-------------|
| No.        | Part Number | Description                | No. | Part Number | Description |
| 1          | EF7211      | Nozzle Spring              | 14  | Q504010     | O-ring 4x1  |
| 2          | EF7245      | Swan Neck 45°              | 15  | EU1011      | Nut M10x1   |
| 3          | EF1212      | Plastic Body               |     |             |             |
| 4          | EG0001      | Hanger Hook                |     |             |             |
| 5          | EH0101      | Handle                     |     |             |             |
| 6          | EJ0003      | Trigger                    |     |             |             |
| 7          | ES0101      | Front Cable Support Spring |     |             |             |
| 8          | EL2030      | Cable Assembly 3m          |     |             |             |
| 9          | ES2201      | Back Cable Support Spring  |     |             |             |
| 10         | EH2201      | Back Handle                |     |             |             |
| 11         | Q210406     | Screw M4x6                 |     |             |             |
| 12         | EP3001      | Gun Plug Nut               |     |             |             |
| 13         | EU1001      | Euro Gun Plug              |     |             |             |



\* Denotes Standard Bulid

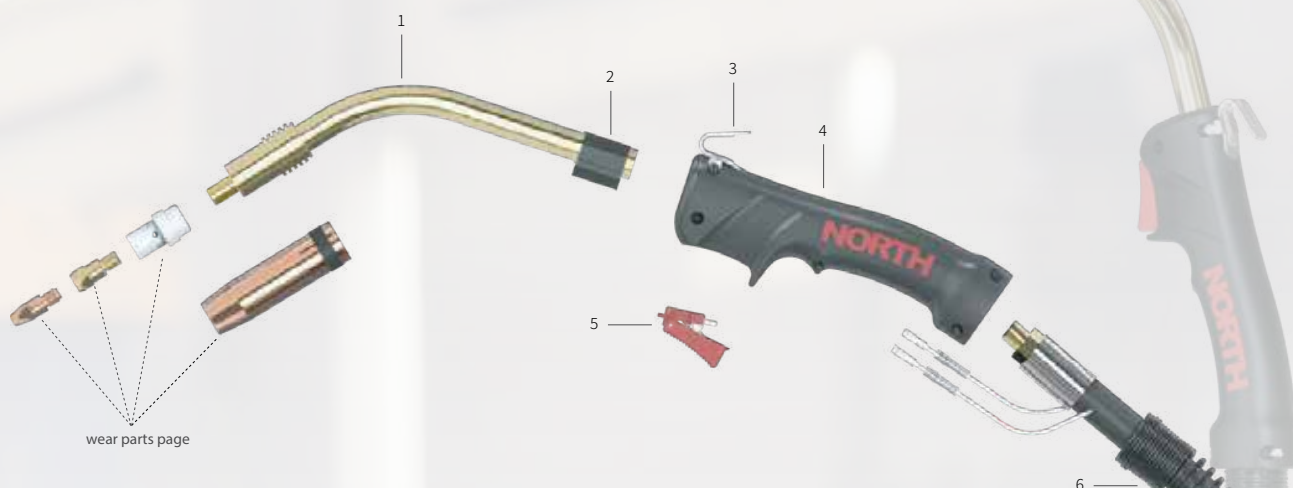
CE



## KLASIK SERIES

### N36

Rating : 340A CO<sub>2</sub> 300A mixed gas, 60% duty. wires: 0.8-1.6mm.



| Model                               |        |             |
|-------------------------------------|--------|-------------|
| Description                         | Length | Part Number |
| N36<br>Welding Gun c/w Euro Fitting | 3M     | N36-3       |
|                                     | 4M     | N36-4       |
|                                     | 5M     | N36-5       |

Components 部件

| No. | Part Number | Description                | No. | Part Number | Description |
|-----|-------------|----------------------------|-----|-------------|-------------|
| 1   | EF3250      | Swan Neck 50°              | 14  | EU1011      | Nut M10x1   |
| 2   | EF1212      | Plastic Body               |     |             |             |
| 3   | EG0001      | Hanger Hook                |     |             |             |
| 4   | EH0101      | Handle                     |     |             |             |
| 5   | EJ0003      | Trigger                    |     |             |             |
| 6   | ES0101      | Front Cable Support Spring |     |             |             |
| 7   | EL3030      | Cable Assembly 3m          |     |             |             |
| 8   | HDS0202     | Back Cable Support Spring  |     |             |             |
| 9   | HDH0202     | Back Handle                |     |             |             |
| 10  | Q210406     | Screw M4x6                 |     |             |             |
| 11  | EP3001      | Gun Plug Nut               |     |             |             |
| 12  | EU1001      | Euro Gun Plug              |     |             |             |
| 13  | Q504010     | O-ring 4x1                 |     |             |             |



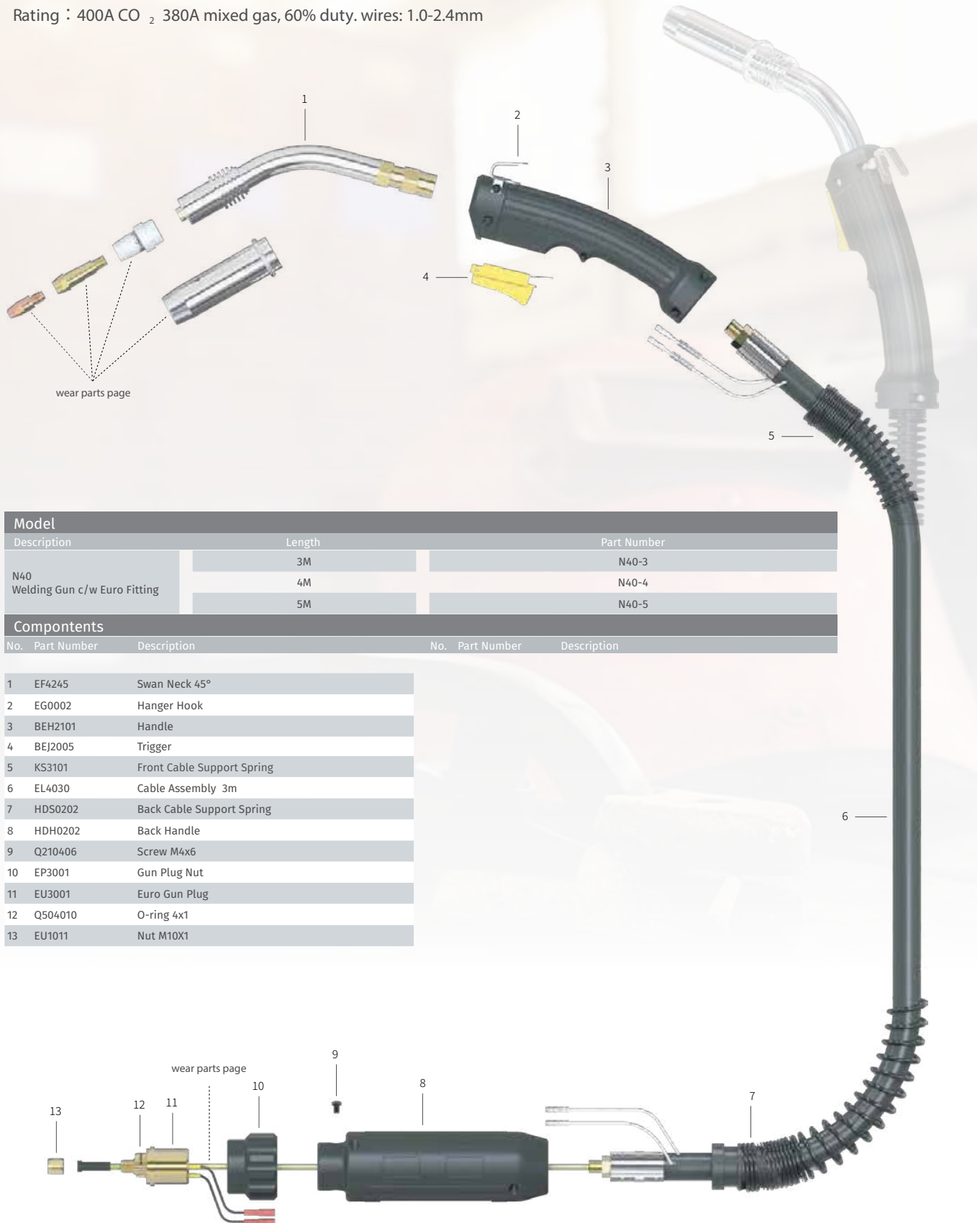
\* Denotes Standard Build





## N 40

Rating : 400A CO<sub>2</sub> 380A mixed gas, 60% duty. wires: 1.0-2.4mm



| Model                               |        |             |
|-------------------------------------|--------|-------------|
| Description                         | Length | Part Number |
| N40<br>Welding Gun c/w Euro Fitting | 3M     | N40-3       |
|                                     | 4M     | N40-4       |
|                                     | 5M     | N40-5       |

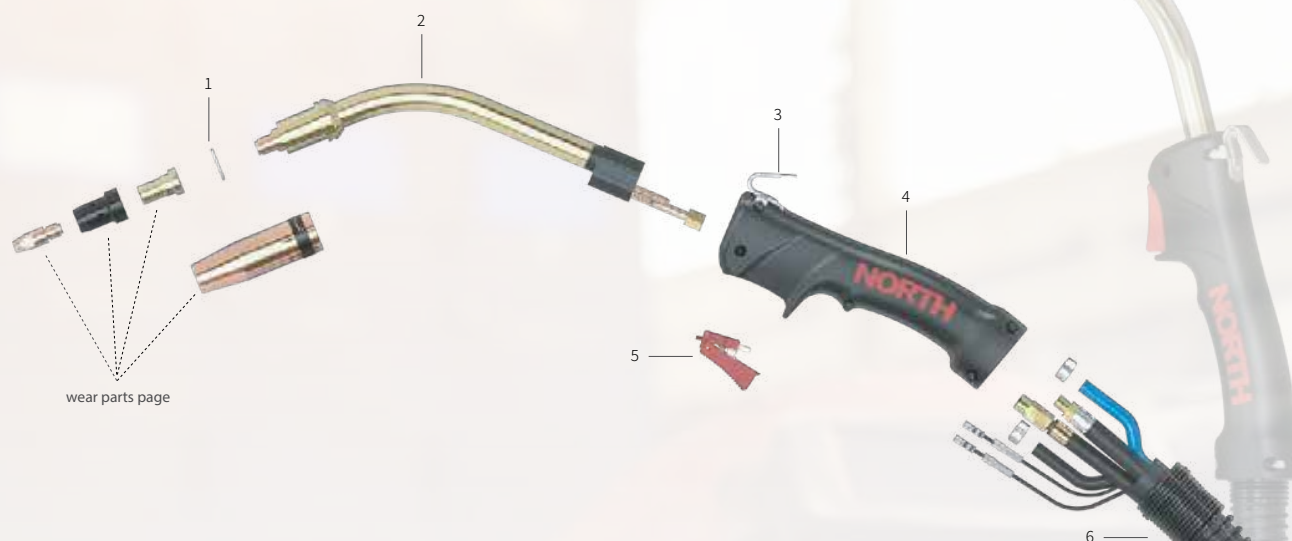
| Components |             |                            |
|------------|-------------|----------------------------|
| No.        | Part Number | Description                |
| 1          | EF4245      | Swan Neck 45°              |
| 2          | EG0002      | Hanger Hook                |
| 3          | BEH2101     | Handle                     |
| 4          | BEJ2005     | Trigger                    |
| 5          | KS3101      | Front Cable Support Spring |
| 6          | EL4030      | Cable Assembly 3m          |
| 7          | HDS0202     | Back Cable Support Spring  |
| 8          | HDH0202     | Back Handle                |
| 9          | Q210406     | Screw M4x6                 |
| 10         | EP3001      | Gun Plug Nut               |
| 11         | EU3001      | Euro Gun Plug              |
| 12         | Q504010     | O-ring 4x1                 |
| 13         | EU1011      | Nut M10X1                  |

\* Denotes Standard Build

CE

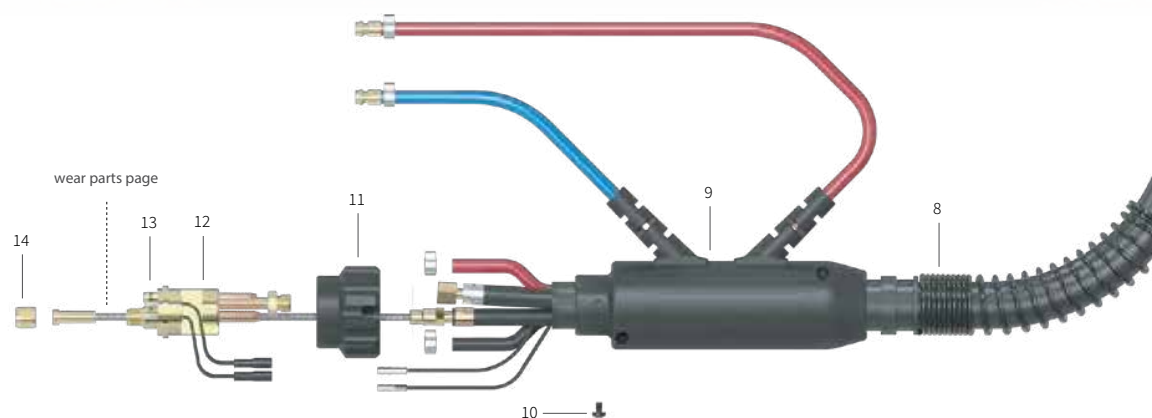
## NW 501

Rating : 500A CO<sub>2</sub> 450A mixed gas, 100% duty. wires: 1.0-1.6mm



| Model                                  |        |             |
|----------------------------------------|--------|-------------|
| Description                            | Length | Part Number |
| NW-501<br>Welding Gun c/w Euro Fitting | 3M     | NW-501E-3   |
|                                        | 4M     | NW-501E-4   |
|                                        | 5M     | NW-501E-5   |

| Components |             |                              |                             |
|------------|-------------|------------------------------|-----------------------------|
| No.        | Part Number | Description                  | No. Part Number Description |
| 1          | SF5206      | Insulating Washer            | 14 EU1011 Nut M10x1         |
| 2          | SF5245      | Swan Neck 45°                |                             |
| 3          | EG0001      | Hanger Hook                  |                             |
| 4          | EH0101      | Handle                       |                             |
| 5          | EJ0003      | Trigger                      |                             |
| 6          | ES0102      | Front Cable Support Spring   |                             |
| 7          | SL5030      | Cable Assembly 3m            |                             |
| 8          | HDS0202     | Back Cable Support Spring    |                             |
| 9          | HDH0202     | Back Handle                  |                             |
| 10         | Q210406     | Screw M4x6                   |                             |
| 11         | EP3001      | Gun Plug Nut                 |                             |
| 12         | TRU5001     | Euro Gun Plug , Water Cooled |                             |
| 13         | Q504010     | O-ring 4x1                   |                             |

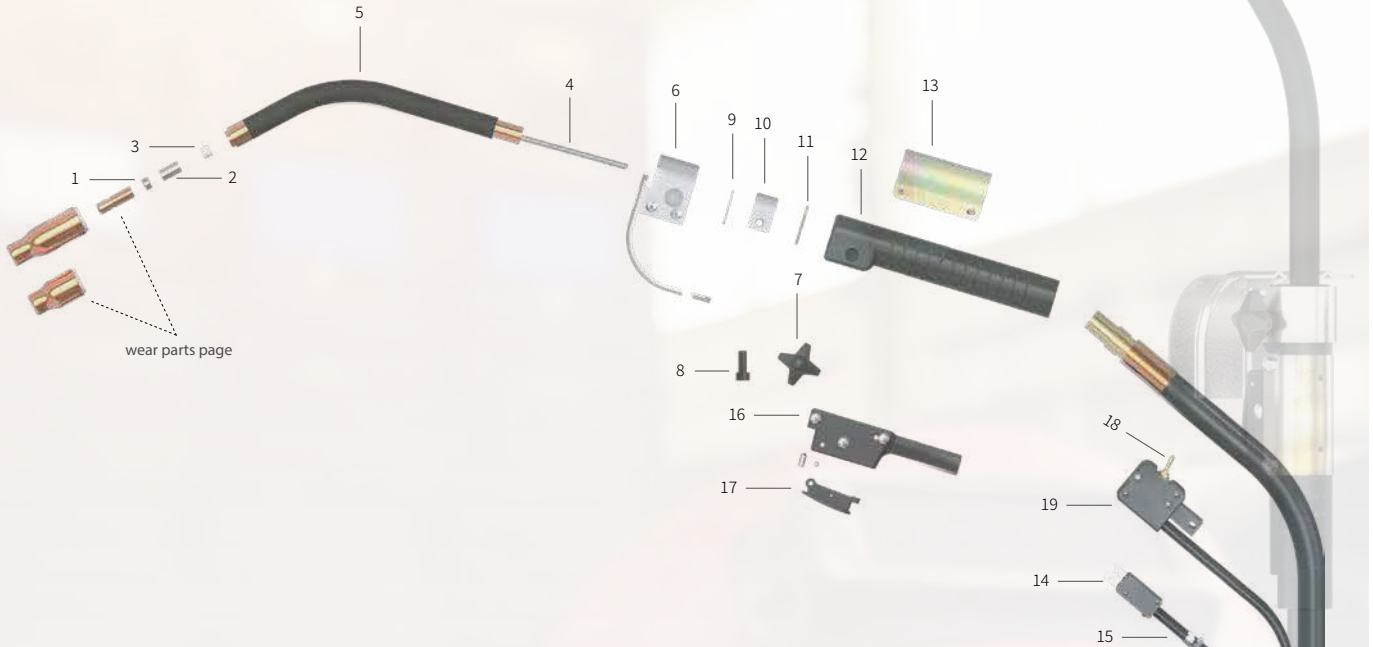


\* Denotes Standard Build

CE

## NK 115

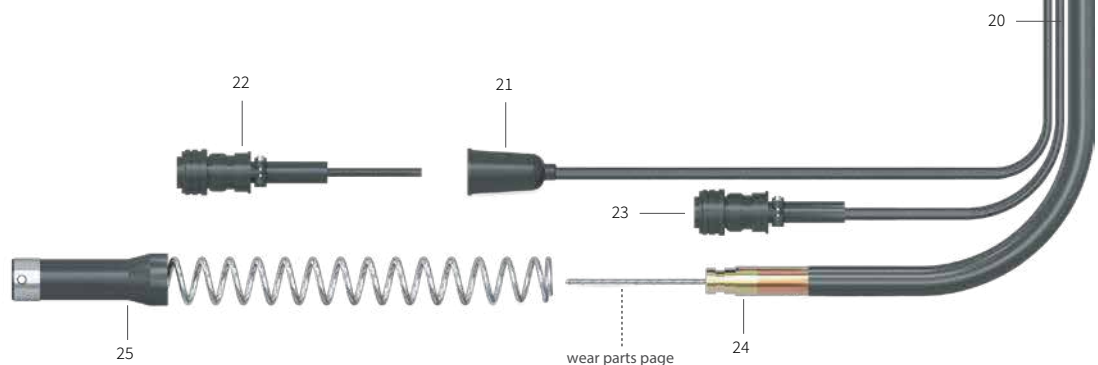
Rating : 450A, 60% duty. wires: 2.0-3.0mm (5/64"-0.120").



| Model                                      |        |             |
|--------------------------------------------|--------|-------------|
| Description                                | Length | Part Number |
| NK 115, Welding Gun, Liner replacelable    | 3M     | NK-450R-3   |
| NK 115, Welding Gun c/w Attenuating Switch | 3M     | NK-450RS-3  |

### Components 部件

| No. | Part Number | Description           | No. | Part Number | Description                |
|-----|-------------|-----------------------|-----|-------------|----------------------------|
| 1   | ZF4211      | Locking Screw         | 13  | ZJ3014      | Switch Housing             |
| 2   | ZF4212      | Steel Insert          | 14  | Q712        | Switch ,RMRON,Waterproof   |
| 3   | ZF4213      | Creamic Insert        | 15  | ZJ3015      | Switch Assembly W/Plug     |
| 4   | ZF4214      | Liner                 | 16  | ZJ3001      | Triggrrer Housing Assembly |
| 5   | ZF4225      | Swan Neck 25°         | 17  | ZJ3011      | Triggrrer                  |
|     | ZF4245      | Swan Neck 45°         | 18  | Q723        | Botton Switch              |
|     | ZF4290      | Swan Neck 90°         | 19  | ZJ3013      | Attenuating Switch         |
| 6   | ZK4001      | Handle Protector      | 20  | ZL4130      | Cable Assembly 3m          |
| 7   | ZT3001*     | Locking Screw         | 21  | LV0002*     | 2 Pin Plug (LN-7,8,9,25)   |
| 8   | ZT3002      | Socket Head Cap Screw | 22  | ZV0005      | 5 Pin Plug (LN-7,8,9,25)   |
| 9   | Q1316       | Ring                  | 23  | ZV3004      | 4 Pin Plug                 |
| 10  | ZM3001      | Clamp                 | 24  | ZU3001      | Lincoln Fitting            |
| 11  | ZH4010      | Spatter Shield        | 25  | ZH3201      | Insulator Sleeve W/Spring  |
| 12  | ZH3101      | Handle                |     |             |                            |





|                  |                                                           |
|------------------|-----------------------------------------------------------|
| MIG-NORMB25X4    | NORTH MIG TORCH N25 X 4M WITH EURO ADAPTOR                |
| MIG-NORMB36X4    | NORTH MIG TORCH N36 X 4M WITH EURO ADAPTOR                |
| MIG-NORMB40X4    | NORTH MIG TORCH N40 X 4M WITH EURO ADAPTOR                |
| MIG-NORMB40X4EXT | NORTH MIG TORCH N40 X 4M EXTENDED NECK WITH EURO ADAPTOR  |
| MIG-NORMB501X4   | NORTH MIG TORCH NW501 X 4M WATER COOLED WITH EURO ADAPTOR |



## MIG GUN CONTACT TIPS

|                |                          |
|----------------|--------------------------|
| MIG-NORCT1068  | MIG CONTACT TIP M6 1.0MM |
| MIG-NORCT10810 | MIG CONTACT TIP M8 1.0MM |
| MIG-NORCT1268  | MIG CONTACT TIP M6 1.2MM |
| MIG-NORCT12810 | MIG CONTACT TIP M8 1.2MM |
| MIG-NORCT16810 | MIG CONTACT TIP M8 1.6MM |



## MIG GUN GAS DIFFUSERS

|             |                                  |
|-------------|----------------------------------|
| MIG-MB25GD  | MIG GAS DIFFUSER FOR MB25        |
| MIG-MB36GD  | MIG GAS DIFFUSER FOR MB36        |
| MIG-MB40GD  | MIG GAS DIFFUSER FOR MB40        |
| MIG-MB501GD | MIG GAS DIFFUSER FOR MB501 TORCH |



## MIG GUN LINERS

|             |                                                    |
|-------------|----------------------------------------------------|
| MIG-NORLS3  | MIG LINER STEEL 3 METER SR5216-3                   |
| MIG-NORLS4  | MIG LINER STEEL 1.2MM - 1.6MM X 4MT                |
| MIG-NORLS5  | MIG LINER STEEL 1.2MM - 1.6MM X 5MT                |
| MIG-NORLSR4 | MIG LINER STEEL INSULATED RED 1.0MM - 1.2MM X 4 MT |
| MIG-NORLSR5 | MIG LINER STEEL INSULATED RED 1.0MM - 1.2MM X 5 MT |
| MIG-NORLSY4 | MIG LINER STEEL INSULATED YELLOW 1.2MM - 1.6MM X 4 |
| MIG-NORLSY5 | MIG LINER STEEL INSULATED YELLOW 1.2MM - 1.6MM X 5 |
| MIG-NORLTB3 | MIG LINER TEFLON BLUE 1.0MM - 1.2MM X 3MT          |



## MIG GUN NOZZELS/SHROUDS

|               |                                                    |
|---------------|----------------------------------------------------|
| MIG-NORNZ36   | MIG TORCH NOZZLE / CONICAL SHROUD FOR MB36         |
| MIG-NORNZ40   | MIG TORCH NOZZLE / CONICAL SHROUD FOR MB40 EA4214  |
| MIG-NORNZC25  | MIG TORCH NOZZLE / CONICAL SHROUD FOR MB25 COPPER  |
| MIG-NORNZC36  | MIG TORCH NOZZLE / CONICAL SHROUD FOR MB36 COPPER  |
| MIG-NORNZC40  | MIG TORCH NOZZLE / CONICAL SHROUD FOR MB40 EA4218  |
| MIG-NORNZC501 | MIG TORCH NOZZLE / CONICAL SHROUD FOR MB501 COPPER |



## MIG GUN NECKS

|               |                                     |
|---------------|-------------------------------------|
| MIG-NORSN25   | MIG TORCH SWAN NECK FOR MB25        |
| MIG-NORSN36   | MIG TORCH SWAN NECK FOR MB36 45 DEG |
| MIG-NORSN3650 | MIG TORCH SWAN NECK 50 DEG EF3250   |
| MIG-NORSN40   | MIG TORCH SWAN NECK FOR MB40 45 DEG |
| MIG-NORSN501  | MIG TORCH SWAN NECK FOR MB501 TORCH |



## MIG GUN TIP ADAPTORS

|                |                                      |
|----------------|--------------------------------------|
| MIG-NORTA25X8  | MIG TORCH TIP ADAPTOR FOR MB25       |
| MIG-NORTA28X6  | MIG TORCH TIP ADAPTOR 28MM X M6      |
| MIG-NORTA28X8  | MIG TORCH TIP ADAPTOR 28MM X 8       |
| MIG-NORTA36X6  | MIG TORCH TIP ADAPTOR FOR MB36 TORCH |
| MIG-NORTA40X8  | MIG TORCH TIP ADAPTOR MB40 M8        |
| MIG-NORTA501X8 | MIG TORCH TIP ADAPTOR FOR 501 X 8    |



## MIG GUN POWER CABLE ASSEMBLY

|          |                                                |
|----------|------------------------------------------------|
| MIG-PC4M | MIG TORCH POWER CABLE ASSEMBLY 4M              |
| MIG-PC4W | MIG TORCH POWER CABLE ASSEMBLY 4M WATER COOLED |
| MIG-PC5M | MIG TORCH POWER CABLE ASSEMBLY 5M              |
| MIG-PC5W | MIG TORCH POWER CABLE ASSEMBLY 5M WATER COOLED |





## WELDING GAS WELDING & CUTTING ABBREVIATIONS, PROCESSES & FAQ'S

**A - Amperage** – A measurement of the flow of electricity which defines how much heat you get.

**AC - Alternating Current** – An electric current that reverses back and forth, following the pattern of a sine wave. This is erratic compared to direct current.

**CC – Constant Current** - A welding machine that provides a constant current to a load, even despite changes and variance in load resistance.

**CV – Constant Voltage** - Constant voltage refers to the ability to fluctuate output current on a welding machine to maintain a set voltage.

**DC - Direct Current** – Direct current is where the welding machine current flows in one continuous direction, from negative to positive.

**HF – High Frequency** - also known as **Radio Frequency (RF)** or **Dielectric welding**, is a welding process of fusing materials together by applying radio frequency energy to the area to be joined. The resulting weld can be as strong as the original materials.

**IGBT** – stands for **Insulate Gate Bipolar Transistor** that is a semiconductor device. It is very efficient, and it is known to switching fast. The high frequency inverter-based welding machines are more efficient and have more control than the non-inverter based MOSFET & Rectifier welding machines.

**MOSFET** - The **metal–oxide–semiconductor field-effect transistor** is a type of insulated-gate field-effect transistor that is fabricated by the controlled oxidation of a semi-conductor, typically silicon. The voltage of the covered gate determines the electrical conductivity of the device.

**OCV – Open Circuit Voltage** - a welding machine that is turned on but not being used for welding at certain times will have an open-circuit voltage on the output terminals or cable ends when measured.

**PFC** - The correction of the power factor of the load taken by a resistance type welding machine using series capacitor is the only feasible method and it provides instantaneous automatic correction.

**VRD – Voltage Reducing Device** - reduces the OCV of the welding machine to a specific voltage.

## WELDING PROCESSES

**(SMAW) Stick Welding** – Arc welding that uses a flux coated electrode with a metal core.

**(GTAW) Tig welding - Gas Tungsten Arc Welding** – also known as **Tungsten Inert Gas Welding**, is an welding process that uses a non-consumable tungsten electrode to produce the weld. The filler metal is added with a bare metal filler rod. The weld pool area is protected from the atmosphere and possible contamination by a shielding inert gas, such as argon.

**(GMAW) Mig welding - Gas Metal Arc Welding** – MIG welding is an arc welding process in which a continuous solid wire electrode is fed through a welding gun and into the weld pool, joining the two base materials together. A shielding gas is also sent through the welding gun and protects the weld pool from contamination. In fact, MIG stands for metal inert gas.

**(FCAW SS) Flux Cored Gasless Welding**– Similar to MIG welding, this uses a wire electrode as the filler metal but has a flux core which burns to produce the shielding gas, so there is no need for a gas cylinder.

**(FCAW GS) Flux Cored Gas Assisted Welding**– Similar to MIG welding, this uses a wire electrode as the filler metal but has a flux core. Gas assisted flux cored are suitable for thicker metals or out-of-position applications and have a molten slag that solidifies more quickly than the weld pool. As a result, it creates a “shelf” to hold the molten pool when welding overhead or vertically up. Gas shielded flux cored welding aren’t suitable for outdoor conditions, any wind or movement in the air can affect the shielding gas performance and weld quality and will result in porosity to become visible in the weld bead.

**(SAW) Sub Arc – Submerged Arc Welding** - is a process that involves the formation of an arc between a continuously fed electrode and the workpiece. A blanket of powdered flux generates a protective gas shield and a slag which protects the weld zone.

**(MCAW) Metal-Cored Arc Welding** - uses the heat generated by a DC electric arc to fuse metal in the joint area. ... The entire arc area is covered by a shielding gas, which protects the molten weld pool from the atmosphere. MCAW is a variant of the MIG/MAG welding process.

## FREQUENTLY ASKED QUESTIONS

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**Alloy** – A mixture of elements of at least one metal, for example mild steel and chromium to make stainless steel.

**API Certified** is a classification that identifies the licensed organizations belonging to the petroleum industry, which have passed the quality test and complied to the specifications set by the **American Petroleum Institute**.

**Arc** – The electric arc is created between the electrode and the base metal to melt the metal.

**Arc Blow** – When an arc moves from its desired path. This can happen in DC welding and is caused by magnetism.

**Arc Air Gouging** – Where metal is cut with an arc from a carbon electrode with air blowing away the metal.

**Backup Strip** – A strip of metal used to keep molten metal in the weld root and help prevent the base metal from warping.

**Base Metal** – The primary piece of metal that you are welding.

**Bead** – The filler metal that is deposited on the base metal during the welding process.

**Cap** – The final bead on a groove weld.

**Defect** – Any defect with the weld, e.g. porosity or cracks.

**Direct Current Electrode Negative** – Electricity flows out of the electrode into the work piece. This gives less penetration.

**Direct Current Electrode Positive** – Electricity flows into the electrode, leading to more heat and penetration.

**Duty Cycle** – The time that a welder can operate continuously on a given amperage within a 10 minute period before overheating e.g. 20% @ 90A would mean 2 minutes of welding at 90A.

**Electrode** – For example, in MIG welding the electrode is wire on a roll, while in Stick welding it's a coated welding rod.

**Ferrous Metal** – Referring to Iron or an Iron alloy.

**Filler Metal** – A bare metal rod that is feed into the weld puddle during a weld.

**Fillet Weld** – A common type of weld, mostly used in T joints, that joins two surfaces together at approximately 90 degrees.

**Flashback arrestor** - or flash arrestor is a gas safety device most commonly used in oxy-fuel welding and cutting to stop the flame or reverse flow of gas back-up.

**Flux** – Releases gas when burned to protect the weld pool from contamination.

**Flowmeter** - A flowmeter uses a regulator that is generally set to a specific delivery pressure, then it has a valve that allows adjustment of the amount of flow that will be read on the ball and tube assembly and used with either Mig or Tig welding.

**Fusion** – The complete merging with the base metal when welding.

**Galvanized** – Galvanised steel is where steel is coated with Zinc so that it isn't corrosive. When welding galvanized steel you need to burn through this layer of Zinc first so make sure your work environment is well-ventilated.

**Inert Gas** – A gas that does not have a chemical reaction with the metal. **Inverter** – A lighter and more efficient power source used in welders. An inverter works by increasing the frequency of the primary power supply from 50Hz up to 20,000 – 100,000Hz. This is done through the use of electronic switches which turn the power on and off extremely quickly (up to 1 millionth of a second). By controlling the power supply in this way, before it enters the transformer, the transformer size can be very significantly reduced.

**Melting Point** – The point when the metal transfers from solidus to liquid.

**Non Ferrous** – Metal that does not contain iron.

**Penetration** – The depth of the weld into the base metal.

**Porosity** – Pockets of gas in the weld, often as a result of shielding gas not properly protecting the weld.

## FREQUENTLY ASKED QUESTIONS CONT...

**Pre Heating** – Heating the metal before starting to weld on it. This can improve the weld if the room temperature is very cold.

**Puddle** – AKA the pool. This is where the filler metal melts and combines with the base metal. **Purging** - is the act of removing, from the vicinity of the joint, oxygen, water-vapour and any other gases or vapours that might be harmful to a welding joint as it is being welded and immediately after welding through the use of an inert gas such as Argon which is heavier than air.

**Radiation** – Radiation is emitted from the arc that is highly dangerous. Make sure that your skin and eyes are covered!

**Regulator** - A gas pressure regulator is a control device that maintains a defined pressure of a system by cutting off the flow of a gas or liquid when it reaches a set pressure.

**Root Opening** – The gap between two bevelled pieces of metal.

**Seam Weld** – The seam is the line where two pieces of metal join. You should generally try to deposit the filler metal equally on either side of the seam.

**Semi-Automatic Welding** – Welding that is done by a machine but requires a person to operate it.

**Shielding Gas** – Gas used in MIG welding to surround the wire electrode in order to protect the weld from contamination.

**Slag** – Slag is solidified flux which is left on the weld once it cool. This should be removed from the weld by either a wire brush, hammer or angle grinder.

**Slag Inclusion** – Slag inclusion is a weld defect whereby the slag is not properly cleaned from the weld before making another pass, reducing the strength of the weld.

**Spatter** – During arc welding the arc sometimes blows filler metal onto the base metal away from the weld pool.

**Steel** – Alloy of iron with carbon added.

**Stick Out** – The distance that the wire electrode protrudes from the MIG gun.

**Tack Weld** – A small, weak weld that is used to temporarily hold metal in place until it is welded permanently.

**Temperature Stick** - Tempilstik is a trade name for temperature indicating crayons. The crayons can indicate temperature in several ways: If a certain temperature or temperature within a certain range is required, several marks from crayons indicating a range of temperatures can be applied to the material on the reverse side to the heat source, the crayon mark will melt when the minimum temperature is reached.

**Tensile Strength** – The strength of the metal, measured by its ability to resist tension in tensile strength per square inch. e.g. a 6010-welding rod has 60,000 lbs of tensile strength.

**Tungsten** – Tungsten is used as an electrode in TIG welding. It has a very high melting point, so it doesn't burn up as you use it. **Weld Blanket** – A welding blanket is a piece of safety equipment designed to protect equipment and the welder while welding. A welding blanket typically consists of a layer of flexible protective material containing unexpanded vermiculite and inorganic heat resistant fibrous material.

**UL Listed** - The UL Listed seal means that the product has been tested by UL to nationally recognized safety and sustainability standards.

**Weld Blanket** – A welding blanket is a piece of safety equipment designed to protect equipment and the welder while welding. A welding blanket typically consists of a layer of flexible protective material containing unexpanded vermiculite and inorganic heat resistant fibrous material.

**Welding Curtains/Screens** - To be used for shielding of workplaces from their surroundings where arc welding processes are used. They are designed to protect people who are not involved in the welding process from hazardous radiant emissions from welding arcs and spatter.

**Welder Certification** – Document showing that the welder can weld to industry standards.

**Weld Defect** – A weakness in the weld.

**Weld Gauge** – Used to measure the distance from the root of the weld to the face of the weld.

**Weld Gun** – Used in MIG and FCAW to feed wire into the weld pool.

**Weld Symbol** – The symbol which shows you which type of weld you need to perform.

**Welding Tip** – The tip of a weld gun

## WELDING GASES

### Pure Welding Gases

Pure gases used for welding include argon, helium, and carbon dioxide. These gases can have both positive and negative effects on the welding arc.

**Argon** - is commonly used for GTAW (Tig) on all materials and GMAW (Mig) on nonferrous metals. Argon is chemically inert, making it suitable for welding on reactive or refractory metals.

**Carbon Dioxide (CO<sub>2</sub>)** - is the most common of the reactive gases used in GMAW (Mig) welding and the only one that can be used in its pure form without the addition of an inert gas. ... It does cause oxidation of the weld metal, however, so it is not recommended for use with aluminum, magnesium, copper or other exotic metals

**Helium** - is a monatomic, inert gas, most commonly used for GTAW (Tig) on nonferrous materials. In contrast to argon, helium has a high conductivity and ionization potential, which gives the opposite effects. Pure Helium and is rarely used for GMAW (Mig), with the exception of pure copper.

### Other Gases Used in Mixtures

**Oxygen** - Oxygen is an active shielding gas component usually used in GMAW mixes at concentrations of less than 10 percent. Hydrogen - is primarily used with austenitic stainless steels to promote oxide removal and increase heat input.

**Hydrogen** - is not suitable for ferritic or martensitic steels because of cracking issues. Hydrogen also may be used in higher percentages (30 percent to 40 percent) in plasma cutting operations on stainless steel to increase capacity and reduce slag.

**Nitrogen** - is the least commonly used addition for shielding purposes. It is mainly used for the promotion of austenite and to improve corrosion resistance in duplex and super-duplex steels.

| GAS OR MIX                         | GMAW   |           |           | FCAW   |           | GTAW   |            |           |
|------------------------------------|--------|-----------|-----------|--------|-----------|--------|------------|-----------|
|                                    | CARBON | STAINLESS | ALUMINIUM | CARBON | STAINLESS | CARBON | STAIN-LESS | ALUMINIUM |
| Ar                                 |        |           | X         |        |           | X      | X          | X         |
| He                                 |        |           |           |        |           |        |            | X         |
| CO <sub>2</sub>                    | X      |           |           | X      | X         |        |            |           |
| Ar/CO <sub>2</sub>                 | X      | X         |           | X      | X         |        |            |           |
| Ar/O <sub>2</sub>                  |        | X         |           |        |           |        |            |           |
| Ar/He                              |        | X         | X         |        |           |        | X          | X         |
| Ar/CO <sub>2</sub> /O <sub>2</sub> | X      |           |           |        |           |        |            |           |
| Ar/H <sub>2</sub>                  |        |           |           |        |           |        | X          |           |
| Ar/He/CO <sub>2</sub>              | X      | X         |           |        |           |        |            |           |
| He/Ar/CO <sub>2</sub>              |        | X         |           |        |           |        |            |           |

## 051 WELDING CONSUMABLES







# WELDING FILLER METAL HANDBOOK

GLOBAL 2016



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## MILD STEEL WIRES

| DESCRIPTION              | ISO/AWS/JIS/W.NR/CSA/KS/CAN CLASSIFICATION                                                                                                                                                                                                                | MANUFACTURED CLASS | TESTING SCHEDULE |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------|
| OK AUTROD 12.51          | EN ISO 14341-A: G 38 3 C1 3Si1<br>EN ISO 14341-A: G 3Si1<br>EN ISO 14341-A: G 42 4 M20 3Si1<br>EN ISO 14341-A: G 42 4 M21 3Si1<br>SFA/AWS A5.18: ER70S-6<br>CAN/CSA-ISO 14341: B-G 49A 3 C1 S6<br>JIS Z 3312: YGW 12(C1)                                  | S2                 | H                |
| OK ARISTOROD 12.50       | EN ISO 14341-A: G 38 3 C1 3Si1<br>EN ISO 14341-A: G 3Si1<br>EN ISO 14341-A: G 42 4 M20 3Si1<br>EN ISO 14341-A: G 42 4 M21 3Si1<br>SFA/AWS A5.18: ER70S-6<br>CAN/CSA-ISO 14341: B-G 49A 3 C1 S6<br>JIS Z 3312: YGW 12 (C1)                                 | S3                 | H                |
| WELD 70S-6               | EN ISO 14341-A: G 38 2 C1 Z 3Si1<br>SFA/AWS A5.18: ER70S-6<br>JIS: YGW 12                                                                                                                                                                                 | S1                 | H                |
| DUAL SHIELD T-115        | AWS A5.29:E111T5-K4M-H4 (.045", .052", 1/16"),<br>AWS A5.29:E110T5-K4C (3/32"),<br>AWS A5.36:E111T5-M21A6-K4-H4 (.045", .052", 1/16"),<br>AWS A5.36:E110T5-C1A6-K4-H4 (3/32"),<br>ASME SFA 5.29, ASME SFA 5.36                                            | T1                 | H                |
| DUAL SHIELD 70ULTRA PLUS | A5.36 E71T1-M21A4-CS1-H8                                                                                                                                                                                                                                  | T3                 | I, J & K         |
| DUAL SHIELD 7100         | EN ISO 17632-A: T 42 0 P C1 1 H10<br>SFA/AWS A5.20: E71T-1C<br>JIS Z 3313: YFW-C50DR<br>KS D 7104: YFW-C50DR                                                                                                                                              | T3                 | H                |
| DUAL SHIELD 7100 ULTRA   | EN ISO 17632-A: T46 2 P C1 1 H10<br>EN ISO 17632-A: T46 2 P M21 1 H10<br>SFA/AWS A5.20: E71T-1C<br>SFA/AWS A5.20: E71T-9C<br>SFA/AWS A5.20: E71T-9M<br>SFA/AWS A5.36: E71T1-C1A2-CS1<br>SFA/AWS A5.36: E71T1-M21A2-CS1<br>JIS Z 3313: YFW-C502R/YFL-C503R | T3                 | I, J & K         |
| DUAL SHIELD 7000-A1      | AWS A5.36 E81T1-C1PZ-A1<br>AWS A5.29 E81T1-A1C<br>KS D 7121 YFM-C<br>JIS Z 3318 YFM-C                                                                                                                                                                     | T3                 | I, J & K         |
| OK AUTROD 12.22          | EN ISO 14171-A: S2Si<br>SFA/AWS A5.17: EM12K                                                                                                                                                                                                              | S3                 | H                |
| PURUS 42 CF              | EN ISO 14341-A: G 38 3 C1 3Si1<br>EN ISO 14341-A: G 3Si1<br>EN ISO 14341-A: G 42 4 M20 3Si1<br>EN ISO 14341-A: G 42 4 M21 3Si1<br>SFA/AWS A5.18: ER70S-6<br>CAN/CSA-ISO 14341: B-G 49A 3 C1 S6<br>JIS Z 3312: YGW 12 (C1)                                 | S3                 | H                |

## LOW ALLOY WIRES

| DESCRIPTION        | ISO/AWS/JIS/W.NR/CSA/KS/CAN CLASSIFICATION                                                                                                                                       | MANUFACTURED CLASS | TESTING SCHEDULE |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------|
| OK ARISTOROD 13.09 | EN ISO 14341-A: G 2MO<br>EN ISO 14341-A: G 38 0 C1 2MO<br>EN ISO 14341-A: G 46 2 M21 2MO<br>EN ISO 21952-A: G MOSI<br>EN ISO 21952-B: G 1M3<br>SFA/AWS A5.28: ER70S-A1 (ER80S-G) | S3                 | H                |
| OK ARISTOROD 55    | EN ISO 16834-A: G 55 4 M MN3NICRMO<br>EN ISO 16834-A: G MN3NICRMO<br>SFA/AWS A5.28: ER100S-G                                                                                     | S2                 | I, J & K         |
| OK ARISTOROD 13.16 | EN ISO 21952-A: Z CRMO1Si<br>EN ISO 21952-B: G 55A 1CM<br>SFA/AWS A5.28: ER80S-B2                                                                                                | S2                 | H                |
| OK ARISTOROD 69    | EN ISO 16834-A: G 69 4 M MN3Ni1CRMO<br>EN ISO 16834-A: G MN3Ni1CRMO<br>SFA/AWS A5.28: ER110S-G                                                                                   | S2                 | H                |

## STAINLESS STEEL WIRES

| DESCRIPTION       | ISO/AWS/JIS/W.NR/CSA/KS/CAN CLASSIFICATION                                           | MANUFACTURED CLASS | TESTING SCHEDULE |
|-------------------|--------------------------------------------------------------------------------------|--------------------|------------------|
| OK AUTROD 308LSI  | EN ISO 14343-A: G 19 9 L SI<br>SFA/AWS A5.9: ER308LSI<br>WERKSTOFFNUMMER: ~1.4316    | S2                 | I & J            |
| OK AUTROD 316LSI  | EN ISO 14343-A: G 19 12 3 L SI<br>SFA/AWS A5.9: ER316LSI<br>WERKSTOFFNUMMER: ~1.4430 | S2                 | I & J            |
| OK AUTROD 309LSI  | EN ISO 14343-A: G 23 12 L SI<br>SFA/AWS A5.9: ER309LSI<br>WERKSTOFFNUMMER: ~1.4332   | S2                 | I & J            |
| OK AUTROD 312     | EN ISO 14343: G 29 9<br>SFA/AWS A5.9: ER312                                          | S2                 | I & J            |
| OK AUTROD 430LNB  | EN ISO 14343-A: G 18 L NB<br>WERKSTOFFNUMMER: ~1.4511                                | S2                 | I & J            |
| OK AUTROD 410NIMO | EN ISO 14343-A: G 13 4                                                               | S2                 | I & J            |
| OK AUTROD 2209    | EN ISO 14343-A: G 22 9 3 N L<br>SFA/AWS A5.9: ER2209                                 | S2                 | I & J            |
| OK AUTROD 16.95   | EN ISO 14343-A: G 18 8 MN                                                            | S2                 | I & J            |

## ALUMINUM WIRES

| DESCRIPTION    | ISO/AWS/JIS/W.NR/CSA/KS/CAN CLASSIFICATION                                         | MANUFACTURED CLASS | TESTING SCHEDULE |
|----------------|------------------------------------------------------------------------------------|--------------------|------------------|
| OK AUTROD 1070 | EN ISO 18273: S AL 1070 (AL99,7)                                                   | S1                 | H                |
| OK AUTROD 4043 | EN ISO 18273: S AL 4043 (ALSI5)<br>SFA/AWS A5.10: ER4043<br>JIS Z 3232: A4043      | S1                 | H                |
| OK AUTROD 4043 | EN ISO 18273: S AL 4043 (ALSI5)<br>SFA/AWS A5.10: ER4043<br>JIS Z 3232: A4043      | S1                 | H                |
| OK AUTROD 5356 | EN ISO 18273: S AL 5356 (ALMG5CR(A))<br>SFA/AWS A5.10: ER5356<br>JIS Z 3232: A5356 | S1                 | H                |
| OK AUTROD 5183 | EN ISO 18273: S AL 5183 (ALMG4,5MN0,7(A))                                          | S1                 | H                |

## MILD STEEL TIG RODS

| DESCRIPTION     | ISO/AWS/JIS/W.NR/CSA/KS/CAN CLASSIFICATION                                  | MANUFACTURED CLASS | TESTING SCHEDULE |
|-----------------|-----------------------------------------------------------------------------|--------------------|------------------|
| OK TIGROD 12.61 | EN ISO 636-A: W 42 3 W3Si1<br>EN ISO 636-A: W3Si1<br>SFA/AWS A5.18: ER70S-6 | S3                 | I, J & K         |
| OK TIGROD 12.64 | EN ISO 636-A: W 46 4 4Si1<br>EN ISO 636-A: W4Si1<br>SFA/AWS A5.18: ER70S-6  | S3                 | H                |

## LOW ALLOY TIG RODS

| DESCRIPTION     | ISO/AWS/JIS/W.NR/CSA/KS/CAN CLASSIFICATION                                                                                                 | MANUFACTURED CLASS | TESTING SCHEDULE |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------|
| OK TIGROD 13.08 | EN ISO 636-B: W4M31<br>EN ISO 636-B: W55 3 W4M31<br>SFA/AWS A5.28: ER80S-D2                                                                | S3                 | I & J            |
| OK TIGROD 13.09 | EN ISO 21952-A: W MOSI<br>EN ISO 21952-B: W 52 1M3<br>EN ISO 636-A: W 46 2 W2MO<br>EN ISO 636-A: W2MO<br>SFA/AWS A5.28: ER70S-A1 (ER80S-G) | S3                 | I & J            |
| OK TIGROD 13.12 | EN ISO 21952-A: W CRMO2SI<br>EN ISO 21952-B: W 55 1CM3<br>SFA/AWS A5.28: ER80S-G                                                           | S2                 | I & J            |
| OK TIGROD 55    | EN ISO 16834-A: MN3NICRMO<br>EN ISO 16834-A: W 55 4 MN3NICRMO<br>SFA/AWS A5.28: ER100S-G                                                   | S3                 | I & J            |
| OK TIGROD 13.16 | EN ISO 21952-A: Z CRMO1SI<br>EN ISO 21952-B: W 55 1CM<br>SFA/AWS A5.28: ER80S-B2                                                           | S3                 | I & J            |
| OK TIGROD 13.17 | EN ISO 21952-A: Z CRMO2SI<br>EN ISO 21952-B: W 62 2C1M<br>SFA/AWS A5.28: ER90S-B3                                                          | S3                 | I & J            |
| OK TIGROD 13.22 | EN ISO 21952-A: W CRMO2SI<br>EN ISO 21952-B: W 62 2C1M3<br>SFA/AWS A5.28: ER90S-G                                                          | S2                 | I & J            |

## STAINLESS STEEL TIG RODS

| DESCRIPTION     | ISO/AWS/JIS/W.NR/CSA/KS/CAN CLASSIFICATION                                      | MANUFACTURED CLASS | TESTING SCHEDULE |
|-----------------|---------------------------------------------------------------------------------|--------------------|------------------|
| OK TIGROD 308L  | EN ISO 14343-A: W 19 9 L<br>SFA/AWS A5.9: ER308L<br>WERKSTOFFNUMMER: ~1.4316    | S2                 | I, J & K         |
| OK TIGROD 316L  | EN ISO 14343-A: W 19 12 3 L<br>SFA/AWS A5.9: ER316L<br>WERKSTOFFNUMMER: ~1.4430 | S2                 | I, J & K         |
| OK TIGROD 310   | EN ISO 14343: W 25 20<br>SFA/AWS A5.9: ER310                                    | S2                 | I & J            |
| OK TIGROD 2209  | EN ISO 14343-A: W 22 9 3 N L<br>SFA/AWS A5.9: ER2209                            | S2                 | I, J & K         |
| OK TIGROD 16.95 | EN ISO 14343: W 18 8 MN<br>WERKSTOFFNUMMER: ~1.4370                             | S2                 | I & J            |
| OK TIGROD 309L  | EN ISO 14343-A: W 23 12 L                                                       | S2                 | I & J            |

## ALUMINIUM TIG RODS

| DESCRIPTION    | ISO/AWS/JIS/W.NR/CSA/KS/CAN CLASSIFICATION                                              | MANUFACTURED CLASS | TESTING SCHEDULE |
|----------------|-----------------------------------------------------------------------------------------|--------------------|------------------|
| OK AUTROD 1070 | EN ISO 18273: S AL 1070 (AL99,7)                                                        | S1                 | H                |
| OK AUTROD 4043 | EN ISO 18273: S AL 4043 (ALSi5)<br>SFA/AWS A5.10: ER4043<br>JIS Z 3232: A4043           | S1                 | H                |
| OK AUTROD 5356 | EN ISO 18273: S AL 5356 (ALMG5CR(A))<br>SFA/AWS A5.10: ER5356<br>JIS Z 3232: A53556     | S1                 | H                |
| OK TIGROD 5356 | EN ISO 18273: S AL 5356 (ALMG5CR(A))<br>SFA/AWS A5.10: R5356<br>JIS Z 3232: A5356       | S1                 | I                |
| OK AUTROD 5183 | EN ISO 18273: S AL 5183 (ALMG4,5MN0,7(A))<br>SFA/AWS A5.10: ER5183<br>JIS Z 3232: A5183 | S1                 | H                |
| OK TIGROD 5183 | EN ISO 18273: S AL 5183 (ALMG4,5MN0,7(A))<br>SFA/AWS A5.10: R5183<br>JIS Z 3232: A5183  | S1                 | I                |

## MILD STEEL CORED WIRES

| DESCRIPTION              | ISO/AWS/JIS/W.NR/CSA/KS/CAN CLASSIFICATION                                                                                                                                                                                                                | MANUFACTURED CLASS | TESTING SCHEDULE |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------|
| OK TUBROD 14.13          | EN ISO 17632-A: T 42 2 M M 2 H5<br>SFA/AWS A5.36: E71T15-M21A2-CS1                                                                                                                                                                                        | T3                 | H                |
| CORESHIELD 8 1.6MM       | EN ISO 17632-A: T 42 2 Y N 2<br>SFA/AWS A5.20: E71T-8                                                                                                                                                                                                     | T1                 | H                |
| OK TUBROD 15.15          | EN ISO 17632-A: T 46 2 P C1 1 H5<br>EN ISO 17632-A: T 46 2 P M21 2 H5<br>SFA/AWS A5.36: E71T1-C1A0-CS2<br>SFA/AWS A5.36: E71T1-M21A0-CS2                                                                                                                  | T3                 | I, J & K         |
| CORE SHIELD 11           | AWS A5.20:E71T-11, AWS A5.36:E71T11-Z-CS3                                                                                                                                                                                                                 | T1                 | H                |
| DUAL SHIELD T-115        | AWS A5.29:E111T5-K4M-H4 (.045", .052", 1/16"), AWS A5.29:E110T5-K4C (3/32"), AWS A5.36:E111T5-M21A6-K4-H4 (.045", .052", 1/16"), AWS A5.36:E110T5-C1A6-K4-H4 (3/32"), ASME SFA 5.29, ASME SFA 5.36                                                        | T1                 | H                |
| FILARC PZ6138            | EN ISO 21952-A: Z CRMO2Si<br>EN ISO 21952-B: W 62 2C1M<br>SFA/AWS A5.28: ER90S-B3                                                                                                                                                                         | T3                 | I & J            |
| FILARC PZ6116S           | EN ISO 17632-A: T 46 6 1.5Ni P C1 1 H5<br>SFA/AWS A5.36: E81T1-C1A8-K2-H4                                                                                                                                                                                 | T3                 | H                |
| DUAL SHIELD 70ULTRA PLUS | A5.36 E71T1-M21A4-CS1-H8                                                                                                                                                                                                                                  | T3                 | I, J & K         |
| DUAL SHIELD 7100ULTRA    | EN ISO 17632-A: T46 2 P C1 1 H10<br>EN ISO 17632-A: T46 2 P M21 1 H10<br>SFA/AWS A5.20: E71T-1C<br>SFA/AWS A5.20: E71T-9C<br>SFA/AWS A5.20: E71T-9M<br>SFA/AWS A5.36: E71T1-C1A2-CS1<br>SFA/AWS A5.36: E71T1-M21A2-CS1<br>JIS Z 3313: YFW-C502R/YFL-C503R | T3                 | H                |
| DUAL SHIELD 7000-A1      | AWS A5.36 E81T1-C1PZ-A1<br>AWS A5.29 E81T1-A1C<br>KS D 7121 YFM-C<br>JIS Z 3318 YFM-C                                                                                                                                                                     | T3                 | I, J & K         |
| DUAL SHIELD 7100         | EN ISO 17632-A: T 42 0 P C1 1 H10<br>SFA/AWS A5.20: E71T-1C<br>JIS Z 3313: YFW-C50DR<br>KS D 7104: YFW-C50DR                                                                                                                                              | T3                 | H                |

## LOW ALLOYS CORED WIRES

| DESCRIPTION          | ISO/AWS/JIS/W.NR/CSA/KS/CAN CLASSIFICATION | MANUFACTURED CLASS | TESTING SCHEDULE |
|----------------------|--------------------------------------------|--------------------|------------------|
| OK TUBRODUR 58 O/G M | EN 14700: T FE6                            |                    |                  |

## STAINLESS STEEL CORED WIRES

| DESCRIPTION         | ISO/AWS/JIS/W.NR/CSA/KS/CAN CLASSIFICATION                                                                                                                                         | MANUFACTURED CLASS | TESTING SCHEDULE |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------|
| TG-X316L (SUPEROOT) | EN ISO 17633-B: T316L-R11<br>SFA/AWS A5.22: R316LT1-5                                                                                                                              | T3                 | I & J            |
| SHIELD-BRIGHT 308L  | EN ISO 17633-A: T 19 9 L P C1 2<br>EN ISO 17633-A: T 19 9 L P M21 2<br>SFA/AWS A5.22: E308LT1-1<br>SFA/AWS A5.22: E308LT1-4<br>JIS Z 3323: YF 308LC<br>KS D 3612: YF 308LC         | T3                 | I, J & K         |
| SHIELD-BRIGHT 309L  | EN ISO 17633-A: T 23 12 L P C1 2<br>EN ISO 17633-A: T 23 12 L P M21 2<br>SFA/AWS A5.22: E309LT1-1<br>SFA/AWS A5.22: E309LT1-4<br>JIS Z 3323: YF-309LC<br>KS D 3612: YF-309LC       | T3                 | I                |
| SHIELD-BRIGHT 316L  | EN ISO 17633-A: T 19 12 3 L P C1 2<br>EN ISO 17633-A: T 19 12 3 L P M21 2<br>SFA/AWS A5.22: E316LT1-1<br>SFA/AWS A5.22: E316LT1-4<br>JIS Z 3323: TS316L-FB1<br>KS D 3612: YF 316LC | T3                 | I, J & K         |
| SHIELD-BRIGHT 2209  | EN ISO 17633-A: T 22 9 3 N L P C1 2<br>EN ISO 17633-A: T 22 9 3 N L P M21 2<br>SFA/AWS A5.22: E2209T1-4, E2209T1-1                                                                 | T3                 | I, J & K         |

## SUB ARC WIRES

| DESCRIPTION     | ISO/AWS/JIS/W.NR/CSA/KS/CAN CLASSIFICATION                           | MANUFACTURED CLASS | TESTING SCHEDULE |
|-----------------|----------------------------------------------------------------------|--------------------|------------------|
| OK AUTROD 12.10 | EN ISO 14171-A: S1<br>SFA/AWS A5.17: EL12                            | S3                 | H                |
| OK AUTROD 12.22 | EN ISO 14171-A: S2Si<br>SFA/AWS A5.17: EM12K                         | S3                 | H                |
| OK AUTROD 12.32 | EN ISO 14171-A: S3Si<br>SFA/AWS A5.17: EH12K                         | S3                 | H                |
| OK AUTROD 12.32 | EN ISO 14171-A: S3Si<br>SFA/AWS A5.17: EH12K                         | S3                 | H                |
| OK AUTROD 12.24 | EN ISO 14171-A: S2MO<br>EN ISO 24598-A: S S MO<br>SFA/AWS A5.23: EA2 | S3                 | H                |

## STAINLESS STEEL SUB ARC WIRES

| DESCRIPTION    | ISO/AWS/JIS/W.NR/CSA/KS/CAN CLASSIFICATION           | MANUFACTURED CLASS | TESTING SCHEDULE |
|----------------|------------------------------------------------------|--------------------|------------------|
| OK AUTROD 2209 | EN ISO 14343-A: S 22 9 3 N L<br>SFA/AWS A5.9: ER2209 | S2                 | I & J            |
| SUBARC RW 312  | EN ISO 14343-A: S 29 9<br>SFA/AWS A5.9: ER312        | S2                 | I & J            |

## SUB ARC FLUXES

| DESCRIPTION                 | ISO/AWS/JIS/W.NR/CSA/KS/CAN CLASSIFICATION                                                           | MANUFACTURED CLASS | TESTING SCHEDULE |
|-----------------------------|------------------------------------------------------------------------------------------------------|--------------------|------------------|
| OK FLUX 10.62 25KG(55LB) BP | EN ISO 14174: S A FB 1 55 AC H4 ONLY BLOCKPAC/MOISTURE PROTECTION<br>EN ISO 14174: S A FB 1 55 AC H5 | F2                 | H                |
| OK FLUX 10.71 25KG(55LB) BP | EN ISO 14174: S A AB 1 67 AC H5                                                                      | F2                 | H                |
| OK FLUX 10.72 25KG(55LB) BP | EN ISO 14174: S A AB 1 57 AC H5                                                                      | F2                 | H                |
| OK FLUX 10.81 25KG(55LB)    | EN ISO 14174: S A AR 1 97 AC                                                                         | F2                 | H                |
| OK FLUX 10.33 25KG          | EN ISO 14174: S A FB 2 56 53 DC                                                                      | F2                 | H                |
| OK FLUX 10.93 20KG          | EN ISO 14174: S A AF 2 56 54 DC                                                                      | F2                 | H                |





## DURA ARC - MIG WIRE

|               |                   |                      |
|---------------|-------------------|----------------------|
| DUR-ER70S60.8 | DURA ARC MIG WIRE | ER70S-6 0.8MM X 15KG |
| DUR-ER70S60.9 | DURA ARC MIG WIRE | ER70S-6 0.9MM X 15KG |
| DUR-ER70S61.0 | DURA ARC MIG WIRE | ER70S-6 1.0MM X 15KG |
| DUR-ER70S61.2 | DURA ARC MIG WIRE | ER70S-6 1.2MM X 15KG |



### CERTIFICATE OF INSPECTION

DATE: Oct.16.2020

| Commodity                                 | Size                                                                                                                                                  | BatchNo.        | Mfg Date       | Standard          | Shielding Gas    | Date of issue |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------|-------------------|------------------|---------------|
| CO <sub>2</sub> gas shielded welding wire | 1.0 mm                                                                                                                                                | 201088647       | 2020.10        | AWS A5.18 ER70S-6 | CO <sub>2</sub>  | 2020.10.16    |
| Chemical Composition (%)                  |                                                                                                                                                       |                 |                |                   |                  |               |
| Element                                   | C                                                                                                                                                     | Mn              | Si             | P                 | S                | Cu            |
| Specification                             | 0.06-0.15                                                                                                                                             | 1.40-1.85       | 0.80-1.15      | ≤0.025            | ≤0.025           | ≤0.50         |
| Filler Metal                              | 0.072                                                                                                                                                 | 1.506           | 0.840          | 0.010             | 0.009            | 0.116         |
| Mechanical Properties                     |                                                                                                                                                       |                 |                |                   |                  |               |
|                                           | Tensile Strength MPa                                                                                                                                  | Yield Point MPa | Elongation (%) | Impact Temp (°C)  | Impact Value (J) |               |
| Requirement                               | ≥500                                                                                                                                                  | ≥420            | ≥22            | -30               | ≥27              |               |
| Real Parameter                            | 562                                                                                                                                                   | 455             | 27             | -30               | 128              |               |
| Core wire Heat NO.                        | 20201001                                                                                                                                              |                 |                |                   |                  |               |
| Remarks                                   | We hereby certify that the mechanical properties and chemical Composition of the whole lot satisfy all requirements. THIS PRODUCT CONTAINS NO MERCURY |                 |                |                   |                  |               |



### CERTIFICATE OF INSPECTION

DATE: Oct.16.2020

| Commodity                                 | Size                                                                                                                                                  | BatchNo.        | Mfg Date       | Standard          | Shielding Gas    | Date of issue |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------|-------------------|------------------|---------------|
| CO <sub>2</sub> gas shielded welding wire | 1.2 mm                                                                                                                                                | 201088647       | 2020.10        | AWS A5.18 ER70S-6 | CO <sub>2</sub>  | 2020.10.16    |
| Chemical Composition (%)                  |                                                                                                                                                       |                 |                |                   |                  |               |
| Element                                   | C                                                                                                                                                     | Mn              | Si             | P                 | S                | Cu            |
| Specification                             | 0.06-0.15                                                                                                                                             | 1.40-1.85       | 0.80-1.15      | ≤0.025            | ≤0.025           | ≤0.50         |
| Filler Metal                              | 0.072                                                                                                                                                 | 1.506           | 0.840          | 0.010             | 0.009            | 0.116         |
| Mechanical Properties                     |                                                                                                                                                       |                 |                |                   |                  |               |
|                                           | Tensile Strength MPa                                                                                                                                  | Yield Point MPa | Elongation (%) | Impact Temp (°C)  | Impact Value (J) |               |
| Requirement                               | ≥500                                                                                                                                                  | ≥420            | ≥22            | -30               | ≥27              |               |
| Real Parameter                            | 562                                                                                                                                                   | 455             | 27             | -30               | 128              |               |
| Core wire Heat NO.                        | 20201001                                                                                                                                              |                 |                |                   |                  |               |
| Remarks                                   | We hereby certify that the mechanical properties and chemical Composition of the whole lot satisfy all requirements. THIS PRODUCT CONTAINS NO MERCURY |                 |                |                   |                  |               |



## REMOTE CONTROLLER

### TECHNICAL SPECIFICATION

|                               |                                            |
|-------------------------------|--------------------------------------------|
| VOLTAGE                       | DC10V                                      |
| CURRENT ADJUSTMENT RANGE      | AS PER EACH WELDING MACHINE                |
| PROTECTION CLASS              | IP21S                                      |
| DIMENSION (MM)                | 220X160X120                                |
| WEIGHT                        | 2                                          |
| AVAILABLE FOR WELDING MACHINE | ARC400/ARC630/FLEXI ARC 400 /FLEXI ARC 600 |



## FOOT PEDAL

### TECHNICAL SPECIFICATION

|                               |                             |
|-------------------------------|-----------------------------|
| VOLTAGE                       | DC10V                       |
| CURRENT ADJUSTMENT RANGE      | AS PER EACH WELDING MACHINE |
| PROTECTION CLASS              | IP21S                       |
| DIMENSION (MM)                | 440X160X100                 |
| WEIGHT                        | 4                           |
| AVAILABLE FOR WELDING MACHINE | ATIG315PAC/ATIG270P         |



## WATER COOLER

### TECHNICAL SPECIFICATION

|                        |                                                            |
|------------------------|------------------------------------------------------------|
| MODEL                  | SLJ-10                                                     |
| MAIN VOLTAGE           | SINGLE PHASE 380V 50/60Hz, OR<br>SINGLE PHASE 230V 50/60Hz |
| MOTOR POWER            | 370w                                                       |
| DUTY CYCLE             | 100%                                                       |
| MAXIMUM PRESSURE       | 0.3MPa                                                     |
| MAX. WATER FLOW        | 5L/min                                                     |
| OPERATION TEMPERATURE  | -20°C~ 40°C                                                |
| PROTECTION CLASS       | IP21                                                       |
| COOLING METHOD         | AIR COOLED                                                 |
| RADIATOR POWER         | 1.7kw (1l/min)                                             |
| TANK CAPACITY          | 10l                                                        |
| DIMENSION (L*W*H)      | 4755*260*320 mm                                            |
| WEIGHT                 | 10kg                                                       |
| APPLY FOR POWER SOURCE | 300-400A POWER SOURCE                                      |



## CLOSE TYPE WIRE FEEDER

### TECHNICAL SPECIFICATION

|                         |                                               |
|-------------------------|-----------------------------------------------|
| RATED VOLTAGE           | DC24V                                         |
| FEEDING SPEED           | 2.5-21M/MIN                                   |
| WIDTH OF REEL           | 193MM                                         |
| WEIGHT                  | 16KG                                          |
| WIRE DIAMETER (MM)      | 0.8/1.0/1.2 (400A)<br>1.0/1.2/1.6 (500A/600A) |
| WELDING TORCH CONNECTOR | EURO                                          |
| GAS HUSE                | Ø8MM                                          |
| DRIVING METHOD          | DOUBLE DRIVE (4 ROLLS)                        |
| WIRE SPOOL (MM)         | Ø300XØ50X103                                  |
| MOTOR CONTROL MODE      | EMF FEEDBACK                                  |
| COOLING TYPE            | ANALOGUE                                      |
| RATED MOTOR CURRENT     | 5A                                            |
| DIAMETER OF REEL SHAFT  | 50MM                                          |
| MAX. WIRE LOAD          | 20KG                                          |
| DIMENSIONS LXWXH (MM)   | 640X250X400                                   |
| CONTROL CABLE CONNECTOR | 7-PIN                                         |
| WIRE TYPE               | SOLID/FLUX-CORE                               |





## DURA ARC – ELECTRODE HOTBOX & ELECTRODE OVENS



|            |                                                                                 |
|------------|---------------------------------------------------------------------------------|
| DURA-HB10  | DURA ARC ELECTRODE HOTBOX 10KG - 230V                                           |
| DURA-OVENH | DURA ARC ELECTRODE HOLDING OVEN 55L FITTED WITH PID CONTROLLER 0-300 DEG - 230V |
| DURA-OVENB | DURA ARC ELECTRODE BAKING OVEN 55L FITTED WITH PID CONTROLLER 0-450 DEG - 230V  |

## DISTRIBUTION BOARDS



**6 X 6 WAY MOBILE  
DISTRIBUTION BOARDS  
380V/230V**  
AVAILABLE IN VARIOUS POWER  
OUTLET CONFIGURATIONS  
BUILT TO LATEST SANS  
SPECIFICATIONS WITH COC



**6 WAY MOBILE  
DISTRIBUTION BOARD  
230V**  
AVAILABLE IN VARIOUS POWER  
OUTLET CONFIGURATIONS  
BUILT TO LATEST SANS  
SPECIFICATIONS WITH COC



**230V-12V (BOILER)  
TRANSFORMER**



**230V PORTABLE  
EARTH LEAKAGE  
UNIT**

## WIRE FEEDER ROLLERS

|             |                                                    |
|-------------|----------------------------------------------------|
| RR-1.0-1.2K | RIPPLE ROLLER 1.0MM-1.2MM KNURLED WIRE FEED ROLLER |
| RR-1.2-1.6K | RIPPLE ROLLER 1.2MM-1.6MM KNURLED WIRE FEED ROLLER |
| SR-0.8-1.0  | SMOOTH ROLLER 0.8MM - 1.0MM                        |
| SR-1.0-1.2  | SMOOTH ROLLER 1.0-1.2MM                            |
| UR-0.8-1.0  | U GROOVE ROLLER 0.8MM - 1.0MM                      |
| UR-1.0-1.2  | U GROOVE ROLLER 1.0MM - 1.2MM                      |
| UR-1.2-1.6  | U GROOVE ROLLER 1.2MM - 1.6MM                      |



## WELDING HOSE

|             |                                      |
|-------------|--------------------------------------|
| HOSE-ARGON4 | TIG ARGON HOSE 4 X 7MM BRAIDED BLACK |
| HOSE-WATB   | WATER HOSE BLUE                      |
| HOSE-WATR   | WATER HOSE RED                       |



## WELDING LUGS

|           |                   |
|-----------|-------------------|
| WLUG16X8  | WELDING LUG 16X8  |
| WLUG25X10 | WELDING LUG 25X10 |
| WLUG25X12 | WELDING LUG 25X12 |
| WLUG35X10 | WELDING LUG 35X10 |
| WLUG35X12 | WELDING LUG 35X12 |
| WLUG50X12 | WELDING LUG 50X12 |
| WLUG70X12 | WELDING LUG 70X12 |



## OETIKER CLAMPS

|          |                       |
|----------|-----------------------|
| OET11-13 | OETIKER CLAMP 11-13MM |
| OET13-15 | OETIKER CLAMP 13-15   |
| OET15-18 | OETIKER CLAMP 15-18MM |
| OET5-7   | OETIKER CLAMP 5-7MM   |
| OET7-9   | OETIKER CLAMP 7-9MM   |
| OET8.7   | OETIKER CLAMP 8.7     |
| OET9.5   | OETIKER CLAMP 9.5     |
| OET9-11  | OETIKER CLAMP 9-11MM  |



## ELECTRODE HOLDERS

|           |                                  |
|-----------|----------------------------------|
| DUR-EH200 | ELECTRODE HOLDER 200A OPTI STYLE |
| DUR-EH400 | ELECTRODE HOLDER 400A OPTI STYLE |
| DUR-EH600 | ELECTRODE HOLDER 600A OPTI STYLE |



## EARTH CLAMPS

|            |                               |
|------------|-------------------------------|
| DUR-EC200  | EARTH CLAMP 200A CROC TYPE    |
| DUR-EC400  | EARTH CLAMP 400A CROC TYPE    |
| DUR-EC600  | EARTH CLAMP 600A CROC TYPE    |
| DUR-ECG500 | EARTH CLAMP 500A G-TYPE BRASS |



## DINZE CABLE CONNECTORS

|              |                                      |
|--------------|--------------------------------------|
| DUR-CCF10-25 | DINZE CABLE CONNECTOR FEMALE 10-25MM |
| DUR-CCF35-50 | DINZE CABLE CONNECTOR FEMALE 35-50MM |
| DUR-CCF50-70 | DINZE CABLE CONNECTOR FEMALE 50-70MM |
| DUR-CCM10-25 | DINZE CABLE CONNECTOR MALE 10-25MM   |
| DUR-CCM35-50 | DINZE CABLE CONNECTOR MALE 35-50MM   |
| DUR-CCM50-70 | DINZE CABLE CONNECTOR MALE 50-70MM   |



## TEMPERATURE INDICATOR CRAYONS

|          |                                        |
|----------|----------------------------------------|
| TEMP101C | TEMPINDIC 101C/214F TEMPERATURE CRAYON |
| TEMP107C | TEMPINDIC 107C/225F TEMPERATURE CRAYON |
| TEMP121C | TEMPINDIC 121C/250F TEMPERATURE CRAYON |
| TEMP149C | TEMPINDIC 149C/300F TEMPERATURE CRAYON |
| TEMP150C | TEMPINDIC 150C/302F TEMPERATURE CRAYON |
| TEMP163C | TEMPINDIC 163C/325F TEMPERATURE CRAYON |
| TEMP177C | TEMPINDIC 177C/350F TEMPERATURE CRAYON |
| TEMP191C | TEMPINDIC 191C/375F TEMPERATURE CRAYON |
| TEMP204C | TEMPINDIC 204C/400F TEMPERATURE CRAYON |
| TEMP218C | TEMPINDIC 218C/425F TEMPERATURE CRAYON |
| TEMP246C | TEMPINDIC 246C/475F TEMPERATURE CRAYON |
| TEMP246C | TEMPINDIC 121C/250F TEMPERATURE CRAYON |
| TEMP253C | TEMPINDIC 253C/488F TEMPERATURE CRAYON |
| TEMP302C | TEMPINDIC 302C/575F TEMPERATURE CRAYON |
| TEMP343C | TEMPINDIC 343C/650F TEMPERATURE CRAYON |
| TEMP399C | TEMPINDIC 399C/750F TEMPERATURE CRAYON |
| TEMP52C  | TEMPINDIC 52C/150F TEMPERATURE CRAYON  |
| TEMP79C  | TEMPINDIC 79C/175F TEMPERATURE CRAYON  |
| TEMP93C  | TEMPINDIC 93C/200F TEMPERATURE CRAYON  |





## DURA - CHIPPING HAMMER

|             |                                                     |
|-------------|-----------------------------------------------------|
| DUR-CHIPHAM | DURA WELDING CHIPPING HAMMER CHISSEL PICK TYPE 500G |
|-------------|-----------------------------------------------------|



## DURA - WIRE BRUSHES

|            |                                          |
|------------|------------------------------------------|
| BRUSH-MS5R | WELDERS WIRE BRUSH MILD STEEL 5 ROW      |
| BRUSH-SS5R | WELDERS WIRE BRUSH STAINLESS STEEL 5 ROW |



## DURA - WELDERS GAUGE

|       |                                          |
|-------|------------------------------------------|
| MG-11 | DURA WELDERS GAUGE MG-11 FILLET GUAGE    |
| MG-8  | DURA WELDERS GAUGE MG-8C0 CAM TYPE GUAGE |



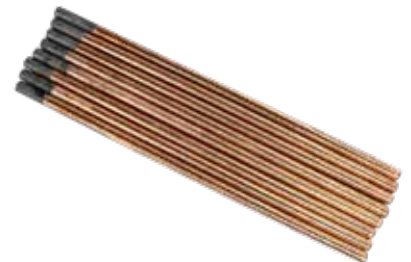
## ARC AIR GOUGING TORCHES

|            |                                                     |
|------------|-----------------------------------------------------|
| GOUG-K4000 | DURA ARC AIR GOUGING TORCH K4000 1000AMP BENT NECK  |
| GOUG-K5    | DURA ARC AIR GOUGING TORCH K5 1200AMP STRAIGHT NECK |



## GOUGING CARBONS

|                    |                                     |
|--------------------|-------------------------------------|
| GOUG-CARBON5X305   | DURA CARBON 5MM X 305MM NON JOINTED |
| GOUG-CARBON6.5X305 | DURA CARBON 6.5MMX305MM NON JOINTED |
| GOUG-CARBON8X305   | DURA CARBON 8.0MMX305MM NON JOINTED |
| GOUG-CARBON9.5X305 | DURA CARBON 9.5MMX305MM NON JOINTED |



## WELDING CABLE SIZES & OUTPUT



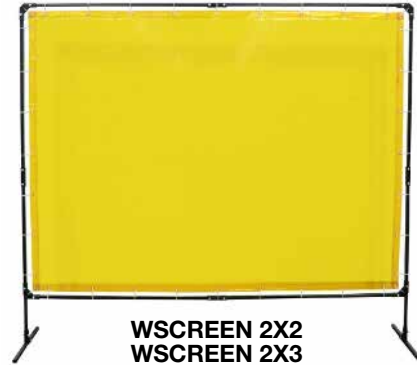
|                       | 16mm | 25mm | 35mm   | 50mm | 70mm | 95mm |
|-----------------------|------|------|--------|------|------|------|
| <b>Diameter Sizes</b> |      |      |        |      |      |      |
| Outside:              | 10mm | 12mm | 13.5mm | 15mm | 17mm | 19mm |
| Copper:               | 5mm  | 7mm  | 8mm    | 10mm | 11mm | 13mm |

## FIRE BLANKETS



**FIRE1X50 ROLL**  
**FIRE2X2**  
**FIRE 2X3**

## WELDING SCREENS



**WSCREEN 2X2**  
**WSCREEN 2X3**  
**WSCREEN 1.8X2.4**  
**WSCREEN 3X3**  
**WSCREEN 3X6**

## WELD PURGING



**Dissolving Paper**  
**ASW35 DISSOLVING**  
**PURGE PAPER**  
**400MM X 50M**



**Dissolving paper tape**



**Fibreglass Weld**  
**Backing Tape**



**Ceramic Backing Tape**

## PICKLING PASTE

### COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Nature: Strong acid in a paste form with corrosive properties.

Chemical name of ingredient 1: Nitric Acid HNO<sub>3</sub>

CAS No.: 7697-37-2

EEC No.: 231-714-2

Contents (Class): Approximately 18 to 20% of makeup.

Health Risk Code: C-Corrosive / R35

UN No: 2031

ERG No: 157

Chemical Name of Ingredient 2: Hydrofluoric Acid HF

CAS No: 7664-39-3

EEC No: 231-634-8

Contents (Class): Approximately 3.5 to 5% of make up.

Health Risk Code: T-Toxic / R23 / R24 / R25 / R36.

UN No.: 1790

ERG No.: 157

Additional Information: Classification according to directive 67/548/EEC

|                      |                                     |
|----------------------|-------------------------------------|
| <b>DUR-PICKPASTE</b> | <b>DURA WELD PICKLING PASTE 1KG</b> |
|----------------------|-------------------------------------|





## 064 GAS WELDING AND CUTTING



## MEDIUM DUTY SINGLE STAGE CYLINDER REGULATORS 152 SERIES



### FEATURES

- Each unit is engraved with a unique serial code for traceability
- Forged brass body and housing cap
- Delrin cap bushing for smooth adjustments
- Self re-seating external safety pressure relief valve on oxygen, inert gas and air models
- Sintered bronze inlet filter
- 2" gauges for easy reading
- 2" diaphragm
- Weight: 2lbs 11oz
- UL Listed

| MODEL NO. | GAS TYPE  | REGULATOR TYPE | MIN. DELIVERY PRESSURE (PSI) | MAX. DELIVERY PRESSURE (PSI) | INLET GAUGE | OUTLET GAUGE  | INLET CONNECTION | OUTLET CONNECTION |
|-----------|-----------|----------------|------------------------------|------------------------------|-------------|---------------|------------------|-------------------|
| 152TX     | OXYGEN    | MEDIUM DUTY    | 3000                         | 4-80                         | 2", 4000PSI | 2", 100PSI    | CGA 540          | 3/8"- RH(M)       |
| 152TY     | ACETYLENE | MEDIUM DUTY    | 400                          | 2-15                         | 2", 400PSI  | 2", 30PSI, RL | CGA 510          | 3/8"- LH(M)       |





## HEAVY DUTY TWO STAGE CYLINDER REGULATORS 153T SERIES



### FEATURES

- Each unit is engraved with a unique serial code for traceability
- Forged brass body and housing cap
- Delrin cap bushing for smooth adjustments
- Self re-seating external pressure relief valve
- Sintered bronze inlet filter
- 2-1/2" gauges for easy reading
- 2" and 3/4" diaphragms
- Weight 7lbs 6 oz
- Conforms to CGA E-4 standard for gas pressure regulators

| ITEM CODE | MODEL NO. | GAS TYPE  | REGULATOR TYPE | MIN. DELIVERY PRESSURE (PSI) | MAX. DELIVERY PRESSURE (PSI) | INLET GAUGE | OUTLET GAUGE  | INLET CONNECTION | OUTLET CONNECTION |
|-----------|-----------|-----------|----------------|------------------------------|------------------------------|-------------|---------------|------------------|-------------------|
| EN153TX   | 153TX     | OXYGEN    | HEAVY DUTY     | 3000                         | 4-80                         | 2", 4000PSI | 2", 100PSI    | CGA 540          | 3/8"- RH(M)       |
| EN153TY   | 153TY     | ACETYLENE | HEAVY DUTY     | 400                          | 2-15                         | 2", 400PSI  | 2", 30PSI, RL | CGA 510          | 3/8"- LH(M)       |



## GENTEC FLOWMETERS

- Each unit is engraved with a unique serial code for traceability
- High Quality
- Engraved Serial number
- MIG & TIG Applications
- Polycarbonate flow tube and hood are impact resistant for maximum durability and service life
- Calibrated for argon, CO<sub>2</sub>, helium, nitrogen, air, and 75% argon / 25% CO<sub>2</sub> mixed gases
- Conforms to CGA E-4 Standard for Gas Pressure Regulators

|                 |                                                                    |
|-----------------|--------------------------------------------------------------------|
| GEN-ARG191AR-25 | GENTEC 191AR-25 FLOWMETER – SINGLE STAGE – CONFORMS TO CGA E-4 STD |
| GEN-ARG195AR-25 | GENTEC 195AR-25 FLOWMETER – SINGLE STAGE - UL LISTED               |
| GEN-ARG195AR-60 | GENTEC 195AR-60 FLOWMETER – 2 STAGE – UL LISTED                    |



## 195AE-25 GAS SAVING FLOWMETER REGULATOR

GENTEC® Gas Saving Flowmeter Regulators are designed to minimize the amount of shield gas wasted. The innovative design integrates a stabilizer onto the flowmeter providing constant pressure and flow. How it Works: GENTEC®'s Gas Saving Flowmeter Regulator first reduces the supplied pressure to a set pressure. To help save gas, a built-in stabilizer is designed on the flowmeter to eliminate pressure fluctuations. For example, during the start of MIG/TIG applications, a gas surge results from the excess pressure in the supply hose. These surges are regarded as “wasted gas”. The Gas Saving Flowmeter Regulators use the built-in stabilizer on the flowmeter to reduce pressure surges while maintaining a constant pressure and flow, saving up to 50% of the gas\*.

- Regulator is pre-set at 50PSIG
- Chrome plated brass body machined from class “A” brass
- Single-stage regulator
- Polycarbonate flow tube and hood are impact resistant for maximum durability and service life
- Flowmeter is backpressure compensated to ensure accurate readings when line restrictions are present
- Calibrated for argon and 75% argon/25% CO<sub>2</sub> mixed gases.
- Sintered bronze inlet filter
- Flowmeter with built-in stabilizer for gas saving
- Internal pressure relief design
- Gas saving range: 20-50%\*
- 2” high-pressure gauge for easy reading
- Weight: 2 lbs 15 oz
- Optional BSP, JIS, DIN inlet connections are available



| MODEL NUMBER | GAS SERVICE                   | OUTLET PRESSURE PRESET | INLET GAUGE            | FLOWMETER (SCFH) | INLET CONNECTION  | OUTLET CONNECTION |
|--------------|-------------------------------|------------------------|------------------------|------------------|-------------------|-------------------|
| 195AE-25L    | ARGON, AR/CO <sub>2</sub> MIX | 50 PSI (3.5)           | 2”, 4000 PSI (280 BAR) | 25LPM            | BS3, G 5/8”-RH(M) | G 3/8”-RH(M)      |

## GENTEC - FLASHBACK ARRESTORS



- Sintered Metal Flame Arresting Filter quenches the flame from severe flashbacks
- Built-in automatic reset Check Valve prevents the reverse flow of gas by temporarily cutting off the gas

|            |                                                                                        |
|------------|----------------------------------------------------------------------------------------|
| GEN-FA8RF  | GENTEC FA8RF - REGULATOR MOUNT ACETYLENE FLASH BACK ARRESTOR – CHECK VALVE – 3/8"      |
| GEN-FA8RO  | GENTEC FA8RO - REGULATOR MOUNT OXYGEN FLASH BACK ARRESTOR – CHECK VALVE – 3/8"         |
| GEN-FA8TF  | GENTEC FA8TF - TORCH MOUNT ACETYLENE FLASH BACK ARRESTOR – CHECK VALVE – 3/8"          |
| GEN-FA8TO  | GENTEC FA8TO - TORCH MOUNT OXYGEN FLASH BACK ARRESTOR – CHECK VALVE – 3/8"             |
| GEN-FA11RF | GENTEC FA11RF - REGULATOR MOUNT ACETYLENE FLASH BACK ARRESTOR – THERMAL-CUT-OUT – 3/8" |
| GEN-FA11RO | GENTEC FA11RO - REGULATOR MOUNT OXYGEN FLASH BACK ARRESTOR – THERMAL CUT-OFF – 3/8"    |

## GENTEC – HAND CUTTING TORCH

- Each unit is engraved with a unique serial code for traceability
- Rugged Construction
- Heavy Duty
- Inline tubes
- Multi Gas Torch (acetylene, propane, natural gas, propylene and MAPP, 2 PSIG and above)



|            |                                                                           |
|------------|---------------------------------------------------------------------------|
| GEN-CT363S | GENTEC 363S – 14" HEAVY DUTY MULTI GAS CUTTING TORCH – 3/8" CONNECTION    |
| GEN-CT463  | GENTEC 463 – 18" HEAVY DUTY OXY/ACETYLENE CUTTING TORCH – 3/8" CONNECTION |

## REGULATORS

### Morris 25-Series Regulator Medium Duty

Features :

- Single Stage
- Forged Brass Body for maximum strength
- Chrome Bonnet
- Neoprene Diaphragm
- Sintered metal inlet filter to trap impurities
- Weight 1.7kg



| MODELS:    |           | MAX INLET<br>(BAR) | DELIVERY<br>PRESSURE<br>(BAR) | WORKING<br>PRESSURE<br>(BAR) |
|------------|-----------|--------------------|-------------------------------|------------------------------|
| 25-1.5M-AC | ACETYLENE | 0-40               | 1,5                           | 0-2.5                        |
| 25-3.5M-LP | PROPANE   | 0-40               | 3,5                           | 0-5                          |
| 25-10M-OX  | OXYGEN    | 0-315              | 10                            | 0-16                         |

### Morris 96-Series Regulator Heavy Duty

Features :

- Double Stage
- Forged Brass Body for maximum strength
- Chrome Bonnet
- Neoprene Diaphragm
- External Safety Relief Valve
- Sintered metal inlet filter to trap impurities
- Weight 2.0kg



| MODELS:    |           | MAX INLET<br>(BAR) | DELIVERY<br>PRESSURE<br>(BAR) | WORKING<br>PRESSURE<br>(BAR) |
|------------|-----------|--------------------|-------------------------------|------------------------------|
| 96-1.5M-AC | ACETYLENE | 0-40               | 1,4                           | 0-2.5                        |
| 96-10M-OX  | OXYGEN    | 0-315              | 10                            | 0-16                         |

### Morris 47-Series Regulator Pipeline

Features :

- Single Stage
- Forged Brass Body for maximum strength
- Chrome Bonnet
- Neoprene Diaphragm
- Sintered metal inlet filter to trap impurities
- Rear Entry
- Weight 1.3kg



| MODELS:    |           | MAX INLET<br>(BAR) | DELIVERY PRESSURE (BAR) |
|------------|-----------|--------------------|-------------------------|
| 47-1.5M-AC | ACETYLENE | 1,5                | 0-2.5                   |
| 47-3.5M-LP | PROPANE   | 3,5                | 0-5                     |
| 47-10M-OX  | OXYGEN    | 10                 | 0-16                    |

### Morris 29 Series Regulator (Gaugeless) Medium Duty

Features :

- Single Stage
- Forged Brass Body for maximum strength
- Chrome Bonnet
- Neoprene Diaphragm
- Sintered metal inlet filter to trap impurities
- Safety relief valve is set
- Weight 1.5kg



| MODELS:    |           | MAX INLET<br>(BAR) | DELIVERY<br>PRESSURE<br>(BAR) | WORKING<br>PRESSURE<br>(BAR) |
|------------|-----------|--------------------|-------------------------------|------------------------------|
| 29-1.5M-AC | ACETYLENE | 0-40               | 1,5                           | 0-2.5                        |
| 29-3.5M-LP | PROPANE   | 0-40               | 3,5                           | 0-5                          |
| 29-10M-OX  | OXYGEN    | 0-315              | 10                            | 0-16                         |

### Morris 99-Series Regulator Heavy Duty - Gaugeless

Features :

- Double Stage
- Forged Brass Body for maximum strength
- Chrome Bonnet
- Neoprene Diaphragm
- Sintered metal inlet filter to trap impurities
- External safety relief valve
- Weight 2.0kg



| MODELS:    |           | MAX INLET<br>(BAR) | DELIVERY<br>PRESSURE<br>(BAR) | WORKING<br>PRESSURE<br>(BAR) |
|------------|-----------|--------------------|-------------------------------|------------------------------|
| 99-1.5M-AC | ACETYLENE | 0-40               | 1,5                           | 0-2.5                        |
| 99-10M-OX  | OXYGEN    | 0-315              | 10                            | 0-16                         |

## TORCHES

### Model 2800 Torch

Oxy/Ace Oxy/LPG  
Uses 2890-F series Nozzles

Features :

- Harris Style
- Cutting Capacity up to 600mm
- Stainless Steel Gas Tubes
- Needle valves for fast accurate flame adjustment
- Tip Mix
- 90° Head
- Length 675mm



### Model 62-3F Torch (UL Listed)

Oxy/LPG  
Uses 6290 NX/NFF Tips

Features :

- Harris Style
- Cutting Capacity up to 300mm
- Triangular Stainless Steel Gas Tubes for maximum strength
- Needle valves for fast accurate flame adjustment
- Head Mixing for maximum operator safety
- Built-in safety plug in torch head
- Stable pre-heat flame during cutting
- Universal pressure remains
- Available in 70°Head, 90°Head, 180°Head (90°Std, other on request only)
- Length 460mm
- Torches are available in various lengths, from 460mm-1800mm (On request only)



### 43-2 Torch Handle (UL Listed)

Features :

- Harris Style
- Cuts up to 150mm
- Weld up to 50mm
- Tough extruded brass handle for durability
- Stainless needle valves for fast accurate flame adjustment
- Fits cutting attachment 49-2F



### Mixers available for 43-2 Handle

E43 - Oxy/Ace  
F43 - Oxy/LPG

### Heating Nozzles

2290-2H 2290-3H 2290-4H 2290-5H



### Tip Tubes 2393

275mm 420mm 720mm 915mm

### 49-2F Cutting Attachment (UL Listed)

Features :

- Harris Style
- Cut up to 150mm
- Attached quick and simply
- Double O-ring seal to form a perfect tight gas seal
- Head & body forged brass for longer life
- Head mixing for maximum operator safety
- Built in safety plug in head for added safety
- Triangular stainless tubes for maximum strength & long life





## FLASHBACK ARRESTORS

| MODELS : FLASHBACK ARRESTORS - QUICK RELEASE                                         |                     | INLET |                                                                                      |
|--------------------------------------------------------------------------------------|---------------------|-------|--------------------------------------------------------------------------------------|
| Q188-R QUICK RELEASE PIN TORCH 9/16" (OXYGEN)                                        | OXYGEN/TORCH        | 9/16" |   |
| Q188-L QUICK RELEASE PIN TORCH 9/16" (ACETYLENE)                                     | ACETYLENE/TORCH     | 9/16" |                                                                                      |
| Q188-R QUICK RELEASE PIN TORCH 3/8" (OXYGEN)                                         | OXYGEN/TORCH        | 3/8"  |                                                                                      |
| Q188-L QUICK RELEASE PIN TORCH 3/8" (ACETYLENE)                                      | ACETYLENE/TORCH     | 3/8"  |                                                                                      |
| QF388-R8 QUICK ACTION COUPLING WITH BUILT IN FLASHBACK ARRESTOR (OXYGEN) 8MM HOSE    | OXYGEN/TORCH        |       |   |
| QF388-L8 QUICK ACTION COUPLING WITH BUILT IN FLASHBACK ARRESTOR (ACETYLENE) 8MM HOSE | ACETYLENE/TORCH     |       |                                                                                      |
| Q388-R8 QUICK RELEASE PIN REGULATOR (OXYGEN) 8MM HOSE                                | OXYGEN/REGULATOR    |       |   |
| Q388-L8 QUICK RELEASE PIN REGULATOR (ACETYLENE) 8MM HOSE                             | ACETYLENE/REGULATOR |       |                                                                                      |
| QF288-R QUICK ACTION COUPLING WITH BUILT IN FLASHBACK ARRESTOR 9/16"(OXYGEN)         | OXYGEN/REGULATOR    | 9/16" |  |
| QF288-L QUICK ACTION COUPLING WITH BUILT IN FLASHBACK ARRESTOR 9/16"(ACETYLENE)      | ACETYLENE/REGULATOR | 9/16" |                                                                                      |
| QF288-RGB QUICK ACTION COUPLING WITH BUILT IN FLASHBACK ARRESTOR 3/8"(OXYGEN)        | OXYGEN/REGULATOR    | 3/8"  |                                                                                      |
| QF288-LGB QUICK ACTION COUPLING WITH BUILT IN FLASHBACK ARRESTOR 3/8" (ACETYLENE)    | ACETYLENE/REGULATOR | 3/8"  |                                                                                      |

| MODELS : FLASHBACK ARRESTORS                                                                                        | GAS/MOUNTING        | INLET |                                                                                       |
|---------------------------------------------------------------------------------------------------------------------|---------------------|-------|---------------------------------------------------------------------------------------|
| H188-R FLASHBACK ARRESTOR WITH NON RETURN VALVE TORCH MOUNT OXYGEN 9/16" (UL LISTED)                                | OXYGEN/TORCH        | 9/16" |  |
| H188-L FLASHBACK ARRESTOR WITH NON RETURN VALVE TORCH MOUNT ACETYLENE 9/16"(UL LISTED)                              | ACETYLENE/TORCH     | 9/16" |                                                                                       |
| H288-R FLASHBACK ARRESTOR WITH NON RETURN VALVE REGULATOR MOUNT OXYGEN 9/16"(UL LISTED)                             | OXYGEN/REGULATOR    | 9/16" |  |
| H288-L FLASHBACK ARRESTOR WITH NON RETURN VALVE REGULATOR MOUNT ACETYLENE 9/16"(UL LISTED)                          | ACETYLENE/REGULATOR | 9/16" |                                                                                       |
| H188-RGB FLASHBACK ARRESTOR WITH NON RETURN VALVE TORCH MOUNT OXYGEN 3/8" (UL LISTED)                               | OXYGEN/TORCH        | 3/8"  |  |
| H188-LGB FLASHBACK ARRESTOR WITH NON RETURN VALVE TORCH MOUNT ACETYLENE 3/8"(UL LISTED)                             | ACETYLENE/TORCH     | 3/8"  |                                                                                       |
| H288-RGB FLASHBACK ARRESTOR WITH NON RETURN VALVE REGULATOR MOUNT OXYGEN 3/8"(UL LISTED)                            | OXYGEN/REGULATOR    | 3/8"  |  |
| H288-LGB FLASHBACK ARRESTOR WITH NON RETURN VALVE REGULATOR MOUNT ACETYLENE 3/8"(UL LISTED)                         | ACETYLENE/REGULATOR | 3/8"  |                                                                                       |
| B288-R FLASHBACK ARRESTOR WITH NON RETURN VALVE & THERMAL CUT-OFF VALVE REGULATOR MOUNT OXYGEN 9/16"(UL LISTED)     | OXYGEN/REGULATOR    | 9/16" |  |
| B288-L FLASHBACK ARRESTOR WITH NON RETURN VALVE & THERMAL CUT-OFF VALVE REGULATOR MOUNT ACETYLENE 9/16" (UL LISTED) | ACETYLENE/REGULATOR | 9/16" |                                                                                       |



## CUTTING NOZZLES

ANM are a range of nozzles used in the cutting of mild steel using the normal oxy/acetylene process and for use with NM cutters or HD cutting attachments.

|              |                                             |
|--------------|---------------------------------------------|
| GAS-ANM0.8   | DURA ARC ANM 0.8MM GAS CUTTING NOZZLE       |
| GAS-ANM1.2   | DURA ARC ANM 1.2MM GAS CUTTING NOZZLE       |
| GAS-ANM1.6   | DURA ARC ANM 1.6MM GAS CUTTING NOZZLE       |
| GAS-ANM2.0   | DURA ARC ANM 2.0MM GAS CUTTING NOZZLE       |
| GAS-ANM2.4   | DURA ARC ANM 2.4MM GAS CUTTING NOZZLE       |
| GAS-ANM3.2MM | DURA ARC ANM 3.2MM GAS CUTTING NOZZLE       |
| GAS-ANME1.6  | DURA ARC ANME 1.6MM CUTTING NOZZLE EXTENDED |
| GAS-ANME2.0  | DURA ARC ANME 2.0MM CUTTING NOZZLE EXTENDED |

### HARRIS TYPE 2890 F SERIES NOZZLES

|        |                                    |
|--------|------------------------------------|
| GAS-1F | DURA ARC CUTTING NOZZLE 0-10MM 1F  |
| GAS-2F | DURA ARC CUTTING NOZZLE 10-25MM 2F |
| GAS-3F | DURA ARC CUTTING NOZZLE 25-50MM 3F |
| GAS-4F | DURA ARC CUTTING NOZZLE 50-75MM 4F |

### HARRIS TYPE 6290 NFF & NX NOZZLES

|             |                                 |
|-------------|---------------------------------|
| GAS-000-DNX | DURA ARC CUTTING NOZZLE 0-5MM   |
| GAS-00-DNX  | DURA ARC CUTTING NOZZLE 5-10MM  |
| GAS-0-DNX   | DURA ARC CUTTING NOZZLE 10-15MM |
| GAS-1DNX    | DURA ARC CUTTING NOZZLE 15-25MM |
| GAS-2DNX    | DURA ARC CUTTING NOZZLE 25-50MM |
| GAS-3DNX    | DURA ARC CUTTING NOZZLE 50-75MM |
| GAS-1DNF    | DURA ARC CUTTING NOZZLE 15-25MM |
| GAS-2DNF    | DURA ARC CUTTING NOZZLE 25-50MM |



PMN nozzles is for use with Oxygen/LPG gas cutting and compatible with the Gentec Range of 363 & 463S Multi Gas Cutting Torches

|            |                                   |
|------------|-----------------------------------|
| GAS-PNM0.8 | DURA ARC PNM 0.8MM CUTTING NOZZLE |
| GAS-PNM1.2 | DURA ARC PNM 1.2MM CUTTING NOZZLE |
| GAS-PNM1.6 | DURA ARC PNM 1.6MM CUTTING NOZZLE |
| GAS-PNM2.0 | DURA ARC PNM 2.0MM CUTTING NOZZLE |
| GAS-PNM2.4 | DURA ARC PNM 2.4MM CUTTING NOZZLE |

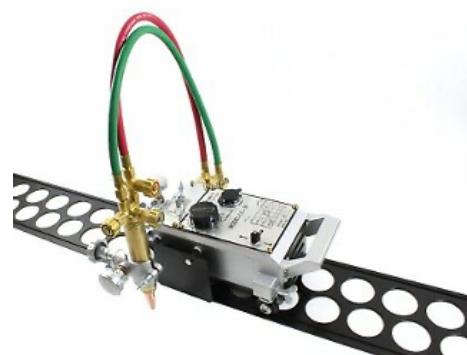


## GAS CUTTERS

HK12 MAX STRAIGHT LINE CUTTER C/W RAIL – 230V

|                  |                              |
|------------------|------------------------------|
| ITEM NO          | HK12M-SLC                    |
| MACHINE SIZE     | 325MMx325 MMx425 MM          |
| CUTTING CAPACITY | 108MM-600MM (STANDARD CHAIN) |
| WEIGHT           | 10.5 KILOGRAMS               |
| CUTTING SPEED    | 5MM-50MM (STANDARD TORCH)    |
| POWER INPUT      | 230V                         |

OPTIONAL: 1,8M RAIL INCLUDED  
ADDITIONAL RAILS AVAILABLE



## GAS OPERATED PIPE CUTTER (HANCOCK TYPE)

GAS OPERATED PIPE CUTTER C/W 1.2M CHAIN – MANUAL OPERATION

|                          |                              |
|--------------------------|------------------------------|
| ITEM NO                  | CG2-11G                      |
| WEIGHT (BODY)            | 10.5 KILOGRAMS               |
| MACHINE DIMENSION        | 325MMx325 MMx425 MM          |
| DIAMETER OF CUTTING PIPE | 108MM-600MM (STANDARD CHAIN) |
| CUTTING THICKNESS        | 5MM-50MM(STANDARD TORCH)     |

OPTIONAL: ADDITIONAL CHAIN AVAILABLE



## DURA CUT FLASHBACK ARRESTORS

|          |                               |
|----------|-------------------------------|
| GAS-188L | DURA CUT FBA TM ACC 3/8" 188L |
| GAS-188R | DURA CUT FBA TM OXY 3/8" 188R |
| GAS-288L | DURA CUT FBA RM ACC 3/8" 288L |
| GAS-288R | DURA CUT FBA RM OXY 3/8" 288R |



## DURA – NOZZLE CLEANER

|              |                     |
|--------------|---------------------|
| DUR-NOZCLEAN | DURA NOZZLE CLEANER |
|--------------|---------------------|



## DURA – TRIPLE FLINT LIGHTER

|                |                                       |
|----------------|---------------------------------------|
| DUR-FLINTLIGHT | TRIPLE FLINT LIGHTER                  |
| DUR-FLINTREFIL | FLINT REFILL FOR TRIPLE FLINT LIGHTER |



## AIR & GAS HOSES

|               |                                                                |
|---------------|----------------------------------------------------------------|
| HOSE-IN5      | DURA ARC INERT GAS HOSE 5MM BLACK BS EN ISO 3821:2010          |
| HOSE-IN8      | DURA ARC INERT GAS HOSE 8MM BLACK BS EN ISO 3821:2010          |
| HOSE-ACC8     | DURA ARC RED ACETYLENE GAS HOSE 8MM X 16MM BS EN ISO 3821:2010 |
| HOSE-OXY8     | DURA ARC BLUE OXYGEN GAS HOSE 8MM X 16MM BS EN ISO 3821:2010   |
| HOSE-PRO8     | DURA ARC PROPANE HOSE ORANGE 8MM LPG BS 3212:1991              |
| HOSE-RUBAIR12 | RUBBER AIR HOSE 12MM 1/2" BLACK 10 BAR                         |
| HOSE-RUBAIR20 | RUBBER AIR HOSE 20MM 3/4" BLACK 20 BAR                         |



HOSE-OXY8



HOSE-ACC8



HOSE-IN8  
HOSE-IN5



HOSE-PRO8





## EVOSAW

### 230mm Steel Cutting Circular Saw

The EVOSAW230 is robust and highly durable, typically a Steel blade will cut up to 80m of 12mm Steel plate.

- Ideal for cutting Steel plate, Box section, Scaffolding, Cladding and Roofing.
- Advanced performance; out performs normal cutting saws
- When cutting Steel, it leaves an instantly workable finish, producing no heat, no burr and virtually no sparks.
- 0-45° bevel tilt enhances the versatility of the saw.
- Includes a safety switch with overload protection and an auto-debris collection system, which collects chippings automatically.
- Heavy-duty and extremely portable.
- Features an easily adjustable depth of cut, plus a clear visibility panel to aid accurate cutting.
- Cut Steel, Stainless Steel, Aluminium and Wood with the optional blades available!

|                          |                       |
|--------------------------|-----------------------|
| Motor (240V 50Hz):       | 1750W                 |
| Speed No Load:           | 2700 rpm              |
| Max. Bevel (Left):       | 45°                   |
| Blade Dia.:              | 230mm                 |
| No. of Teeth:            | 48                    |
| Max. Depth of Cut (0°):  | 83mm                  |
| Max. Depth of Cut (45°): | 54mm                  |
| Mild Steel Plate         | 12mm                  |
| Mild Steel Box Section   | 6mm                   |
| Product Dimensions:      | 510mm x 460mm x 340mm |
| Packaging Dimensions:    | 540mm x 410mm x 300mm |
| Product Weight:          | 8.6 kg                |



## S355CPS-355MM CHOP SAW

### With Mild Steel Cutting TCT Blade

- Heavy-duty cast Aluminum base with integrated wear plate & bench mounting holes.
- Quick-release vice with robust square-threaded rod for fast & secure clamping.
- Accurate & durable cast steel vice with 0° - 45° miter capacity & locking pin.
- Compact design with a head lock down pin & carry handle for easy transportation.
- Chip collection tray for a cleaner, safer working environment.
- Ergonomic, ambidextrous trigger with comfortable textured grip.
- Attachable 'v' shape block included for secure clamping of round & square tube.
- Easy blade change with integrated tool storage.

|                                        |                   |
|----------------------------------------|-------------------|
| Motor (240V 50Hz):                     | 2200W             |
| Speed No Load:                         | 1550 rpm          |
| Max. Bevel (Left):                     | 45°               |
| Cable Length:                          | 3m                |
| Blade Dia.:                            | 355mm             |
| No. of Teeth:                          | 66                |
| Bore:                                  | 25.4mm / 1 in.    |
| Kerf:                                  | 2.4mm             |
| Mild Steel Plate (Max Thickness):      | 6mm               |
| Stainless Steel Plate (Max Thickness): | 5mm               |
| Square Tube at 90° (Mild Steel):       | 120 x 120mm       |
| Square Tube at 45° (Mild Steel):       | 89 x 89mm         |
| Rectangle Tube at 90° (Mild Steel):    | 95 x 180mm        |
| Rectangle Tube at 45° (Mild Steel):    | 78 x 110mm        |
| Round Tube at 90° (Mild Steel):        | Ø 130mm           |
| Round Tube at 45° (Mild Steel):        | Ø 105mm           |
| Minimum Cut Off Piece Length:          | 8 mm              |
| Packaging Dimensions:                  | 470 x 575 x 374mm |
| Product Dimensions:                    | 410 x 530 x 310mm |
| Product Weight:                        | 23.1 kg           |
| Packaged Weight:                       | 27 kg             |



# TCT BLADES (TUNGSTON CARBIDE TIP)



230mm Mild Steel Blade 48T



230mm Aluminum Blade 80T



230mm Stainless Steel Blade 60T



230mm Wood Cutting  
Blade 40T



355mm Mildsteel Cutting  
Blade 60T



355mm Thin Steel Cutting  
Blade 90T



355mm Aluminum  
Cutting Blade 80T



355mm Stainless cutting  
Blade 90T



355mm Multi Material  
Cutting Blade 36T



355mm Diamond Cutting  
Blade



# MAGDRILL

## CR35

The CR35 delivers unbeatable value. It's powerful, robust and versatile. Perfect for on-site or workshop single speed drilling.

### SPECIFICATIONS:

|                      |            |
|----------------------|------------|
| CUTTER CAPACITY      | 35MM       |
| DEPTH OF CUT         | 50MM       |
| DRILL CHUCK CAPACITY | 13MM       |
| NO LOAD SPEED        | 850RPM     |
| MOTOR SPECIFICATION  | 1050W      |
| MAGNET ADHESION      | 8000N      |
| LENGTH               | 245MM      |
| HEIGHT               | 435MM      |
| WIDTH                | 155MM      |
| MAGNET SIZE          | 160 X 80MM |
| WEIGHT               | 12KG       |
| MOTOR                | 230V       |
| STROKE               | 105MM      |



# MAGDRILL

## E50

Versatile machine, equipped with two geared speeds, to offer optimum speed for your cutting diameter. A forward and reverse variant is available for tapping, reference E50FR.

### SPECIFICATIONS:

|                      |               |
|----------------------|---------------|
| CUTTER CAPACITY      | 50MM          |
| DEPTH OF CUT         | 50MM          |
| DRILL CHUCK CAPACITY | 13MM          |
| MORSE TAPER          | MT2           |
| NO LOAD SPEED        | 250 - 460 RPM |
| MOTOR SPECIFICATION  | 1100W         |
| MAGNET ADHESION      | 9300N         |
| LENGTH               | 275MM         |
| HEIGHT               | 575MM         |
| WIDTH                | 235MM         |
| MAGNET SIZE          | 180 X 100MM   |
| WEIGHT               | 19KG          |
| MOTOR                | 110/230V      |
| STROKE               | 106MM         |





### ANGLE GRINDERS 115MM

**W 850-115**  
603607010



Rated input power: 850 W  
Torque: 2 Nm

**W 9-115**  
600354010



Rated input power: 900 W  
Torque: 2.5 Nm

**WP 11-115 QUICK**  
603621000

DEADMAN SWITCH



Rated input power: 1100 W  
Torque: 3.2 Nm

**WQ 1100-125 QUICK**  
610035010



Rated input power: 1100 W  
Torque: 3.5 Nm

**WP 13-125 QUICK**  
603629000

DEADMAN SWITCH



Rated input power: 1350 W  
Torque: 3.4 Nm

**WEP 17-125 QUICK**  
600547000

DEADMAN SWITCH



Rated input power: 1700 W  
Torque: 3.7 Nm

### ANGLE GRINDERS 125MM

### ANGLE GRINDERS 150 - 180MM

**WEPBA 17-150 QUICK**  
600552000

DEADMAN SWITCH



Rated input power: 1700 W  
Torque: 4.3 Nm

**W 24-180 MVT**  
606466000



Rated input power: 2400 W  
Torque: 14 Nm

**W 2200-230**  
606435010



Rated input power: 2200 W  
Torque: 13.5 Nm

**W 26-230 MVT**  
606474000



Rated input power: 2600 W  
Torque: 18 Nm

**WEPBA 26-230 MVT**  
606482000

DEADMAN SWITCH



Rated input power: 2600 W  
Torque: 18 Nm

### ANGLE GRINDERS 230MM



## IMPACT DRILLS



**SBE 760**  
600841500

Rated input power: 760 W  
Maximum torque: 24 / 9 Nm



**SBE 780-2**  
600781500

Rated input power: 780 W  
Maximum torque: 32 / 13 Nm



**SBEV 1300-2**  
600785000

Rated input power: 1300 W  
Maximum torque: 44 / 16 Nm

## SDS-plus Rotary Hammers



**KHE 2444**  
606154000

Rated input power: 800 W  
Max. Single blow energy: 2.3 J  
Drill-Ø concrete with  
hammer drills: 24 mm



**KHE 2860 QUICK**  
600878500

Rated input power: 880 W  
Max. single blow energy: 3.2 J  
Drill-Ø concrete with  
hammer drills: 28 mm



**UHEV 2860-2 QUICK**  
600713500

Rated input power: 1100 W  
Max. single blow energy: 3.4 J  
Drill-Ø concrete with  
hammer drills: 28 mm

## The New SDS-Max Hammers

**BRUSHLESS**

### 40 mm SDS-Max Demolition/ Chipping Hammer

KHEV 5-40BL  
600765500

Rated input power: 1150 W  
Max. Single blow energy: 8.7 J



### 52 mm SDS-Max Demolition/ Chipping Hammer

KHEV 11-52BL  
600767500

Rated input power: 1500 W  
Max. Single blow energy: 18.8 J



### SDS-Max Chipping Hammer

MHEV 5 BL  
600769500

Rated input power: 1150 W  
Max. Single blow energy: 8.7 J



### SDS-Max Chipping Hammer

MHEV 11 BL  
600770500

Rated input power: 1500 W  
Max. Single blow energy: 18.8 J



## MAGNETIC CORE DRILL

**MAG 32**  
600635500

Rated input power: 1000 W  
Max. drill-Ø with core drill: 32 mm  
Max. drill-Ø with spiral drill: 13 mm  
Maximum drilling depth: 50 mm  
Bit retainer: Weldon shaft 19 mm



**MAG 50**  
600636500

Rated input power: 1200 W  
Max. drill-Ø with core drill: 50 mm  
Max. drill-Ø with spiral drill: 20 mm  
Maximum drilling depth: 50 mm  
Bit retainer: Weldon shaft 19 mm  
Reversible (Tapping mode)



**HSS CORE DRILL SET**  
**6 PIECES**  
626624000



Core drill bits Ø 14/16/18/20/22/26 mm





**Cordless Impact Drill**  
Sb18 LT  
602103840  
60 Nm | 0-450/1600 rpm



**Cordless Impact Drill**  
SB 18 LTX BL  
Impulse  
602382890  
120 Nm | 0-500/1850 rpm



**Cordless Impact Drill**  
SB 18 LTX BL  
Impulse Quick  
602353840  
120 Nm | 0-500/1850 rpm



**NEW**  
**Cordless Impact Drill**  
SB 18 LTX-3 BL  
Impulse Quick  
602357890  
120 Nm | 0-600/2050/3800 rpm



**Cordless Impact Drill**  
SB 18 LTX Impulse  
602192840  
110 Nm | 0-500/1700 rpm



**Cordless Combination Hammer**  
KHA 18 LTX BL 24 Quick  
600211840  
2.2 J | SDS-plus



**NEW**  
**Cordless Combination Hammer Quick Set ISA**  
KHA 18 LTX BL 24  
600211900  
2.2 J | SDS-plus



**Cordless Combination Hammer**  
KHA 36-18 LTX 32  
600796840  
3.1 J | SDS-plus



**Cordless Impact Wrench 1/2"**  
SSW 18 LTX 400 BL  
602305890  
400 Nm | 0-2150 rpm



**Cordless Impact Wrench 1/2"**  
SSW 18 LTX 600  
502198890  
600 Nm | 0-1500 rpm



**Cordless Drywall Screwdrivers**  
SE 18 LTX 4000  
620048890  
7 Nm | 0-4000 rpm



**Cordless Drywall Screwdrivers**  
SE 18 LTX 6000  
620049890  
5 Nm | 0-6000 rpm



**Cordless Jigsaw**  
STA 18 LTX 100  
601002840  
100 mm | 0-2800rpm



**Cordless Jigsaw**  
STAB 18 LTX 125 Quick  
603828840  
100 mm | 0-2800 rpm



**Cordless Mitre Saw**  
KGS 18 LTX 216  
619001850  
Ø 216 mm | 4200rpm



**Cordless Circular Saw**  
KS 18 LTX 57  
603828840  
57 mm | 0-4000 rpm



**NEW**  
**Cordless Metal Shears**  
SCV 18 LTX BL 1.5  
601615840  
0-1350/4840 rpm



**Cordless Angle Grinder**  
W 18 LTX 125 Quick  
602174840  
Ø 125 mm | 8000 rpm



**Cordless Angle Grinder**  
WPB 18 LTX BL 125 Quick  
613075840  
Ø 125 mm | 9000 rpm



**Cordless Angle Grinder**  
WPB 36-18 LTX BL 230  
613102840  
Ø 230 mm | 6600 rpm



**NEW**  
**Cordless Calking Gun**  
KPA 18 LTX 600  
601207850  
1-10 mm | 7259 N



**NEW**  
**Cordless Metal Cutting Circular Saw**  
MKS 18 LTX 58  
600771840  
58 mm | 3600 rpm



**NEW**  
**Cordless Stirrer**  
RW 18 LTX 120  
601163850  
0-750 rpm



**Cordless Multi Tool**  
MT 18 LTX  
613021890  
7000-18 000 rpm



**Cordless Blower**  
AG 18  
602242850  
74m/s



**NEW**  
**Cordless Vacuum Cleaner**  
AS 18 LPC  
602021850  
7.5 l | 2100 l/min



**Cordless Worksite Radio**  
R 12-18 BT  
600777850  
Bluetooth Enabled



**Cordless Compressor**  
Power 160-5 18 LTX BL OF  
601521850  
8 Bar max

## ACCESSORIES



**SDS-plus drill/ chisel set "SP", 17 pieces, in aluminum carry case (628414000)**

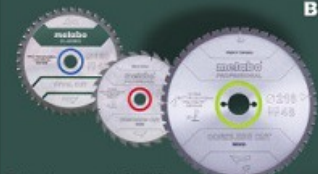
Ø 5, 6, 8, 10 L=110 mm / Ø 6, 8, 10, 12 L=160 mm / Ø 8, 10 L=cc210mm / Ø 12, 14 L=260mm / Pointed Chisel L=140mm, L=250mm / Flat Chisel 20x140mm

**Socket wrench set 1/2" impact-proof (628831000)**

Consisting of 10 socket wrenches (10, 11, 12, 13, 15, 17, 19, 21, 22, 24 mm)



## Metabo CIRCULAR SAW BLADES



**Starter set Ø 76 mm (626879000)**

Cutting disc, Grinding disc, Combinator, Diamond cutting disc

Universal professional



**Tiler's set, 4 pieces (626419000)**

Carbide segment saw blade 85 mm (tiles), Carbide triangular sanding pad 78 mm (tiles), Scraper rigid 52 mm HCS, Plunge saw blade 32 mm BiM (metal)



**LPZ 4 Set (601585000) Air Tool Sets**

Blow gun  
PA spiral hose (4.9 m) , EURO Plug-in nipple 1/4", Tyre inflation & pressure gauge  
Paint spray gun, EURO Plug-in nipple 1/4"







### IMPACT WRENCH BSC-GDX180-LI

Cordless 180nm  
Reversible Electronic  
Control 18v  
M14 Screw Diameter  
1/4"Hex And 1/2"Drive  
Square



### IMPACT WRENCH BSC-GDS250LI

Cordless 250nm  
Reverseable  
Electronic Control  
18v M18 Screw Diameter  
1/2"Drive Square



### ANGLE GRINDER BSC-GWS700

Electric  
115mm  
12 000 Rpm  
710w



### ANGLE GRINDER BSC-GWS9-115

Electric  
115mm  
11 000 Rpm  
900w



### ANGLE GRINDER BSC-GWS9-115P

Electric  
115mm  
11 000 Rpm  
900w Paddle Switch



### ANGLE GRINDER BSC-GWS15-125CIEP

Electric  
125mm  
11 500 Rpm 1  
500w Constant Speed Soft Start  
Electronic Speed Selection



### ANGLE GRINDER BSC-GWS15-150CIP

Electric  
150mm  
9 300 Rpm  
1500w Constant  
Speed Soft Start



### ANGLE GRINDER BSC-GWS2200

Electric  
230mm  
6 500rpm  
2200w



### ANGLE GRINDER BSC-GWS24-230H

Electric  
230mm  
6 500rpm  
2400w



### ANGLE GRINDER BSC-GWS26-230B

Electric  
230mm  
6 500rpm  
2500w



### ANGLE GRINDER BSC-GWS850C

Electric  
115mm  
11 000 Rpm  
850w



### DIE/PENCIL/STRAIGHT GRINDER BSC-GGS28LP

Electric  
30 000rpm  
500w  
6mm  
Collet Long Neck







## DIE/PENCIL/STRAIGHT GRINDER BSC-GGS28LCE



Electric  
10 - 30 000rpm  
Electronic Speed Control  
650w  
6mm Collet Long Neck



## DIE/PENCIL/STRAIGHT GRINDER BSC-GGS28LC



Electric  
30 000rpm  
Constant Speed Soft Start  
650w  
6mm Collet Long Neck



## DIE/PENCIL/STRAIGHT GRINDER BSC-GGS28C



Electric  
30 000rpm  
600w  
6mm Collet  
Short Neck



## ANGLE GRINDER BSC-GWS180-LI



Cordless  
115mm  
11 000 Rpm  
2 X 4.0ah Batteries  
18v Brushless Motor



## ORBITAL SANDER BSC-GSS2300



Electric  
92x182mm  
24 000  
Opm  
190w



## SANDER BELT BSC-GS75AE



Electric  
75mm  
200-330 M/Min  
750w  
75x533 Belt Sizes



## SABRE SAW BSC-GSA1300



Electric 28mm  
Stroke 1300w  
230mm  
Wood  
20mm Metal



## CIRCULAR SAW BSC-GSK190



Electric  
190mm  
5 500rpm  
1400w



## JIG SAW BSC-GST650



Electric  
3 100 Spm  
Variable Speed  
450w  
65mm Wood  
3mm Steel



## ELECTRIC BLOWER BSC-GBL620



16 000RPM  
620W

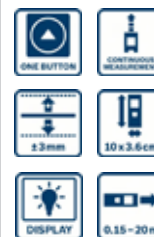
## ELECTRIC ENGRAVER BSC-DREMEL290-1



35w Dremel

## LASER MEASURE BSC-GLM20

20m Distance  
Measure  
1mw 3 X Aaa  
1.5a Batteries



## LASER MEASURE BSC-GLM80

80m Distance  
Measure  
1mw 3.7v L-Ion  
Batteries







# AIRBOSS

## Impact Wrench



AB-190P  
1/2"



AB-3000P  
3/4"



AB-3000GS  
3/4"



AB-4002GL  
1"



AB-4002GS  
1"



AB-5500GS  
1 1/2"

Higher Torque Models Available on Request

| ITEM CODE | MODEL            | BOLT CAPACITY (MM) | CLUTCH MECHANISM | FREE SPEED (R.P.M.) | SUITABLE TORQUE (FT-LB / N.M) | MAX TORQUE (FT-LB / N.M) | OVERALL LENGTH (MM) | NET WEIGHT (LBS / KG) | AIR CONSUMPTION (M <sup>3</sup> / MIN) | AIR INLET (PT/NPT/ PF) | AIR PRESSURE (KG / CM <sup>2</sup> ) |
|-----------|------------------|--------------------|------------------|---------------------|-------------------------------|--------------------------|---------------------|-----------------------|----------------------------------------|------------------------|--------------------------------------|
| AB-190P   | AB-190P 1/2"     | 19                 | TWIN HAMMER      | 7,400               | 27-387 / 36-525               | 627 / 850                | 145                 | 4.8 / 2.2             | 0.3                                    | 1/4"                   | 6.3                                  |
| AB-3000P  | AB-3000P 3/4"    | 30                 | NEW TWIN HAMMER  | 4,800               | 332-885 / 450-1200            | 1253 / 1700              | 253                 | 12.1 / 5.5            | 0.5                                    | 3/8"                   | 6.3                                  |
| AB-3000GS | AB-3000GS 3/4"   | 30                 | NEW TWIN HAMMER  | 4,500               | 369-959 / 500-1300            | 1328 / 1800              | 308                 | 11.5 / 5.2            | 0.5                                    | 1/2"                   | 6.3                                  |
| AB-4002GL | AB-4002GL 1"     | 40                 | SWING HAMMER     | 4,200               | 649 - 1416 / 880 - 1920       | 1771 / 2400              | 530                 | 24.4 / 11.1           | 0.6                                    | 1/2"                   | 6.3                                  |
| AB-4002GS | AB-4002GS 1"     | 40                 | SWING HAMMER     | 4,200               | 649 - 1416 / 880 - 1920       | 1771 / 2400              | 403                 | 22.5 / 10.2           | 0.6                                    | 1/2"                   | 6.3                                  |
| AB-5500GS | AB-5500GS 1 1/2" | 55                 | NEW TWIN HAMMER  | 3,000               | 1180-1948 / 1600-2640         | 2508 / 3400              | 442                 | 35.6 / 16.2           | 0.6                                    | 1/2"                   | 6.3                                  |

## IMPACT SOCKETS – (CR-MO)

**Ps. Cr-Mo** is a heat-hardened steel alloy, with the inclusion of molybdenum that gives the alloy a property of toughness and flexibility. **Cr-Mo** will absorb percussive impact better than **Cr-V** without being brittle. Over time **Cr-Mo** sockets may stretch and lose their shape, but they are less likely to shatter and cause injury.

### 3/4" DRIVE

|             |                                       |
|-------------|---------------------------------------|
| IMP-SOC3417 | IMPACT SOCKET 3/4" DRIVE 17MM (CR-MO) |
| IMP-SOC3418 | IMPACT SOCKET 3/4" DRIVE 18MM (CR-MO) |
| IMP-SOC3419 | IMPACT SOCKET 3/4" DRIVE 19MM (CR-MO) |
| IMP-SOC3420 | IMPACT SOCKET 3/4" DRIVE 20MM (CR-MO) |
| IMP-SOC3421 | IMPACT SOCKET 3/4" DRIVE 21MM (CR-MO) |
| IMP-SOC3422 | IMPACT SOCKET 3/4" DRIVE 22MM (CR-MO) |
| IMP-SOC3423 | IMPACT SOCKET 3/4" DRIVE 23MM (CR-MO) |
| IMP-SOC3424 | IMPACT SOCKET 3/4" DRIVE 24MM (CR-MO) |
| IMP-SOC3425 | IMPACT SOCKET 3/4" DRIVE 25MM (CR-MO) |
| IMP-SOC3426 | IMPACT SOCKET 3/4" DRIVE 26MM (CR-MO) |
| IMP-SOC3427 | IMPACT SOCKET 3/4" DRIVE 27MM (CR-MO) |
| IMP-SOC3428 | IMPACT SOCKET 3/4" DRIVE 28MM (CR-MO) |
| IMP-SOC3429 | IMPACT SOCKET 3/4" DRIVE 29MM (CR-MO) |
| IMP-SOC3430 | IMPACT SOCKET 3/4" DRIVE 30MM (CR-MO) |
| IMP-SOC3432 | IMPACT SOCKET 3/4" DRIVE 32MM (CR-MO) |
| IMP-SOC3433 | IMPACT SOCKET 3/4" DRIVE 33MM (CR-MO) |
| IMP-SOC3434 | IMPACT SOCKET 3/4" DRIVE 34MM (CR-MO) |
| IMP-SOC3435 | IMPACT SOCKET 3/4" DRIVE 35MM (CR-MO) |
| IMP-SOC3436 | IMPACT SOCKET 3/4" DRIVE 36MM (CR-MO) |
| IMP-SOC3437 | IMPACT SOCKET 3/4" DRIVE 37MM (CR-MO) |
| IMP-SOC3438 | IMPACT SOCKET 3/4" DRIVE 38MM (CR-MO) |
| IMP-SOC3440 | IMPACT SOCKET 3/4" DRIVE 40MM (CR-MO) |
| IMP-SOC3441 | IMPACT SOCKET 3/4" DRIVE 41MM (CR-MO) |
| IMP-SOC3442 | IMPACT SOCKET 3/4" DRIVE 42MM (CR-MO) |
| IMP-SOC3444 | IMPACT SOCKET 3/4" DRIVE 44MM (CR-MO) |
| IMP-SOC3446 | IMPACT SOCKET 3/4" DRIVE 46MM (CR-MO) |
| IMP-SOC3448 | IMPACT SOCKET 3/4" DRIVE 48MM (CR-MO) |
| IMP-SOC3450 | IMPACT SOCKET 3/4" DRIVE 50MM (CR-MO) |
| IMP-SOC3454 | IMPACT SOCKET 3/4" DRIVE 54MM (CR-MO) |
| IMP-SOC3455 | IMPACT SOCKET 3/4" DRIVE 55MM (CR-MO) |
| IMP-SOC3460 | IMPACT SOCKET 3/4" DRIVE 60MM (CR-MO) |



### 1" DRIVE

|            |                             |
|------------|-----------------------------|
| IMP-SOC124 | IMPACT SOCKET 1" DRIVE 24MM |
| IMP-SOC127 | IMPACT SOCKET 1" DRIVE 27MM |
| IMP-SOC130 | IMPACT SOCKET 1" DRIVE 30MM |
| IMP-SOC132 | IMPACT SOCKET 1" DRIVE 32MM |
| IMP-SOC136 | IMPACT SOCKET 1" DRIVE 36MM |
| IMP-SOC140 | IMPACT SOCKET 1" DRIVE 40MM |
| IMP-SOC141 | IMPACT SOCKET 1" DRIVE 41MM |
| IMP-SOC142 | IMPACT SOCKET 1" DRIVE 42MM |
| IMP-SOC146 | IMPACT SOCKET 1" DRIVE 46MM |
| IMP-SOC148 | IMPACT SOCKET 1" DRIVE 48MM |
| IMP-SOC150 | IMPACT SOCKET 1" DRIVE 50MM |
| IMP-SOC152 | IMPACT SOCKET 1" DRIVE 52MM |
| IMP-SOC155 | IMPACT SOCKET 1" DRIVE 55MM |
| IMP-SOC160 | IMPACT SOCKET 1" DRIVE 60MM |
| IMP-SOC165 | IMPACT SOCKET 1" DRIVE 65MM |
| IMP-SOC170 | IMPACT SOCKET 1" DRIVE 70MM |

### 1 1/2" DRIVE

|               |                                  |
|---------------|----------------------------------|
| IMP-SOC11232  | IMPACT SOCKET 1 1/2" DRIVE 32MM  |
| IMP-SOC11235  | IMPACT SOCKET 1 1/2" DRIVE 35MM  |
| IMP-SOC11236  | IMPACT SOCKET 1 1/2" DRIVE 36MM  |
| IMP-SOC11238  | IMPACT SOCKET 1 1/2" DRIVE 38MM  |
| IMP-SOC11241  | IMPACT SOCKET 1 1/2" DRIVE 41MM  |
| IMP-SOC11242  | IMPACT SOCKET 1 1/2" DRIVE 42MM  |
| IMP-SOC11246  | IMPACT SOCKET 1 1/2" DRIVE 46MM  |
| IMP-SOC11248  | IMPACT SOCKET 1 1/2" DRIVE 48MM  |
| IMP-SOC11250  | IMPACT SOCKET 1 1/2" DRIVE 50MM  |
| IMP-SOC11252  | IMPACT SOCKET 1 1/2" DRIVE 52MM  |
| IMP-SOC11254  | IMPACT SOCKET 1 1/2" DRIVE 54MM  |
| IMP-SOC11255  | IMPACT SOCKET 1 1/2" DRIVE 55MM  |
| IMP-SOC11256  | IMPACT SOCKET 1 1/2" DRIVE 56MM  |
| IMP-SOC11258  | IMPACT SOCKET 1 1/2" DRIVE 58MM  |
| IMP-SOC11260  | IMPACT SOCKET 1 1/2" DRIVE 60MM  |
| IMP-SOC11265  | IMPACT SOCKET 1 1/2" DRIVE 65MM  |
| IMP-SOC11270  | IMPACT SOCKET 1 1/2" DRIVE 70MM  |
| IMP-SOC11275  | IMPACT SOCKET 1 1/2" DRIVE 75MM  |
| IMP-SOC11280  | IMPACT SOCKET 1 1/2" DRIVE 80MM  |
| IMP-SOC11285  | IMPACT SOCKET 1 1/2" DRIVE 85MM  |
| IMP-SOC11290  | IMPACT SOCKET 1 1/2" DRIVE 90MM  |
| IMP-SOC11295  | IMPACT SOCKET 1 1/2" DRIVE 95MM  |
| IMP-SOC112100 | IMPACT SOCKET 1 1/2" DRIVE 100MM |
| IMP-SOC112105 | IMPACT SOCKET 1 1/2" DRIVE 105MM |
| IMP-SOC112110 | IMPACT SOCKET 1 1/2" DRIVE 110MM |
| IMP-SOC112115 | IMPACT SOCKET 1 1/2" DRIVE 115MM |
| IMP-SOC112120 | IMPACT SOCKET 1 1/2" DRIVE 120MM |



| SIZE & TYPE          | 4" ANGLE GRINDER | 9" ANGLE GRINDER | 6" STRAIGHT GRINDER |
|----------------------|------------------|------------------|---------------------|
| MAKE                 | GISON            | GISON            | SUMAKE              |
| MODEL                | GP832LS          | GP918            | ST7680L             |
| SPINDLE THREAD       | 3/8"             | 5/8"             | 5/8"                |
| MAX SPEED            | 12000RPM         | 5800RPM          | 6300RPM             |
| WEIGHT               | 1.69KG           | 4.97KG           | 2.0KG               |
| AIR CONSUMPTION MAX. | 15.89CFM         | 26.83CFM         | 24 CFM              |
| AIR INLET            | 1/4"             | 1/2"             | 3/8"                |
| OVER SPEED GOVERNOR  | YES              | YES              | NO                  |
| ITEM CODE            | ABG-GP832LS      | AAG-GP918        | AGS-S77680L         |



| SIZE & TYPE          | 1/4" DIE GRINDER | 1/2" REVERSABLE DRILL | NEEDLE DE-SCALER |
|----------------------|------------------|-----------------------|------------------|
| MAKE                 | SUMAKE           | SUMAKE                | SUMAKE           |
| MODEL                | ST-7733LM        | ST-4444A              | ST-2553          |
| SPINDLE THREAD       | 3/8"             | 5/8"                  | N/A              |
| MAX SPEED            | 25000RPM         | 800RPM                | N/A              |
| IMPACT PER MIN.      | N/A              | N/A                   | 3800BPM          |
| WEIGHT               | 0.64KG           | 1.82KG                | 3.5KG            |
| AIR CONSUMPTION MAX. | 4.0CFM           | 17.0CFM               | 6.2CFM           |
| AIR INLET            | 1/4"             | 1/2"                  | 3/8"             |
| ITEM CODE            | ADG-ST7733LM     | ADR-ST4444A           | AND-N-ST2553     |



| SIZE & TYPE          | 1/2" DRIVE AIR RATCHET | AIR STRIPPER (BRISTOL BLASTER TYPE) | AIR CHIPPING HAMMER |
|----------------------|------------------------|-------------------------------------|---------------------|
| MAKE                 | SUMAKE                 | SUMAKE                              | SUMAKE              |
| MODEL                | ST-55521               | ST-66342W                           | ST-2202H            |
| BOLT SIZE MAX        | 3/8" /M10              | N/A                                 | N/A                 |
| FREE SPEED           | 280RPM                 | 4090 RPM                            | N/A                 |
| TORQUE               | 108 NM                 | N/A                                 | N/A                 |
| BLOW PER MINUTE      | N/A                    | N/A                                 | 2150 BPM            |
| WEIGHT               | 1.24KG                 | 2.47KG                              | 15.87KG             |
| AIR CONSUMPTION MAX. | 14.0 CFM               | 3.6 CFM                             | 21.0CFM             |
| AIR INLET            | 1/4"                   | 1/2"                                | 3/8"                |
| CHISEL SHANK SIZE    | N/A                    | N/A                                 | HEX 14.7MM          |
| ITEM CODE            | ARW-ST55531            | AST-ST66342W                        | ST 2202H            |



**ST-2060/HA04 - Hex (14.7mm) - 10" x 50mm Oval Chisel**

**ST-2060/HA03 - Hex (14.7mm) - 10" x 30mm Oval Chisel**

**ST-2060/HA02 - Hex (14.7mm) - 10" X 20mm Oval Chisel**

**ST-2060/HA01 - HEX (14.7mm)**





088 ABRASIVES/BURRS & CUTTERS



# HIGH PERFORMANCE INDUSTRIAL ABRASIVES



TC Burrs

- Range of material specific solutions
- Maximum stock removal rate due to high aggressiveness
- Reduced vibration and improved comfort
- Various industry required shapes and sizes



Mounted points

- Broad range of grain types, grit sizes, hardness grades and shapes
- Material specific solutions
- Available in sets and individual packages



POLIFAN flap discs

- High stock removal rate and long tool life
- High grade coated abrasive ensuring maximum performance
- Wide range for use on numerous materials including Stainless Steel, Steel and Aluminium

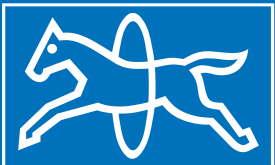


Industrial power brushes

- Wide product range with different sizes, forms and filaments
- High stock removal rate and long tool life
- Unique COMBITWIST design for maximum performance and service life

TRUST BLUE

**PFERD**



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QUALITY AND SAFETY**

All PFERD products are manufactured to achieve:

- Maximum operator safety and comfort
- Unsurpassed performance
- Superior process optimisation and cost efficiency

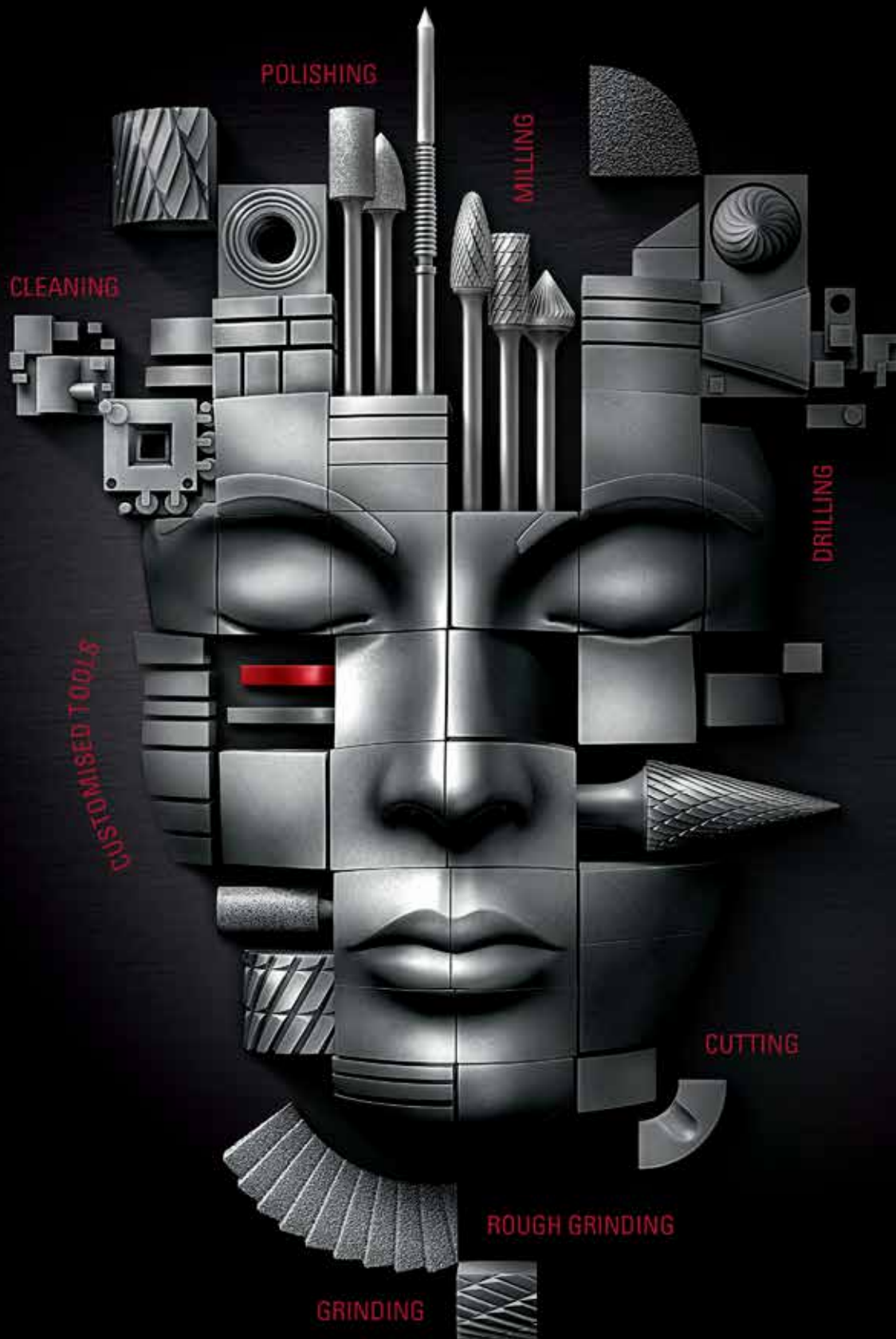
Tel: 011 230 4000

E-mail: [info@pferd.co.za](mailto:info@pferd.co.za)



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the PFERD  
Tool Manual







## Mounted Points

### Ruby (EKD)

|                         |       |                             |         |       |       |                   |                                          |             |       |                      |       |
|-------------------------|-------|-----------------------------|---------|-------|-------|-------------------|------------------------------------------|-------------|-------|----------------------|-------|
|                         |       |                             |         |       |       |                   |                                          |             |       |                      |       |
| A1                      | A2    | A3                          | A3 Mini | A4    | A6    | A11               | A12                                      | A13         | A14   | A15                  | A21   |
| 22X63                   | 25X32 | 25X70                       | 16X45   | 32X32 | 20X28 | 22X50             | 18X32                                    | 28X28       | 18X22 | 7x25                 | 25X25 |
|                         |       |                             |         |       |       |                   | Various Sizes available in the "W" Shape |             |       | Ceramic - W198       |       |
| A24                     | A25   | A26                         | A31     | A33   | A36   | A37               |                                          |             |       | 16x32                |       |
| 6X20                    | 25X25 | 16X16                       | 35X25   | 25X12 | 40X10 | 32X6              |                                          |             |       | Cones (14mm or 5/8") |       |
| SIC ALU (For Aluminium) |       | Various Qualities Available |         |       |       | Set               |                                          | White (EKW) |       |                      |       |
|                         |       |                             |         |       |       |                   |                                          |             |       |                      |       |
| W204                    | W207  | HOK, HK, NK-BA, Pink        |         |       |       | 28 Piece Ruby Set |                                          | A36         | A37   | TB40                 | TB50  |
| 20x20                   | 20x40 |                             |         |       |       | 3mm x 6mm         |                                          | 40x10       | 36x6  | 40x70                | 50x80 |

## Polishing Points & Felt Points

### Groups P1, P2, P3, P5

### P6

|       |       |       |             |                 |                |
|-------|-------|-------|-------------|-----------------|----------------|
|       |       |       |             |                 |                |
| Red   | Brown | Green | H3          | H3              | Marbling Point |
| 120 # | 220 # | 280#  | Cylindrical | Arch Point Nose | 50x40 SC46 MWP |

## Technical Brushes

|                     |               |                         |                     |               |           |
|---------------------|---------------|-------------------------|---------------------|---------------|-----------|
| Cup Brushes         | Wheel Brushes | Pencil & Pointed Pencil | Cylindrical Brushes | Bevel Brushes | Hand Held |
| Crimped or Knotted  | Crimped       | Cupped Brushes          |                     | Knotted       | Brush     |
| Steel or Inox       | Steel or Inox | Steel or Inox           | Steel or Inox       | Steel or Inox | Steel     |
|                     |               |                         |                     |               |           |
| 65 mm x M14         | 150x18x32     | 12 x 6 mm               | 30x6                | 115mm x M14   | 4 Row     |
| 80 mm x M14         | 150x25x32     | 22 x 6 mm               | 40x10               |               |           |
| 100 mm x M14        | 200x20x32     | 50 x 6 mm               | 50x12               |               |           |
| 120 mm x M14        | 200x25x32     | 65 x 6 mm               | 70x12               |               |           |
| 140 mm x M14 & 5/8" | 250x25x32     | 75 x 6 mm               | 70x16               |               |           |
| 150 mm x M14 & 5/8" | 250x38x32     |                         |                     |               |           |





## Coated Abrasives

### Lamellar Flap Discs

| SLTT Inox         | SLTT Steel       | V2 Power Inox      | V2 Power Steel | V2 Power Alu     | V4 Master     |
|-------------------|------------------|--------------------|----------------|------------------|---------------|
|                   |                  |                    |                |                  |               |
| 115 ZK40          | 115 ZK40,ZK60    | 178 ZK40,ZK60      | 115 ZK40,ZK60  | 115 SIC40        | 115 ZK40,ZK60 |
| 178 ZK40          | 125 ZK40,ZK60    | 230 ZK40,ZK60      | 125 ZK40       | 178 SIC24, SIC36 |               |
|                   | 150 ZK40         |                    |                |                  |               |
|                   | 178 ZK40,ZK60    |                    |                |                  |               |
| SLT Flex          | SLTR             | PRO-X              | ASVT           | SLTP             | SLTV          |
|                   |                  |                    |                |                  |               |
| 115XM14 ZK40,ZK60 | 100 ZK40 - ZK120 | 115 ZK40,ZK60,ZK80 | 115 Coarse     | 115 Soft         | 115 A104      |
|                   | 115 ZK40 - ZK120 |                    |                | 115 Medium       | 115 A106      |
|                   | 178 ZK40 - ZK120 |                    |                |                  |               |

### Mounted Flap Wheels

| Abrasive Cloth      | Abrasive Fleece  | Fleece & Abrasive Cloth | Abrasive Cloth      | Abrasive Fleece      | LSL for Angle Grinder |
|---------------------|------------------|-------------------------|---------------------|----------------------|-----------------------|
| SFL                 | SFM              | SFM                     | LSL                 | LSV                  | LSL                   |
|                     |                  |                         |                     |                      |                       |
| 20x10, 20x15, 20x20 | 40x20 A104, A106 | 80x50 Coarse            | 150X25X25/150X50X25 | 150x25x25 A106       | 125x20 M14            |
| 25x15               | 40x30 A107       | A104/80 #               | 200X25X25/200X50X25 | 150x50x25 A106, A107 | Grits 40,60,80,120    |
| 30x10, 30x15, 30x20 | 50x30 A106       |                         | Grits 60-240        |                      |                       |
| 40x10, 40x15, 40x20 | 80x50 A104-A107  |                         |                     |                      |                       |
| 40x25,40x40         |                  |                         |                     |                      |                       |
| 50x10, 50x15, 50x20 |                  |                         |                     |                      |                       |
| 50x30, 50x40        |                  |                         |                     |                      |                       |
| 60x15, 60x20, 60x30 |                  |                         |                     |                      |                       |
| 60x40, 60x50        |                  |                         |                     |                      |                       |
| 80x20, 80x30, 80x50 |                  |                         |                     |                      |                       |
| Grit 40 - 240       |                  |                         |                     |                      |                       |

### Surface Conditioning Rolls

| Abrasive Cloth | Abrasive Fleece  | Abrasive Fleece & Cloth |
|----------------|------------------|-------------------------|
| LWL            | LWV              | LWM                     |
|                |                  |                         |
| 100x100x19 #80 | 100x100x19       | 100x100x19 A104/80      |
|                | A104, A106, A107 | 100x100x19 A106/150     |





## Tungsten Carbide Burrs

### Shapes

| A       | B       | C       | D       | E       | F       | G       | H       | L       | M       | M               | N       |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----------------|---------|
|         |         |         |         |         |         |         |         |         |         |                 |         |
| A031203 | B031203 | C020603 | D030303 | E030603 | F031203 | G031203 | H082006 | L031203 | M031203 | M100806<br>-90° | N060606 |
| A061203 | B061606 | C031203 | D040403 | E061006 | F061203 | G031206 | H123006 | L061606 | M031603 | M121006<br>-90° | N121206 |
| A061606 | B082006 | C061203 | D060603 | E101606 | F061606 | G061606 |         | L103006 | M031606 | M161206<br>-90° |         |
| A082006 | B102006 | C061606 | D060606 | E122206 | F102006 | G082006 |         | L123006 | M061606 | M101006<br>-60° |         |
| A102006 | B122506 | C082006 | D080806 | E162506 | F122506 | G102006 |         | L163006 | M102006 | M121206<br>-60° |         |
| A120606 | B162506 | C102006 | D101006 |         | F162506 | G122506 |         |         | M122506 | M161606<br>-60° |         |
| A122506 |         | C122506 | D121206 |         |         | G162506 |         |         |         |                 |         |
| A162506 |         | C162506 | D161606 |         |         |         |         |         |         |                 |         |

### Burrs for GRP & CRP

### Rotary Carbide Rasp

### Rotary Carbide Files

|                                |          |           |         |          |         |         |         |         |
|--------------------------------|----------|-----------|---------|----------|---------|---------|---------|---------|
|                                |          |           |         |          |         |         |         |         |
| 04= drill type, 120° tip angle |          |           |         |          |         |         |         |         |
| HFP                            | 06x30x06 | End Cut 4 | C122506 | 12x25x06 | ZR2 Cut | B061606 | C061606 | G123006 |
|                                |          |           |         |          |         | B122506 | C122506 |         |
|                                |          |           |         |          |         | ZF2 Cut | ZF2 Cut | ZF2 Cut |

### Tyre Burrs

|                                                                                     |                | Head Diameter | Head Length | Shank Diameter | Total Length |
|-------------------------------------------------------------------------------------|----------------|---------------|-------------|----------------|--------------|
|  | 3FT0690061024  | 5             | 50          | 6              | 90           |
|                                                                                     | 3FT08100081024 | 7             | 50          | 8              | 100          |
|                                                                                     | 3FT09110061024 | 9             | 40          | 10             | 110          |
|                                                                                     | 3FT10110061024 | 11            | 50          | 10             | 110          |

### Burrs for Aluminium, Brass, Copper, (Soft Non-ferrous Metals), Wood, Rubber, Plastic

Available in all popular shapes and sizes.



### Sets

|               |                |                      |          |
|---------------|----------------|----------------------|----------|
|               |                |                      |          |
| 5 Piece (6mm) | 15 Piece (3mm) | 15 Piece (3mm & 6mm) | 28 Piece |

## DURA - CORE CUTTERS/BROACH CUTTERS



|           |                                               |
|-----------|-----------------------------------------------|
| CORE12L   | DURA ARC CORE/BROACH CUTTER 12MM X 50MM LONG  |
| CORE12S   | DURA ARC CORE/BROACH CUTTER 12MM X 25MM SHORT |
| CORE14L   | DURA ARC CORE/BROACH CUTTER 14MM X 50MM LONG  |
| CORE14S   | DURA ARC CORE/BROACH CUTTER 14MM X 25MM SHORT |
| CORE16L   | DURA ARC CORE/BROACH CUTTER 16MM X 50MM LONG  |
| CORE16S   | DURA ARC CORE/BROACH CUTTER 16MM X 25MM SHORT |
| CORE18L   | DURA ARC CORE/BROACH CUTTER 18MM X 50MM LONG  |
| CORE18S   | DURA ARC CORE/BROACH CUTTER 18MM X 25MM SHORT |
| CORE19L   | DURA ARC CORE/BROACH CUTTER 19MM X 50MM LONG  |
| CORE19S   | DURA ARC CORE/BROACH CUTTER 19MM X 25MM SHORT |
| CORE20L   | DURA ARC CORE/BROACH CUTTER 20MM X 50MM LONG  |
| CORE20S   | DURA ARC CORE/BROACH CUTTER 20MM X 25MM SHORT |
| CORE21L   | DURA ARC CORE/BROACH CUTTER 21MM X 50MM LONG  |
| CORE21S   | DURA ARC CORE/BROACH CUTTER 21MM X 25MM SHORT |
| CORE22L   | DURA ARC CORE/BROACH CUTTER 22MM X 50MM LONG  |
| CORE22S   | DURA ARC CORE/BROACH CUTTER 22MM X 25MM SHORT |
| CORE24L   | DURA ARC CORE/BROACH CUTTER 24MM X 50MM LONG  |
| CORE24S   | DURA ARC CORE/BROACH CUTTER 24MM X 25MM SHORT |
| CORE25S   | DURA ARC CORE/BROACH CUTTER 25MM X 25MM SHORT |
| CORE26S   | DURA ARC CORE/BROACH CUTTER 26MM X 25MM SHORT |
| CORE27L   | DURA ARC CORE/BROACH CUTTER 27MM X 50MM LONG  |
| CORE27S   | DURA ARC CORE/BROACH CUTTER 27MM X 25MM SHORT |
| CORE30L   | DURA ARC CORE/BROACH CUTTER 30MM X 50MM LONG  |
| CORE30S   | DURA ARC CORE/BROACH CUTTER 30MM X 25MM SHORT |
| CORE32L   | DURA ARC CORE/BROACH CUTTER 32MM X 50MM LONG  |
| CORE32S   | DURA ARC CORE/BROACH CUTTER 32MM X 25MM SHORT |
| CORE36L   | DURA ARC CORE/BROACH CUTTER 36MM X 50MM LONG  |
| CORE36S   | DURA ARC CORE/BROACH CUTTER 36MM X 25MM SHORT |
| CORE41L   | DURA ARC CORE/BROACH CUTTER 41MM X 50MM LONG  |
| CORE41S   | DURA ARC CORE/BROACH CUTTER 41MM X 25MM SHORT |
| CORE46L   | DURA ARC CORE/BROACH CUTTER 46MM X 50MM LONG  |
| CORE46S   | DURA ARC CORE/BROACH CUTTER 46MM X 25MM SHORT |
| CORE50L   | DURA ARC CORE/BROACH CUTTER 50MM X 50MM LONG  |
| CORE50S   | DURA ARC CORE/BROACH CUTTER 50MM X 25MM SHORT |
| CORE55L   | DURA ARC CORE/BROACH CUTTER 55MM X 50MM LONG  |
| CORE55S   | DURA ARC CORE/BROACH CUTTER 55MM X 25MM SHORT |
| CORE60L   | DURA ARC CORE/BROACH CUTTER 60MM X 50MM LONG  |
| CORE60S   | DURA ARC CORE/BROACH CUTTER 60MM X 25MM SHORT |
| CORE-PINL | DURA ARC CORE CUTTER PIN LONG                 |
| CORE-PINS | DURA ARC CORE CUTTER PIN SHORT                |

## TUNGSTEN BURRS

|             |                                                    |
|-------------|----------------------------------------------------|
| DUR-A061606 | DURA TC BURR A061606 STD CUT CYLINDRICAL           |
| DUR-A122506 | DURA TC BURR A122506 STD CUT CYLINDRICAL           |
| DUR-C102006 | DURA TC BURR C102006 STD CUT CYLINDRICAL BALL NOSE |
| DUR-C122506 | DURA TC BURR C122506 STD CUT CYLINDRICAL BALL NOSE |
| DUR-D121206 | DURA TC BURR D121206 STD CUT BALL                  |
| DUR-F122506 | DURA TC BURR F122506 STD CUT ROUND TREE            |
| DUR-G061606 | DURA TC BURR G061606 CHIPBREAK STD POINTED TREE    |
| DUR-G102006 | DURA TC BURR G102006 CHIPBREAK STD POINTED TREE    |
| DUR-G122506 | DURA TC BURR G122506 CHIPBREAK STD POINTED TREE    |
| DUR-G162506 | DURA TC BURR G162506 CHIPBREAK STD POINTED TREE    |
| DUR-L061606 | DURA TC BURR L061606 CHIPBREAK STD BALL NOSE CONE  |
| DUR-L061906 | DURA TC BURR L061906 CHIPBREAK STD BALL NOSE CONE  |
| DUR-L102506 | DURA TC BURR L102506 CHIPBREAK STD BALL NOSE CONE  |
| DUR-L103006 | DURA TC BURR L103006 CHIPBREAK STD BALL NOSE CONE  |
| DUR-L122506 | DURA TC BURR L122506 CHIPBREAK STD BALL NOSE CONE  |
| DUR-L123006 | DURA TC BURR L123006 CHIPBREAK STD BALL NOSE CONE  |
| DUR-L163006 | DURA TC BURR L163006 CHIPBREAK STD BALL NOSE CONE  |
| DUR-M122506 | DURA TC BURR M122506 CHIPBREAK STD CONE            |



# 095 HYDRAULIC TOOLS



# Hi-Force®

HYDRAULIC TOOLS



## CYLINDERS & SETS

The extensive range of Hi-Force hydraulic cylinders includes a wide choice of options related to capacity, stroke length, single or double acting operation, steel or aluminium construction, hollow piston centre hole and mechanical failsafe lock ring in designs.

## PUMPS

The Hi-Force range of manual and powered hydraulic pumps comprises models, with additional factory fitted options, of electric solenoid valves and 60 Hz motors, available to order. The range comprises of manual, battery, electric, air and petrol engine driven options.



## SYSTEM COMPONENTS



The Hi-Force range of system components is designed and manufactured to provide all the essential accessory items required to complete the required high pressure hydraulic system.



# Hi-Force® HYDRAULIC TOOLS



## TORQUE TOOLS

The extensive range of Hi-Force torque tools, includes manual, air and hydraulically driven tools, available in a wide variety of accurate and controlled, torque output capacities. The range offers a choice of tool options, suitable for use in almost every bolt torque tightening, or loosening application, that are regularly required in many industrial applications worldwide.

## BOLT TENSIONERS

The extensive range of Hi-Force hydraulic stud bolt tensioners, includes both spring assisted and manual piston retraction, topside tensioners, subsea tensioners, hydraulic tensioning nuts, special design tensioners made to exacting customer specifications, along with a range of manual and air driven bolt tensioner hydraulic pumps, hoses and accessories.



## NUT SPLITTERS & SPREADERS



The Hi-Force range of hydraulic nut splitters provides the perfect answer for removal of worn, damaged or corroded fasteners. The flange spreader range offers mechanical and hydraulic spreader options and provides the ideal solution for opening flanges safely in the marine and oil & gas industries.

# Hi-Force® HYDRAULIC TOOLS



## JACKS

The Hi-Force range of hydraulic jacks offers a wide choice of lifting capacities, closed and extended heights, material construction and design. From self-contained aluminium and remote pump operated, steel toe lift jacks to compact low height jacks for confined space applications, the Hi-Force hydraulic jack range offers the user a wide choice of options, to suit every application.

## TOUGHLIFTS

The Hi-Force Toughlift Jacking System offers the easiest and safest method of lifting heavy plant and construction vehicles, in the mining and construction industry and railway locomotives, when critical maintenance and breakdown repair work is required.



## HYDROTEST PUMPS

The Hi-Force range of hydrotest pumps is specifically designed for applications requiring pressure testing using water as a fluid medium. Extensively used for pressure testing valves, pipelines and pressure vessels, in various industries including oil and gas, petrochemical and food processing.

## PULLER KITS

The Hi-Force range of hydraulic puller kits, comprises of self-contained and remote operation, manually operated, 2 and 3-way jaw type pullers, bearing cup pullers and cross head pullers. The range offers pulling capacities up to 50 tonnes, in the manually operated versions, plus from 75 to 220 tonnes, powered trolley mounted, heavy duty 2 and 3-way pullers.



# Hi-Force® HYDRAULIC TOOLS



## CRIMPERS & CUTTERS

Hi-Force hydraulic cable crimping tools are designed and manufactured for crimping un-insulated compression and mechanical connectors, in copper and aluminium, to a wide range of electrical power cables including distribution and transmission lines.

## SKATES

The Hi-Force range of skates are designed for moving, installing and relocating heavy machinery and equipment in a safe and cost effective way. The range comprises of a choice of six different designs, all manufactured to provide a flexible and dependable solution for heavy load movement.



## PRESSES

The Hi-Force range of workshop hydraulic presses offers a choice of 25 models with either single acting or double acting cylinder and manually operated, air powered or electric powered hydraulic pump. All models incorporate an adjustable work table with additional adjustable top bed adjustment on all models 50 tonnes capacity and above.



## SPECIALITY TOOLS

Hi-Force speciality tools includes a range of tools for a variety of tool specific applications. The range includes hydraulic hole punchers for heavy duty steel plates, knock out punchers for electrical control panels and thin steel plates and hydraulic pipe benders.





## 100 GENERAL TOOLS & EQUIPMENT



## JAW TYPE FLANGE SPREADERS – HYDRAULIC /MECHANICAL

| MODEL NO                                 | FSM-8      | FSH-14    |
|------------------------------------------|------------|-----------|
| Item Code                                | MFS8       | HFS14     |
| Type                                     | MECHANICAL | HYDRAULIC |
| Max spreading force Capacity force (Ton) | 5          | 10        |
| Tip clearance (mm)                       | 6          | 6         |
| Max spread (mm)                          | 81         | 81        |
| Weight                                   | 6.5        | 9.3       |
| Recommended Hydraulic Pump               | N/A        | P77       |

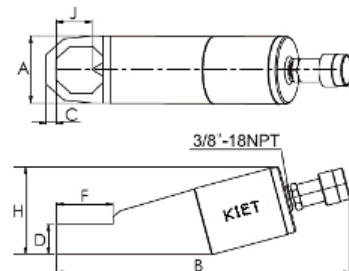


## JAW & PIN TYPE FLANGE SPREADERS - HYDRAULIC

| MODEL NO                   | FS-56 | FS-109 |
|----------------------------|-------|--------|
| Item code                  | FS-56 | FS-109 |
| Capacity Force (Ton)       | 5     | 10     |
| Stud size                  | 19-28 | 31-41  |
| Stroke (mm)                | 38    | 54     |
| Weight                     | 12    | 18     |
| Recommended Hydraulic Pump | P77   | P77    |



## HYDRAULIC NUT SPLITTERS



| MODEL  | ITEM CODE  | THREAD DIAMETER (MM) | NUT ACROSS FLATS | A (MM) | B (MM) | C (MM) | D (MM) | F (MM) | H (MM) | WEIGHT KG |
|--------|------------|----------------------|------------------|--------|--------|--------|--------|--------|--------|-----------|
| NC4150 | HYD-NC4150 | 27-33                | 41-50            | 96     | 325    | 21     | 45     | 73     | 109    | 8.2       |
| NC5060 | HYD-NC5060 | 33-39                | 50-60            | 106    | 366    | 27     | 54     | 126    | 126    | 12.0      |
| NC6075 | HYD-NC6075 | 39-48                | 60-75            | 156    | 367    | 27     | 75     | 110    | 180    | 34.0      |

Optional Extras:

P77 Hydraulic Hand Pump to fit Model NC4150 & NC5060

P80 Hydraulic Hand Pump to fit Model NC6075

## HYDRAULIC HAND PUMPS



| MODEL | ITEM CODE | OIL CAPACITY (L) | TYPE    | PRESSURE RATING (BAR) |     | MAX. HANDLE EFFORT (KG) | PISTON STROKE | WEIGHT KG |
|-------|-----------|------------------|---------|-----------------------|-----|-------------------------|---------------|-----------|
|       |           |                  |         | LP                    | HP  |                         |               |           |
| P77   | HYD-P77   | 0.77             | 2 SPEED | 14                    | 700 | 43                      | 25.4          | 6.8       |
| P80   | HYD-P80   | 2.2              | 2 SPEED | 25                    | 700 | 47                      | 25.4          | 15.0      |

## TUBE SAW WITH CLAMP



230V ELECTRIC OR PNEUMATIC

## LOW CLEARANCE ROTARY COLD CUTTER



RANGE FOR 2" TO 18" PIPES

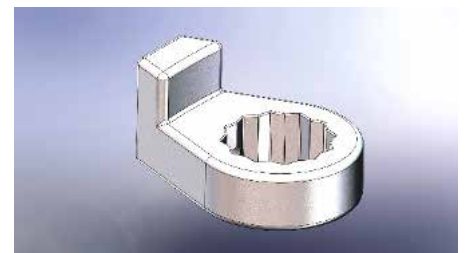
## PISTOL GRIP PNEUMATIC TORQUE MULTIPLIERS



WITH TORQUE  
CAPACITIES UP TO 4400 LBF.FT



## BACK-UP WRENCHES



NO HANDS!  
IMPERIAL SIZES 7/8" – 5 3/8"

## SINGLE CHAIN PIPE CLAMPS



TAG E-Z FIT - RANGE: 1" - 72"

## T-PIPE BEVELLING MACHINE



ID MOUNTED - RANGE FROM  
28MM - 330MM ID

## PIPELINE HOLE CUTTER



TSM-170



ISM-170

| MODEL     | PIPE OD (MM) | HOLE SIZE (MM) |
|-----------|--------------|----------------|
| ELECTRIC  | ≥Φ40         | 6-114          |
| PNEUMATIC | ≥Φ40         | 6-114          |

## DURA – HAND PIPE CUTTER

|       |                             |
|-------|-----------------------------|
| KT802 | PIPE CUTTER 2" KT802        |
| KT804 | PIPE CUTTER 2" TO 4" KT804  |
| KT806 | PIPE CUTTER 4" TO 6" KT806  |
| KT808 | PIPE CUTTER 6" TO 8" KT808  |
| KT812 | PIPE CUTTER 8" TO 12" KT812 |



## DURA - PIPE BENDER

|            |                    |                  |
|------------|--------------------|------------------|
| PIPE-HHW2J | PIPE BENDER HHW-2J | ½" – 2" CAPACITY |
|------------|--------------------|------------------|



## DURA - CHAIN PIPE VICE

|            |                                   |
|------------|-----------------------------------|
| PIPE-STAND | CHAIN PIPE VICE - TRI STAND H-401 |
|------------|-----------------------------------|



## AIR DISTRIBUTION MANIFOLD

6 OR 8 WAY WITH CERTIFICATION



## PRESSURE TEST PUMP



**MANUAL PRESSURE TEST PUMP –  
RANGE 25-120BAR**



**PNEUMATIC TEST PUMPS 150-350 BAR**

## TROLLEYS



**4 WHEEL TROLLEY 1800  
X 910 –  
CAPACITY 680KG**



**DOUBLE GAS  
BOTTLE TROLLEY**



**WELDING MACHINE  
TROLLEY**



**LPG TROLLEY**



**SINGLE GAS BOTTLE  
TROLLEY**



**DRUM TROLLEY**



## VACUUM CLEANERS



**INDUSTRIAL VACUUM CLEANERS  
(WET & DRY)**

## HIGH PRESSURE WASHERS - (COLD WATER)



**PETROL OR DIESEL DRIVEN – RANGE  
186 – 248 BAR / 230V OR 380V ELEC-  
TRIC - RANGE 90-206 BAR**

## EXTENSION REELS



**230V X 25M EXTENSION REELS  
WITH WIRE OPTIONS IE. 2.5MM  
CABTYRE, SCREENED CABLE 2.5MM OR H05 / H07 CABLE  
2.5MM X 25M**

**380V X 25M EXTENSION CABLES  
WITH VARIOUS CABLE SIZES & POWER  
SUPPLY CONNECTORS TO CHOOSE FROM**

## EXTRACTOR FANS



**VENTILATOR**



**DUCTING**

**PORTABLE VENTILATORS 200-500MM  
DIA. - VOLUME 1300-12000 M<sup>3</sup>/HR**

# TAG TRI STANDS

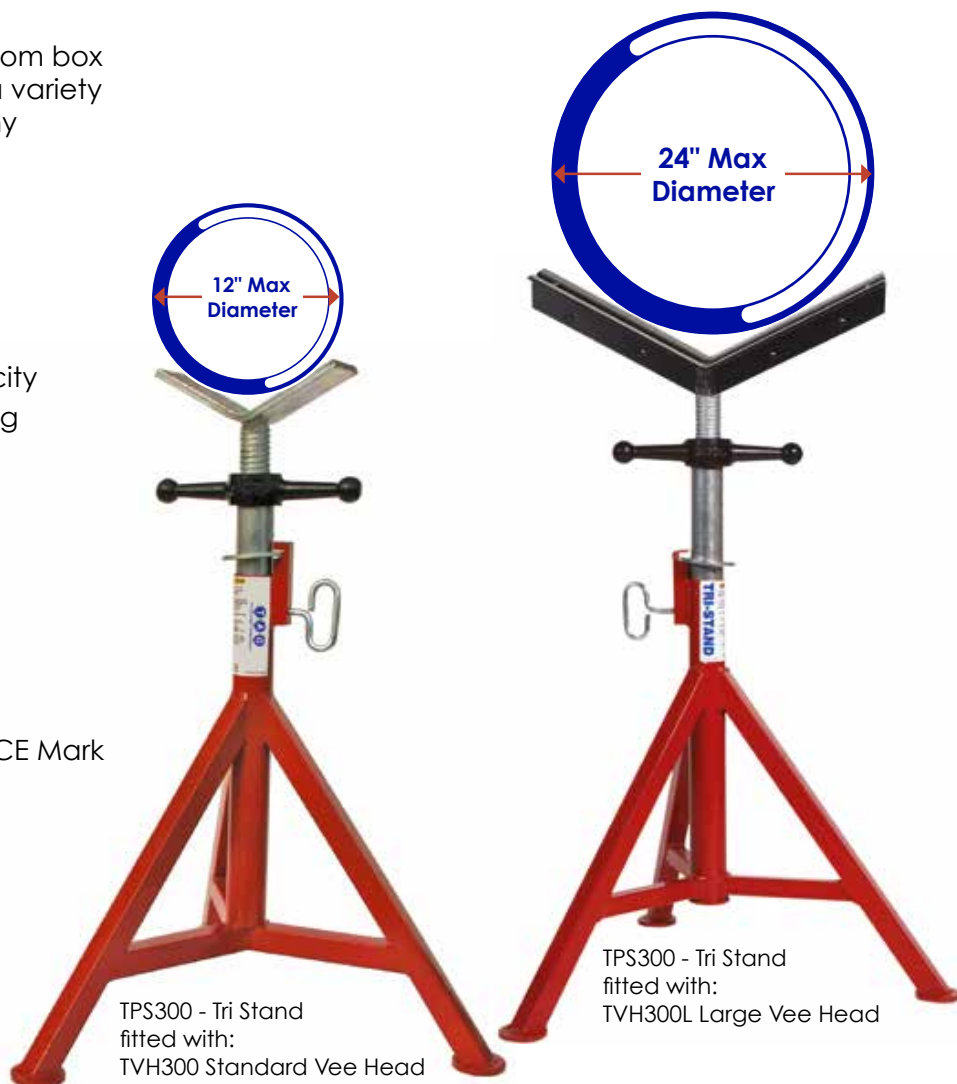
*Three-leg, height adjustable pipe stands for all pipework applications*

TAG Pipe Equipment Specialists manufactures pipe stands that have been designed to give you the highest quality at the best price.

TAG Tri Stands are constructed from box section and are available with a variety of different head styles to suit any application.

## Features and Advantages

- 1 1/8" Square box section construction
- 1,585kg / 3,500lbs load capacity
- Choice of fixed base or folding leg base
- Folding legs allow for easy storage and transportation
- Comprehensive range of 9 different head styles
- Adjustable in height from 27—48" (71—122cm)
- Independently load tested
- CE Conformity Certified with CE Mark







**GEDORE**

## THE LEADING SUPPLIER OF HAND TOOLS IN SA

High-quality hand tools with a lifetime guarantee

GEDORE Werkzeugfabrik, is a family-owned manufacturer of superior quality hand tools and related industrial products. Headquartered in Germany, with manufacturing operations in Germany, Austria, UK, South Africa and Brazil, GEDORE has a global footprint, distributing their products to more than 70 countries worldwide. Under the motto of "Inspired by tradition - forging the future", Traditional forging methods coupled with 21st century robotic and automated operations ensure that GEDORE's tools meet the core objectives of accuracy, quality, versatility and customer satisfaction.

GEDORE operations are ISO-accredited, and all products are manufactured to exceed International operating standards. Every GEDORE hand tool boasts a lifetime guarantee. "Tools for Life".



**OUR CATALOGUE**

## TALBRO - DEEP OFFSET RING/FLAT SPANNERS (DIN-3113B)

|       |                                      |
|-------|--------------------------------------|
| SPA6  | SPANNER COMBINATION DEEP OFFSET 6MM  |
| SPA7  | SPANNER COMBINATION DEEP OFFSET 7MM  |
| SPA8  | SPANNER COMBINATION DEEP OFFSET 8MM  |
| SPA9  | SPANNER COMBINATION DEEP OFFSET 9MM  |
| SPA10 | SPANNER COMBINATION DEEP OFFSET 10MM |
| SPA11 | SPANNER COMBINATION DEEP OFFSET 11MM |
| SPA12 | SPANNER COMBINATION DEEP OFFSET 12MM |
| SPA13 | SPANNER COMBINATION DEEP OFFSET 13MM |
| SPA14 | SPANNER COMBINATION DEEP OFFSET 14MM |
| SPA15 | SPANNER COMBINATION DEEP OFFSET 15MM |
| SPA16 | SPANNER COMBINATION DEEP OFFSET 16MM |
| SPA17 | SPANNER COMBINATION DEEP OFFSET 17MM |
| SPA18 | SPANNER COMBINATION DEEP OFFSET 18MM |
| SPA19 | SPANNER COMBINATION DEEP OFFSET 19MM |
| SPA20 | SPANNER COMBINATION DEEP OFFSET 20MM |
| SPA21 | SPANNER COMBINATION DEEP OFFSET 21MM |
| SPA22 | SPANNER COMBINATION DEEP OFFSET 22MM |
| SPA23 | SPANNER COMBINATION DEEP OFFSET 23MM |
| SPA24 | SPANNER COMBINATION DEEP OFFSET 24MM |
| SPA25 | SPANNER COMBINATION DEEP OFFSET 25MM |
| SPA26 | SPANNER COMBINATION DEEP OFFSET 26MM |
| SPA27 | SPANNER COMBINATION DEEP OFFSET 27MM |
| SPA28 | SPANNER COMBINATION DEEP OFFSET 28MM |
| SPA29 | SPANNER COMBINATION DEEP OFFSET 29MM |
| SPA30 | SPANNER COMBINATION DEEP OFFSET 30MM |
| SPA32 | SPANNER COMBINATION DEEP OFFSET 32MM |
| SPA34 | SPANNER COMBINATION DEEP OFFSET 34MM |
| SPA35 | SPANNER COMBINATION DEEP OFFSET 35MM |
| SPA36 | SPANNER COMBINATION DEEP OFFSET 36MM |
| SPA38 | SPANNER COMBINATION DEEP OFFSET 38MM |
| SPA41 | SPANNER COMBINATION DEEP OFFSET 41MM |
| SPA42 | SPANNER COMBINATION DEEP OFFSET 42MM |
| SPA46 | SPANNER COMBINATION DEEP OFFSET 46MM |
| SPA50 | SPANNER COMBINATION DEEP OFFSET 50MM |
| SPA55 | SPANNER COMBINATION DEEP OFFSET 55MM |
| SPA60 | SPANNER COMBINATION DEEP OFFSET 60MM |



## TALBRO – SLOGGING RING SPANNER (DIN 7444)

|       |                            |
|-------|----------------------------|
| FSR24 | SPANNER FLOGGING RING 24MM |
| FSR27 | SPANNER FLOGGING RING 27MM |
| FSR30 | SPANNER FLOGGING RING 30MM |
| FSR32 | SPANNER FLOGGING RING 32MM |
| FSR36 | SPANNER FLOGGING RING 36MM |
| FSR38 | SPANNER FLOGGING RING 38MM |
| FSR41 | SPANNER FLOGGING RING 41MM |
| FSR42 | SPANNER FLOGGING RING 42MM |
| FSR46 | SPANNER FLOGGING RING 46MM |
| FSR50 | SPANNER FLOGGING RING 50MM |
| FSR55 | SPANNER FLOGGING RING 55MM |
| FSR60 | SPANNER FLOGGING RING 60MM |
| FSR65 | SPANNER FLOGGING RING 65MM |
| FSR70 | SPANNER FLOGGING RING 70MM |
| FSR80 | SPANNER FLOGGING RING 70MM |
| FSR85 | SPANNER FLOGGING RING 70MM |
| FSR90 | SPANNER FLOGGING RING 90MM |
| FSR95 | SPANNER FLOGGING RING 95MM |



## TALBRO – OPEN END SLOGGING SPANNERS (DIN 7444)

|       |                                |
|-------|--------------------------------|
| FSO24 | SPANNER FLOGGING OPEN END 24MM |
| FSO27 | SPANNER FLOGGING OPEN END 27MM |
| FSO30 | SPANNER FLOGGING OPEN END 30MM |
| FSO32 | SPANNER FLOGGING OPEN END 32MM |
| FSO36 | SPANNER FLOGGING OPEN END 36MM |
| FSO38 | SPANNER FLOGGING OPEN END 38MM |
| FSO41 | SPANNER FLOGGING OPEN END 41MM |
| FSO42 | SPANNER FLOGGING OPEN END 42MM |
| FSO46 | SPANNER FLOGGING OPEN END 46MM |
| FSO48 | SPANNER FLOGGING OPEN END 48MM |
| FSO50 | SPANNER FLOGGING OPEN END 50MM |
| FSO55 | SPANNER FLOGGING OPEN END 55MM |
| FSO60 | SPANNER FLOGGING OPEN END 60MM |





## CABLE TIES

|              |                             |
|--------------|-----------------------------|
| CT2.5X100BLK | CABLE TIES 2.5 X 100 BLACK  |
| CT2.5X100BLU | CABLE TIES 2.5 X 100 BLUE   |
| CT2.5X100G   | CABLE TIES 2.5 X 100 GREEN  |
| CT2.5X100OR  | CABLE TIES 2.5 X 100 ORANGE |
| CT2.5X100R   | CABLE TIES 2.5 X 100 RED    |
| CT2.5X100W   | CABLE TIES 2.5 X 100 WHITE  |
| CT2.5X100Y   | CABLE TIES 2.5 X 100 YELLOW |
| CT3.6X150BLK | CABLE TIES 3.6 X 150 BLACK  |
| CT3.6X150BLU | CABLE TIES 3.6 X 150 BLUE   |
| CT3.6X150G   | CABLE TIES 3.6 X 150 GREEN  |
| CT3.6X150OR  | CABLE TIES 3.6 X 150 ORANGE |
| CT3.6X150R   | CABLE TIES 3.6 X 150 RED    |
| CT3.6X150W   | CABLE TIES 3.6 X 150 WHITE  |
| CT3.6X150Y   | CABLE TIES 3.6 X 150 YELLOW |
| CT4.8X200BLK | CABLE TIES 4.8 X 200 BLACK  |
| CT4.8X200BLU | CABLE TIES 4.8 X 200 BLUE   |
| CT4.8X200G   | CABLE TIES 4.8 X 200 GREEN  |
| CT4.8X200OR  | CABLE TIES 4.8 X 200 ORANGE |
| CT4.8X200R   | CABLE TIES 4.8 X 200 RED    |
| CT4.8X200W   | CABLE TIES 4.8 X 200 WHITE  |
| CT4.8X200Y   | CABLE TIES 4.8 X 200 YELLOW |
| CT4.8X300BLK | CABLE TIES 4.8 X 300 BLACK  |
| CT4.8X370BLK | CABLE TIES 4.8 X 370 BLACK  |
| CT4.8X370BLU | CABLE TIES 4.8 X 370 BLUE   |
| CT4.8X370G   | CABLE TIES 4.8 X 370 GREEN  |
| CT4.8X370OR  | CABLE TIES 4.8 X 370 ORANGE |
| CT4.8X370R   | CABLE TIES 4.8 X 370 RED    |
| CT4.8X370W   | CABLE TIES 4.8 X 370 WHITE  |
| CT4.8X370Y   | CABLE TIES 4.8 X 370 YELLOW |
| CT7.6X368BLK | CABLE TIES 7.6 X 368 BLACK  |
| CT7.6X368W   | CABLE TIES 7.6 X 368 WHITE  |
| CT7.6X400BLK | CABLE TIES 7.6 X 400 BLACK  |



## CHICAGO COUPLINGS & CLAMP

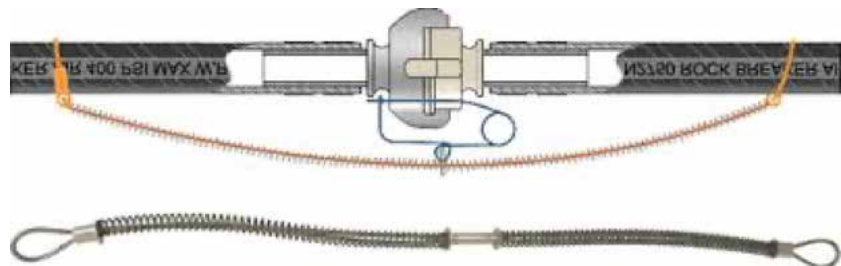


## WHIPLASH

**MILD STEEL = WHIP-RT20 35CM LONG**

**MILD STEEL = WHIP-RT25 50CM LONG**

**MILD STEEL = WHIP-RT25S 50CM LONG**  
**STAINLESS STEEL**





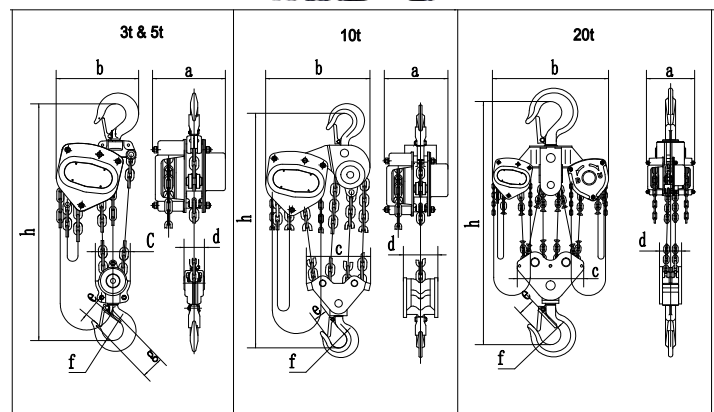
## 110 LIFTING & RIGGING

# CHAIN BLOCK TB

## COMPETITIVE CHAIN BLOCK TB WITH INDUSTRIAL PERFORMANCE

### STANDARD FEATURES:

- Heavy Duty
- Fitted with Overload Protection System
- Caged Roller Bearings on Load Sprockets
- Compact
- T-section Hooks
- Cast Safety Latches
- Plated side plates
- Cap Nut screws
- Grade 80 load chain
- Galvanized Hand Chain
- Traceable hooks



### SPECIFICATIONS

| CAPACITY           | TONNES | 1             | 2             | 3             | 3.0S            | 5             | 10             | 20             |
|--------------------|--------|---------------|---------------|---------------|-----------------|---------------|----------------|----------------|
| NO. OF FALLS       |        | 1             | 1             | 2             | 1               | 2             | 4              | 8              |
| LOAD CHAIN         | MM     | 6X18          | 8X24          | 8X24          | 10X30           | 10X30         | 10X30          | 10X30          |
| PULL TO RATED LOAD | N      | 254           | 405           | 366           | 250             | 385           | 426            | 440X2          |
| PROOF LOAD         | TONNES | 1.5           | 3.0           | 4.5           | 4.5             | 7.5           | 15             | 25.0           |
| HAND CHAIN         |        | 5X25X18       |               |               |                 |               |                |                |
| STANDARD LIFT      | M      | 3             | 3             | 3             | 3               | 3             | 5              | 5              |
| NET WEIGHT         | KG     | 11.1          | 16.8          | 24.2          | 25              | 39.8          | 89.7           | 197            |
| GROSS WEIGHT       | KG     | 11.5          | 17.3          | 24.7          | 25.5            | 40.2          | 97.7           | 211            |
| EXTRA WT. PER M    | KG     | 1.62          | 2.23          | 3.62          | 3               | 5.18          | 9.52           | 19.03          |
| DIMENSIONS         | A      | MM            | 134           | 157           | 157             | 180           | 180            | 225            |
|                    | B      | MM            | 155           | 185           | 235             | 262           | 262            | 365            |
|                    | C      | MM            | 51            | 64            | 100             | 68.5          | 126            | 260            |
|                    | D      | MM            | 30            | 34            | 56              | 38            | 74             | 98             |
|                    | E      | MM            | 33            | 37            | 43.5            | 43.5          | 51             | 64             |
|                    | F      | MM            | 40            | 46            | 52              | 52            | 60             | 85             |
|                    | G      | MM            | 45            | 52            | 62.5            | 62.5          | 79             | -              |
|                    | H      | MM            | 306           | 445           | 520             | 500           | 600            | 760            |
| ITEM CODE 3M LIFT  |        | RIG-CB1T-3-OL | RIG-CB2T-3-OL | RIG-CB3T-3-OL |                 | RIG-CB5T-3-OL |                |                |
| ITEM CODE 6M LIFT  |        | RIG-CB1T-6-OL | RIG-CB2T-6-OL | RIG-CB3T-6-OL |                 | RIG-CB5T-6-OL | RIG-CB10T-6-OL | RIG-CB20T-6-OL |
| ITEM CODE 10M LIFT |        |               |               |               | RIG-CB3TS-10-OL |               |                |                |
| ITEM CODE 12M LIFT |        |               |               |               | RIG-CB3TS-12-OL |               |                |                |

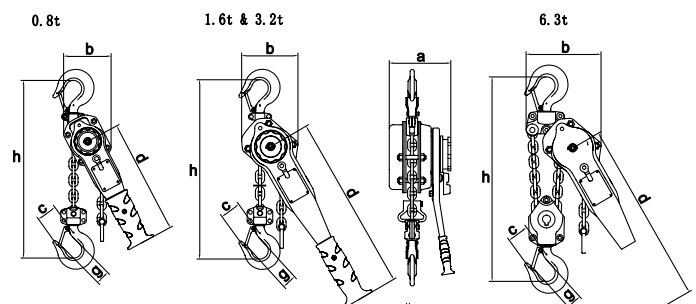
# LEVER HOIST

## LIGHT WEIGHT & COMPACT

## FOR PROFESSIONAL & INDUSTRIAL USERS

### MAIN FEATURES:

- Heavy Duty
- Compact
- Overload Protection
- Caged Roller Bearings on Load Sprocket
- T-section Hooks
- Cast Safety Latch
- Cast end ring
- T shape selection lever
- Plated side plates
- Enlarged Lever Handle Grip
- Cap nut screws
- Traceable hooks



### SPECIFICATIONS

| CAPACITY TON         |          | 0.8T               | 1.6T               | 3.2T               | 6.3T             |
|----------------------|----------|--------------------|--------------------|--------------------|------------------|
| NO OF FALLS          |          | 1                  | 1                  | 1                  | 2                |
| LOAD CHAIN GRADE 100 | (MM)     | 5.6 X 17           | 7.1 X 21           | 10 X 30            | 10 X 30          |
| PULL TO RATED LOAD   | (N)      | 280                | 280                | 381                | 402              |
| PROOF LOAD           | (TONNES) | 1.2                | 2.4                | 4.8                | 9.45             |
| STANDARD LIFT        | (M)      | 1.5                | 1.5                | 1.5                | 1.5              |
| NET WEIGHT           | (KG)     | 5.8                | 9.1                | 17.2               | 25.7             |
| GROSS WEIGHT         | (KG)     | 6.1                | 9.6                | 17.8               | 26.3             |
| EXTRA WT PER M LIFT  | (KG)     | 0.7                | 1.1                | 2.17               | 4.34             |
|                      | A (MM)   | 148                | 165.5              | 194.5              | 194.5            |
|                      | B (MM)   | 121                | 141                | 178                | 228              |
|                      | C (MM)   | 37.5               | 47                 | 62.5               | 78               |
|                      | D (MM)   | 278                | 433                | 433                | 433              |
|                      | G (MM)   | 28                 | 33.5               | 43.5               | 51               |
|                      | H (MM)   | 280                | 350                | 420                | 570              |
| ITEM CODE 1.5M LIFT  |          | RIG-RLH0.8T-1.5-OL | RIG-RLH1.6T-1.5-OL | RIG-RLH3.2T-1.5-OL |                  |
| ITEM CODE 3.0M LIFT  |          | RIG-RLH0.8T-3-OL   | RIG-RLH1.6T-3-OL   | RIG-RLH3.2T-3-OL   | RIG-RLH6.3T-3-OL |
| ITEM CODE 6.0M LIFT  |          | RIG-RLH0.8T-6-OL   | RIG-RLH1.6T-6-OL   | RIG-RLH3.2T-6-OL   | RIG-RLH6.3T-6-OL |



## ROPE WINCH

### Backward & Forward lever

placed in tandem providing a slim design and assuring power transfer along the center

### Built-in shearing pin

prevents overload. It functions at approx. 25% overload. The pins can be replaced without removing the load

### Spare shear pins

Two pieces of spare shear pins located in the carrying handle.

### Rope clamp system

Easily disengaged with a lever allowing smooth installation of the wire rope.

### High strength cast aluminium alloy body

Light weight, simple to operate, smooth contour, design with large, flat bottom surface for increased stability in horizontal as well as vertical working position.

### Safety pin

fastens the anchor bolt

### Anchor bolt

offers numerous and versatile connection possibilities with load hooks, sling ropes and sling chains.

Stamped serial number for easy identification

Galv. Steel wire rope mounted on a reel every rope is operationally tested to 150% of the rated capacity and is issued with an individual test certificate

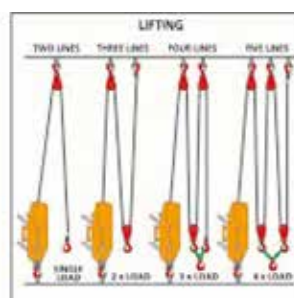
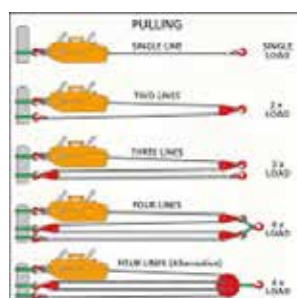
Adjustable lever handle for easy operation



Remarks: Hand hoist is also called jaw winch

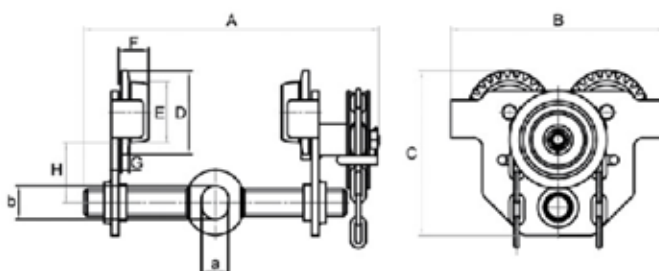


| MODEL NO.                    | YAL016          | YAL032          | YAL054          |
|------------------------------|-----------------|-----------------|-----------------|
| LIFTING CAPACITY (TONNES)    | 1.6             | 3.2             | 5.4             |
| LEVER PULL AT RATED LOAD (N) | 412             | 441             | 850             |
| FORWARD TRAVEL (MM)          | 55              | 28              | 25              |
| ROPE DIAMETER (MM)           | 11              | 16              | 20              |
| NET WEIGHT BODY (KG)         | 12.4            | 23.3            | 58              |
| NET WEIGHT HANDLE (KG)       | 2.5             | 2.5             | 3.7             |
| DIMENSIONS (BODY) L X W X H  | 560 X 100 X 295 | 675 X 120 X 350 | 940 X 170 X 440 |
| ITEM CODE UNIT               | RIG-TIRFOR1.6T  | RIG-TIRFOR3.2T  | RIG-TIRFOR5.4T  |
| ITEM CODE ROPE               | RIG-ROPE1.6T    | RIG-ROPE3.2T    | RIG-ROPE5.4T    |
| ITEM CODE HANDLE             | RIG-THAN1.6T18  | RIG-THAN3.2T40  | RIG-THAN5.4T40  |



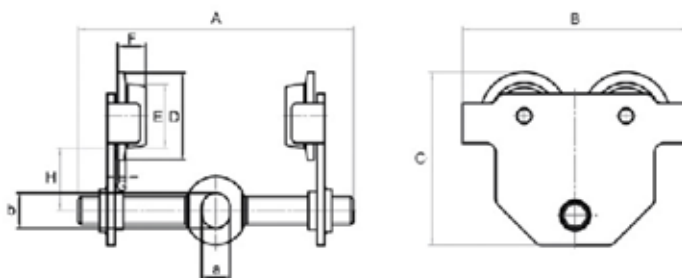
**RIG-THAN1.6 T18**  
**RIG-THAN3.2 T40**  
**RIG-THAN 5.4 T40**

## GEARED TROLLEY – KW III



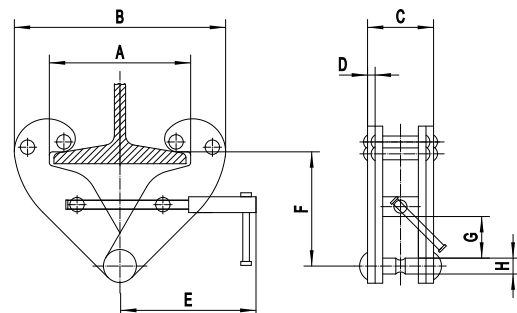
| MODEL NO          |   | KW030B     | KW050B     |
|-------------------|---|------------|------------|
| ITEM CODE         |   | RIG-BCR3TG | RIG-BCR5TG |
| CAPACITY (TON)    |   | 3          | 5          |
| PROOF LOAD (TON)  |   | 4.5        | 7.5        |
| I-BEAM WIDTH (MM) |   | 74-220     | 90-220     |
| DIMENSION         | A | 325        | 360        |
|                   | B | 324        | 373        |
|                   | C | 249        | 296.5      |
|                   | D | 129        | 144        |
|                   | E | 100        | 110        |
|                   | F | 39         | 49.5       |
|                   | G | 11.5       | 12.5       |
|                   | H | 95         | 100        |
|                   | a | 46         | 50         |
|                   | b | 55         | 62         |
| NET WEIGHT (KG)   |   | 26.68      | 40.22      |

## PLAIN TROLLEY (CRAWL) - KWII



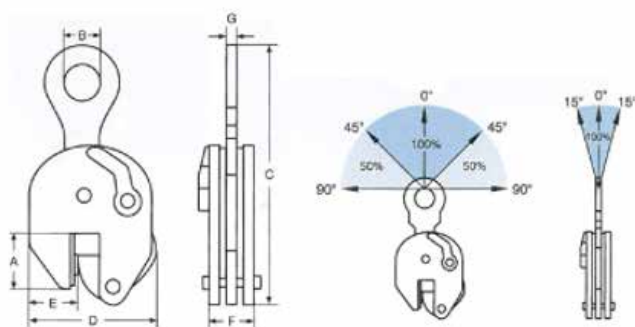
| MODEL NO          |   | KW020A    | KW030A    | KW050A    |
|-------------------|---|-----------|-----------|-----------|
| ITEM CODE         |   | RIG-BCR2T | RIG-BCR3T | RIG-BCR5T |
| CAPACITY (TON)    |   | 2         | 3         | 5         |
| PROOF LOAD (TON)  |   | 3         | 4.5       | 7.5       |
| I-BEAM WIDTH (MM) |   | 66-220    | 74-220    | 90-220    |
| DIMENSION         | A | 301       | 325       | 360       |
|                   | B | 277       | 324       | 373       |
|                   | C | 208       | 249       | 296.5     |
|                   | D | 108       | 129       | 144       |
|                   | E | 80        | 100       | 110       |
|                   | F | 35        | 39        | 49.5      |
|                   | G | 10        | 11.5      | 12.5      |
|                   | H | 75        | 95        | 100       |
|                   | a | 35        | 46        | 50        |
|                   | b | 46        | 55        | 62        |
| NET WEIGHT (KG)   |   | 13.19     | 22.39     | 35.87     |

## BEAM CLAMP -TBC



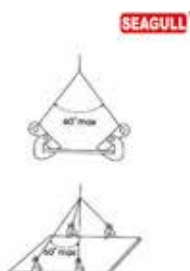
| MODEL NO          | TBC-2    | TBC-3    | TBC-5    | TBC-10    |
|-------------------|----------|----------|----------|-----------|
| ITEM CODE         | RIG-BC2T | RIG-BC3T | RIG-BC5T | RIG-BC10T |
| CAPACITY (TON)    | 2        | 3        | 5        | 10        |
| PROOF LOAD (TON)  | 3        | 4.5      | 7.5      | 15        |
| I-BEAM WIDTH (MM) | 75-220   | 80-320   | 80-320   | 80-350    |
| DIMENSION         |          |          |          |           |
| A (MAX)           | 260      | 354      | 354      | 400       |
| B (MIN)           | 180      | 235      | 235      | 250       |
| B (MAX)           | 360      | 490      | 490      | 520       |
| C                 | 74       | 103      | 110      | 120       |
| D                 | 6        | 8        | 10       | 12        |
| E                 | 215      | 260      | 260      | 280       |
| F (MAX)           | 155      | 225      | 225      | 230       |
| F (MIN)           | 102      | 140      | 140      | 160       |
| G                 | 25       | 45       | 45       | 70        |
| H                 | 22       | 24       | 28       | 44        |
| NET WEIGHT (KG)   | 4.6      | 9.1      | 11.0     | 14.6      |

## VERTICAL PLATE GRAB



| CAPACITY (TON)    | 1    | 2    | 3    | 5    | 7    | 10   |
|-------------------|------|------|------|------|------|------|
| GRAB OPENING (MM) | 1-20 | 0-30 | 0-35 | 0-45 | 0-50 | 0-50 |
| WEIGHT (KG)       | 3.8  | 6.0  | 9.3  | 18.5 | 33.0 | 48.5 |

## HORIZONTAL PLATE GRAB (Used in Pairs)



| CAPACITY (TON)    | 1    | 2    | 3     |
|-------------------|------|------|-------|
| GRAB OPENING (MM) | 1-13 | 3-22 | 12-35 |
| WEIGHT (KG)       | 1.6  | 3.9  | 8.9   |

## UNIVERSAL PLATE GRAB



| CAPACITY (TON)    | 1   | 2   | 3    | 5    |
|-------------------|-----|-----|------|------|
| GRAB OPENING (MM) | 20  | 25  | 30   | 50   |
| WEIGHT (KG)       | 4.8 | 6.5 | 15.0 | 23.0 |

## PNEUMATIC WINCHES

### LOW PROFILE – DUAL BRAKE SYSTEM



| MODEL                  | QJH20                                | QJH30        | QJH50        |
|------------------------|--------------------------------------|--------------|--------------|
| WORKING PRESSURE (BAR) | 6.2 – 10                             | 6.2 – 10     | 6.2 – 10     |
| RATED LINE PULL (TON)  | 2.0                                  | 3.0          | 5.0          |
| ROPE SPEED (M/MIN)     | 18                                   | 20           | 13           |
| ROPE DIAMETER (MM)     | 14                                   | 16           | 19           |
| ROPE CAPACITY (M)      | 300                                  | 300          | 300          |
| BRAKE SYSTEM           | DUAL – DISC BRAKE & MECHANICAL BRAKE |              |              |
| OVERALL DIMENSIONS MM  | 1522*970*858                         | 1750*970*887 | 1810*890*910 |
| WEIGHT KG              | 550                                  | 650          | 1090         |
| AIR INLET              | ¼"                                   | ½"           | ¾"           |
| CHISEL SHANK SIZE      | N/A                                  | N/A          | HEX 14.7MM   |

## PNEUMATIC WINCHES

### DUAL BRAKE SYSTEM



| DESCRIPTION            | QJ3/120                       | QJ5/120                   |
|------------------------|-------------------------------|---------------------------|
| WORKING PRESSURE (BAR) | 5 - 9                         | 5 - 9                     |
| MAX PULL (TON)         | 3.3 IMPERIAL / 3.0 METRIC     | 5.5 IMPERIAL / 5.0 METRIC |
| ROPE SPEED (M/MIN)     | 35                            | 20                        |
| ROPE SIZE (MM)         | 16                            | 19                        |
| ROPE CAPACITY (M)      | 120                           |                           |
| BRAKE SYSTEM           | DUAL - PNEUMATIC & MECHANICAL |                           |
| SIZE L X W X H         | 1220x940x940                  | 1300x940x985              |
| WEIGHT (KG) NO ROPE    | 500                           | 580                       |



## FIBER & SYNTHETIC ROPE TYPES

|                                                                                     |                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | MANILA rope was once the preferred choice in ropes before the synthetic fibers were developed. Manila ropes still maintain some advantages to synthetic fibres. It is not affected by heat and has an excellent resistance to the sun's UV (Ultraviolet) rays                                                                                                       |
|    | SISAL fibres come from the Agave and Sialana plants grown in some tropical countries. Sisal has many off the characteristics of manila, but offers only 60% of its strength. It is more economical than manila and makes a good choice as a general purpose rope. It is commonly used as a tying twine.                                                             |
|    | JUTE is mainly used as a tying twine. It knots very well. Due to its short fibers, it does not have much strength                                                                                                                                                                                                                                                   |
|    | COTTON is a natural fibre, typically white in colour. It is a soft fibre, which makes it nice to handle. It also knots very well.                                                                                                                                                                                                                                   |
|    | POLYPROPYLENE & POLYETHYLENE make a flexible and lightweight rope. They are rot proof, resistant to oil, water, gasoline and most chemicals. They are the only rope fibres that float. Available twisted or braided, they are a perfect economical choice as a general purpose rope.                                                                                |
|    | POLYESTER is very strong and provides excellent abrasion resistance. Polyester stretches less than nylon, so it does not have the elasticity or shock absorbing qualities that nylon does. It has good resistance to UV rays and resists rot, oil and gasoline, and most chemicals. It is very popular as a marine or industrial rope where stretch is not desired. |
|  | NYLON is known for its elasticity and tremendous shock absorbing qualities. It has good abrasion resistance, is rot proof, resists oil, gasoline and most chemicals. It has good resistance to UV rays. Nylon will last 4-5 times longer than natural fibers.                                                                                                       |

## WIRE ROPE BLOCKS 1T-20T



## MANILLA ROPE BLOCKS

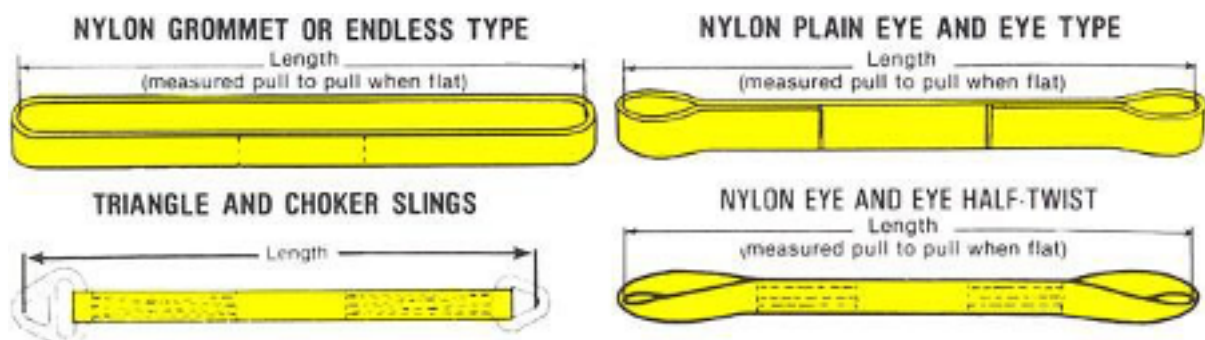


# FLAT & ENDLESS ROUND POLYESTER SLINGS

| Color Code                                                                        | SWL kg                                                                            | Satety Factor                                                                     | SWL(kg)                                                                           |                                                                                   | 1 webbing sling                                                                     |                                                                                     |                                                                                     | SWL(kg)                                                                             |        | 2 webbing slings |        |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------|------------------|--------|
|                                                                                   |                                                                                   |                                                                                   | Vertical                                                                          | Choker                                                                            | Basket                                                                              |                                                                                     |                                                                                     | Straight                                                                            |        | Choker           |        |
|                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 0-7°                                                                                | 7-45°                                                                               | 45-60°                                                                              | 7-45°                                                                               | 45-60° | 7-45°            | 45-60° |
|                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |        |                  |        |
|  |  |  |  |  |  |  |  |  |        |                  |        |
| 1                                                                                 | 0.8                                                                               | 2                                                                                 | 1.4                                                                               | 1                                                                                 | 1.4                                                                                 | 1                                                                                   | 1.12                                                                                | 0.8                                                                                 |        |                  |        |
| Violet                                                                            | 1,000                                                                             | 7:1                                                                               | 1,000                                                                             | 800                                                                               | 2,000                                                                               | 1,400                                                                               | 1,000                                                                               | 1,400                                                                               | 1,000  | 1,120            | 800    |
| Green                                                                             | 2,000                                                                             | 7:1                                                                               | 2,000                                                                             | 1,600                                                                             | 4,000                                                                               | 2,800                                                                               | 2,000                                                                               | 2,800                                                                               | 2,000  | 2,240            | 1,600  |
| Yellow                                                                            | 3,000                                                                             | 7:1                                                                               | 3,000                                                                             | 2,400                                                                             | 6,000                                                                               | 4,200                                                                               | 3,000                                                                               | 4,200                                                                               | 3,000  | 3,360            | 2,400  |
| Gray                                                                              | 4,000                                                                             | 7:1                                                                               | 4,000                                                                             | 3,200                                                                             | 8,000                                                                               | 5,600                                                                               | 4,000                                                                               | 5,600                                                                               | 4,000  | 4,480            | 3,200  |
| Red                                                                               | 5,000                                                                             | 7:1                                                                               | 5,000                                                                             | 4,000                                                                             | 10,000                                                                              | 7,000                                                                               | 5,000                                                                               | 7,000                                                                               | 5,000  | 5,600            | 4,000  |
| Brown                                                                             | 6,000                                                                             | 7:1                                                                               | 6,000                                                                             | 4,800                                                                             | 12,000                                                                              | 8,400                                                                               | 6,000                                                                               | 8,400                                                                               | 6,000  | 6,720            | 4,800  |
| Blue                                                                              | 8,000                                                                             | 7:1                                                                               | 8,000                                                                             | 6,400                                                                             | 16,000                                                                              | 11,200                                                                              | 8,000                                                                               | 11,200                                                                              | 8,000  | 8,960            | 6,400  |
| Orange                                                                            | 10,000                                                                            | 7:1                                                                               | 10,000                                                                            | 8,000                                                                             | 20,000                                                                              | 14,000                                                                              | 10,000                                                                              | 14,000                                                                              | 10,000 | 11,200           | 8,000  |
| Orange                                                                            | 12,000                                                                            | 7:1                                                                               | 12,000                                                                            | 9,600                                                                             | 24,000                                                                              | 16,800                                                                              | 12,000                                                                              | 16,800                                                                              | 12,000 | 13,440           | 9,600  |
| Orange                                                                            | 16,000                                                                            | 7:1                                                                               | 16,000                                                                            | 12,800                                                                            | 32,000                                                                              | 22,400                                                                              | 16,000                                                                              | 22,400                                                                              | 16,000 | 17,920           | 12,800 |
| Orange                                                                            | 20,000                                                                            | 7:1                                                                               | 20,000                                                                            | 16,000                                                                            | 40,000                                                                              | 28,000                                                                              | 20,000                                                                              | 28,000                                                                              | 20,000 | 22,400           | 16,000 |

| Colour Coded According to EN1492-2 | Working Load Limit with 1 Round Sling                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | Working Load Limit with 2 Round Slings                                              |                                                                                     |                                                                                       |                                                                                       |
|------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                                    | Straight Lift                                                                       | Chocked Lift                                                                        | $\beta$                                                                             |                                                                                     |                                                                                     |                                                                                     |                                                                                     | Straight Lift up to 45°                                                             | Chocked Lift up to 45°                                                              | Straight Lift 45°-60°                                                                 | Chocked Lift 45°-60°                                                                  |
|                                    |                                                                                     |                                                                                     | 0°-7°                                                                               | 7°-45°                                                                              | 45°-60°                                                                             | Up to 45°                                                                           | 45°-60°                                                                             |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
|                                    |  |  |  |  |  |  |  |  |  |  |  |
|                                    | 1.0                                                                                 | 0.8                                                                                 | 2.0                                                                                 | 1.4                                                                                 | 1.0                                                                                 | 0.7                                                                                 | 0.5                                                                                 | 1.4                                                                                 | 1.12                                                                                | 1.0                                                                                   | 0.8                                                                                   |
| WLL 1T                             | 1,000                                                                               | 800                                                                                 | 2,000                                                                               | 1,400                                                                               | 1,000                                                                               | 700                                                                                 | 500                                                                                 | 1,400                                                                               | 1,120                                                                               | 1,000                                                                                 | 800                                                                                   |
| WLL 2T                             | 2,000                                                                               | 1,600                                                                               | 4,000                                                                               | 2,800                                                                               | 2,000                                                                               | 1,400                                                                               | 1,000                                                                               | 2,800                                                                               | 2,240                                                                               | 2,000                                                                                 | 1,600                                                                                 |
| WLL 3T                             | 3,000                                                                               | 2,400                                                                               | 6,000                                                                               | 4,200                                                                               | 3,000                                                                               | 2,100                                                                               | 1,500                                                                               | 4,200                                                                               | 3,360                                                                               | 3,000                                                                                 | 2,400                                                                                 |
| WLL 4T                             | 4,000                                                                               | 3,200                                                                               | 8,000                                                                               | 5,600                                                                               | 4,000                                                                               | 2,800                                                                               | 2,000                                                                               | 5,600                                                                               | 4,480                                                                               | 4,000                                                                                 | 3,200                                                                                 |
| WLL 5T                             | 5,000                                                                               | 4,000                                                                               | 10,000                                                                              | 7,000                                                                               | 5,000                                                                               | 3,500                                                                               | 2,500                                                                               | 7,000                                                                               | 5,600                                                                               | 5,000                                                                                 | 4,000                                                                                 |
| WLL 6T                             | 6,000                                                                               | 4,800                                                                               | 12,000                                                                              | 8,400                                                                               | 6,000                                                                               | 4,200                                                                               | 3,000                                                                               | 8,400                                                                               | 6,720                                                                               | 6,000                                                                                 | 4,800                                                                                 |
| WLL 8T                             | 8,000                                                                               | 6,400                                                                               | 16,000                                                                              | 11,200                                                                              | 8,000                                                                               | 5,600                                                                               | 4,000                                                                               | 11,200                                                                              | 8,960                                                                               | 8,000                                                                                 | 6,400                                                                                 |
| WLL 10T                            | 10,000                                                                              | 8,000                                                                               | 20,000                                                                              | 14,000                                                                              | 10,000                                                                              | 7,000                                                                               | 5,000                                                                               | 14,000                                                                              | 11,200                                                                              | 10,000                                                                                | 8,000                                                                                 |
| WLL 12T                            | 12,000                                                                              | 9,600                                                                               | 24,000                                                                              | 16,800                                                                              | 12,000                                                                              | 8,400                                                                               | 6,000                                                                               | 16,800                                                                              | 13,440                                                                              | 12,000                                                                                | 9,600                                                                                 |

## PULL TO PULL MEASURING





# WIRE ROPE SLINGS

APPROXIMATE SAFE WORKING LOADS IN KG FOR ALUMINIUM FERRULED STEEL WIRE ROPE SLINGS

| Rope diameter mm | Single Leg at 0° | Double Leg at 30° | Double Leg at 60° | Double Leg at 90° | Triple (30°) & Quadruple Leg at 60° | Triple (45°) & Quadruple Leg at 90° | Triple (60°) & Quadruple Leg at 120° |
|------------------|------------------|-------------------|-------------------|-------------------|-------------------------------------|-------------------------------------|--------------------------------------|
| 6                | 300              | 550               | 500               | 420               | 760                                 | 630                                 | 450                                  |
| 8                | 600              | 1150              | 1000              | 800               | 1520                                | 1260                                | 900                                  |
| 10               | 1000             | 1750              | 1550              | 1250              | 2530                                | 2100                                | 1500                                 |
| 13               | 1500             | 2800              | 2500              | 2100              | 3800                                | 3150                                | 2250                                 |
| 16               | 2000             | 3800              | 3400              | 2600              | 5060                                | 4200                                | 3000                                 |
| 19               | 3000             | 5700              | 5100              | 4200              | 7600                                | 6300                                | 4500                                 |
| 22               | 4000             | 7600              | 6800              | 5600              | 10130                               | 8400                                | 6000                                 |
| 26               | 6000             | 11500             | 10300             | 8400              | 15200                               | 12600                               | 9000                                 |
| 28               | 7700             | 14600             | 13050             | 10750             | 20260                               | 16800                               | 12000                                |
| 32               | 10000            | 19000             | 17000             | 14000             | 25330                               | 21000                               | 15000                                |
| 38               | 14300            | 27150             | 24300             | 20000             | 36980                               | 30660                               | 21900                                |
| 44               | 19200            | 36450             | 32600             | 26850             | 49400                               | 40950                               | 29250                                |
| 50               | 24800            | 47100             | 42150             | 34700             | 63840                               | 52920                               | 37800                                |
| 56               | 31000            | 58900             | 52700             | 43400             | 81060                               | 67200                               | 48000                                |

**AFGRIP (ALUMINUM FERRULE) STANDARD WIRE ROPE SLING**



**THIMBLE EYE SLING**



**SUPER LOOP OR FLEMISH EYE WITH TAPERED STEEL SLEEVE (SWAGE SOCKET)**



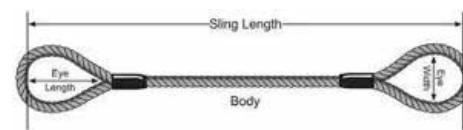
**GROMMET SLING CABLE LAID**



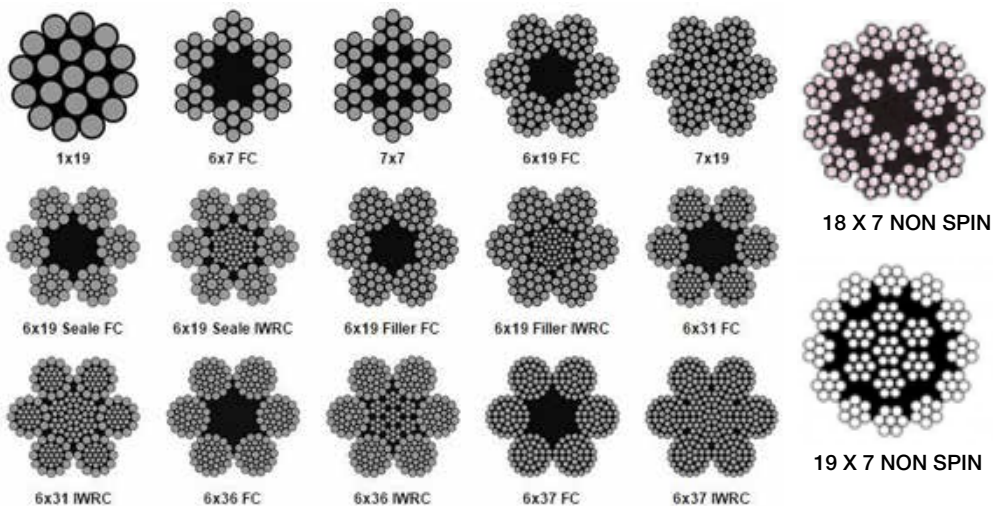
**HAND SPLICED SLING**



**EYE TO EYE MEASURING**

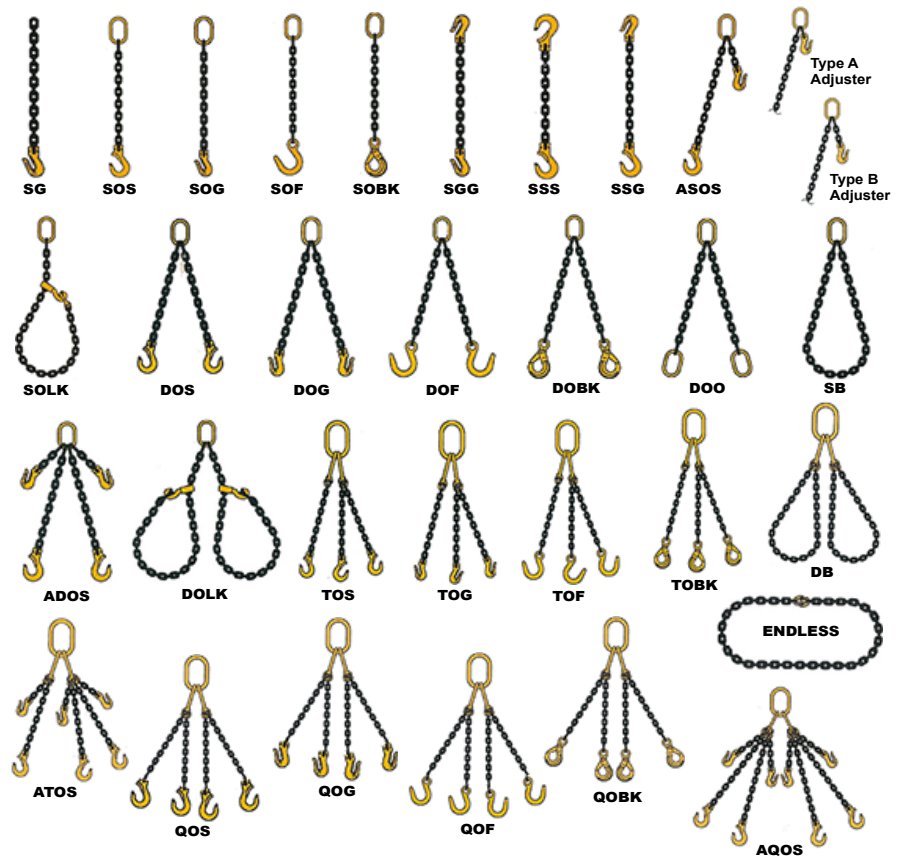


## STEEL WIRE ROPE TYPES



## CHAIN & CHAIN SLING TYPES

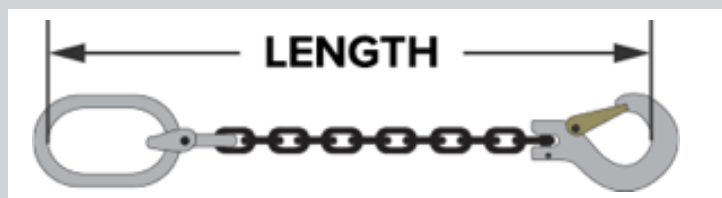
Basic chain sling configuration code names. First Letter Legs; S - Single Leg, D - Double Leg, T - Triple Leg, Q - Quadruple Leg Second Letter Top Fitting; O - Oblong Master Link, S - Sling Hook, G - Grab Hook, B - Basket W/ Oblong Master Link Third Letter Bottom Fitting; S - Sling Hook, G - Grab Hook, LK - Sliding Choker, BK - Self-Locking, F - Foundry Hook Codes with "A" prefix indicates adjusters to be added.



## CHAIN OVERVIEW

|                                                                                    | ASTM & NACM GRADE | NAME       | ASTM SPECIFICATION | OVERHEAD LIFTING? | MATERIAL                  |
|------------------------------------------------------------------------------------|-------------------|------------|--------------------|-------------------|---------------------------|
|  | GRADE 30          | PROOF COIL | A413               | X                 | LOW-STRENGTH CARBON STEEL |
|  | GRADE 43          | HIGH TEST  | A413               | X                 | CARBON STEEL              |
|  | GRADE 70          | TRANSPORT  | A413               | X                 | CARBON STEEL              |
|  | GRADE 80          | ALLOY      | A391               | ✓                 | ALLOY STEEL               |
|  | GRADE 100         | ALLOY      | A973               | ✓                 | ALLOY STEEL               |
|  | GRADE 120         | WINNER PRO | N/A                | ✓                 | HIGH STRENGTH ALLOY STEEL |

## CHAIN SLING MEASURING





# LASHING EQUIPMENT



**RATCHET TIE DOWN ASSEMBLIES –  
25MM, 35MM, 50MM, 75MM**



**STANDARD LOAD BINDER  
SIZES 7MM, 10MM & 13MM  
FITTED WITH CHAIN GRAB HOOKS**



**RATCHET LOAD BINDER  
SIZES 7MM, 10MM & 13MM  
FITTED WITH CHAIN GRAB HOOKS**



**LASHING CHAIN – GRADE 30, 43 & 70**



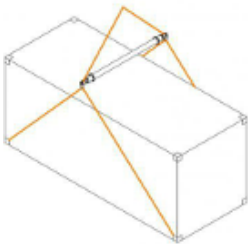
**CLEVIS GRAB HOOK**



**CLEVIS CLAW HOOK**

# LIFTING EQUIPMENT

## SPREADER BEAMS SPREADER BEAMS



## LIFTING BEAMS

DRUM LIFTER - DRUM HOOKS



LIFTING MAGNET



EXPRESS SKATES



DRUM LIFTER -  
VERTICAL RING



DRUM LIFTER - VERTICAL



HYDRAULIC TOE JACK



MECHANICAL TOE JACK



HI LIFTING JACK



CABLE DRUM LIFTER



BOTTLE JACK



CABLE PULLING SOCK



CABLE PULLING GRIP

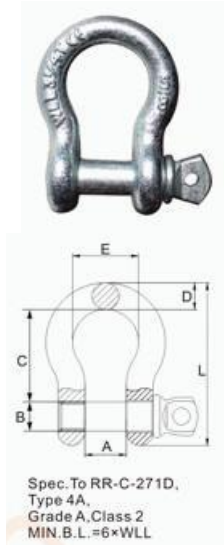


CABLE PULLER

# RIGGING HARDWARE

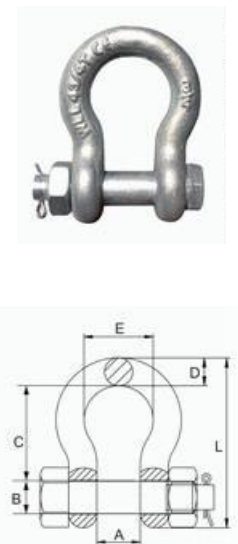
## SCREW PIN ANCHOR SHACKLE

| SIZE   | W.L.L   | DIMENSIONS |      |      |      |      |      | WEIGHT (KG) |
|--------|---------|------------|------|------|------|------|------|-------------|
|        |         | A          | B    | C    | D    | E    | L    |             |
| 3/16"  | 1/3T    | 9.65       | 6.35 | 22.4 | 4.85 | 15.2 | 37.3 | 0.03        |
| 1/4"   | 1/2T    | 11.9       | 7.85 | 28.7 | 6.35 | 19.8 | 46.7 | 0.05        |
| 5/16"  | 3/4T    | 13.5       | 9.65 | 31   | 7.85 | 21.3 | 53   | 0.09        |
| 3/8"   | 1T      | 16.8       | 11.2 | 36.6 | 9.65 | 26.2 | 63   | 0.14        |
| 7/16"  | 1-1/2T  | 19.1       | 12.7 | 42.9 | 11.2 | 29.5 | 74   | 0.17        |
| 1/2"   | 2T      | 20.6       | 16   | 47.8 | 12.7 | 33.3 | 83.5 | 0.33        |
| 5/8"   | 3-1/4T  | 26.9       | 19.1 | 60.5 | 16   | 42.9 | 106  | 0.62        |
| 3/4"   | 4-3/4T  | 31.8       | 22.4 | 71.5 | 19.1 | 51   | 126  | 1.07        |
| 7/8"   | 6-1/2T  | 36.6       | 25.4 | 84   | 22.4 | 58   | 148  | 1.64        |
| 1"     | 8-1/2T  | 42.9       | 28.7 | 95.5 | 25.4 | 68.5 | 167  | 2.28        |
| 1-1/8" | 9-1/2T  | 46         | 31.8 | 108  | 29.5 | 74   | 190  | 3.36        |
| 1-1/4" | 12T     | 51.5       | 35.1 | 119  | 32.8 | 82.5 | 210  | 4.31        |
| 1-3/8" | 13-1/2T | 57         | 38.1 | 133  | 36.1 | 92   | 233  | 6.14        |
| 1-1/2" | 17T     | 60.5       | 41.4 | 146  | 39.1 | 98.5 | 254  | 7.8         |
| 1-3/4" | 25T     | 73         | 51   | 178  | 46.7 | 127  | 313  | 12.6        |
| 2"     | 35T     | 82.5       | 57   | 197  | 53   | 146  | 348  | 20.4        |
| 2-1/2" | 55T     | 105        | 70   | 267  | 69   | 184  | 453  | 38.9        |



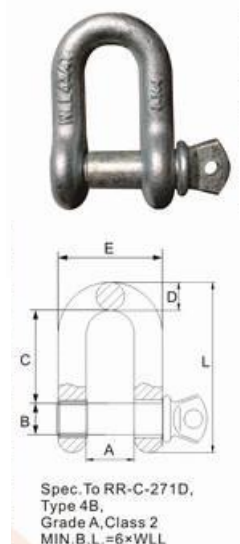
## BOLT TYPE ANCHOR SHACKLE

| SIZE   | W.L.L   | DIMENSIONS |      |      |      |      |      | WEIGHT (KG) |
|--------|---------|------------|------|------|------|------|------|-------------|
|        |         | A          | B    | C    | D    | E    | L    |             |
| 3/16"  | 1/3T    | 9.65       | 6.35 | 22.4 | 4.85 | 15.2 | 37.3 | 0.03        |
| 1/4"   | 1/2T    | 11.9       | 7.85 | 28.7 | 6.35 | 19.8 | 46.7 | 0.05        |
| 5/16"  | 3/4T    | 13.5       | 9.65 | 31   | 7.85 | 21.3 | 53   | 0.1         |
| 3/8"   | 1T      | 16.8       | 11.2 | 36.6 | 9.65 | 26.2 | 63   | 0.15        |
| 7/16"  | 1-1/2T  | 19.1       | 12.7 | 42.9 | 11.2 | 29.5 | 74   | 0.22        |
| 1/2"   | 2T      | 20.6       | 16   | 47.8 | 12.7 | 33.3 | 83.5 | 0.36        |
| 5/8"   | 3-1/4T  | 26.9       | 19.1 | 60.5 | 16   | 42.9 | 106  | 0.76        |
| 3/4"   | 4-3/4T  | 31.8       | 22.4 | 71.5 | 19.1 | 51   | 126  | 1.23        |
| 7/8"   | 6-1/2T  | 36.6       | 25.4 | 84   | 22.4 | 58   | 148  | 1.79        |
| 1"     | 8-1/2T  | 42.9       | 28.7 | 95.5 | 25.4 | 68.5 | 167  | 2.57        |
| 1-1/8" | 9-1/2T  | 46         | 31.8 | 108  | 28.7 | 74   | 190  | 3.75        |
| 1-1/4" | 12T     | 51.5       | 35.1 | 119  | 31.8 | 82.5 | 210  | 5.31        |
| 1-3/8" | 13-1/2T | 57         | 38.1 | 133  | 35.1 | 92   | 233  | 7.18        |
| 1-1/2" | 17T     | 60.5       | 41.4 | 146  | 38.1 | 98.5 | 254  | 9.43        |
| 1-3/4" | 25T     | 73         | 51   | 178  | 44.5 | 127  | 313  | 15.4        |
| 2"     | 35T     | 82.5       | 57   | 197  | 51   | 146  | 348  | 23.7        |
| 2-1/2" | 55T     | 105        | 70   | 267  | 66.5 | 184  | 453  | 38.9        |
| 3"     | 85T     | 127        | 82.5 | 330  | 76   | 200  | 546  | 70          |
| 3-1/2" | 120T    | 133        | 95.5 | 372  | 92   | 229  | 626  | 120         |
| 4"     | 150T    | 140        | 108  | 368  | 104  | 254  | 653  | 153         |



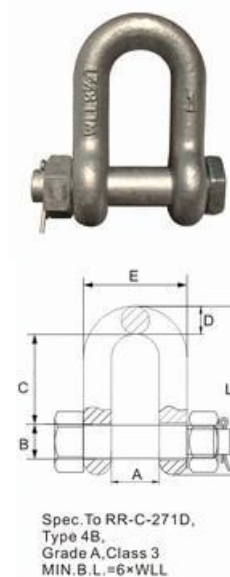
## SCREW PIN CHAIN SHACKLE

| SIZE   | W.L.L   | DIMENSIONS |      |      |      |       |      | WEIGHT (KG) |
|--------|---------|------------|------|------|------|-------|------|-------------|
|        |         | A          | B    | C    | D    | E     | L    |             |
| 3/16"  | 1/3T    | 9.65       | 6.35 | 19   | 4.85 | 19.35 | 33.9 | 0.022       |
| 1/4"   | 1/2T    | 11.9       | 7.85 | 22.4 | 6.35 | 24.6  | 40.4 | 0.05        |
| 5/16"  | 3/4T    | 13.5       | 9.65 | 26.2 | 7.85 | 29.5  | 48.5 | 0.08        |
| 3/8"   | 1T      | 16.8       | 11.2 | 31.8 | 9.65 | 35.8  | 58.5 | 0.13        |
| 7/16"  | 1-1/2T  | 19.1       | 12.7 | 36.6 | 11.2 | 41.4  | 67.5 | 0.2         |
| 1/2"   | 2T      | 20.6       | 16   | 41.4 | 12.7 | 46    | 77   | 0.27        |
| 5/8"   | 3-1/4T  | 26.9       | 19.1 | 51   | 16   | 58.5  | 95.5 | 0.57        |
| 3/4"   | 4-3/4T  | 31.8       | 22.4 | 60.5 | 19.1 | 70    | 115  | 1.2         |
| 7/8"   | 6-1/2T  | 36.6       | 25.4 | 71.5 | 22.4 | 81    | 135  | 1.43        |
| 1"     | 8-1/2T  | 42.9       | 28.7 | 81   | 25.4 | 93.5  | 151  | 2.15        |
| 1-1/8" | 9-1/2T  | 46         | 31.8 | 91   | 28.7 | 103   | 172  | 3.06        |
| 1-1/4" | 12T     | 51.5       | 35.1 | 100  | 31.8 | 115   | 191  | 4.11        |
| 1-3/8" | 12-1/2T | 57         | 38.1 | 111  | 35.1 | 127   | 210  | 5.28        |
| 1-1/2" | 17T     | 60.5       | 41.4 | 122  | 38.1 | 137   | 230  | 7.23        |
| 1-3/4" | 25T     | 73         | 51   | 146  | 44.5 | 162   | 279  | 12.1        |
| 2"     | 35T     | 82.5       | 57   | 172  | 51   | 184   | 312  | 19.2        |
| 2-1/2" | 55T     | 108        | 70   | 203  | 66.5 | 238   | 377  | 32.5        |



## BOLT TYPE CHAIN SHACKLE

| SIZE   | W.L.L   | DIMENSIONS |      |      |        |      |      | WEIGHT (KG) |
|--------|---------|------------|------|------|--------|------|------|-------------|
|        |         | A          | B    | C    | D      | E    | L    |             |
| 1/4"   | 1/2T    | 11.9       | 7.85 | 6.35 | 19.05  | 40.4 | 24.6 | 0.06        |
| 5/16"  | 3/4T    | 13.5       | 9.65 | 7.85 | 25.4   | 48.5 | 29.5 | 0.1         |
| 3/8"   | 1T      | 16.8       | 11.2 | 9.65 | 30.99  | 58.5 | 35.8 | 0.15        |
| 7/16"  | 1-1/2T  | 19.1       | 12.7 | 11.2 | 36.09  | 67.5 | 41.1 | 0.22        |
| 1/2"   | 2T      | 20.6       | 16   | 12.7 | 41.04  | 77   | 46   | 0.34        |
| 5/8"   | 3-1/4T  | 26.9       | 19.1 | 16   | 50.8   | 95.5 | 58.5 | 0.67        |
| 3/4"   | 4-3/4T  | 31.8       | 22.4 | 19.1 | 60.45  | 115  | 70   | 1.14        |
| 7/8"   | 6-1/2T  | 36.6       | 25.4 | 22.4 | 71.37  | 135  | 81   | 1.74        |
| 1"     | 8-1/2T  | 42.9       | 28.7 | 25.4 | 81.03  | 151  | 93.5 | 2.52        |
| 1-1/8" | 9-1/2T  | 46         | 31.8 | 28.7 | 90.93  | 172  | 103  | 3.45        |
| 1-1/4" | 12T     | 51.5       | 35.1 | 31.8 | 100.08 | 191  | 115  | 4.9         |
| 1-3/8" | 13-1/2T | 57         | 38.1 | 35.1 | 111.25 | 210  | 127  | 6.24        |
| 1-1/2" | 17T     | 60.5       | 41.4 | 38.1 | 122.17 | 230  | 137  | 8.39        |
| 1-3/4" | 25T     | 73         | 51   | 44.5 | 146.05 | 279  | 162  | 14.2        |
| 2"     | 35T     | 82.5       | 57   | 51   | 171.45 | 312  | 184  | 21.2        |
| 2-1/2" | 55T     | 105        | 70   | 66.5 | 203.2  | 377  | 238  | 38.6        |
| 3"     | 85T     | 127        | 82.5 | 76   | 215.9  | 429  | 279  | 56          |



## TURNBUCKLES U.S. TYPE, DROP FORGED

| SIZE<br>(DIA. & TAKE-UP) | W.L.L   |                            | ITEM     | SIZE/INCH<br>(DIA. & TAKE-UP) | W.L.L (LBS) |                            |
|--------------------------|---------|----------------------------|----------|-------------------------------|-------------|----------------------------|
|                          | H&H H&E | E&E J&E<br>J&J STUB<br>END |          |                               | H&H H&E     | E&E J&E<br>J&J STUB<br>END |
| 1/4 X 4                  | 400     | 500                        | TB125152 | 1X6                           | 5000        | 10000                      |
| 5/16X4-1/2               | 700     | 800                        | TB125304 | 1X12                          | 5000        | 10000                      |
| 3/8 X 6                  | 1000    | 1200                       | TB125457 | 1X18                          | 5000        | 10000                      |
| 1/2X6                    | 1500    | 2200                       | TB125609 | 1X24                          | 5000        | 10000                      |
| 1/2X9                    | 1500    | 2200                       | TB132304 | 1-1/4X12                      | 6500        | 15200                      |
| 1/2X12                   | 1500    | 2200                       | TB132457 | 1-1/4X18                      | 6500        | 15200                      |
| 5/8X6                    | 2250    | 3500                       | TB132609 | 1-1/4X24                      | 6500        | 15200                      |
| 5/8X9                    | 2250    | 3500                       | TB138304 | 1-1/2X12                      | 7500        | 21400                      |
| 5/8X12                   | 2250    | 3500                       | TB138457 | 1-1/2X18                      | 7500        | 21400                      |
| 3/4X6                    | 3000    | 5200                       | TB138609 | 1-1/2X24                      | 7500        | 21400                      |
| 3/4X9                    | 3000    | 5200                       | TB144457 | 1-3/4X18                      | -           | 28000                      |
| 3/4X12                   | 3000    | 5200                       | TB144609 | 1-3/4X24                      | -           | 28000                      |
| 3/4X18                   | 3000    | 5200                       | TB150609 | 2X24                          | -           | 37000                      |
| 7/8X12                   | 4000    | 7200                       | TB164609 | 2-1/2X24                      | -           | 60000                      |
| 7/8X18                   | 4000    | 7200                       | TB170609 | 2-3/4X24                      | -           | 75000                      |



## DIN 1480 TURNBUCKLE

| SIZE | W.L.L | BODY LENGTH |     | ITEM     | SIZE | W.L.L | BODY LENGTH |      | WEIGHT |
|------|-------|-------------|-----|----------|------|-------|-------------|------|--------|
|      |       | MM          | KG  |          |      |       | MM          | KG   |        |
| M6   | 0.2T  | 110         | 0.2 | TB147830 | M30  | 6.2T  | 255         | 6.2  |        |
| M8   | 0.4T  | 110         | 0.4 | TB147833 | M33  | 7.3T  | 295         | 7.3  |        |
| M10  | 0.6T  | 125         | 0.6 | TB147836 | M36  | 8.5T  | 295         | 8.5  |        |
| M12  | 0.9T  | 125         | 0.9 | TB147839 | M39  | 10T   | 330         | 10   |        |
| M16  | 1.3T  | 170         | 1.3 | TB147842 | M42  | 12T   | 330         | 12   |        |
| M20  | 1.7T  | 200         | 1.7 | TB147848 | M48  | 20T   | 355         | 20   |        |
| M22  | 3.2T  | 220         | 3.2 | TB147850 | M50  | 21.5T | 355         | 21.5 |        |
| M24  | 3.9T  | 255         | 3.9 |          |      |       |             |      |        |



With or without lock nut  
Galvanised or hot dip galv  
Hook/hook, hook/jaw, eye/jaw are also available



## DIN 1480 TURNBUCKLE

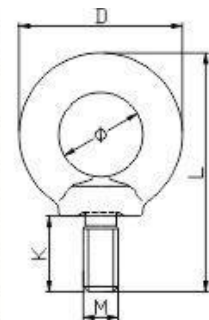
| SIZE | W.L.L<br>TON | BODY LENGTH<br>MM | WEIGHT<br>KG |
|------|--------------|-------------------|--------------|
| M5   | 0.2          | 70                | 0.06         |
| M6   | 0.22         | 110               | 0.078        |
| M8   | 0.41         | 110               | 0.16         |
| M10  | 0.65         | 125               | 0.29         |
| M12  | 0.9          | 125               | 0.43         |
| M14  | 1.1          | 140               | 0.62         |
| M16  | 1.3          | 170               | 0.92         |
| M18  | 1.5          | 180               | 1.25         |
| M20  | 1.7          | 200               | 1.63         |
| M22  | 3.2          | 220               | 2.22         |
| M24  | 3.9          | 255               | 3            |
| M27  | 4.5          | 255               | 3.35         |
| M30  | 6.2          | 255               | 4.6          |
| M33  | 7.3          | 295               | 6.65         |
| M36  | 8.5          | 295               | 7.68         |
| M39  | 10           | 330               | 10.4         |
| M42  | 12           | 330               | 12.9         |
| M45  | 16           | 355               | 16           |
| M48  | 20           | 355               | 21           |
| M52  | 23           | 355               | 23           |

Hook/hook, eye/eye, hook/jaw are also available  
 the size up to 56mm are also available  
 Self color



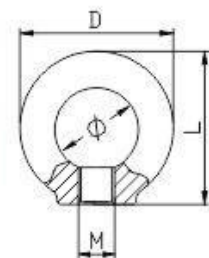
## GRADE 8- EYE BOLT, EBL TYPE

| SIZE | W.L.L |       | MAIN DIMENSIONS |    |    |     | WEIGHT |
|------|-------|-------|-----------------|----|----|-----|--------|
| MM   | WLL 0 | WLL90 | D               | K  | O  | L   | KG     |
| M6   | 0.4   | 0.15  | 28              | 13 | 16 | 42  | 0.05   |
| M8   | 0.8   | 0.4   | 36              | 15 | 20 | 51  | 0.06   |
| M10  | 1     | 0.4   | 45              | 18 | 25 | 63  | 0.11   |
| M12  | 2     | 0.75  | 54              | 22 | 30 | 75  | 0.18   |
| M16  | 4     | 1.5   | 63              | 28 | 35 | 88  | 0.28   |
| M20  | 6     | 2.3   | 72              | 30 | 40 | 101 | 0.45   |
| M24  | 8     | 3.2   | 90              | 38 | 50 | 128 | 0.87   |
| M30  | 12    | 4.5   | 108             | 45 | 60 | 154 | 1.66   |
| M36  | 16    | 7     | 126             | 55 | 70 | 183 | 2.65   |
| M42  | 24    | 9     | 144             | 65 | 80 | 212 | 4.03   |
| M48  | 32    | 12    | 166             | 70 | 90 | 238 | 6.38   |
| M52  | 32    | 12    | 166.5           | 70 | 90 | 238 | 6.6    |



## GRADE 8- EYE BOLT, ENT TYPE

| SIZE | W.L.L |       | MAIN DIMENSIONS |    |     | WEIGHT |
|------|-------|-------|-----------------|----|-----|--------|
| MM   | WLL 0 | WLL90 | D               | O  | L   | KG     |
| M6   | 0.4   | 0.15  | 36              | 20 | 36  | 0.049  |
| M8   | 0.8   | 0.4   | 36              | 20 | 36  | 0.05   |
| M10  | 1     | 0.4   | 45              | 25 | 45  | 0.09   |
| M12  | 2     | 0.75  | 54              | 30 | 53  | 0.16   |
| M16  | 4     | 1.5   | 63              | 35 | 62  | 0.24   |
| M20  | 6     | 2.3   | 72              | 40 | 71  | 0.36   |
| M24  | 8     | 3.2   | 90              | 50 | 90  | 0.72   |
| M30  | 12    | 4.5   | 108             | 60 | 109 | 1.32   |
| M36  | 16    | 7     | 128             | 70 | 128 | 2.08   |
| M42  | 24    | 9     | 144             | 80 | 147 | 3.11   |
| M48  | 32    | 12    | 166             | 90 | 168 | 5.02   |





# GLOVES



**SWG-UIPEXT**



**SWG-GR2**



**SWG-GR8**



**SWG-IMPACT**  
**SWG-IMPACT 9**



**SWG-REDHEAT8**



**SWG-BL8**



**SWG-CL2**  
**SWG-CL8**



**SWG-VIP**



**SWG-CANDY**

# OUTER SAFETY WEAR



**CHROME LEATHER APRON**  
SWA-60X90 /SWA-60X120



**CHROME LEATHER WELDER SPATS**  
SWS-001 / SWS-002



**CHROME LEATHER WELDER SPATS**  
SWY-M / SWY-L /SWY-XL /SWY-XXL  
/ SWY-XXXL



**RAIN SUITS**



**FLAME RETARDANT & ACID  
RESISTANT CONTI SUITS**



**DISPOSABLE OVERALL**



**REFLECTIVE VESTS**

## DURA SAFE – FACE SHIELD COMPONENTS



**MASK-FFP1  
MASK-FFP2  
MASK-FFP2V  
MASK-FFP3  
MASK-FFP3V**



**BROWGAURD,  
HEADGEAR WITH  
CLEAR VISOR  
ITEM: FACE-COMPLETE**



**BROWGAURD &  
HEADGEAR  
ITEM: FACE-JLD006**



**ALUMINUM CAP  
FRAME  
ITEM FACE-JLD002**



**POLY CARBONITE  
CLEAR VISOR / POLY  
VINYL CLEAR VISOR  
ITEM FACE-JLD001PC /  
FACE – JLD00PVC**



# SPECTACLES



SC60625



JLD016



JLD025-1



JLD016-3



JLD016-5



JLD017



JLD017-2



JLD023



GOGG-JLD020

**DIN EN166:2001 - DIN EN170:2002 - UV FILTERING, RECOGNITION OF SIGNAL LIGHTS (C)- PROTECTION TO HIGH SPEED PARTICLES - LOW ENERGY IMPACT (F) CERTIFICATES AVAILABLE ON REQUEST**

|               |                                                             |
|---------------|-------------------------------------------------------------|
| SPEC-60625    | SPOGGLE CLEAR PC LENS WITH FOAM LINING, FOG & UV PROTECTION |
| SPEC-JLD016   | SPECTACLE BLACK FRAME AMBER LENS UV PROTECTION - EURO       |
| SPEC-JLD016-3 | SPECTACLE BLACK FRAME CLEAR LENS UV PROTECTION - EURO       |
| SPEC-JLD016-5 | SPECTACLE BLACK FRAME GREY LENS UV PROTECTION - EURO        |
| SPEC-JLD017   | SPECTACLE BLACK FRAME CLEAR LENS UV/SCRATCH PROTEC - SPORTY |
| SPEC-JLD017-2 | SPECTACLE BLACK FRAME GREY LENS UV/SCRATCH PROTECT - SPORTY |
| SPEC-JLD023   | SPECTACLE CLEAR LENS UV / SCRATCH PROTECT - LARGE SPORTY    |
| SPEC-JLD025-1 | SPECTACLE GREY LENS UV / SCRATCH PROTECT - LARGE SPORTY     |
| GOGG-JLD020   | CLEAR MONO GOGGLE                                           |

## DURA – BARRIER NETTING/ SNOW NETTING

|            |                                         |
|------------|-----------------------------------------|
| NBAR50X1.2 | BARRIER NETTING ORANGE 1.2MX50M         |
| SNET50X1.2 | SNOW NETTING ORANGE / YELLOW 50M X 1.2M |



## DURA – KNUCKLE SAVER

|              |                    |
|--------------|--------------------|
| KNUCKLESAVER | DURA KNUCKLE SAVER |
|--------------|--------------------|



## DURA - RUBBER STOPPER BLOCKS

|            |                                    |
|------------|------------------------------------|
| STOP-BLOCK | RUBBER STOP BLOCK<br>BLACK RC-1808 |
|------------|------------------------------------|



## DURA – TOOL SAVER

|                |                            |
|----------------|----------------------------|
| RIG-TOOLSPIDER | TOOL SPIDER / TOOL LANYARD |
|----------------|----------------------------|



## DURA SAFE – EAR PLUGS

|              |                                |
|--------------|--------------------------------|
| EAR-JLE001-3 | EAR PLUG CORDED FOAM           |
| EAR-JLE005   | EAR PLUG CORDED RE-USABLE TREE |



## TOOLBAG



## DURA SAFE – WELDING GOGGLE & WELDING HELMETS



GOGG-JLA018-1



SWH-LF



SWH-MFF



SWA-AUTO



SWH-HH

| ITEM CODE     | DESCRIPTION                             |
|---------------|-----------------------------------------|
| GOGG-JLA018-1 | LIFT FRONT WELDING GOGGLE               |
| SWH-HH        | LIFT FRONT WELDING HELMET FITS HARD HAT |
| SWH-LF        | LIFT FRONT WELDING HELMET               |
| SWH-MFF       | MONKEY FACE WELDING HELMET FLIP FRONT   |

## DURA SAFE - WELDING LENSES



|            |                                                    |
|------------|----------------------------------------------------|
| SWL-8      | WELDING LENS SHADE 8 PROTANE GREEN 108 X 51MM      |
| SWL-9      | WELDING LENS SHADE 9 PROTANE GREEN 108 X 51MM      |
| SWL-10     | WELDING LENS SHADE 10 PROTANE GREEN 108 X 51MM     |
| SWL-1000HR | WELDING LENS CLEAR 1000 HOUR POLYCARBON 108 X 51MM |
| SWL-11     | WELDING LENS SHADE 11 PROTANE GREEN 108 X 51MM     |
| SWL-12     | WELDING LENS SHADE 12 PROTANE GREEN 108 X 51MM     |
| SWL-CLEAR  | WELDING LENS CLEAR GLASS 108 X 51MM                |



# IRON MAN® FULL BODY HARNESS WITH WAIST BELT



## HD-SERIES

### HD / PLAIN

- Full body harness, with waist belt - no lanyard.
- 45mm Chest strap with 2 part interlocking buckle.
- SANS 50361.



### HD / SINGLE / SNAP HOOK

- Full body harness with waist belt.
- Webbing lanyard with safety snap hook and shock absorbing element.
- Lanyard length - maximum, including shock absorbing element, of 1,75m.
- SANS 50354, 50355 and 50361.

### HD / DOUBLE / SCAFFOLD HOOK

- Full body harness with waist belt.
- Double webbing lanyard with scaffold hooks, permanently attached.
- Lanyard length - maximum, including shock absorbing element, of 1,75m.
- SANS 50354, 50355 and 50361.

SEE PAGE 18 FOR HOOK / CONNECTOR  
OPTIONS







## IRON MAN® FULL BODY HARNESS



### KEVLAR®

- Full body harness without waist belt.
- Supplied with webbing lanyard with shock absorbing element and scaffold hooks.
- Lanyard length (including shock absorbing element), is a maximum of 1,75m.
- High tensile strength, spark resistant webbing.
- SANS 50354, 50355 and 50361.

### ROPE ACCESS

- Full body, comfort-fit, harness without lanyard.
- Padded shoulder, leg and kidney support.
- 2 x Attachment points - 1 x chest and 1 x back.
- Work positioning attachment points on hips.
- SANS 50358 and 50361.



### TRANS-TEC PLUS

- Full body harness with padded shoulder, leg and kidney support.
- 3 x Attachment points - 2 x front and 1 x back.
- Work positioning attachment points on hips.
- Aluminium hardware.
- Quick release buckles.
- SANS 50358 and 50361.





# IRON MAN® FULL BODY HARNESS TRANSNET



## MPH 5 KIT

- Full body harness.
- Aluminium hardware.
- 3 x Attachment points:  
2 x on front;  
1 x on back.
- Work positioning attachment point on hips.
- Anti-Static / non-conductive / flame retarded webbing with reflective strip.
- Padded shoulders, legs and waist.
- Standing step-up strap in pouch on waist belt.
- SANS 50358 and 50361.



## 2M ADJUSTABLE WORK POSITIONING WEBBING LANYARD

- 2 x Aluminium carabiners with twist lock and dedicated eye.
- SANS 50354 and 50355.



## 1,5M ADJUSTABLE DOUBLE LEG WEBBING LANYARD

- Shock absorbing element.
- PN160 Carabiner for attachment to harness.
- 2 x Aluminium pylon hooks.
- SANS 50354 and 50355.



## WEBBING ATTACHMENT STRAP

- 1,5m pull-to-pull.
- SANS 50366.



## IRON MAN® FULL BODY HARNESS



### CLIMBERS

- Full body climber's harness.
- Padded shoulder, leg and waist straps.
- 2 x Attachment points - 1 x chest and 1 x back.
- Work positioning attachment points on hips.
- 3 x Tool loops.
- Elasticated buttock straps.
- For lanyard options, see pages 11 and 12.
- SANS 50358 and 50361.

### RIGGERS

- Full body harness with padded shoulder, legs and waist straps.
- 5 x Attachment points.
- Double leg fall arrest lanyard with shock absorbing element and scaffold hooks and stirrup line, or see pages 11 and 12 for other lanyard options.
- SANS 50354, 50355, 50358 and 50361.



### PYLON FALL ARREST KIT

- Full body harness with padded waist belt.
- Galvanized high tensile steel hardware and connectors.
- Fall Arrest attachment points on back and chest. Work positioning attachment points on hips.
- Double leg shock absorbing Fall Arrest lanyard with scaffold hooks.
- Adjustable work positioning lanyard with snap hooks.
- Attachment strap and hold-all bag.
- SANS 50354, 50355, 50358, 50361, 50566.







# IRON MAN®

## FULL BODY HARNESS

### 400-SERIES



#### HD / Plain 400 Series 1 Point

- Full body harness with 45mm waist belt.
- Single attachment point between shoulder blades.
- 45mm Chest strap with steel 2 part interlocking buckle.
- Extra attachment point between shoulder blades for recovery purposes.
- SANS 50361.

#### HD / Plain 400 Series 3 Point

- Full body harness with 45mm waist belt.
- 3 x Attachment points:  
1 x between shoulder blades and 2 x on chest.
- 45mm Chest strap with steel 2 part interlocking buckle.
- Extra attachment point between shoulder blades for recovery purposes.
- SANS 50361.



#### HD / Plain 400 Series 5 Point

- Full body harness with 45mm waist belt.
- 3 x Attachment points:  
1 x between shoulder blades;  
2 x on chest.
- Work positioning attachment points on hips.
- Kidney support - permanently attached to waist belt.
- 45mm Chest strap with steel 2 part interlocking buckle.
- SANS 50358 and 50361.



## IRON MAN® WORK POSITIONING BELTS



### HC / STD / SPWS - SNAP HOOK

- 75mm Waist belt with **single pin buckle** and kidney support.
- Sizes - small, medium and large.
- Fitted with 6-tool loops.
- 2m Webbing lanyard permanently attached to a D-Ring.
- Wear sleeve on lanyard.
- Terminating with safety snap hook.
- SANS 50354 and 50358.



### HC / UNI / DPWS - CARABINER

- 75mm Waist belt with **double pin buckle** and kidney support.
- Fitted with 6-tool loops.
- 2m Webbing lanyard permanently attached to a D-Ring.
- Wear sleeve on lanyard.
- Terminating with aluminium screw gate carabiner hook.
- SANS 50354 and 50358.

## MINERS CAPLAMP BELTS (NON SABS)



- 45mm Webbing shoulder straps.
- With EVA kidney support.
- Double battery strap.



### CDC 73

- 57mm Black webbing with 2 part interlocking buckle.
- Also available in 50mm webbing code CDC 74.
- Double battery strap.



### CDC 73 S/S

- As for CDC 73 but with adjustable shoulder straps.





## CONFINED SPACE ACCESSORIES



### TRIPOD - PN800 (10ft.)

- Fully adjustable telescopic legs.
- Fully Adjustable Height From: 1,9m to 3,07m
- Wheelbase Size: 1,7m Diameter
- Weight: 16,8kg
- Maximum Load Capacity: 500kg
- 2 x Pulleys at the head of the tripod for cables.
- 2 x Eye bolts for attachment points.
- Aluminium alloy cast head and legs.
- Steel support shoes provided with rubber sole to improve friction and increased stability.

## ACCESSORIES



### BRACKET - PN800 A(R)(09)

- For 30m retrieval block.



### RETRIEVABLE BLOCK - PCGS30R

- See page 27.



### DOUBLE PULLEY - AP013(SS)

- To be used with retrieval fall arrester blocks.



### SINGLE PULLEY - AP012(SS)

- To be used with retrieval fall arrester blocks.



### WINCH - PN801

- To be used for raising or lowering of personnel or material into confined areas.
- Equipped with bolting fixture for robust fitting.
- Maximum Lifting Load: 135kg
- Maximum Lifting Load of Machinery: 250kg
- Length: 30m



## ACCESSORIES

### TELESCOPIC POLE - PN815

- Used to install an anchorage point from a distance.
- Material: Fibre Glass
- Maximum Length: 7,95m
- Minimum Length: 1,95m
- Weight: 3,8kg



### HANGING HOOK - PN815(03)

- Material: Alloy Steel and Plastic Moulded
- Weight: 190g



### HEAD - PN815(01)

- Length: 240mm
- Weight: 185g



### EXTENSION SECTION - PN815(02)

- Length: 1m
- Weight: 425g



### ALUMINIUM ANCHORAGE HOOK - PN154

- Material: Aluminium Alloy
- Opening: 60mm
- Minimum Breakage Strength: 23kN
- Weight: 480g
- Finish: Natural Silver / Coloured Anodized
- EN 362:2004, Class A and EN 795:2012, Type B.



## ACCESSORIES



**EASY SEAT - IMP004**



### TELECOMMUNICATION HARNESS

- Eskom Specifications (APPROVED)
- Full body harness with aluminium hardware.
- Padded kidney support permanently attached.
- 3 x Attachment points:  
2 x on chest;  
1 x on back.
- Work positioning attachment point on hips.  
(Easy Seat Attachment)
- SANS 50358 and 50361.

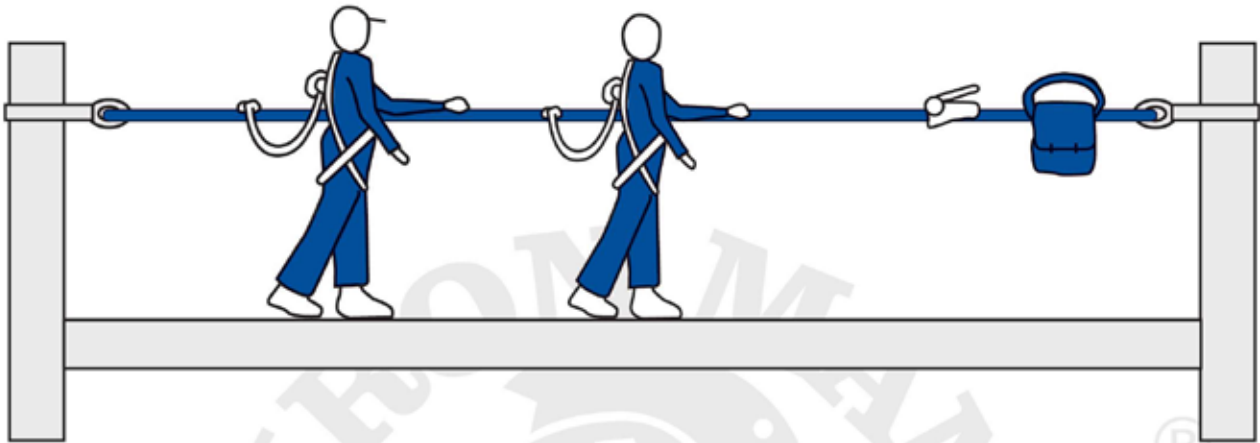






## ACCESSORIES

### STATIC LIFE LINE KITS



#### ROPE HORIZONTAL LIFE LINE



- |                                                  |                                                                       |
|--------------------------------------------------|-----------------------------------------------------------------------|
| 1 11mm Ø Static rope (longer length on request). | 4 Lory to maintain tension and terminate end of rope at anchor point. |
| 2 Hold all bag.                                  | 5 Oval carabiner for worker's attachment.                             |
| 3 2 x Attachment straps.                         |                                                                       |

#### WEBBING HORIZONTAL LIFE LINE



- |                          |                                                                                       |
|--------------------------|---------------------------------------------------------------------------------------|
| 1 Hold all bag.          | 4 Webbing safety line with hooks on both ends (various lengths available on request). |
| 2 2 x Attachment straps. | 5 Oval carabiner for worker's attachment.                                             |
| 3 50mm Ratchet.          |                                                                                       |





# IRON MAN® POWERLINES FALL ARREST KIT (D12700)



## The Fall Arrest Kit consists of:

- Full body harness with aluminium hardware and 4 x attachment points.
- Anti-Static and Flame Retardant Webbing.
- 1,75m Double leg webbing lanyard including shock absorbing element, 1 x carabiner and 2 x scaffold hooks for fall arrest.
- 2m Adjustable webbing lanyard for work positioning.
- 2 x Attachment straps.
- 12mm Nylon Rope Work Positioning Lanyard.
- Hold-all bag.



## HD / Powerlines Harness

- Full body harness with aluminium hardware.
- Anti-Static and Flame Retardant Webbing.
- Padded kidney support permanently attached.
- 2 x Attachment points:
  - 1 x between shoulder blades;
  - 1 x on chest.
- Work positioning attachment points on hips.
- SANS 50358 and 50361.



## 2 x Webbing Attachment Straps

- 1.75m Pull to pull.
- SANS 50566 and 50795.



## 12mm Nylon Rope Work Positioning Lanyard

- (a) Carabiner (PN160);
- (b) Stainless steel twist lock carabiner with captive pin;
- (c) Length: 2m;
- (d) Guided Type Fall Arrester S-2191ISS;
- (e) SANS 50354 and 50358.

## 1.75m Webbing Lanyard including:

- (a) Shock absorbing element;
- (b) Carabiner (PN160) for attachment to harness;
- (c) 2 x Scaffold hooks S-979 - Aluminium;
- (d) SANS 50354 and 50355.



## 2m Adjustable Work Positioning Webbing Lanyard

- 2 x Aluminium alloy carabiners (PN160) with twist lock and dedicated eye.
- SANS 50354 and 50358.





**142 COMPRESSORS, GENERATORS, LIGHT TOWERS & DIESEL BOWSERS**

# INDUSTRIAL GENERATORS

9.0kVA – 2250kVA

Open type – Sound attenuated – Containerized

Diesel - Natural Gas – LPG Driven

50 or 60 Hz



| OUTPUT KVA       | 23/25           | 30/33    | 60/66     | 100/110   | 200/215   | 205/275   | 350/375   | 500/550  |
|------------------|-----------------|----------|-----------|-----------|-----------|-----------|-----------|----------|
| MODEL            | GMS 22CS        | GMS30CS  | GMS60CS   | GMS100CS  | GMS200CS  | GMS250CS  | GMS350CS  | WPS500S  |
| ENGINE TYPE      | CUMMINS         |          |           |           |           |           |           | PERKINS  |
| ALTERNATOR TYPE  | NEWAGE STAMFORD |          |           |           |           |           |           |          |
| ENGINE SPEED     | 1500 RPM        |          |           |           |           |           |           |          |
| OUTPUT           | 400 V           |          |           |           |           |           |           |          |
| FREQUENCY        | 50 HZ           |          |           |           |           |           |           |          |
| FUEL TYPE        | DIESEL          |          |           |           |           |           |           |          |
| TANK CAPACITY    | 165 L           | 165 L    | 254 L     | 280 L     | 470 L     | 660 L     | 800 L     | 1020 L   |
| FUEL CONSUMPTION | 6.7 L/PH        | 6.8 L/PH | 13.1 L/PH | 22.0 L/PH | 45.5 L/PH | 53.4 L/PH | 71.9 L/PH | 106 L/PH |
| @ 100% LOAD      |                 |          |           |           |           |           |           |          |
| WEIGHT (DRY)     | 1192 KG         | 1242 KG  | 1543 KG   | 2061 KG   | 2700 KG   | 4175 KG   | 4546 KG   | 5411 KG  |



# COMPRESSORS



| MODEL    | FLOW RATE |           | PRESSURE/BAR | BRAND  | MODEL         | DISCHARGE STANDARD | ROTATING SPEED/ RPM | POWER/KW |
|----------|-----------|-----------|--------------|--------|---------------|--------------------|---------------------|----------|
|          | m³/min    | cu.ft/min |              |        |               |                    |                     |          |
| DS185-7  | 5         | 177       | 7            | KUBOTA | V1505-T-E3B   | TIER 3             | 3000                | 33       |
| DS200-7  | 5.5       | 195       | 7            | KUBOTA | V2403-M-T-E3B | TIER 3             | 2701                | 44       |
| DS285-8  | 8.1       | 286.25    | 8            | KUBOTA | V3600-T-E3B   | TIER 3             | 2600                | 63       |
| DS375-8  | 10.27     | 362.94    | 8            | KUBOTA | V3800DI-T-E3B | TIER 3             | 2600                | 74       |
| DR480-8  | 13.73     | 485.29    | 8            | DECE   | 6BTA5.9-C180  | N/A                | 2200                | 132      |
| DR700-8  | 19.2      | 678.53    | 8            | DECE   | 6BTA5.9-C180  | N/A                | 2200                | 132      |
| DR850-7  | 24.1      | 851.69    | 7            | DECE   | 6CTA8.3-C240  | N/A                | 1900                | 176      |
| DR1050-8 | 29.1      | 1028.39   | 8            | DECE   | 6LTAA8.9-C360 | TIER 2             | 2000                | 256      |



# LIGHTING TOWER

## VL4K-B - POWERED BY KUBOTA

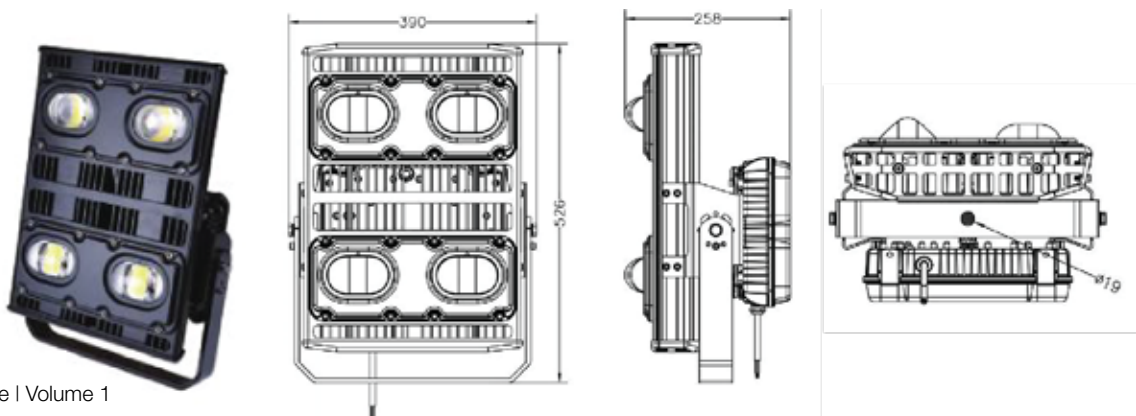
### STANDARD FEATURES:

- 8 meters Maximum Height
- 8 meters Maximum Height
- SINGLE PHASE
- FREQUENCY 60Hz
- R.P.M. 1500/1800
- WATER-COOLED
- METAL HALIDE
- Manual Lifting system
- DIESEL



| ITEM                         | DESCRIPTION                                                                                                  | REMARKS |
|------------------------------|--------------------------------------------------------------------------------------------------------------|---------|
| RATED POWER                  | 500W                                                                                                         |         |
| OPERATING VOLTAGEΦFREQUENCYΦ | AC 100~240V, 50/60HZ                                                                                         |         |
| INPUT CURRENT                | 2017A/230V                                                                                                   |         |
| POWER EFFICIENCY             | 93%                                                                                                          |         |
| LED TYPE                     | CITIZEN LEDX4PCS                                                                                             | 5000K   |
| PROTECTION STANDARD          | IP67                                                                                                         |         |
| OPERATING TEMPERATURE        | -40°C~+50°C                                                                                                  |         |
| DRIVER BRAND                 | MEANWELL HLG-240H X 2                                                                                        |         |
| LUMINOUS FLUX FOR LUMINAIRE  | 52500~57500LM                                                                                                |         |
| APPLICATION                  | SQUARE,TUNNEL, SPOT/FLOOD LIGHTING/MINING LIGHTING                                                           |         |
| MEASUREMENT                  | 526MMX390MMX258MM                                                                                            |         |
| LENS BEAM TYPE               | B1 LENS BEAM ANGLE: X=45°,Y=40°<br>C LENS BEAM ANGLE: X=120°Φ=55°<br>B1 LENS + C LENS: BEAM ANGLE X=45°Φ=65° |         |
| WEIGHT(KG)                   | 15.5KG                                                                                                       |         |

### OPTIONAL - LED LIGHT FITTINGS



## DIESEL BOWSERS



**1000L MILD STEEL TANK WITH 12V DC PUMP & MECHANICAL FLOW METER**



**1000L POLYETHYLENE TANK WITH 12V DC PUMP & MECHANICAL FLOW METER**



**1500L MILD STEEL TANK WITH 12V DC PUMP & MECHANICAL FLOW METER**



**1500L POLYETHYLENE TANK WITH 12V DC PUMP & MECHANICAL FLOW METER**

## POWER GENERATOR - ABBREVIATIONS, CONVERSIONS & FAQ'S

### Abbreviations

**A** - Amperes, or amps, is a measure of how many electrons are flowing. The flow of electrons through a conductor is called electric current.

**hp** – Horsepower is a unit of measurement of power,

**kW** – kilowatt – A measure of 1000 Watt of power **kVA** - is kilo-volt-ampere, a unit of apparent power, which is electrical power unit.

**dB** - Decibel output - is used to indicate the level of acoustic waves and electronic signals. This is measured at 7m from any side of the unit at 100% load.

**W** – Watt – 1000 Watt = 1 kW of power

### Conversions -

Hp to kW –  $hp \div 1.341 = kW$

kW to kVA –  $kW \times 1.25 = kVA$

kVA to kW –  $kVA \div 1.25 = kW$

Amps output 1 ph -  $kVA \times 1000 \div 230 = \text{Amps per 1 phase}$

Amps output 3 ph -  $kVA \times 1000 \div 692.8 = \text{Amps per phase}$

Fuel consumption g/kWh – L/ph:

$g/kWh \times \text{engine KW} \div \text{Fuel density (Diesel } 850 \text{ kg/m}^3 \text{ - Petrol } 710 \text{ kg/m}^3) = \text{Liter per hour}$   
ie  $218 \text{ g/kWh consumption} \times 38 \text{ kw engine} \div 850 = 9.74 \text{ liter per hour}$

### FAQ's

**ATS panel – (Automatic Transfer Switch)** An electrical switch that automatically switches the load between two sources during a power failure and back again when the grid power comes back on line, meaning the generator will start up automatically and shut down again when the grid power returns. Important - always ensure that the size of the ATS panel is the same as the incoming grid power capacity ie. if the incoming grid power is 63A the ATS panel must be 63A or higher capacity but not smaller

**De-rate for Altitude** The de-rating formula commonly used in SA is 3% for every 1000 ft above sea-level for Natural aspirated engines and 1.5% for Turbo charged engines

**Engine Glazing** Cylinder bore glazing results from prolonged light load running, particularly during the running-in process, and leads to the formation of a surface coating or skin derived from chemicals present in the oil and fuel. A generator must be utilized within 65%-85% of its rated capacity to avoid glazing & ensure a long engine life.

**Manual Change Over Switch** A power transfer switch that must be switched over manually during a power failure. It normally has an indicator light that shows the selected mode ie Mains or Generator and will indicate when the grid power is back online. Important - always ensure that the size of the Manual Change Over Switch is the same as the incoming grid power supply capacity. ie. if the incoming grid power is 63A the switch must be 63A or higher capacity but not smaller.

## Power Factor

**Single-Phase Generators** – for smaller single-phase loads up to 15-20kva. They are commonly used in residential environments and have a power factor of 1.0.

**3-Phase Generators** – mainly for larger industrial power generation, these gensets can provide both single and 3-phase power for running industrial motors with higher horsepower, branch power out for separate lines, and are in general more flexible. They are typically used in commercial environments and have a power factor of 0.8.

## Prime Power/ Standby Power

Engines worldwide are rated at sea level to obtain the maximum output power rating because of the low altitude

- Prime power – Prime power is the maximum continuous output on a genset and traditionally 10% lower than the standby power rating of the generator or when a specific power output is required at a specific altitude. i.e. If the customer requires a 100kva prime power in Gauteng one need to offer a higher output genset to compensate for the de-rating. A 110kva (turbo charged) prime power unit at sea level will have an output after de-rating (approx. 9%) of 100 kva prime power in Gauteng (5800ft above sea level) so that will be the obvious choice.
- Standby power – is the maximum output of the generator and allows for a maximum of one hour above prime rated capacity in any 12 hours
- Standby Generator – is a unit that is installed on a permanent basis and fitted with an ATS panel that will start-up & shut down automatically during grid power failures.

## CABLE SIZE REQUIREMENT FOR VARIOUS AMPERAGES & CIRCUIT BREAKER SIZES

| CABLE RATING TABLE                            |                               |                                           |
|-----------------------------------------------|-------------------------------|-------------------------------------------|
| Cable Cross Sectional Area (mm <sup>2</sup> ) | Typical Current Rating (amps) | Recommended Circuit Breaker Rating (amps) |
| 1.5mm <sup>2</sup>                            | 7.9-15.9A                     | 8A                                        |
| 2.5mm <sup>2</sup>                            | 15.9-22A                      | 15A                                       |
| 4mm <sup>2</sup>                              | 22-30A                        | 20A                                       |
| 6mm <sup>2</sup>                              | 30-39A                        | 30A                                       |
| 10mm <sup>2</sup>                             | 39-54A                        | 40A                                       |
| 16mm <sup>2</sup>                             | 54-72A                        | 60A                                       |
| 25mm <sup>2</sup>                             | 71-93A                        | 80A                                       |
| 50mm <sup>2</sup>                             | 117-147A                      | 125A                                      |
| 70mm <sup>2</sup>                             | 147-180A                      | 150A                                      |
| 95mm <sup>2</sup>                             | 180-216A                      | 200A                                      |
| 120mm <sup>2</sup>                            | 216-250A                      | 225A                                      |
| 150mm <sup>2</sup>                            | 250-287A                      | 275A                                      |
| 185mm <sup>2</sup>                            | 287-334A                      | 300A                                      |
| 240mm <sup>2</sup>                            | 334-400A                      | 350A                                      |

## Electric motor/ borehole pump starting – Generator power

Important - an induction motor, starting “across the line”, will typically have an instantaneous current draw 6-7times the running Amps on start-up e.g. an electric motor is rated at 20A while running so on start-up it may draw 120-140A .

## Small petrol & diesel driven generators for household purposes

**Petrol driven** It is not advisable to use an ATS panel on a petrol driven generator set because of the manual choke action for start-up of a petrol driven engine and no action to automatically stop the generator. It is therefore advisable to fit a manual change over switch when using a petrol driven genset.

Bear in mind that an 12V electric start (diesel or petrol driven) unit is mostly recommended where children, women & older people reside due to the heavier pull start action of the manual start units.

If the electric start petrol unit is a permanent installation a trickle-charger must always be fitted to keep the battery full.

**Important - A petrol unit must always be placed in a well-ventilated area not close to doors or windows because of the toxic exhaust gasses.**

**Diesel driven** The smaller electric start diesel generator set has no choke action for starting and can be fitted with an ATS panel that will start up & shut down automatically because it is fitted with a stop solenoid. It must be placed in a well-ventilated area and a trickle-charger fitted to keep the battery full at all times

**All permanent generator installations must be handled by a competent person and a COC (certificate of compliance) must be provided for insurance purposes.**





148  
**RENTALS**



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**Afritech Equipment Solutions has a complete range of rental equipment that caters that caters for all industry sectors across Southern Africa.**

Since its inception, Afritech Equipment Solutions has grown substantially to become the industry leader in the rental of site specific plant and equipment.

Our rental fleet caters for the small and large engineering establishments to major projects and shutdowns in the petrochemical , power generation , paper and pulp and other industry sectors.

Our team, with their combined experienced, has arguably the most experience in the rental industry and has successfully supplied and managed numerous major shutdowns and projects across Southern Africa.

With a national footprint, Afritech Equipment Solutions can offer the necessary and crucial technical back up for any project, of any scope, at any time, anywhere in South Africa.



## 1) WELDING MACHINES

### Diesel Driven

- 300A DC welder with 1 x 230v Auxiliary Power Outlet on Roadworthy Trailer
- 600A DC Welder with 1 x 230v Auxiliary Power Outlet on Roadworthy Trailer
- Twin Pack - 30kva Welding Unit that Accommodate 2 x 380V Inverter Welding Machines with 2 x 230V Auxiliary Power Outlets on Roadworthy Trailer
- Quad Pack - 40kva Welding Unit that Accommodate 4 x 380V Inverter Welding Machines with 4 x 230V Auxiliary Power Outlets on Roadworthy Trailer
- Six Pack - 100Kva welding Unit on Roadworthy Trailer with Separate Welding Pack Frame that accommodate 6 x 380V Inverter Welding Machines with 6 x 230V Auxiliary Power Outlets



### Optional Extra:

Welding Cable sets  
Fire Extinguisher  
Welding Consumables  
Installation COC's  
Client to supply own Diesel Fuel for Rental Units



### Inverter Welding Machines 230V & 380V & 380V/525V

- 200A DC Inverter welder 230V for MMA/S-TIG  
– DURA ARC 200
- 200A DC Inverter welder 230V for MMA/CELLULOSIC Pipeline Welding – DURA ARC 200 II
- 315A AC/DC Inverter 380V for HF PULSED TIG/MMA Welding  
– DURA A TIG 315PAC
- 400A DC inverter welder 380V/525V for MMA/S-TIG/GOUGING  
– DURA ARC 400
- 400A DC Inverter welder 380V for MMA/CELLULOSIC Pipeline Welding  
– DURA ARC 400 II
- 400A DC Inverter Welder 380V/525V for HF DC TIG/MMA Welding  
– DURA A TIG 400
- 600A 380V/525V DC Inverter Welder 380/525V for MMA/S-TIG/GOUGING – DURA ARC 600



### Optional Extra:

Tig Torches with Flowmeter  
Tig Torch Consumables  
Welding consumables  
Gouging Torch/Hoses/Compressor  
Gouging Consumables  
Welding Gasses



### Inverter Mig/Fluxcore/Multi Process Welding Machines 380V & 380/525V

- 400A DC-CC/CV M/Process Inverter 380V/525V c/w W/Feeder & Gun for MIG/MMA/S-TIG/FCAW – FLEXI ARC 400
- 500A DC Inverter 380V c/w Wire Feeder & Mig Gun for PULSED MIG Welding  
– SUPER MATRIX 500
- 500A DC Inverter 380V/525V c/w Wire Feeder & Mig Gun for MIG/FCAW Welding  
– DURA MIG 500
- 600A DC-CC/CV M/Process Inverter 380V/525V c/w W/Feeder & Gun for MMA/S-TIG/MIG/FCAW – FLEXIARC 600



### Optional Extra

Mig Torch Consumables  
Welding consumables  
Welding Trolley  
Water Cooler  
20M Interconnecting Cable  
Welding Gasses

### Inverter Plasma Cutter

- Plasma Cutter - 30mm Capacity 380V/525V c/w torch

### Optional Extra:

Plasma Torch Consumables  
Air Hoses  
Compressor or Gas



## 2) WELDING EQUIPMENT

- Cable set 5m for 200A Inverter
- Earth Pigtail (ea) 35mm/50mm/70mm square cable
- Electrode Pigtail (ea) 35mm/50mm/70mm square cable
- Cable extensions (ea) 35mm/50mm/70mm square cable



## 3) TORCHES

- Arc Air Gouging Torches 400A & 500A
- Tig torch with flow meter 7.5m
- Tig torch with flowmeter 20m
- Tig torch with flex head & flow meter 7.5m
- Tig torch with flex head & flow meter 20m



Arc Air Gouging Torch



Tig Torch

## 4) ELECTRODE OVENS

- Electrode Hotbox 10kg – 0-150 °C - 230V
- Electrode Drying oven – 0-300 °C - 230V
- Electrode Baking oven – 0-450 °C - 230V

Electrode  
Baking oven

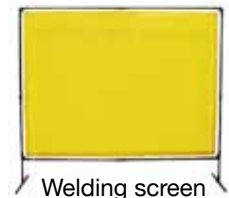


## 5) WELDING SCREENS/BLANKETS/TARPAULINS

- Welding Screens c/w Frame 2.5m x 2.5m
- Welding Blankets 2m x 2m
- Tarpaulins 2m x 2m



Welding blanket



Welding screen

## 6) GAS EQUIPMENT

- Oxy/Acet Cutting Torch Set complete 25m
- Oxy/Acet Cutting Torch Set Complete 50m
- Oxy/Acet Straight Line Cutter c/w 3m rail
- Oxy/Acet Manual Pipe Cutter (Hancock Type) c/w chain



Cutting  
Torch



Oxy /Acet  
Manual Pipe  
Cutter

## 7) HEATING EQUIPMENT

- Propane Heating Torch c/w Regulator & Torch
- Oxy Propane Heating Torch c/w Regulators & Torch



Propane heating torch

## 8) GAS CYLINDER TROLLEY'S & CAGES

- Gas Cylinder Trolley – Single
- Gas Cylinder Trolley – Double
- Gas Cylinder Lifting Cage – 4 units
- Gas Cylinder Storage Cage – 12 units



Gas cylinder  
storage cage



Gas storage  
cage



Gas cylinder  
trolley



## 9) POWER TOOLS

- Angle Grinders 115mm - Bosch/Metabo
- Angle Grinders 125mm - Bosch/Metabo
- Angle Grinders 150mm - Bosch/Metabo
- Angle Grinders 230mm - Bosch/Metabo
- Pencil Die Grinder 6mm – Bosch/Metabo
- Straight Grinder 150mm – Bosch/Metabo
- Cut Off Saw (slow speed) – Evolution
- Pistol Impact Drills 1.5-13mm Bosch/Metabo
- Rotary Hammer Drills 1.5-16mm Bosch/Metabo
- Rotary Hammer Drill HD 12-45mm Bosch/Metabo
- Impact Wrench ½" Drive Bosch
- Impact wrench ¾" Drive Bosch
- Impact wrench 1" Drive Bosch
- Cordless (Battery Operated) Impact ½" drive Bosch/Makita/Metabo
- Cordless (Battery Operated) Impact ¾" drive Bosch/Makita/Metabo
- Cordless (Battery Operated) Grinder 4 ½" - Bosch/Metabo
- Pistol Drill (Battery Operated) 1.5-13mm – Bosch/Metabo
- Jig Saw – Bosch/Metabo
- Reciprocating Saw - Bosch
- Nibbler – Bosch/Metabo
- Magbase Drill/Core Cutter 12-35mm Capacity
- Magbase Drill/Core Cutter 12-50mm Capacity



## 10) PNEUMATIC TOOLS & ACCESSORIES

- Angle Grinder 9"
- Angle Grinder 7"
- Angle grinder 4.5"
- Pencil grinder 6mm
- Straight grinder 150mm
- Pistol drill reversible 13mm
- Impact Wrench ½" Drive
- Impact Wrench ¾" Drive
- Impact Wrench 1" Drive
- Impact Wrench 1 ½" Drive
- Needle de-scaler Pistol Type
- Air Chipping Hammer 2"
- Air Stripping Tool (Bristol Blaster)
- Air Ratchet ½" Drive
- Air Manifold 6 way
- Air Venturi (Ventilator)
- Air Tube Saw
- Pipe Beveling machines ½"-3"
- Air Filter/Lubricator on Stand
- Air Hoses 20mm x 25m with Chicago Coupling



Air Venturi

Impact Wrenches



Air manifold



Air tube saw

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## 11) ELECTRICAL EQUIPMENT

- Fluorescent Light on Stand
- Floodlight on stand LED
- Lead light 230v
- Lead light 12v
- Portable Earth Leakage unit 230V Twin Outlet
- Industrial Vacuum Cleaner
- High Pressure cleaner 230V (150bar)
- High Pressure washer 380v (200bar)
- Wap High Pressure Warm Water Cleaners



Earth leakage unit



Industrial vacuum cleaner



High pressure washer

## 12) ELECTRICAL DISTRIBUTION BOARDS

- DB Board 380V – 6 x 380V (63A) & 6 X 230V Power Outlets (Various Types)
- DB Board 525V (with Step Down Transformer) – 6 x 525V (63A) & 6 x 230V Power Outlets (Flat Oval Outlets)
- DB Board 230V – 6 x 230V (16A) Power Outlets - 230V Primary Input Power
- DB Board 230V – 6x 230V (16A) Power Outlets & 1 x 230V (32A) Power Outlet – 230V Primary Input Power
- DB Board 230V – 6 x 230V (16A) Power Outlets – 380V Primary Input Power
- DB Board 230V – 6 x 230V (32A) Power Outlets – 380V Primary Input Power (Use for ARC 200II Inverter Welder)



## 13) DB BOARD TRAILING CABLE / MALE SOCKETS / ELECTRICAL EXTENSIONS

- Trailing cable 5m – (230V=10mm Square Cable & 380V=30mm Square Cable)
- Various Type's Mail Sockets
- 380V Extension Fitted with Male & Female Socket x 15m long
- 230V Extension reel with 2 x 230V Power Outlets & Fitted with 25m Cabtyre Cable
- 230V Extension reel with 2 x 230V Power Outlets & Fitted with 25m Screened Cable



Extension reel



Training cable

## 14) ELECTRICAL TRANSFORMERS

- Boiler Inspection Transformer 230V-12V
- Step Down Transformer 525-380V - 12.5 kva
- Auto Transformer 380/525V – 525/380V (Step Up/Step Down) – 350KVA



230V-12V (Boiler) Transformer

## 15) EXTRACTOR FANS

- 200mm Diameter x 230V
- 500mm Diameter x 230V
- 500mm Diameter x 380V
- 800mm Diameter x 380V



## 16) LIFTING & RIGGING EQUIPMENT

### Chain Blocks

- Chain Block 1T with Overload Protection – 3m & 6m Lift
- Chain Block 2T with Overload Protection – 3m & 6m Lift
- Chain Block 3T with Overload Protection – 3m & 6m Lift
- Chain Block 3 Single Fall with Overload Protection – 9m & 12m Lift
- Chain Block 5T with Overload Protection – 3m & 6m Lift
- Chain Block 10T with Overload Protection – 6m Lift
- Chain Block 20T with Overload Protection – 6m Lift

### Ratchet Lever Hoists

- Lever Hoist 0.8T with Overload Protection – 1.5 & 3m Lift
- Lever Hoist 1.6T with Overload Protection – 1.5 & 3m Lift
- Lever Hoist 3.2T with Overload Protection – 1.5 & 3m Lift
- Lever Hoist 6.3T with Overload Protection – 1.5 & 3m Lift

### Rope Winches (Tirfor Type)

- Rope Winch 1.6T c/w 30m Rope
- Rope Winch 3.2T c/w 30m Rope

### Beam Clamps

- Beam Clamp - 2T
- Beam Clamp - 3T
- Beam Clamp - 5T
- Beam Clamp - 10T

### Beam Crawls

- Beam Crawl Plain - 3T
- Beam Crawl Plain - 5T
- Beam Crawl Geared - 3T
- Beam Crawl Geared - 5T
- Beam Crawl Geared - 10T

### Manilla rope blocks

- 2 & 3 Sheave – 13mm
- 2 & 3 Sheave – 16mm

### Snatch Blocks

- Single Sheave Rope Block - 1T
- Single Sheave Rope Block - 2T
- Single Sheave Rope Block - 3T
- Single Sheave Rope Block - 5T
- Single Sheave Rope Block - 10T

### Sheave Blocks

- Rope Block 2 Sheave - 2T
- Rope Block 2 Sheave - 3T
- Rope Block 2 Sheave - 5T
- Rope Block 3 Sheave - 5T

### Air/Pneumatic Winch

- Dual Brake Air Winch – 3T
- Dual Brake Air Winch – 5T

### Slings

- Steel Wire Rope Slings – Various Capacities & Lengths Available
- Polyester Flat Web Slings – Various Capacities & Lengths Available
- Polyester Round Slings – Various Capacities & Lengths Available

### Bottle Jacks

- Hydraulic Bottle Jack 10T
- Hydraulic Bottle Jack 20T
- Hydraulic Bottle Jack 30T
- Hydraulic Bottle Jack 50T

### Hydraulic Jack With Hand Pump

- Jack c/w Hand Pump - 5T
- Jack c/w Hand Pump - 10T
- Jack c/w Hand Pump - 20T
- Jack c/w Hand Pump - 30T
- Jack c/w Hand Pump - 50T
- Jack c/w Hand Pump - 100T



Beam Clamp

Beam Crawl

Wire rope sling

Web sling

Bottle jack

Hydraulic jack with pump

## 16) LIFTING & RIGGING EQUIPMENT CONT.

### Other Lifting

- Pallet Jack – 2T
- Mechanical Toe Jack – 20T
- Hydraulic Toe Jack – 10T
- Express Skates – 10T per Pair
- Shackles – All sizes
- Eye Bolts – All sizes



Rigging skates



Shackles

## 17) PIPING TOOLS

- Flange Spreader Manual Croc Type – 5T
- Flange Spreader Hydraulic Croc Type – 10T
- Manual Flange Spreader - 8T
- Hydraulic Flange Spreader (Holmatro Type) – 5T
- Hydraulic Flange Spreader (Holmatro Type) – 10t
- Hydraulic Nut Splitter 41-50mm
- Hydraulic Nut Splitter 50-60mm
- Hydraulic Nut Splitter 60-75mm
- Back-Up Wrenches – various sizes
- Pipe Trestles (single 280kg)
- Hydraulic Pipe Bender ½" – 2"
- Pipe Vice on Stand (Tripod)
- Cold pipe cutters – Low Profile 6"-12"
- Hand Pipe Cutter 4"
- Hand Pipe Cutter 6"
- Hand Pipe Cutter 8"
- Hand Pipe Cutter 10"
- Hand Pipe Cutter 12"
- Air Tube Saw
- Torque Wrench 100-500nm
- Torque Wrench 200-1500nm



Nut Splitters and Spreaders



Pipe Trestle



Pipe vice



Pipe cutter



Torque Wrench

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## 18) TESTING EQUIPMENT

- Hand Test Pump 50 Bar
- Air/Pneumatic Test Pump 160 Bar
- 230v Electric Test Pump 160 Bar
- 380v Electric Test Pump 200 Bar
- 380v Electric Test Pump 300 Bar
- High Pressure Test Manifolds – 10000kpa
- High Pressure Test Manifolds – 20000kpa



Hand Test Pump



Test Manifold

Air/Pneumatic Test Pump



## 19) LADDERS

- Aluminium A frame Ladder
- Aluminium Extension ladder 6m
- Rope Ladder SWR – 10-15m



Rope Ladder



Extension Ladder

## 20) OTHER SITE EQUIPMENT

- Steel Work Bench with Vice
- Gang Boxes 1m x 1m
- 4 Wheel Trolleys
- Lifting Baskets 1.2m x 1.2m x 500mm



Workbench

## 21) SMALL TOOLS

- Slogging Spanner Ring 20mm-120mm
- Slogging Spanner Open End 20mm-90mm
- Combination Spanners – 6mm-60mm
- Impact Sockets ¾" drive
- Impact Sockets 1" Drive
- Impact Sockets 1 ½" Drive
- Pipe Wrenches 12"-24"
- Fitter Toolboxes
- Boilermaker Toolboxes



**WE TAKE THE PLANNING & LOGISTIC ISSUES AWAY ON ANY PROJECT**

## 22) DIESEL DRIVEN GENERATORS

- |                                                                                              |          |
|----------------------------------------------------------------------------------------------|----------|
| • Diesel Genset 5.0 kva Single Phase - Silent                                                | 5.0 KVA  |
| • Diesel Genset 5.0 kva Single Phase                                                         | 5.0 KVA  |
| • Diesel Genset Silent 15kva 3 Phase 1500 RPM                                                | 15.0 KVA |
| • Diesel Genset 30kva 3 Phase 1500 RPM Silent Enclosed on Roadworthy Trailer                 | 30 KVA   |
| • Diesel Genset 50kva 3 Phase 1500 RPM Silent Enclosed Skid Mounted                          | 50 KVA   |
| • Diesel Genset Silent 50kva 3 Phase 1500 RPM Silent Enclosed Mounted on Roadworthy Trailer  | 50 KVA   |
| • Diesel Genset 60kva 3 Phase 1500 RPM Silent Enclosed Skid Mounted                          | 60 KVA   |
| • Diesel Genset Silent 60kva 3 Phase 1500 RPM Silent Enclosed Mounted on Roadworthy Trailer  | 60 KVA   |
| • Diesel Genset Silent 100kva 3 Phase 1500 RPM Silent Enclosed Skid Mounted                  | 100 KVA  |
| • Diesel Genset Silent 100kva 3 Phase 1500 RPM Silent Enclosed Mounted on Roadworthy Trailer | 100 KVA  |
| • Diesel Genset Silent 150kva 3 Phase 1500 RPM Skid Mounted                                  | 150 KVA  |
| • Diesel Genset Silent 150kva 3 Phase 1500 RPM Mounted on Roadworthy Trailer                 | 150 KVA  |
| • Diesel Genset Silent 200kva 3 Phase 1500 RPM Silent Enclosed Skid Mounted                  | 200 KVA  |
| • Diesel Genset 250kva 3Phase 1500 RPM Silent Enclosed Skid Mounted                          | 250 KVA  |
| • Diesel Genset Silent 300kva 3Phase 1500 RPM Silent Enclosed Skid Mounted                   | 300 KVA  |
| • Diesel Genset Silent 350kva 3Phase 1500 RPM Silent Enclosed Skid Mounted                   | 350 KVA  |
| • Diesel Genset Silent 400kva 3 Phase 1500 RPM Silent Enclosed Skid Mounted                  | 450 KVA  |
| • Diesel Genset Silent 500kva 3Phase 1500 RPM Silent Enclosed Skid Mounted                   | 500 KVA  |





## 23) DIESEL DRIVEN COMPRESSORS

- Diesel Driven Compressor 200CFM Mounted on Trailer 7 Bar
- Diesel Driven Compressor 200CFM Mounted on Roadworthy Trailer 7 Bar
- Diesel Driven Compressor 250CFM Mounted on Trailer 7 Bar
- Diesel Driven Compressor 250CFM Mounted on Roadworthy Trailer 7 Bar
- Diesel Driven Compressor 450CFM Mounted on Trailer 7 Bar
- Diesel Driven Compressor 700CFM Mounted on Trailer 7 Bar
- Diesel Driven Compressor 900CFM Mounted on Trailer 7 Bar
- Diesel Driven Compressor 1000CFM Mounted on Trailer 7 Bar



## 24) LIGHT TOWERS

- Diesel Driven Light Tower with Manual Mast on Site trailer fitted with 4 x 500w LED Mining Lights
- Diesel Driven Light Tower with Hydraulic Mast on Site Trailer fitted with 4 x 500W LED Mining Lights
- Stationary Light tower 230V on forklift base fitted with 2 x 500W LED Mining Lights



## 25) DIESEL BOWSERS

- Diesel Bowser, Hand Pump or 12v Electric Pump 1000L



## 26) SITE OFFICE & STORES

- Mobile Site Office on Wheels with 2 Desks, 2 Chairs, Aircon & Microwave – Tow with 1 Ton LDV
- 6m Container Site Office with Aircon (no furniture)
- 6m Container Site Office Insulated with Aircon (no furniture)
- 6m Container with Lights (no shelving)
- 6m Container Store with Lights & Shelving
- 12m Container with Lights (no shelving)
- 12m Container Store with Lights & Shelving
- 12m Back-up service container - Office/Store/Workshop Container c/w lights, shelving, workbench, compressor



Mobile site office



Site office container



Storage container with shelving

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