Engine Driven Welding Equipment
CIGWELD Professional:
When welding is your business
At Victor Technologies we distinguish ourselves from our competition through superior featured, dependable products, technical innovation and excellence in customer service and technical support.

Our Professional Series Engine Driven Welding Equipment range is proof of this commitment to deliver quality products that exceed expectations. A wealth of features and options make this equipment the perfect choice for the serious welding professional.

Wouldn’t it be great if there was primary power at every location you needed to weld? POWER . . with extra to spare! CIGWELD has developed a complete range of welding and power engine drives in both petrol and diesel.

These engine driven welders give you loads of welding power with the bonus of up to 20 kVA auxiliary power at your disposal. Top quality, super silenced Honda, Yanmar, Kubota and Perkins engines deliver reliability and performance whatever the conditions.

So no matter how tough the welding task, or if you just require auxiliary power, CIGWELD Professional engine drives have the flexibility to deliver, anywhere, anytime.

KEY TO ICONS

- **DC**: Direct current welding output
- **CC**: Constant current welding output
- **CV**: Constant voltage welding output
- **CC/CV**: Constant current & constant voltage
- **240V AUX 4kVA**: 240V auxiliary supply rating
- **415V AUX 5kVA**: 415V auxiliary supply rating
- **4 roll wire drive system**: 4 roll wire drive system
- **MIG Torch Connections**: MIG Torch Connections
- **Petrol driven engine**: Petrol driven engine
- **Diesel driven engine**: Diesel driven engine
- **GMAW (MIG) welding**: GMAW (MIG) welding
- **MMAW (Stick) welding**: MMAW (Stick) welding
- **GTAW (TIG) welding**: GTAW (TIG) welding

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The CIGWELD MPM 5/170Y is a diesel engine driven welding power source, which has the flexibility of an electric or manual start. With its patented asynchronous alternator design it delivers an ultra smooth welding output and guarantees high efficiency, reduced maintenance and an extended machine life.

With its compact and portable housing and heavy duty roll cage for additional protection, the MPM 5/170Y is ideal for rugged environments.

Please refer to specifications at rear of brochure for comprehensive information.

### Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Welding Current Range</strong></td>
<td>40-170 amp</td>
</tr>
<tr>
<td><strong>Duty Cycle</strong></td>
<td>35% @ 170A (40˚C, 10 mins)</td>
</tr>
<tr>
<td><strong>Engine Type</strong></td>
<td>Yanmar™ L100</td>
</tr>
<tr>
<td><strong>Packed Weight (Plant)</strong></td>
<td>115kg</td>
</tr>
<tr>
<td><strong>Power Source Dimensions</strong></td>
<td>570 H x 460 W x 880 D mm</td>
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</tbody>
</table>

### Features

- Yanmar single cylinder air cooled diesel
- Constant current DC output
- 40-170 amps welding output
- 4kVa 240V auxiliary power with ELCB protection
- 5kVa 415V auxiliary power with ELCB protection
- Reliable & efficient asynchronous alternator
- Cellulose compatible
- Electric and manual starter
- Engine Protection System
- 3 year limited warranty*  

*Conditional warranty – refer to operating manual for full details.

### Ordering Information

- **MPM 5/170Y** diesel engine driven welding power source 636810

### Optional Accessories

- Lead set (8m) 646325

### Plant Contents

- MPM 5/170H diesel engine driven welding power source
- 50mm² dinse connectors x 2
- Operating manual
The CIGWELD MPM 5/190H is a petrol engine driven welding power source that is powered by a reliable HONDA® engine. This versatile unit delivers outstanding performance on a broad range of welding processes including MMAW (Stick) and GTAW (TIG) welding (when used with appropriate accessories).

The robust MPM 5/190H boasts a heavy duty roll cage for ultimate protection and a low oil cut out feature to ensure the longevity of the motor. This unit provides a welding output range between 40-190 amps with ample auxiliary power, making this an ideal selection for a wide range of mobile welding applications.

Please refer to specifications at rear of brochure for comprehensive information.

**Specifications**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
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<tbody>
<tr>
<td>Welding Current Range</td>
<td>40-190 amp</td>
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<tr>
<td>Duty Cycle</td>
<td>35% @ 190A (40°C, 10 mins)</td>
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<td>Engine Type</td>
<td>Honda™ GX 340</td>
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<td>Packed Weight (Plant)</td>
<td>92kg</td>
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<td>Power Source Dimensions</td>
<td>510 H x 480 W x 730 D mm</td>
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<tr>
<td>Features</td>
<td></td>
</tr>
<tr>
<td>• HONDA single cylinder 3000 RPM air cooled engine</td>
<td></td>
</tr>
<tr>
<td>• Constant current DC output</td>
<td></td>
</tr>
<tr>
<td>• 40-190 amps welding output</td>
<td></td>
</tr>
<tr>
<td>• Twin 4kVa 240V auxiliary power with ELCB protection</td>
<td></td>
</tr>
<tr>
<td>• 5kVA 415V auxiliary power with ELCB protection</td>
<td></td>
</tr>
<tr>
<td>• Reliable &amp; efficient asynchronous alternator</td>
<td></td>
</tr>
<tr>
<td>• Cellulose compatible</td>
<td></td>
</tr>
<tr>
<td>• Single phase voltmeter</td>
<td></td>
</tr>
<tr>
<td>• Low oil cutout</td>
<td></td>
</tr>
<tr>
<td>• Heavy duty roll cage</td>
<td></td>
</tr>
<tr>
<td>• 3 year limited warranty*</td>
<td></td>
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</table>

*Conditional warranty – refer to operating manual for full details.

**Ordering Information**

MPM 5/190H petrol engine driven welding power source 636800

**Optional Accessories**

Lead set (8m) 646325

**Plant Contents**

• MPM 5/190H petrol engine driven welding power source
• 50mm² dinse connectors x 2
• Operating manual
**MPM 8/255H**

### Specifications

<table>
<thead>
<tr>
<th>Property</th>
<th>Details</th>
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<tbody>
<tr>
<td><strong>Welding Current Range</strong></td>
<td>25-255 amp</td>
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<tr>
<td><strong>Duty Cycle</strong></td>
<td>35% @ 255A (40˚C, 10 mins)</td>
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<tr>
<td><strong>Engine Type</strong></td>
<td>Honda™ GX630</td>
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<tr>
<td><strong>Packed Weight (Plant)</strong></td>
<td>245kg</td>
</tr>
<tr>
<td><strong>Power Source Dimensions</strong></td>
<td>710 H x 490 W x 1080 D mm</td>
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</table>

### Features

- Constant current/constant voltage DC output
- 25-255 amps welding output
- 7kVA 240V auxiliary power with ELCB protection
- 8kVA 415V auxiliary power with ELCB protection
- Reliable & efficient asynchronous alternator
- Remote control socket suitable for 110 volt and 24 volt wire feeders
- Cellulose compatible
- Arc force • Electric start
- Automatic idle control • Hourmeter
- EPS (Engine protection system)
- 3 year limited warranty*

*Conditional warranty – refer to operating manual for full details.

### Ordering Information

MPM 8/255H petrol engine driven welding power source 636808

### Optional Accessories

<table>
<thead>
<tr>
<th>Accessory</th>
<th>Code</th>
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<tr>
<td>Lead set (8m)</td>
<td>646325</td>
</tr>
<tr>
<td>VAF-4 (CV) Wire Feeder</td>
<td>705700</td>
</tr>
<tr>
<td>Shielding Gas Hose Assembly</td>
<td>700433</td>
</tr>
<tr>
<td>CIGWELD Professional COMET</td>
<td></td>
</tr>
<tr>
<td>Regulator/Flowmeter</td>
<td>301526</td>
</tr>
<tr>
<td>14 pin control plug</td>
<td>7977710</td>
</tr>
<tr>
<td>Tweco Professional No. 4 MIG Torch</td>
<td>717201</td>
</tr>
<tr>
<td>Hand Pendant</td>
<td>OTD10/2004</td>
</tr>
</tbody>
</table>

The CIGWELD MPM 8/255H is a petrol powered welding machine that is driven by an ultra reliable 18HP HONDA® engine, which delivers a maximum welding output of 255 amps. With its multi process capabilities, this unit performs exceptionally in a range of welding applications including MMAW(Stick), GMAW (MIG) and GTAW (TIG) the unit provides both 8 kVA three phase and 7 kVA single phase auxiliary power. The MPM 8/255H also features an Hourmeter to allow monitoring of the machines usage for servicing and maintenance, and an automatic idle control which assists with saving fuel and prolonging the engine life. The versatility and functionality of this machine makes it ideal for the farmer or light fabrication contractor.

Please refer to specifications at rear of brochure for comprehensive information.

### Plant Contents

- MPM 8/255H petrol engine driven welding power source
- 50mm² dinse connectors x 2
- Operating manual
The CIGWELD MPM 8/270K is a diesel engine driven welding power source, which produces an outstanding 270 amps of welding power. With its multi-process capabilities that allow for MMAW (Stick), GMAW (MIG) and GTAW (TIG) welding and its patented asynchronous alternator, the MPM 8/270K ensures a smooth welding output regardless of the application (when used with the appropriate accessories).

Monitoring your welding machine has never been easier, with the incorporation of an engine protection system, hourmeter and automatic idle control features, all of which assist in the maintenance and longevity of the unit.

Due to its high auxiliary power, and remote control sockets for wire feeders, this unit makes an excellent choice for those contractors wishing to run GMAW (MIG) or FCAW (flux cored) welding wires.

Please refer to specifications at rear of brochure for comprehensive information.

**Specifications**

<table>
<thead>
<tr>
<th>Welding Current Range</th>
<th>30-270 amp</th>
</tr>
</thead>
<tbody>
<tr>
<td>Duty Cycle</td>
<td>35% @ 270A (40’ 10 mins)</td>
</tr>
<tr>
<td>Engine Type</td>
<td>Kubota™ D722-E</td>
</tr>
<tr>
<td>Packed Weight (Plant)</td>
<td>302kg</td>
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<tr>
<td>Power Source Dimensions</td>
<td>300 H x 53 W x 850 D mm</td>
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</tbody>
</table>

**Features**

- Kubota D722-E water cooled engine
- Constant current/constant voltage DC output
- 30-270 amps welding output
- 8.0kVA 240V auxiliary power with ELCB protection
- Reliable & efficient asynchronous alternator
- Cellulose compatible
- Arc force • Electric start
- Automatic idle control • Hourmeter
- EPS (Engine protection system)
- 3 year limited warranty*  

*Conditional warranty – refer to operating manual for full details.

**Ordering Information**

MPM 8/270K diesel engine driven welding power source 636809

**Optional Accessories**

<table>
<thead>
<tr>
<th>Accessory</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead set (8m)</td>
<td>646325</td>
</tr>
<tr>
<td>VAF-4 (CV) Wire Feeder</td>
<td>705700</td>
</tr>
<tr>
<td>Shielding Gas Hose Assembly</td>
<td>700433</td>
</tr>
<tr>
<td>CIGWELD Professional COMET Regulator/Flowmeter</td>
<td>301526</td>
</tr>
<tr>
<td>14 pin control plug</td>
<td>7977710</td>
</tr>
<tr>
<td>Tweco Professional No.4 MIG Torch</td>
<td>717201</td>
</tr>
<tr>
<td>Hand Pendant</td>
<td>OTD10/2004</td>
</tr>
</tbody>
</table>

**Plant Contents**

- MPM 8/270K diesel engine driven welding power source
- 50mm² dinese connectors x 2
- Operating manual
The CIGWELD MPM 12/400 I-KA is a lightweight, heavy duty and compact welding and power source delivering 400 amps of welding current with up to 12 kVA of auxiliary power.

With a large range of extra features including multi process capabilities and engine protection system for battery charge, coolant temperature and low oil & fuel pressure, the MPM 12/400 I-KA is ideally suited for construction sites, contractors and rental companies.

Please refer to specifications at rear of brochure for comprehensive information.
The CIGWELD MPM 20/500P is the top of the range diesel engine driven welding power source. This outstanding unit produces up to 500 amps of welding power with a whopping 20 kVA of auxiliary power and has a fully integrated engine protection system, Hourmeter and fuel gauge to ensure easy monitoring and maintenance.

Its full multi process capabilities include MMAW (Stick), GMAW (MIG) and GTAW (TIG) welding along with air carbon arc gouging and the ability to run additional operations from the auxiliary power supply, making this unit ideal for heavy duty applications.

Please refer to specifications at rear of brochure for comprehensive information.

*Conditional warranty – refer to operating manual for full details.

Ordering Information

MPM 20/500P diesel engine driven welding power source 636805

Optional Accessories

Lead set (8m) 646325
VAF-4 (CV) Wire Feeder 705700
Shielding Gas Hose Assembly 700433
CIGWELD Professional COMET Regulator/Flowmeter 301526
14 pin control plug 7977710
Tweco Professional No. 4 MIG Torch 717201
Hand Pendant OTD10/2004

Plant Contents

• MPM 20/500P diesel engine driven welding power source
• 50mm² dinse connectors x 2
• Operating manual
The VAF-4 Professional 4 Roll Wire Feeder is compact, light weight and easy to use wire feeder that is suitable for use on a broad range of power sources. The unit incorporates a range of features including wire inching, gas purge, trigger latching, along with standard features such as wirespeed control and spot timer control.

When combined with the appropriate power source, the CIGWELD Professional VAF-4 wire feeder provides excellent performance on mild steel, flux cored, stainless steel, aluminium, silicon bronze and hard facing wires up to 1.6mm in diameter.

## Specifications

**Supply Voltage**
- 110 volt AC

**Weight (without wire)**
- 30kg

**Dimensions**
- 294 H x 245 W x 555 D mm

## Features

- Voltage control at feeder
- Remote pendant option
- ‘Spot’ welding control (0-3 sec)
- Connection supplied – Tweco 4 connection
- 8m interconnection
- Trigger latch, purge and wire inch
- 3 year limited warranty*

*Conditional warranty – refer to operating manual for full details.

## Ordering Information

VAF-4 wirefeeder 14 pin 705700
VAF-4 wirefeeder 19 pin 706965

## Optional Accessories

<table>
<thead>
<tr>
<th>Wire Type</th>
<th>Groove</th>
<th>Code</th>
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</thead>
<tbody>
<tr>
<td>Hard Loops</td>
<td>0.6/0.8mm V Groove</td>
<td>7977729</td>
</tr>
<tr>
<td></td>
<td>0.9/1.2mm V Groove</td>
<td>7977703 *</td>
</tr>
<tr>
<td></td>
<td>1.2/1.6mm V Groove</td>
<td>7977346</td>
</tr>
<tr>
<td>Soft Loops</td>
<td>0.8/0.9mm U Groove</td>
<td>7977733</td>
</tr>
<tr>
<td></td>
<td>1.0/1.2mm U Groove</td>
<td>7977730</td>
</tr>
<tr>
<td></td>
<td>1.2/1.6mm U Groove</td>
<td>7977348</td>
</tr>
<tr>
<td>Flux Cored Loops</td>
<td>0.8/0.9mm V Knurl</td>
<td>7977734</td>
</tr>
<tr>
<td></td>
<td>1.2/1.6mm V Knurl</td>
<td>7977347</td>
</tr>
<tr>
<td></td>
<td>1.6/2.4mm V Knurl</td>
<td>7977372</td>
</tr>
</tbody>
</table>

* Refers to feedroll supplied with wirefeeder package.

Tweco® Professional No.4 MIG Torch 3.6m 717201
Tweco® Professional SupraXT MIG Torch 4m SE4004MI6
Euro adaptor 705471
Tweco® Professional No.4 MIG Torch adaptor 704521
Tweco® Professona No.5 MIG Torch adaptor 704630

# Refers to feedroll supplied with wirefeeder package.

## Plant Contents

- TRANSMIG VAF-4 wire feeder
- 8m interconnection cables
- Operating manual
The Transmig VA4000 is a heavy duty, compact, 4 roll wire feeder designed for high duty cycle welding environments. When used with the appropriate accessories the unit is capable of running MIG wires up to 3.2mm in diameter.

Key features include outstanding speed control through built in load compensation, quick change feed rolls without tools, a rotatable feed head to limit the bends in the gun cable and a welding gun with quick disconnect. Ground fault protection, electronic motor protection and an input circuit breaker are all designed to keep the unit running in tough conditions.

### Specifications

- **Supply Voltage**: 115 volt AC
- **Packed Weight (Plant)**: 18.5 kg
- **Wirefeeder Dimensions**: 310 H x 335 W x 513 D mm

### Features

- Heavy duty 4 roll feeder assembly
- Gas solenoid operation
- Digital meters for wire speed, voltage (preset & actual) & arc current
- Feed force monitor display
- Adjustable timing for pre-flow, post flow & burnback
- Inch switch, purge switch, trigger latch switch & spot timer control
- Tweco No. 5 torch connection
- Adjustable run in and ramp up speeds to match power source start characteristics
- Ground fault protection, electronic motor protection & input circuit breaker
- Embedded micro processor
- Compact, lightweight, excellent performance
- 3 year limited warranty* 

*Conditional warranty – refer to operating manual for full details.

### Ordering Information

**TRANSMIG VA4000** 706954

### Optional Accessories

- **Hard wire**: 0.6mm V Groove 375980-071
  - 0.8/0.9mm V Groove 375980-050
  - 0.9/1.2mm V Groove 375980-070
  - 1.3/1.6mm V Groove 375980-052
- **Soft wire**: 0.9mm U Groove 375980-072
  - 1.2mm U Groove 375980-073
  - 1.6mm U Groove 375980-074
- **Flux cored**: 0.8/0.9mm V Knurl 375980-050
  - 1.2mm V Knurl 375980-083
  - 1.3/1.6mm V Knurl 375980-057
  - 2.0mm V Knurl 375980-058
  - 2.4mm V Knurl 375980-059
  - 2.8mm V Knurl 375980-060
  - 3.2mm V Knurl 375980-061

# Refers to feedroll supplied with wirefeeder package.

### Plant Contents

- TRANSMIG VA4000 wire feeder
- Operating manual

### Spare Parts & Accessories

- **Tweco® Professional No.5 MIG torch, 3.6 metre** 717211
- **Tweco® Professional No.5 MIG torch, 4.5 metre** 717212
- **Tweco® Professional No.4 MIG torch adaptor** 870394
- **Tweco® Professional No.5 MIG torch adaptor** 870395
- **1.2 metre interconnection 19 pin to 19 pin** 706955
- **10 metre interconnection 19 pin to 19 pin** 706956
- **15 metre interconnection 19 pin to 19 pin** 706957
- **10 metre interconnection 19 pin to 14 pin** 707029
## Engine Driven Welding Equipment Specifications

### MODEL SPECIFICATIONS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>MPM5/170Y</th>
<th>MPM 5/190H</th>
<th>MPM 8/255H</th>
<th>MPM 8/270K</th>
<th>MPM 12/400K</th>
<th>MPM 20/500P</th>
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<tbody>
<tr>
<td>Part No.</td>
<td>636810</td>
<td>636800</td>
<td>636808</td>
<td>636809</td>
<td>636804</td>
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### WELDING DC

<table>
<thead>
<tr>
<th></th>
<th>MPM5/170Y</th>
<th>MPM 5/190H</th>
<th>MPM 8/255H</th>
<th>MPM 8/270K</th>
<th>MPM 12/400K</th>
<th>MPM 20/500P</th>
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</thead>
<tbody>
<tr>
<td>Welding output</td>
<td>170 amp - 27 volt</td>
<td>190 amp - 28 volt</td>
<td>255 amp - 30 volt</td>
<td>270 amp - 25 volt</td>
<td>400 amp - 36 volt</td>
<td>500 amp - 40 volt</td>
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<tr>
<td>Duty cycle @ 60%</td>
<td>140 amp - 26 volt</td>
<td>170 amp - 27 volt</td>
<td>190 amp - 30 volt</td>
<td>250 amp - 25 volt</td>
<td>350 amp - 34 volt</td>
<td>400 amp - 36 volt</td>
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<tr>
<td>Range of cont. control</td>
<td>40 - 170 amp</td>
<td>40 - 190 amp</td>
<td>25 - 255 amp</td>
<td>30 - 270 amp</td>
<td>30 - 400 amp</td>
<td>30 - 500 amp</td>
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<td>Open circuit voltage</td>
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<td>2.0- 4.0 mm</td>
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<tr>
<td></td>
<td>hydrogen controlled &amp; cellulose</td>
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<td>2.0- 4.0 mm</td>
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<td>2.0-5.0 +mm</td>
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<td>CC mode</td>
<td>40-170 amp</td>
<td>40-190 amp</td>
<td>25 - 255 amp</td>
<td>30 - 270 amp</td>
<td>30 - 400 amp</td>
<td>30 - 500 amp</td>
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<td>CV mode</td>
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<td>–</td>
<td>16 - 30 volt</td>
<td>15 - 30 volt</td>
<td>18 - 40 volt</td>
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### ENGINE SPECIFICATIONS

<table>
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<tr>
<th>Make/type</th>
<th>Yanmar L100</th>
<th>Honda GX 340</th>
<th>Honda GX 630</th>
<th>Kubota D722-E</th>
<th>Kubota D 1105-E</th>
<th>Perkins D3.152.4</th>
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<td>2</td>
<td>3</td>
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<td>Displacement</td>
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<td>614 cc</td>
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<td>25 HP</td>
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<td>1500 rpm</td>
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<tr>
<td>Fuel</td>
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<td>Fuel tank capacity</td>
<td>5.5 litres</td>
<td>6.5 litres</td>
<td>37.5 litres</td>
<td>37.5 litres</td>
<td>36.5 litres</td>
<td>60 litres</td>
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<td>Oil capacity</td>
<td>1.65 litres</td>
<td>1.1 litres</td>
<td>1.2 litres</td>
<td>3.1 litres</td>
<td>5.1 litres</td>
<td>6.3 litres</td>
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<tr>
<td>Starter</td>
<td>electric (&amp; manual)</td>
<td>manual recoil</td>
<td>electric</td>
<td>electric</td>
<td>electric</td>
<td>electric</td>
</tr>
<tr>
<td>Battery</td>
<td>12 volt</td>
<td>–</td>
<td>12 volt</td>
<td>12 volt</td>
<td>12 volt</td>
<td>12 volt</td>
</tr>
<tr>
<td>Acoustic noise @ 4 m</td>
<td>80 dB</td>
<td>78 dB</td>
<td>79 dB</td>
<td>79 dB</td>
<td>77 dB</td>
<td>78 dB</td>
</tr>
</tbody>
</table>

### AUXILIARY POWER

<table>
<thead>
<tr>
<th></th>
<th>5 kVA 415 volt</th>
<th>5 kVA 415 volt</th>
<th>8 kVA 415 volt</th>
<th>–</th>
<th>12 kVA 415 volt</th>
<th>20 kVA 415 volt</th>
</tr>
</thead>
<tbody>
<tr>
<td>Three phase power</td>
<td>5 kVA 240 volt</td>
<td>4 kVA 240 volt</td>
<td>7 kVA 240 volt</td>
<td>8 kVA 240 volt</td>
<td>10 kVA 240 volt</td>
<td>12 kVA 240 volt</td>
</tr>
<tr>
<td>Single phase power</td>
<td>50 Hz</td>
<td>50 Hz</td>
<td>50 Hz</td>
<td>50 Hz</td>
<td>50 Hz</td>
<td>50 Hz</td>
</tr>
<tr>
<td>Frequency</td>
<td>50 Hz</td>
<td>50 Hz</td>
<td>50 Hz</td>
<td>50 Hz</td>
<td>50 Hz</td>
<td>50 Hz</td>
</tr>
</tbody>
</table>

### DIMENSIONS & WEIGHT

<table>
<thead>
<tr>
<th>Dimensions HxWxD (mm)</th>
<th>570 x 460 x 880</th>
<th>510 x 480 x 730</th>
<th>710 x 490 x 1080</th>
<th>1300 x 530 x 860</th>
<th>920 x 730 x 1590</th>
<th>1100 x 800 x 1950</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight (kg)</td>
<td>115</td>
<td>92</td>
<td>245</td>
<td>302</td>
<td>460</td>
<td>920</td>
</tr>
</tbody>
</table>

### ENCLOSURE SPECIFICATIONS

| Mechanical protection | IP 23           | IP 23           | IP 23           | IP 23           | IP 23           | IP 23           |
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- Comet Gas Equipment Accessories

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