

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

	Direct current welding output		4 roll wire drive system
	Constant current welding output		MIG Torch Connections
	Constant voltage welding output		Petrol driven engine
	Constant current & constant voltage		Diesel driven engine
	240V auxilliary supply rating		GMAW (MIG) welding
	415V auxilliary supply rating		MMAW (Stick) welding
			GTAW (TIG) welding

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MPM 5/170Y



415V
AUX
5kVA

240V
AUX
4kVA



Specifications

Welding Current Range

40-170 amp

Duty Cycle

35% @ 170A (40°C, 10 mins)

Engine Type

Yanmar™ L100

Packed Weight (Plant)

115kg

Power Source Dimensions

570 H x 460 W x 880 D mm

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



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.

Plant Contents

- MPM 5/170H diesel engine driven welding power source
- 50mm² dinse connectors x 2
- Operating manual

Engine Driven Welding Equipment

MPM 5/190H



415V
AUX
5kVA

240V
AUX
4kVA



Specifications

Welding Current Range

40-190 amp

Duty Cycle

35% @ 190A (40°C, 10 mins)

Engine Type

Honda™ GX 340

Packed Weight (Plant)

92kg

Power Source Dimensions

510 H x 480 W x 730 D mm

Features

- HONDA single cylinder 3000 RPM air cooled engine
- Constant current DC output
- 40-190 amps welding output
- Twin 4kVa 240V auxiliary power with ELCB protection
- 5kVA 415V auxiliary power with ELCB protection
- Reliable & efficient asynchronous alternator
- Cellulose compatible
- Single phase voltmeter
- Low oil cutout
- Heavy duty roll cage
- 3 year limited warranty*

*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



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.

Plant Contents

- MPM 5/190H petrol engine driven welding power source
- 50mm² dinse connectors x 2
- Operating manual

MPM 8/255H



Specifications

Welding Current Range

25-255 amp

Duty Cycle

35% @ 255A (40°C, 10 mins)

Engine Type

Honda™ GX630

Packed Weight (Plant)

245kg

Power Source Dimensions

710 H x 490 W x 1080 D mm

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

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



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

Engine Driven Welding Equipment

MPM 8/270K



D

240V
AUX
8.0kVA

CC
CV

DC
OUTPUT

Specifications

Welding Current Range

30-270 amp

Duty Cycle

35% @ 270A (40° 10 mins)

Engine Type

Kubota™ D722-E

Packed Weight (Plant)

302kg

Power Source Dimensions

300 H x 53 W x 850 D mm

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

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	797710
Tweco Professional No. 4 MIG Torch	717201
Hand Pendant	OTD10/2004



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.

Plant Contents

- MPM 8/270K diesel engine driven welding power source
- 50mm² dinse connectors x 2
- Operating manual

MPM 12/400K



Specifications

Welding Current Range

30-400amp

Duty Cycle

35% @ 400A (40°, 10 mins)

Engine Type

Kubota™ D1105-E

Packed Weight (Plant)

460kg

Power Source Dimensions

920 H x 730 W x 1590 D mm

Features

- Constant current/constant voltage DC output
- 30-400 amps welding output
- 10kVA 240V auxiliary power with ELCB protection
- 12kVA 415V auxiliary power with ELCB protection
- Reliable & efficient asynchronous alternator
- Cellulose compatible
- Arc force • Electric start
- Hourmeter • Fuel gauge
- Engine protection system for: battery charge, coolant temperature, low fuel & low oil pressure
- 3 year limited warranty*

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

Ordering Information

MPM 12/400K diesel engine driven welding power source 636804

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



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.

Plant Contents

- MPM 12/400K diesel engine driven welding power source
- 50mm² dinse connectors x 2
- Operating manual

Engine Driven Welding Equipment

MPM 20/500P



Specifications

Welding Current Range

30-500 amp

Duty Cycle

35% @ 500A (40°C, 10 mins)

Engine Type

Perkins™ D3.152.4

Packed Weight (Plant)

920kg

Power Source Dimensions

1100 H x 800 W x 1950 D mm

Features

- Perkins 3 cylinder 1500 RPM water cooled engine
- Constant current/constant voltage DC output
- 30-500 amps welding output
- 12kVA 240V auxiliary power with ELCB protection
- 20kVA 415V auxiliary power with ELCB protection
- Reliable & efficient asynchronous alternator
- Exceptional cellulose & gouging performance
- Hourmeter • Electric start
- Fuel gauge • Arc force
- Engine protection system for: battery charge, coolant temperature, low fuel, low oil pressure and over speed
- 3 year limited warranty*

*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	797710
Tweco Professional No. 4 MIG Torch	717201
Hand Pendant	OTD10/2004



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.

Plant Contents

- MPM 20/500P diesel engine driven welding power source
- 50mm² dinse connectors x 2
- Operating manual

TRANSMIG VAF-4



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

Hard wire: 0.6/0.8mm V Groove	7977729
0.9/1.2mm V Groove	7977703 #
1.2/1.6mm V Groove	7977346
Soft wire: 0.8/0.9mm U Groove	7977733
1.0/1.2mm U Groove	7977730
1.2/1.6mm U Groove	7977348
Flux cored: 0.8/0.9mm V Knurl	7977734
1.2/1.6mm V Knurl	7977347
1.6/2.4mm V Knurl	7977372
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.



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.

Plant Contents

- TRANSMIG VAF-4 wire feeder
- 8m interconnection cables
- Operating manual

Engine Driven Welding Equipment

TRANSMIG VA4000



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.



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.

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	MPM5/170Y	MPM 5/190H	MPM 8/255H	MPM 8/270K	MPM 12/400K	MPM 20/500P
Part No.	636810	636800	636808	636809	636804	636805
WELDING DC						
Welding output	170 amp - 27 volt	190 amp - 28 volt	255 amp - 30 volt	270 amp - 25 volt	400 amp - 36 volt	500 amp - 40 volt
Duty cycle @ 60%	140 amp - 26 volt	170 amp - 27 volt	190 amp - 30 volt	250 amp - 25 volt	350 amp - 34 volt	400 amp - 36 volt
Range of cont. control	40 - 170 amp	40 - 190 amp	25 - 255 amp	30 - 270 amp	30 - 400 amp	30 - 500 amp
Open circuit voltage	90 volt	90 volt	70 volt	70 volt	70 volt	70 volt
Electrode diameter:						
general purpose	2.0- 4.0 mm	2.0- 4.0 mm	2.0-5.0 mm	2.0-5.0 +mm	2.0-5.0 +mm	2.0-5.0 +mm
hydrogen controlled & cellulose	2.0- 4.0 mm	2.0- 4.0 mm	2.0-5.0 mm	2.0-5.0 +mm	2.0-5.0 +mm	2.0-5.0 +mm
CC mode	40-170 amp	40-190 amp	25 - 255 amp	30 - 270 amp	30 - 400 amp	30 - 500 amp
CV mode	-	-	16 - 30 volt	15 - 30volt	18 - 40 volt	18 - 40 volt
ENGINE SPECIFICATIONS						
Make/type	Yanmar L100	Honda GX 340	Honda GX 630	Kubota D722-E	Kubota D 1105-E	Perkins D3.152.4
Number of cylinders	1	1	2	3	3	3
Displacement	406 cc	340 cc	614 cc	719 cc	1124 cc	2500 cc
Power	10 HP	11 HP at 3600 rpm	18 HP at 3000 rpm	17 HP	25 HP	36 HP
Engine speed	3000 rpm	3000 rpm	3000 rpm	3000 rpm	3000 rpm	1500 rpm
Cooling	air	air forced	air	water	water	water
Fuel	diesel	unleaded petrol	unleaded petrol	diesel	diesel	diesel
Fuel tank capacity	5.5 litres	6.5 litres	37.5 litres	37.5 litres	36.5 litres	60litres
Oil capacity	1.65 litres	1.1 litres	1.2 litres	3.1 litres	5.1 litres	6.3litres
Starter	electric (& manual)	manual recoil	electric	electric	electric	electric
Battery	12 volt	-	12 volt	12 volt	12 volt	12 volt
Acoustic noise @ 4 m	80 dB	78 dB	79 dB	79 dB	77 dB	78 dB
AUXILIARY POWER						
Asynchronous alternator						
Three phase power	5 kVA 415 volt	5 kVA 415 volt	8 kVA 415 volt	-	12 kVA 415 volt	20 kVA 415 volt
Single phase power	4 kVA 240 volt	4 kVA 240 volt	7 kVA 240 volt	8 kVA 240 volt	10 kVA 240 volt	12 kVA 240 volt
Frequency	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz
DIMENSIONS & WEIGHT						
Dimensions HxWxD (mm)	570 x 460 x 880	510 x 480 x 730	710 x 490 x 1080	1300 x 530 x 850	920 x 730 x 1590	1100 x 800 x 1950
Weight (kg)	115	92	245	302	460	920
ENCLOSURE SPECIFICATIONS						
Mechanical protection	IP 23	IP 23	IP 23	IP 23	IP 23	IP 23

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Engine Driven Welding Equipment



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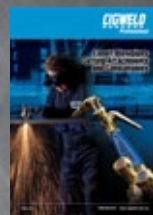
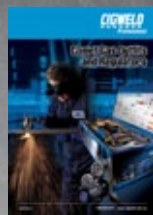


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