

CIGWELD
A THERMADYNE® Company



POWER & PERFORMANCE
ENGINE DRIVEN WELDERS

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 job, or if you just require auxiliary power, CIGWELD delivers anywhere, anytime.

MPM 5/190H Petrol



636800

The MPM 5/190H delivers excellent performance for Manual arc (stick) and Gas Tungsten arc (TIG) welding. Its heavy duty design provides up to 190 amps welding output with ample auxiliary power making this portable unit the ideal selection for a contractor or man on the land.

FEATURES

- ▲ Honda Single Cylinder 3000 RPM Air Cooled Engine
- ▲ Constant Current DC Output ▲ 40 - 190 amps Welding Output
- ▲ Twin 4 kVA 240 volt Auxiliary Power with ELCB protection
- ▲ 5 kVA 415 volt Auxiliary Power with ELCB protection
- ▲ Reliable & Efficient Asynchronous Alternator
- ▲ Cellulose Compatible ▲ Single Phase Voltmeter
- ▲ Low oil cut-out ▲ Heavy duty roll-cage

MPM 5/170Y Diesel



636810

The MPM 5/170Y is a unique compact portable diesel, air cooled engine drive. A patented alternator design delivers ultra smooth welding output, together with high efficiency, reduced maintenance and extended machine life. The heavy duty rugged roll case design is standard along with ELCB protection.

FEATURES

- ▲ Yanmar Single Cylinder Air Cooled Diesel
- ▲ Constant Current DC Output ▲ 40 - 170 amps Welding Output
- ▲ 4 kVA 240 volt Auxiliary Power with ELCB protection
- ▲ 5 kVA 415 volt Auxiliary Power with ELCB protection
- ▲ Reliable & Efficient Asynchronous Alternator
- ▲ Cellulose Compatible ▲ Electric and Manual Starter
- ▲ Engine Protection System ▲ Welding Dinse Plugs supplied
- ▲ Heavy duty roll-cage ▲ Lightweight and portable

MPM 8/255H Petrol



636808

The MPM 8/255H is an ideal unit for the farmer or light fabrication contractor. It has multiple process capabilities (MMAW, GMAW and GTAW) together with an ample 8 kVA three phase and 7 kVA single phase auxiliary power. Powered by an ultra reliable 18HP Honda engine delivering 255 amps of welding power.

FEATURES

- ▲ Honda 2 Cylinder 3000 RPM Air Cooled Engine
- ▲ Constant Current / Constant Voltage DC Output
- ▲ 25 - 255 amps Welding Output
- ▲ 7 kVA 240 volt Auxiliary Power with ELCB protection
- ▲ 8 kVA 415 volt Auxiliary Power with ELCB protection
- ▲ Reliable & Efficient Asynchronous Alternator
- ▲ Remote control socket with 110 volt & 24 volt for wirefeeders
- ▲ Cellulose Compatible ▲ Arc Force ▲ Electric starter
- ▲ Automatic Idle Control ▲ Hourmeter
- ▲ E.P.S. (engine protection system)

The power to we

MPM 8/270K Diesel



636809

The MPM 8/270K produces an outstanding 270 amps of welding power. Delivering multi-process capabilities with high auxiliary power makes this unit an excellent choice for contractors wishing to run GMAW (MIG) or FCAW (Flux core) wires.

FEATURES

- ▲ Kubota D722-E Watercooled Engine
- ▲ Constant Current / Constant Voltage DC Output
- ▲ 30 - 270 amps Welding Output
- ▲ 8.5 kVA 240 volt Auxiliary Power with ELCB protection
- ▲ Reliable & Efficient Asynchronous Alternator
- ▲ Remote control socket with 110 volt & 24 volt for wirefeeders
- ▲ Cellulose Compatible
- ▲ Arc Force ▲ Electric starter
- ▲ Automatic Idle Control ▲ Hourmeter
- ▲ E.P.S. (engine protection system)

MPM 12/400K Diesel

The MPM 12/400 I-KA is a super silenced, lightweight, compact welding and power plant. It is powered by an ultra reliable, 3 cylinder water-cooled Kubota engine that delivers 400 amps welding current with up to 12 kVA of auxiliary power. This feature packed, multi-process, DC CC/CV engine driven welder is ideally suited for construction sites, contractors & rental companies.



FEATURES

- ▲ Kubota 3 Cylinder 3000 rpm Water Cooled Engine
- ▲ Constant Current / Constant Voltage DC Output
- ▲ 30 - 400 amps Welding Output
- ▲ 10 kVA 240 volt Auxiliary Power with ELCB protection ▲ 12 kVA 415 volt Auxiliary Power with ELCB protection
- ▲ Reliable & Efficient Asynchronous Alternator ▲ Remote control socket with 110 volt & 24 volt for wirefeeders
- ▲ Hourmeter ▲ Electric Starter ▲ Cellulose Compatible ▲ Arc Force ▲ Fuel Gauge
- ▲ Engine protection system for: battery charge, coolant temperature, low fuel & low oil pressure

Weld ... anywhere!



MPM 20/500P Diesel

The top of the range 500 has the 36 HP, 3 cylinder Perkins running at 1500 rpm. This work horse produces 500 amps of welding power and a whopping 20 kVA of auxiliary power. Featuring full multi process, including air carbon arc gouging together with the ability to run additional operations from the auxiliary power supply.

FEATURES

- ▲ Perkins 3 Cylinder 1500 RPM Water Cooled Engine
- ▲ Constant Current / Constant Voltage DC Output
- ▲ 30 - 500 amps Welding Output
- ▲ 12 kVA 240 volt Auxiliary Power
- ▲ 20 kVA 415 volt Auxiliary Power
- ▲ Reliable & Efficient Asynchronous Alternator ▲ Exceptional Cellulose & Gouging Performance
- ▲ Remote control socket with 110 volt & 24 volt for wirefeeders ▲ Hourmeter ▲ Electric starter ▲ Fuel Gauge ▲ Arc Force
- ▲ Engine protection system for: battery charge, coolant temperature, low fuel, low oil pressure & over speed

Accessories ... to finish the job properly!

Optional Accessories – Over 200 amp units	
Description:	Part Number:
Slide Control	OTD10/2004
Hand Pendant	OTD10/2005
Foot Control	OTD10/2007
Extension Cable	OTD10/2032
Transcooler	TC900-G

UNDER 200 amp Welding Output

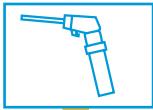


MPM5/190H
Part No. 636800

CIGWELD accessories required for optimum performance broken down by process.

Under 200amp Applicable to:
- MPM5/190H
- MPM5/170Y

Manual Metal Arc



Lead Set



Description:	Part Number:
Lead Set (8M) or	646325
Electrode Holder	646165
Work Clamp	646348
Crimp Lug	KP774 (for clamp)
Cable Connector	704461 (x 2 required) supplied with plant
Welding Cable	7901044 (Note 1)

GTAW Air Cooled



SA17 Air Cooled TIG Torch



Description:	Part Number:
GTAW Torch (4M)	305710402
Accessory Kit	BGSAK2
Gas Hose Kit	700433
*Regulator	301527
*Flowmeter	301710
Work Lead (8M)	705161

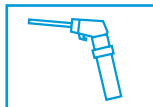
OVER 200 amp Welding Output



MPM12/400K
Part No. 636804

Over 200amp Applicable to:
- MPM8/255H
- MPM8/270K
- MPM12/400K
- MPM20/500P

Manual Metal Arc

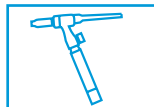


400 amp Lead Set



Description:	Part Number:
Lead Set (8M) or	646325
Electrode Holder	646142
Work Clamp	646349
Crimp Lug	KP774 (for clamp)
Cable Connector	704461 (x 2 required)
Welding Cable	7901045 (Note 1)

GTAW Air Cooled



SA26 Air Cooled TIG Torch



Description:	Part Number:
GTAW Torch (4M)	305720401
Accessory Kit	BGSAK2
Gas Hose Kit	700433
*Regulator	301527
*Flowmeter	301710
Work Lead (8M)	705161

GTAW Water Cooled



SA18 Water Cooled TIG Torch



Description:	Part Number:
GTAW Torch (4M)	320710400
Accessory Kit	BGSAK2
Water Connection	BG18DWC
Nipple	699744
Nut	699745
Gas Hose Kit	700433
*Regulator	301527
*Flowmeter	301710
Work Lead (8M)	705161

GMAW/FCAW



Wire Feeder Part No. 705700



Description:	Part Number:
Tweco® 4 Gun (3.6m)	717201
Work Lead (8m)	705161
*Regulator	301527
*Flowmeter	301711
Crimp Lug	KP774 (for clamp)
Cable Connector	704461
Welding Cable	7091045 (note 1)
Adaptor Lug – 50mm ²	
Dinse (for feeder)	706551
Gas Hose	7904503 (Note 3)
Gas Hose Connection	LP112 (x 2 RQD)

Tweco® No. 4



VSF-2 Wire Feeder (Note 2) Part No. OTD12/1002



OR

Description:	Part Number:
Tweco® 4 Gun (3.6M)	717201
Work Lead (8M)	705161
*Regulator	301527
*Flowmeter	301711

Tweco® No. 4



Notes:

- 7901044 and 7901045 is bulk cable supplied in a 150 metre drum. CIGWELD distributors sell this cable by the metre.
- The VSF-2 is a popular choice for use with engine driven equipment. Due to its portability and ability to utilise a single cable from the power source.
- Gas hose may not be required, depending on the consumables used. e.g. Self Shielded Flux cored wire does not require a gas line
- The MPM5/190 is capable of the Mig/Fluxcore process using 0.8 or 0.9 solid or 0.8,0.9,1.2 mm Flux cored wires via a VSF-2 Wire Feeder.

* These items can be substituted with a Regulator Flowmeter Combined. Part No. 301526

ENGINE DRIVE SELECTION GUIDE:

	Model	Stick	MIG CV	MIG using VSF-2 wirefeeder	Flux core CV	Flux core using VSF-2 wirefeeder	CC or CV	DC TIG	Welding Amperage Range	240 volt Auxiliary Power	415 volt Auxiliary Power	Engine Brand	Special Features	Typical Applications
PETROL	● MPM 5/190	●		■		■	CC	●	40-190	4 kVA	5 kVA	Honda	Farmers choice Compact, portable	Maintenance/repair, Auxiliary power
	● MPM 8/255	●	●	●	●	●	CC/CV	●	25-255	7 kVA	8 kVA	Honda	Contractor's choice CC/CV, high aux power	Fabrication, repair, Auxiliary power, rental
DIESEL	● MPM 5/170	●					CC	●	40-170	4 kVA	5 kVA	Yanmar	Contractor's choice Lightweight, portable diesel	Farm, maintenance
	● MPM 8/270	●	●	●	●	●	CC/CV	●	30-270	8.5 kVA		Kubota	Contractor's choice For small diameter self shielded wires	Construction, fabrication, rental
	● MPM 12/400	●	●	●	●	●	CC/CV	●	30-400	10 kVA	12 kVA	Kubota	400 amp output, 12 kVA, 3 phase Auxiliary power	Construction, rental
	● MPM 20/500	●	●	●	●	●	CC/CV	●	30-500	12 kVA	20 kVA	Perkins	Heavy duty, rugged, gouging capabilities	Construction, rental, mining

CLASS:

● Light Industrial ● Industrial

QUALITY KEY: indicates performance within rated output range of unit

● Excellent ■ Good/Fair

SPECIFICATIONS	MPM 5/190H 636800	MPM5/170Y 636810	MPM 8/255H 636808	MPM 8/270K 636809	MPM 12/400K 636804	MPM 20/500P 636805
WELDING DC						
Part No.						
Maximum output	190 amp - 28 volt	170 amp - 27 volt	255 amp - 30 volt	270 amp - 25 volt	400 amp - 36 volt	500 amp - 40 volt
Duty cycle @ 60%	170 amp - 27 volt	140 amp - 26 volt	250 amp - 30 volt	250 amp - 25 volt	350 amp - 34 volt	400 amp - 36 volt
Range of cont. control	40 - 190 amp	40 - 170 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
Mechanical protection	IP 23	IP 23	IP 23	IP 23	IP 23	IP 23
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	40-190 amp	40-170 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						
Make/type	Honda GX 340	Yanmar L100	Honda GX 620	Kubota D722-E	Kubota D 1105-E	Perkins D3.152.4
Number of cylinders	1	1	2	3	3	3
Displacement	340 cc	406 cc	614 cc	719 cc	1124 cc	2500 cc
Power	11 HP at 3600 rpm	10 HP	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 forced	air forced	air	water	water	water
Fuel	unleaded petrol	diesel	unleaded petrol	diesel	diesel	diesel
Fuel tank capacity	6.5 litres	5.5 litres	37.5 litres	37.5 litres	36.5 litres	60litres
Oil capacity	1.1 litres	1.65 litres	1.2 litres	3.1 litres	5.1 litres	6.3litres
Starter	manual recoil	electric (& manual)	electric	electric	electric	electric
Battery	–	12 volt	12 volt	12 volt	12 volt	12 volt
Acoustic noise @ 4 m	78 dB	80 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 H x W x D mm	510 x 480 x 730	570 x 460 x 880	710 x 490 x 1080	1300 x 530 x 850	920 x 730 x 1590	1100 x 800 x 1950
Weight kg	92	115	245	302	460	920

Manufacturer and Supplier of Welding Consumables and Equipment

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