



# Master S

## 400 / 500

Powerful, efficient, quality, value

- Hot start and arc force adjustment for optimised starts and arc control with alternative electrode types, guaranteeing flawless and stable weld pool control every time.
- Antifreeze cuts off the power and protects the electrode if sticking occurs during welding
- Contact ignition (Lift TIG) in DC TIG
- Arc gouging
- Designed and manufactured in Finland
- 3 year warranty

### A master of sites

**Master S series MMA power sources are designed for high-performance professional welding.** They offer a compact, robust and portable MMA power source with optimum energy efficiency. It is a perfect partner for heavy-duty welding work where the ease of use, reliability and durability are paramount.

- Powerful and portable MMA power source for professional workshop and site use
- Models available for all electrode types, including cellulosic electrodes
- Efficient output at 400/500 A 60% ED
- Robust structure for heavy-duty site use

The powerful 400 or 500 amp power source provides great welding results with pleasurable welding experience. Mains and generator powered with wide voltage network tolerance. Integrated Voltage Reduction Device (VRD) increases safety at work. All this and more in a compact and lightweight design that makes transportation and site management easy.





## VALUE FEATURES



### EXTRA UTILITY

Professional welding performance, compact, lightweight, industrial MMA (stick) and DC TIG.



### REMOTE CONTROL OPTION

When connected with a suitable Kemppi remote control, you can remotely adjust the welding current

## Technical specifications

Master S		S 400	S 500
Connection voltage	3~50/60 Hz	380 – 440 V (-10 %...+10 %)	380 – 440 V (-10 %...+10 %)
Rated power at max. current	60 % ED	18 kVA	26 kVA
Fuse (delayed)		25 A	35 A
Output at 40 °C MMA	60 % ED	400 A / 36 V	500 A / 40 V
	100 % ED	310 A / 32.4 V	390 A / 35.6 V
Output at 40 °C TIG	60 % ED	400 A / 26 V	500 A / 30 V
	100 % ED	310 A / 22.4 V	390 A / 25.6 V
Max. welding voltage		400 A / 48 V	500 A / 46V
Open circuit voltage		80 – 95 V	80 – 95 V
Stick electrodes		ø 1.6...6.0 mm	ø 1.6...7.0 mm
Welding current control		stepless	stepless
Power factor at 100 %		0.89	0.90
Efficiency at 100 %		0.89	0.89
Degree of protection		IP23S	IP23S
Operating temperature range		-20...+50 °C	-20...+50 °C
EMC class		A	A
External dimensions	L x W x H	570 x 270 x 370 mm	570 x 270 x 370 mm
Weight (without cables)		20.5 kg	23.5 kg

## Ordering information

Master S		
Master S 400		632140001
Master S 500		632150001
Master S 500 offshore	For extreme conditions	632150001C1
Master S 400 AU*		6321400AU
Master S 500 AU*		6321500AU
Welding cable	5 m, 50 mm <sup>2</sup>	6184501
	10 m, 50 mm <sup>2</sup>	6184502
	5 m, 70 mm <sup>2</sup>	6184701
	10 m, 70 mm <sup>2</sup>	6184702
Earth return cable	5 m, 50 mm <sup>2</sup>	6184511
	10 m, 50 mm <sup>2</sup>	6184512
	5 m, 70 mm <sup>2</sup>	6184711
	10 m, 70 mm <sup>2</sup>	6184712
R10 Remote control	5m	6185409
	10m	618540901
Slide bars		SP007023

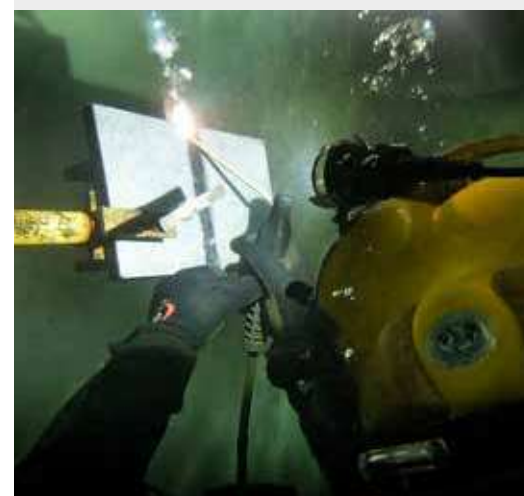
\* The AU models are for the Australian and New Zealand markets.



Clear and easy to use display, plus adjustment for Arc dynamics and Hot start values.



Single man lift capability in a powerful, compact package.



On land and sea, Master S 400 and S 500 provide the power to get the job done.