

# Master S 400/500

Portable power for heavy-duty performance



# True welding quality and efficiency for budget price



1. Sturdy easy-grip handle
2. Tough plexiglass cover
3. Simple and clear control panel
4. Easy-to-use DIX connectors for earth return cable and MMA welding cable
5. Shockproof casing

## Benefits

- Powerful
- Compact
- Portable
- Reliable
- Easy to use



Energy efficient

**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
- Suits all electrode types, including cellulosic electrodes (cellulose model)
- Efficient output at 400/500 A 60% ED
- Robust structure for heavy-duty site use

Master S series are all about ease-of-use and performance. 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 to make transportation and site management easy.

## Control panel

The Master S control panel is designed for clear visibility. It has clear and large screen equipped with anti-glare features. Protective cover shields against scratching, dust, moisture, sand and spatters.

- Clear display panel with anti-glare features
- Positioned on a optimal angle for best visibility
- User-friendly interface for fault-free performance



User-friendly interface

## Remote convenience

The two remote control options add convenience and cost-efficiency to your welding operations. Using **R10** enables welding parameters to be set conveniently at welding site. The **wireless R11-T** adds even more freedom and easier mobility.



R10 and R11-T

## Special technology features

- **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**
- **Parent power supply CC/CV** for Kemppi voltage-sensing wire feed systems and in-line TIG solutions

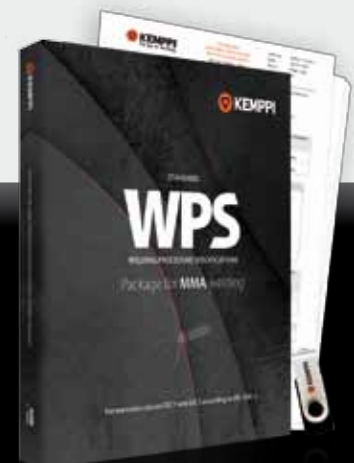


R11-T wireless remote control units can be used simply by touching the electrode

## WPS for consistent quality

Kemppi's Standard Welding Procedure Specifications (WPS) provide practical specs for repeatable and uniform quality. They have been fully tested in actual welding and can be used when fabricating steel constructions, including on site erection work according to EN 1090-2. They are mandatory from 07/2014.

Read more from our website  
[www.kemppi.com/wps](http://www.kemppi.com/wps)





## Technical data

Master		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	20 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		55 – 65 V	55 – 65 V
Stick electrodes		ø 1.6 – 6.0 mm	ø 1.6 – 7.0 mm
Welding current control		stepless	stepless
Power factor at 100 %		0.90	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		6321400	Slide bars
Master S 500		6321500	SP007023
Master S 400 Cel	including cellulose welding characteristic	632140001	Welding cable
Master S 500 Cel	including cellulose welding characteristic	632150001	50 mm <sup>2</sup> , 5 m
R10 Remote control	5m	6185409	50 mm <sup>2</sup> , 10 m
	10m	618540901	70 mm <sup>2</sup> , 5 m
R11-T Wireless remote control		6185442	70 mm <sup>2</sup> , 10 m
			Earth cable
			50 mm <sup>2</sup> , 5 m
			50 mm <sup>2</sup> , 10 m
			70 mm <sup>2</sup> , 5 m
			70 mm <sup>2</sup> , 10 m

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