

HiArc family

Professional performance -
simple control





Professional performance - Simple control

The distinctive grey casing colour of HiArc welding equipment communicates professional welding performance, through simple and easy control.

HiArc models are built at Kemppi factories to audited ISO quality standards. Inverter power source technology features throughout the range, ensuring smooth and regulated welding output and excellent energy efficiency.

Kemppi arc control logics means reliable ignition regardless of mains voltage fluctuations, improving weld quality and positively reducing rework costs. Each model is a perfect balance of lightweight, portable construction, and tough enough to survive the rigors of everyday site welding work.



Energy efficient

Smooth and regulated welding output

Improved energy efficiency

Simple and easy control

Manufactured to ISO and IEC conformity standards

Excellent welding performance

Models for MMA, TIG and MIG/MAG

HiArc family - Tough, powerful and portable



HiArc S 140

HiArc S 140 is a little giant for portable MMA welding. Durable, compact and weighing only 4kg, HiArc S 140 is easy to use at the workshop or work-site.

Powered from any 1ph 230V supply including power generators, HiArc S 140 can be used with extra-long cables, up to 50 m from the power supply, and the 35% ED @ 140 amps work capacity ensures you have enough welding power to complete your welding task, first time, every time with all electrode types.

HiArc T 180

HiArc T 180 is a DC TIG welding machine powered from a 1ph, 230V power supply and is suitable for completing high quality welding seams, root and filler passes.

Both powerful and portable, the 180 amp power source offers high work capacity at 35% ED and weighs only 7.8kg, so you can be sure to have the necessary power and control to complete precise TIG welding tasks. Plus 140 amps MMA welding power, should the job demand.

HiArc T 180 is an ideal solution for sheet fabrication, installation, repair, and maintenance applications in a multitude of industries, as well as for use in welding education. The ignition is precise and reliable, even at low current, and the user-friendly operation panel provides a machine that guarantees high welding productivity.

HiArc S 400

HiArc S 400 is the powerful and portable MMA welding solution for use in demanding, dusty and hot welding environments. HiArc S 400 weighs just 20kg and offers 60% ED at 400 amps for reliable welding results with all electrode types, making it ideal for use at the workshop or site.

HiArc S 400 is available in two model variants, the simple regular 'R' or advanced 'A' model. A models include additional arc control features including Arc force and Hot start parameter adjustment, plus distance remote control option. The S 400 'A' model also features VRD function - **V**oltage **R**eduction **D**evice, effectively controlling the open circuit voltage level below 35 volts, making welding safer in damp and humid conditions.

HiArc S 400 can be powered from any 3ph mains voltage network or engine driven power supply and Kemppi inverter techniques ensure a smooth, consistent, and reliable welding arc every time, every weld, with the added benefit of reduced energy cost when compared to alternative industrial MMA solutions.

HiArc M 400/500

HiArc M 400/500 R series machines are modern and energy efficient MIG/MAG welding solutions, offering clean and reliable ignition with either CO₂ or mixed shielding gas.

Power source metering keeps you informed, even in low light conditions. The large, clear, backlit LCD panel displays preset welding voltage, wire feed speed and amperage parameters, and crater filling function makes sure you have the best arc control right to the finish. HiArc M series machines provide high 60% ED work capability in either the 400 or 500 amp model variants.

Choose from two wire feeding solutions where parameters are adjusted at the workstation. The entry level F 10 wire feed unit offers simple but reliable 2-roll feeding mechanism. For tough work environments where you need an enclosed wire cabinet, select the F 30 system, incorporating the heavy duty 4-roll DuraTorque feeding mechanism and impact resistant 'dual skin' plastic feed cabinet. Both F10 and F30 models suit 300mm wire spools.

HiArc family

Simply easy welding solutions



HiArc S 140 delivers 35% ED @ 140 amps, is easy to use, durable, compact and light-in-weight at only 4kg and comes complete with welding electrode holder, earth clamp and cables set.



HiArc S 400 weighs just 20kg and offers 60% ED at 400 amps for reliable welding results with all electrode types. A standard welding cables set is included to each package.



HiArc S 400 is available in two model variants, the regular R or advanced A model pictured. A models include additional arc control features, plus VRD function for added operator safety.



HiArc S models suit all MMA electrode types and feature either preset or adjustable ignition control parameters.

HiArc M 400R

HiArc M series machines provide high 60% ED work capability in either the 400 or 500 amp model variants.



HiArc M 500R

HiArc M series power sources feature large, clear, backlit LCD panels including preset welding voltage, wire feed speed and crater filling parameters, ensuring you have the best arc control right to the finish.



F10 wire feeder

F 10 wire feed unit offers a simple but reliable 2-roll feeding mechanism, plus voltage, wire speed and wire inch parameter control.



F30 wire feeder

F 30 wire feed system incorporates an heavy duty 4-roll feeding mechanism and features a tough 'dual skin' plastic cabinet.

FE welding guns

FE welding guns are specifically designed for regular fabrication tasks using ferrous filler wires and are available from 3.5 to 5 meters in length.



HiArc T 180 is a precise and accurate DC TIG welding machine, offering high work capacity @ 35% ED and weighing only 7.8kg. HiArc T 180 includes gas and slope timers, plus full remote control options.



Connect R 10 hand remote to HiArc T180 for convenient current control at distance. Suitable for both MMA or TIG process. HiArc S 400 A models also use a similar black handle remote control for MMA welding, called R 10 H.



Fit RTC 10 TIG torch remote control for accurate and convenient power adjustment during the welding cycle. Ideal for pipe welding applications.



Connect R 11F remote foot control to HiArc T180 for precise and frequent current adjustment. Ideal for bench welding applications.

Technical data

HiArc		S 140	T 180
Connection voltage		50/60 Hz 1 ~, 230 V (± 15 %)	1 ~, 230 V (±15 %)
Rated power at max. current		35 % ED MMA 35 % ED TIG 7.5 kVA 5.0 kVA	7.0 kVA 6.7 kVA
Fuse (delayed)		16 A	16 A
Output at 40 °C		35 % ED MMA 100 % ED MMA 35 % ED TIG 100 % ED TIG 140 A / 25.6 V 100 A / 24 V 150 A / 16 V 110 A / 14.4 V	140 A / 25.6 V 100 A / 24 V 180 A / 17.2 V 120 A / 14.8 V
Welding range		MMA TIG 10 A/20.5 V – 140 A/25.6 V 5 A/10 V – 150 A/16 V	10 A/20.4 V – 140 A/25.6 V 5 A/10.2 V – 180 A/17.2 V
Power factor at max. current		MMA TIG 0,60 0,60	0,63 0,62
External dimensions	L x W x H	320 x 123 x 265 mm	400 x 180 x 340 mm
Weight		4 kg	8 kg

HiArc		S 400R	S 400A	M 400	M 500
Connection voltage	3~50/60 Hz	380 – 440 V (±10 %)	380 – 440 V (±10 %)	380 – 440 V (±10 %)	380 – 440 V (±10 %)
Rated power at max. current	60 % ED	20 kVA	18 kVA	17.6 kVA	24.5 kVA
Fuse (delayed)		25 A	25 A	25 A	35 A
Output at 40 °C	60 % ED	400 A / 36 V	400 A / 36 V	400 A / 34 V	500 A / 39 V
	100 % ED	310 A / 32.4 V	310 A / 32 V	310 A / 29 V	390 A / 33.5 V
Output at 50 °C	15 % ED	400 A	400 A		
External dimensions	L x W x H	570 x 270 x 340 mm	570 x 270 x 340 mm	647 x 385 x 485 mm	716 x 385 x 485 mm
Weight		19.5 kg	20 kg	36 kg	41 kg

Ordering information

HiArc			F30 wire feeder		6310030		Guns		
HiArc S 140	6302140		50-5-G cable	6260500			FE32	3,5 m	6603203
HiArc S 400R	63114002		70-5-G cable	6260501				5,0 m	6603204
HiArc S 400A	63114001		50-10-G cable	6260513			FE35	3,5 m	6603503
HiArc T 180, TTC 160 4m	P350		70-10-G cable	6260514				5,0 m	6603504
HiArc T 180, TTC 160 8m	P351		50-15-G cable	6260515			FE42	3,5 m	6604203
HiArc M 400R	63104002		70-15-G cable	6260516				5,0 m	6604204
HiArc M 500R	63105002		70-20-G cable	6260523			MTP 350	3 m	6258353
			70-30-G cable	6260633				4,5 m	6258354
Wire feeders			Cables			Remote controls			
F10 wire feeder	5m, 50 mm ²	6310010	Welding cable	50 mm ² , 5 m	6184501H	R 10	5 m	6185409	
	10m, 50 mm ²	6310010C1	Earth cable	50 mm ² , 5 m	6184511H	RTC 10		6185477	
	15m, 50 mm ²	6310010C2		50 mm ² , 10 m	6184512H	R 11F		6185407	
	2m, 70 mm ²	6310010C3		70 mm ² , 5 m	6184711H	R 10H		6185431H	
	5m, 70 mm ²	6310010C4							
	15m, 70 mm ²	6310010C5							
	20m, 70 mm ²	6310010C6							
	10m, 70 mm ²	6310010C7							

Kemppi Oy

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