MASTER YOUR CRAFT WITH MASTER T

Master T series are premium TIG welding machines for professional AC and DC TIG welding. Delivering exceptional weld quality, precision and energy efficiency, specified Master T models also include advanced features like MAX WeldClean and DeMagnetization mode, boosting productivity and ensuring consistent return on investment.

KEMPPI

MASTER OF AC AND DC TIG WELDING

Professional's number one choice for TIG welding

Master T sets the benchmark for weld quality, usability and energy efficiency in professional AC and DC TIG welding. Designed for welders that demand precision, Master T combines advanced welding performance with durability and ergonomics to excel in any application. Available in power variants up to 500 A, Master T delivers smooth and reliable arc ignition, reduced noise level and enhanced arc control, ensuring consistent, high-quality results from start to finish. Weld Assist technology speeds parameter setups, helping every welder establish benchmark settings by joint type, joint position and material thickness.

MAX WeldClean & DeMagnetization processes

Master T ACDC models are equipped as standard with two industry-leading features:

MAX WeldClean mode
Use Master T ACDC in MAX WeldClean mode and electrolytically clean your welds perfectly, without the need for extra equipment.

DeMagnetization mode
Use Master T ACDC in Degaussing mode and eliminate residual magnetic fields in a workpiece, improving arc stability and directional arc control.

Watch the feature video

Precision from start to finish

Smooth arc ignition allows great control, precision and efficiency. Weld Assist guides every user to faster weld parameter set-up, and lower noise levels help you maintain focus throughout your welding day.

Powerful performance

Value based specifications combine powerful welding capability with additional performance features like Pulse, MicroTack and AutoCool technology, influencing improved welding control, quality, speed and energy efficiency.

Productivity innovations

Master T ACDC models include unique performance modes: MAX WeldClean establishes Master T as a powerful electrolytic weld cleaner, and DeMagnetization mode eliminates remnant magnetic fields within a workpiece.

MAIN FEATURES

- DC & ACDC 1ph and 3ph models
- Gas or liquid cooled configuration
- Alternative control display options
- 7-inch premium display specification includes WeldAssist, guiding every welder towards accurate and productive welding, including joint type and welding position selections.
- ACDC models fitted with 7-inch display include MAX WeldCool and DeMagnetization processes
- Optional foot operated, hand or on-torch remote controls
- Two- and four-wheel transport units include floor level cylinder loading
- Wide range of Flexlite TX TIG torches
- Optional WeldEye cloud service for quality welding management
- Designed and manufactured in Finland
- 3 year warranty

MASTER T

Feature	MASTER T 245 ACDC GM	MASTER T 355 ACDC GM	MASTER T 355 DC GM
Mains connection voltage	220...240 V ±10 %	380...460 V ±10 %	380...460 V ±10 %
Mains connection voltage (MV low range)	110...120 V ±10 %	220...230 V ±10 %	220...230 V ±10 %
Mains connection phases	1~50/60 Hz	3~50/60 Hz	3~50/60 Hz
Output, duty cycle % at rated max. current, TIG	30 %	30 %	30 %
Output at +40 °C, rated max. current, TIG	240 A	350 A	350 A
Output, duty cycle % at rated max. current, TIG (@MV low range)	40 %	40 %	40 %
Output at +40 °C, rated max. current, TIG (@MV low range)	130 A	300 A	300 A
Output range, TIG	5 A / 1 V ... 240 A / 30 V	5 A / 1 V ... 350 A / 38 V	5 A / 1 V ... 350 A / 38 V
Output range, MMA	10 A / 10 V ... 180 A / 40 V	10 A / 10 V ... 270 A / 39 V	10 A / 10 V ... 270 A / 39 V
Operating temperature	-20 ... 40 °C	-20 ... 40 °C	-20 ... 40 °C
EMC class	A	A	A
Degree of protection (fully installed)	IP23	IP23	IP23
Dimensions (L x W x H)	544 mm x 205 mm x 443 mm	544 mm x 205 mm x 443 mm	544 mm x 205 mm x 443 mm
Weight without accessories	19,1 kg	21,5 kg	21,5 kg
Standards	IEC 60974-1,-3,-10, IEC 61000-3-12, GB 15579.1	IEC 60974-1,-3,-10, IEC 61000-3-12, GB 15579.1	IEC 60974-1,-3,-10, IEC 61000-3-12, GB 15579.1
Item code	MST245ACDCGM	MST355DCGM	MST355DCGM

Feature	MASTER T 405 DC G	MASTER T 505 ACDC GM
Mains connection voltage	380...460 V ±10 %	380...460 V ±10 %
Mains connection voltage (MV low range)		220...230 V ±10 %
Mains connection phases	3~50/60 Hz	3~50/60 Hz
Output, duty cycle % at rated max. current, TIG	30 %	30 %
Output at +40 °C, rated max. current, TIG	400 A	500 A
Output, duty cycle % at rated max. current, TIG (@MV low range)		40 %
Output at +40 °C, rated max. current, TIG (@MV low range)		450 A
Output range, TIG	5 A / 1 V ... 400 A / 41 V	5 A / 1 V ... 500 A / 37 V
Output range, MMA	10 A / 10 V ... 350 A / 42 V	10 A / 10 V ... 400 A / 39 V
Operating temperature	-20 ... 40 °C	-20 ... 40 °C
EMC class	A	A
Degree of protection (fully installed)	IP23	IP23
Dimensions (L x W x H)	544 mm x 205 mm x 443 mm	860 mm x 263 mm x 610 mm
Weight without accessories	23,6 kg	57 kg
Standards	IEC 60974-1,-3,-10, IEC 61000-3-12, GB 15579.1	IEC 60974-1,-3,-10, AS 60974.1-2006, GB/T 15579.1
Item code	MST405DCG	MST505ACDCGM

ACCESSORIES

4-wheel cart P45MT
2-wheel cart T25MT
Wireless hand remote control HR45
Wireless foot pedal FR45
Digital connectivity module 6265051

www.kemppi.com

Scan for more information