



MasterTig DC / MasterTig ACDC

Far from the ordinary

- Choose from traditional touch button control panels or the full color 7" TFT control panel, including Weld Assist and 99 memory channels per process
- Weld Assist guides every welder towards accurate, productive welding by recommending the best parameters for different welding applications
- Several useful features available for enhanced TIG welding
- Easy, fast and convenient coolant filling and cleaning
- MasterTig transport units feature floor level cylinder loading, removing the need for heavy lifting
- Compatible with Flexlite TX TIG torches
- Foot pedal, on-torch and hand remote controls available
- Option for connecting the equipment to WeldEye cloud service
- Designed and manufactured in Finland
- 3 year warranty

Excellent ergonomics and superb user experience

MasterTig is the new master of AC and DC TIG welding, setting new standards for weld quality, usability and power efficiency.

Designed for professional user groups, the MasterTig product family offers a choice of power variants in 230A, 300A, 400A and 500A models, featuring impressive size and weight specifications.

The modular design philosophy allows you to build the specification that best meets your needs, including alternative control panels, wireless remote controls and transport cart options.

Stylish, practical and robust, MasterTig absorbs the knocks and shocks of everyday welding life. Light in weight and compact in size, MasterTig is constructed from tough injection molded plastic, featuring impact bridge protection structures, and is your reliable partner for workshop or site use.





VALUE FEATURES



30% INCREASED WELDING SPEED

Double Pulse function accelerates welding speed and lowers heat input by 20%



60% FASTER SETUP

Weld Assist guides you towards the optimal setup for easy and productive welding



20% LOWER NOISE LEVELS

MasterTig reduces noise levels compared to leading competitors in AC welding applications

Enhanced welding



PERSONALIZE

Upload your company logo or favorite image to personalize your MasterTig screen saver.



MODULAR DESIGN

Choose from a range of MasterTig power models, alternative user interfaces remote control options, transport carts and torches, to ensure your machine meets your exact needs.



IMPACT BRIDGE

MasterTig is designed and constructed from strong, energy absorbing, recyclable plastics, incorporating impact bridge structures that better protect the power source from the everyday knocks of welding life. MasterTig 535 ACDC is fitted with metal side plates.



PIVOTSAFE

MasterTig transport units feature floor level cylinder loading, thus eliminating the need for heavy lifting. The P45MT transport unit has an innovative integrated pivoting cylinder plate for safe cylinder loading.



TORCH PARTS STORAGE

Quickly access frequently used TIG torch parts from the convenient storage tray mounted in the handle. Feature not included in MasterTig 535 ACDC.



UI CONTROL PANELS

Choose between the traditional touch button control panels or the full color 7" TFT control system allowing easy, fast and accurate parameter setting. Protected by a 3mm armor shield plate, the 7" TFT display panel is both impact and scratch resistant. MasterTig 535 ACDC includes the MTP35X panel as standard.



WELD ASSIST

Set up your machine the first time and every time with Weld Assist. Follow simple on-screen steps to select material, thickness, joint type and position, and Weld Assist will set the optimal parameters, guiding every welder through accurate, productive welding. Weld Assist also gives recommendations for electrode size, filler wire, gas flow, groove type, pass profile and travel speed. Perfect for creating pWPS.



AUTOCOOL

Dynamic gas and water cooling ensures optimal temperature control and power efficiency. Depending on the welding power level and duration, the power source cooling fans moderate air flow and cooler motor run time between 15 seconds and 4 minutes, reducing electrical power consumption and localized noise levels. MasterTig 535 ACDC also includes an LED water level indicator



WIRELESS

The magic of cordless remote control. Eliminate costly cable repairs and improve work site safety by using wireless remotes. Select either hand or foot pedal modules and enjoy wireless power control from a distance of up to 15 meters, or even 100 meters, depending on the work site. Make life easy.



Kemppi Flexlite TX torches feature high-strength and flexible rubber handles, for increased comfort and lower welder fatigue.



Upload your favourite image or company logo as a screen saver to the MTP35X display.



MasterTig 535 ACDC can be lifted by crane using the standard lifting eyes attached to the top of the machine.

Technical specifications

		MasterTig 235ACDC GM	MasterTig 235ACDC GM (VRD locked on)
Mains connection voltage	1~ 50/60 Hz	110 / 220...240 V ±10 %	110 / 240 V ±10 %
Fuse		16 A	15 A
Open circuit voltage (average)	MMA	50 V	23 V (locked to VRD)
Rated maximum output at 40 °C (240 V)	40 % TIG	230 A / 19.2 V	230 A / 19.2 V
Rated maximum output at 40 °C (110 V)	40 % TIG	130 A / 15.2 V	130 A / 15.2 V
Range of output (240 V)	TIG	3 A / 1 V...230 A / 31 V	3 A / 1 V...230 A / 31 V
Range of output (110 V)	TIG	3 A / 1 V...130 A / 24 V	3 A / 1 V...130 A / 24 V
Operating temperature range		-20...+40 °C	-20...+40 °C
EMC class		A	A
Degree of protection		IP23S	IP23S
External dimensions	LxWxH	544 x 205 x 443 mm	544 x 205 x 443 mm
Weight without accessories		19.1 kg	19.1 kg
Recommended generator power (min)	Sgen	8 kVA	8 kVA
Stick electrode diameters	ø mm	1.6...5.0 mm	1.6...5.0 mm
Standards		IEC 60974-1,-3,-10 / IEC 61000-3-12	IEC 60974-1,-3,-10 / IEC 61000-3-12 AS 60974.1-2006

		MasterTig 325DC MasterTig 335ACDC	MasterTig 325DC G MasterTig 335ACDC G	MasterTig 325DC GM MasterTig 335ACDC GM
Mains connection voltage	3~ 50/60 Hz	380...460 V ±10 %	380...460 V ±10 %	220...230 V; 380...460 V ±10 %
Fuse		16 A	16 A	20 A
Open circuit voltage (average)	MMA	50 V 23 V*	50 V 23 V*	50 V
Rated maximum output at 40 °C	40 % TIG	300 A / 22 V	300 A / 22 V	300 A / 22 V
Range of output	TIG	3 A / 1 V...300 A / 38 V	3 A / 1 V...300 A / 38 V	3 A / 1 V...300 A / 27 V (@ 220 V)
Operating temperature range		-20...+40 °C	-20...+40 °C	-20...+40 °C
EMC class		A	A	A
Degree of protection		IP23S	IP23S	IP23S
External dimensions	LxWxH	544 x 205 x 443 mm	544 x 205 x 443 mm	544 x 205 x 443 mm
Weight without accessories		21.0 kg 22.0 kg	21.5 kg 22.5 kg	21.5 kg 22.5 kg
Recommended generator power (min)	Sgen	20 kVA	20 kVA	20 kVA
Stick electrode diameters	ø mm	1.6...6.0 mm	1.6...6.0 mm	1.6...6.0 mm
Standards		IEC 60974-1,-3,-10 IEC 61000-3-12 AS 60974.1-2006 *	IEC 60974-1,-3,-10 IEC 61000-3-12 AS 60974.1-2006 *	IEC 60974-1,-3,-10 IEC 61000-3-12
* Applies only to the power source model versions where the Voltage Reduction Device (VRD) function is locked on.				

Technical specifications

		MasterTig 425DC G	MasterTig 425DC G (VRD locked on)	MASTERTIG 535 ACDC GM	MASTERTIG 535 ACDC GM (VRD locked on)
Mains connection voltage	3~ 50/60 Hz	380...460 V ±10 %	380...460 V ±10 %	220...230 V; 380...460 V ±10 %	220...230 V; 380...460 V ±10 %
Fuse		16 A	16 A	32 A	32 A
Open circuit voltage (average)	MMA	50 V	23 V (locked to VRD)	50 V	23 V (locked to VRD)
Rated maximum output at 40 °C	30 % TIG	400 A / 26 V	400 A / 26 V	40 % ED 500A/30V (400V) 40 % ED 450A/28V (220V)	40 % ED 500A/30V (400V) 40 % ED 450A/28V (220V)
Range of output	TIG	3 A / 1 V...400 A / 41 V	3 A / 1 V...400 A / 41 V	3 A/1 V-500 A /37 V (400V) 3 A/1 V-450 A /32 V (220 V)	3 A/1 V-500 A /37 V (400V) 3 A/1 V-450 A /32 V (220 V)
Operating temperature range		-20...+40 °C	-20...+40 °C	-20 ... +40 °C	-20 ... +40 °C
EMC class		A	A	A	A
Degree of protection		IP23S	IP23S	IP23S	IP23S
External dimensions	LxWxH	544 x 205 x 443 mm	544 x 205 x 443 mm	860 x 263 x 610 mm	860 x 263 x 610 mm
Weight without accessories		23.6 kg	23.6 kg	57 kg	57 kg
Recommended generator power (min)	Sgen	20 kVA	20 kVA	35 kVA	35 kVA
Stick electrode diameters	∅	1.6...7.0 mm	1.6...7.0 mm	1,6...7,0 mm	1,6...7,0 mm
Standards		IEC 60974-1,-3,-10 IEC 61000-3-12	IEC 60974-1,-3,-10 IEC 61000-3-12 AS 60974.1-2006	IEC60974-1,-3,-10, AS60974.1, GB/T15579.1	IEC60974-1,-3,-10, AS60974.1, GB/T15579.1

MasterTig Coolers	MasterTig Cooler M	MasterTig MXL Cooler
Recommended coolant	MPG 4456 (Kemppi mixture)	MPG 4456 (Kemppi mixture)
Tank volume	3.0 l	3.0 l
Operating temperature range *	-20...+40 °C	-20...+40 °C
Weight without accessories	12.5 kg	25 kg
	* With recommended coolant	

FlexFlite TIG Torches		TX 135GF	TX 165GF	TX 165GS	TX 165G	TX 225G	TX 225GS	TX 255WS	TX 305WF	TX 355W
Type of cooling		Gas	Gas	Gas	Gas	Gas	Gas	Liquid	Liquid	Liquid
Type of connection	Current- gas	G1/4	G1/4	G1/4	G1/4	G1/4	G1/4	G1/4	G1/4	G1/4
Load capacity @ 40 % (Argon)	A	130	160	160	160	220	220	250	300	350
Load capacity @ 100 % (Argon)	A	-	-	-	-	-	-	200	200	250
Remote control		Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Neck type		Flexible	Flexible	Rotating	70° angle	70° angle	Rotating	Rotating	Flexible	70° angle
These equipment comply with standard IEC 60974-7.										



MT535ACDC



P43MT



T25MT



P45MT

Ordering information

Equipment	Description	Ordering code
MasterTig 235ACDC GM	Power source: 230 A AC/DC, generator and multi-voltage use	MT235ACDCGM
MasterTig 235ACDC GM	Power source: 230A AC/DC, generator and multi-voltage use, VRD locked on	MT235ACDCGMAU
MasterTig 325DC	Power source: 300 A DC	MT325DC
MasterTig 325DC G	Power source: 300 A DC, generator use	MT325DCG
MasterTig 325DC G	Power source: 300 A DC, generator use, VRD locked on	MT325DCGAU
MasterTig 325DC GM	Power source: 300 A DC, generator and multi-voltage use	MT325DCGM
MasterTig 335ACDC	Power source: 300 A AC/DC	MT335ACDC
MasterTig 335ACDC G	Power source: 300 A AC/DC, generator use	MT335ACDCG
MasterTig 335ACDC G	Power source: 300 A AC/DC, generator use, VRD locked on	MT335ACDCGAU
MasterTig 335ACDC GM	Power source: 300 A AC/DC, generator and multi-voltage use	MT335ACDCGM
MasterTig 425DC G	Power source: 400 A DC, generator use	MT425DCG
MasterTig 425DC G	Power source: 400 A DC, generator use, VRD locked on	MT425DCGAU
MasterTig 535 ACDC GM	Power source: 500 A AC/DC, 3-phase generator and multi-voltage use, includes	MTP35X, MT535ACDCGM
MasterTig 535 ACDC GM	Power source: 500 A AC/DC, 3-phase generator and multi-voltage use, VRD locked on, includes MTP35X, MT535ACDCGMAU	MTP35X, MT535ACDCGMAU
MasterTig Cooler MXL	MasterTig 535 Cooler 1.7Kw multi-voltage XL	MTC17KWMXL
MasterTig Cooler M	Cooling unit, multi-voltage use	MTC1KWM
MTP23X	Control panel: Membrane panel, DC	MTP23X
MTP33X	Control panel: Membrane panel, AC/DC	MTP33X
MTP35X	Control panel: 7" TFT panel, DC, AC/DC	MTP35X
HR43	Wired remote	HR43
HR45	Wireless remote	HR45
FR43	Wired foot pedal remote	FR43
FR45	Wireless foot pedal remote	FR45
P43MT	Transport unit, 4 wheel undercarriage	P43MT
T25MT	Transport unit, 2 wheel cart	T25MT
P45MT	Transport unit, 4 wheel cart	P45MT
MT535ACDC	Transport unit, 4 wheel cart	X5701020000

MODEL DESCRIPTION	SALES PACKAGE CODE
MASTERTIG 535 AC/DC 500 GM 4M WC FR CART	P0916TX
MASTERTIG 535 AC/DC 500 GM 8M WC FR CART	P0917TX
MASTERTIG 535 AC/DC 500 GMVRD 4M WC FR CART	P0918TX
MASTERTIG 535 AC/DC 500 GMVRD 8M WC FR CART	P0919TX

