

KempoMat 2500 / 3200 / 4200

KempoWeld 3200 / 3200W / 4200 / 4200W / 5500W

Recognised and appreciated for rugged construction and simple controls



In brief

- Basic MIG/MAG welding range, heavy duty construction
- Simple voltage and wire feed control
- Integral undercarriage and cylinder carrier
- Inclined gun angle improves feed quality



Applications

- Heavy and medium-heavy metal workshops
- Installation and set-up
- Repair and maintenance
- Agriculture



Key features

Traditional step regulated power sources, strong and enclosed wire feed systems, plus integrated cylinder carriages make KempoMat and KempoWeld ideal for professional users specialising in steel fabrication. The KempoMat name stands for no nonsense dependability and reliability. Choose from four models including 200, 250, 320 and 420 amp outputs, powered from a 3ph mains network. KempoMat provides the welding power to meet your needs.

KempoWeld has a trusted reputation the world over. The range includes powerful 320 and 420 amp air cooled, plus 320, 420 and 550 amp water cooled models. Extend your welding reach with the Wire200, Wire400 and Wire500 feed unit range. Robust construction and heavy duty feed mechanisms ensure reliable filler wire delivery.

Reduce operator fatigue and increase welding performance with cycle arc and spot welding timer, 2T/4T gun sequence function, burn back control.

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Technical Specifications

Kempomat		2500	3200	4200
Rated voltage		230 V / 400 V	230 V / 400 V	
Connection voltage	3~ 400 V	380 V -10% ... 415 V +6%	380 V -10% ... 415 V +6%	380 V -10% ... 415 V +6%
	3~ 230 V	220 V -10% ... 240 V +6%	220 V -10% ... 240 V +6%	220 V -10% ... 240 V +6%
Rated power at max. current 230 V / 400 V		9,2 kVA (30 % ED)	13,6 kVA (40 % ED)	18,5 kVA (40 % ED)
	60 % ED	5,9 kVA	10,0 kVA	13,5 kVA
	100 % ED	4,0 kVA	6,6 kVA	9,0 kVA
Load capacity 40 °C (nominal values)		250 A/26 V (30 % ED)	320 A / 32 V (40 % ED)	420 A / 37,5 V (40 % ED)
	60 % ED	180 A/23 V	265 A / 27 V	325 A / 31 V
	100 % ED	140 A/21 V	205 A / 24 V	265 A / 27 V
Control range		40 – 250 A/14 – 26 V	40 - 320 A / 15 - 32 V	40 - 420 A / 15 - 37,5 V
Voltage steps		10 steps	40 steps	32 steps / 230 V; 56 steps / 400 V
Open circuit voltage max.		35 V	42 V	48 V
Efficiency at max. current		250 A/26 V 75 %	(320 A / 32 V) 75 %	(420 A / 37,5 V) 80 %
Power factor at max. current		250 A/26 V 0,95	(320 A / 32 V) 0,95	(420 A / 37,5 V) 0,95
Fuse, delayed		8 A	8 A	8 A
Wire feed mechanism		2 wire feed	4 wire feed	4 wire feed
Diameter of feed roll		32 mm	32 mm	32 mm
Wire feed speed	I	0 – 18 m / min	0 – 18 m / min	0 – 18 m / min
	II	0 – 25 m / min	0 – 25 m / min	0 – 25 m / min
Filler wires	ø Fe, Ss	0,6 – 1,2 mm	0,6 – 1,2 mm	0,6 – 1,2 mm
	ø Cored wire	0,8 – 1,2 mm	0,8 – 1,6 mm	0,8 – 1,6 mm
	ø Al	1,0 – 1,2 mm	1,0 – 1,6 mm	1,0 – 1,6 mm
Wire spool	max. weight	20 kg	20 kg	20 kg
	max. size	ø 300 mm	ø 300 mm	ø 300 mm
Gun connector		Euro	Euro	Euro
Temperature class		H (180 °C)	H (180 °C)	H (180 °C)
Operating temperature range		-20 ... +40 °C	-20 ... +40 °	-20 ... +40 °
Storage temperature range		-40 ... +60 °C	-40 ... +60 °C	-40 ... +60 °C
Degree of protection		IP23S	IP23S	IP23S
EMC class		A	A	A
External dimensions LxWxH		930 x 440 x 860 mm	970 x 480 x 970	970 x 480 x 970
Weight		80 kg	118 kg	130 kg

Ordering information

Kempomat	
Kempomat 2500 230/400 V	621425002
Kempomat 3200 230/400 V	621432002
Kempomat 4200 230 V	6214422
Kempomat 4200 400 V	6214424
KMW sync 2 (Synchronization unit)	6219150
MSD 1 (Volt / Ampere metering unit)	6185666
GH 20 (Gun holder)	6256020

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KempoWeld 3200 / 3200W / 4200 / 4200W / 5500W

Technical Specifications

Kempoweld		3200	3200W
Connection voltage	3 ~ 400 V	380 V -10 % ... 415 V +6 %	380 V -10 % ... 415 V +6 %
	3 ~ 230 V	220 V -10 % ... 240 V +6 %	220 V -10 % ... 240 V +6 %
Connection capacity 230 V / 400 V	40 % ED	13,6 kVA	13,6 kVA
	60 % ED	10,0 kVA	10,0 kVA
	100 % ED	6,6 kVA	6,6 kVA
Main cable / fuses	220 - 240 V	4 x 2,5 mm ² / 20 A delayed	4 x 2,5 mm ² / 20 A delayed
	380 - 415 V	4 x 2,5 mm ² / 16 A delayed	4 x 2,5 mm ² / 16 A delayed
Connection to wire feeder unit		30 V / 250 VA	30 V / 250 VA
Fuse delayed		8 A	8 A
Loading capacity	40 % ED	320 A / 32 V	320 A / 32 V
	60 % ED	265 A / 27 V	265 A / 27 V
	100 % ED	205 A / 24 V	205 A / 24 V
Control range 40 steps		40 – 320 A / 15 – 32 V	40 – 320 A / 15 – 32 V
Open circuit voltage 40 steps		15 – 40 V	15 – 40 V
Open circuit power		< 50 W	< 50 W
Efficiency	320 A / 32 V	75 %	75 %
Power factor	320 A / 32 V	0,95	0,95
Temperature class		H (180 °C)	H (180 °C)
Operation temperature range		-20 ... +60 °C	-20 ... +60 °C
Storage temperature range		-40 ... +60 °C	-40 ... +60 °C
Degree of protection		IP23S	IP23S
EMC class		A	A
External dimensions	LxWxH	990 x 530 x 880 mm	990 x 530 x 1090 mm
Weight		106 kg	118 kg

Ordering information

Kempoweld	
Kempoweld 3200	621532002
Kempoweld 3200W	621632002
Wire feeder unit	
Kempoweld WIRE 400	621740001

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Ordering options

Kempoweld		4200	4200W	5500W
Connection voltage	3 ~ 400 V	380 V -10% ... 415 V +6%	380 V -10% ... 415 V +6%	380 V -10% ... 415 V +6%
	3 ~ 230 V	220 V -10% ... 240 V +6%	220 V -10% ... 240 V +6%	---
Connection capacity 230 V / 400 V	40 % ED	18,5 kVA	18,5 kVA	---
	60 % ED	13,5 kVA	13,5 kVA	30 kVA
	100 % ED	9,0 kVA	9,0 kVA	20 kVA
Mains cable / fuse	220 - 240 V	4 x 6,0 mm ² / 25 A delayed	4 x 6,0 mm ² / 25 A delayed	---
	380 - 415 V	4 x 2,5 mm ² / 16 A delayed	4 x 2,5 mm ² / 16 A delayed	4 x 6,0 mm ² / 32 A delayed
Connection to wire feeder unit		30 V / 250 VA	30 V / 250 VA	30 V / 250 VA
Fuse delayed		8 A	8 A	8 A
Loading capacity (nominal values)	40 % ED	420 A / 37,5 V	420 A / 37,5 V	---
	60 % ED	325 A / 31 V	325 A / 31 V	550 A / 42 V
	100 % ED	265 A / 27 V	265 A / 27 V	430 A / 36 V
Control range		40 – 420 A / 15 – 37,5 V	40 – 420 A / 15 – 37,5 V	50 – 550 A / 18 – 42 V
The amount of voltage steps	3 ~ 400 V	56	56	32
	3 ~ 230 V	32	32	---
Open circuit voltage		15 – 48 V	15 – 48 V	18 – 56 V
Open circuit power		< 50 W	< 50 W	< 50 W
Efficiency		75 % (420 A / 37,5 V)	75 % (420 A / 37,5 V)	80 % (550 A / 42 V)
Power factor		0,95 (420 A / 37,5 V)	0,95 (420 A / 37,5 V)	0,95 (550 A / 42 V)
Temperature class		H (180 °C)	H (180 °C)	H (180 °C)
Operation temperature range		-20 ... +60 °C	-20 ... +60 °C	-20 ... +60 °C
Storage temperature range		-40 ... +60 °C	-40 ... +60 °C	-40 ... +60 °C
Degree of protection		IP 23S	IP 23S	IP 23S
EMC class		A	A	A
External dimensions	LxWxH	990x530x880 mm	990x530x1090 mm	10775x480x1140 mm
Weight		126 kg	138 kg	194 kg

Ordering information

Kempoweld	
Kempoweld 4000	6215402
Kempoweld 4000	6215404
Kempoweld 4000W	6216402
Kempoweld 4000W	6216404
Kempoweld 5500W	6216554
Wire feeder units	
Kempoweld WIRE 400	6217400
Kempoweld WIRE 550	6217550