

KÜHTREIBER®



Digital Inverters **MAKin**

MAKin 200 P HF

5 - 200 A

165 A/60 %

AC|DC



Input voltage 50/60 Hz	[V]	1 x 230 (±15 %)
Fuse - slow	[A]	16
Welding current range	[A]	5 - 200
Duty cycle 100 % (40 °C)	[A]	130
Duty cycle 60 % (40 °C)	[A]	165
Duty cycle 40 % (40 °C)	[A]	200
Power	[kW]	6,4
Voltage at no load	[V]	70
Efficiency	[%]	85
Protection	-	IP23 H
Dimensions	[mm]	490 x 150 x 305
Weight	[kg]	10

Functions TIG: Pre/Post Gas, Start Current, Up/Down Slope, End Current, Frequency AC, Balance AC (Duty cycle), Pulse DC, Balance DC, 2-stroke/4-stroke, Remote control, Cooling modul, Generator

Function MMA: Soft Start, Hot Start, Arc Force, Anti Stick, V.R.D., Generator

MAKin 320 P HF

10 - 320 A

320 A/60 %

AC|DC



Input voltage 50/60 Hz	[V]	3 x 400 (±10 %)
Fuse - slow	[A]	25
Welding current range	[A]	10 - 320
Duty cycle 100 % (40 °C)	[A]	250
Duty cycle 60 % (40 °C)	[A]	320
Duty cycle 40 % (40 °C)	[kW]	9
Power	[kW]	13
Voltage at no load	[V]	74
Efficiency	[%]	85
Protection	-	IP23 H
Dimensions	[mm]	655 x 255 x 650
Weight	[kg]	26

Functions TIG: Pre/Post Gas, Start Current, Up/Down Slope, End Current, Frequency AC, Balance AC (Duty cycle), Pulse DC, Balance DC, 2-stroke/4-stroke, Remote control, Cooling modul, Generator

Functions MMA: Soft Start, Hot Start, Arc Force, Anti Stick, V.R.D., Generator



Recommended accessories for MAKin 320 P HF AC|DC

• Cooling MAKin C 316W

• Transport trolley

MAKin 160 PFC

10 - 160 A

135 A/60 %

MMA



Input voltage 50/60 Hz	[V]	1 x 230 (-60 %; +15 %)
Fuse - slow	[A]	16
Welding current range	[A]	10 - 160
Duty cycle 100 % (40 °C)	[A]	105
Duty cycle 60 % (40 °C)	[A]	135
Duty cycle 40 % (40 °C)	[A]	160
Mains current / input 60 %	[A/kVA]	13,2 / 3
Voltage at no load	[V]	15
Efficiency	[%]	85
Protection	-	IP23 H
Dimensions	[mm]	325 x 140 x 240
Weight	[kg]	6,1

Functions MMA: Soft Start, Hot Start, Arc Force, Anti Stick, V.R.D., Generator

Plasma MAKin

Functions: Contactless Ignition, Pilot Arc, Standard Mode Cutting and Cutting of Perforated Materials, Gas Test, Air Pressure Display, Automatic Burner Check/Air Pressure Check, Overheating Protection, CNC interface



		CUT 40 PFC LIFT	CUT 40 AIR LIFT	CUT 65 LIFT	CUT 100 HF
Input voltage 50/60 Hz	[V]	1 x 230 (-60%; +15%)	1 x 230 (±15 %)	3 x 400 (±15 %)	3 x 400 (±15 %)
Fuse - slow	[A]	16	16	25	20
Welding current range	[A]	20 - 40	20 - 40	20 - 65	20 - 100
Duty cycle 100 % (40 °C)	[A]	30	30	60	80
Duty cycle 60 % (40 °C)	[A]	40	40	65	100
Maximum thickness of clean cut	steel	15	15	25	40
	stainless	12	12	25	30
	aluminium	10	10	20	20
	copper	4	4	14	15
Max. cutting thickness	steel	20	20	35	50
Voltage at no load	[V]	320	320	450	450
Power	[kW]	4,9	4,7	7,8	10,4
Efficiency	[%]	85	85	85	85
Protection	-	IP23 H	IP23 H	IP23 H	IP23 H
Contactless ignition	-	-	-	-	Yes
Integrated compressor	-	-	Yes	-	-
Dimensions	[mm]	505 x 147 x 305	480 x 240 x 450	640 x 270 x 500	640 x 270 x 500
Weight	[kg]	8	18	24	27

MAKin 400/500 S

Synergic / Pulse / Double Pulse



Set:

- Welding source
- Wire feeder
- Cooling MAKin C 316W
- Transport trolley
- Connecting cable

Functions Manual, Synergic, Pulse: Pre/Post Gas, Burn Back, Inductance, Arc Length, Spool Gun, 2-stroke/4-stroke, S4T, Remote Control, Cooling Modul, Generator, Job Mode, Gas Test, Wire Feeding, Spot Welding

The variant Double Pulse contains in addition: Double Pulse Width, Double Pulse Frequency, Dual Pulse Arc Length

Functions MMA: Soft Start, Hot Start, Arc Force, Anti Stick, V.R.D., Generator

Functions TIG DC: Pre/Post Gas, Down Slope, Remote control, 2-stroke/4-stroke, Cooling modul, Generator

		MAKin 400 S			MAKin 500 S		
		MIG	TIG	MMA	MIG	TIG	MMA
Input voltage 50/60 Hz	[V]	3 x 400 (±15 %)			3 x 400 (±15 %)		
Fuse - slow	[A]	32			32		
Welding current range	[A]	20 - 400	10 - 400		20 - 500	10 - 500	
Power	[kW]	15	12	15	22	17	22,5
Voltage at no load	[V]	46	14,5		68	14	
Welding voltage range	[V]	14 - 40 (MIG)			14 - 50 (MIG)		
Duty cycle 100 % (40 °C)	[A]	310			400		
Duty cycle 60 % (40 °C)	[A]	400			500		
Wire diameter	[mm]	Fe: 0,6-1,6, stainless steel: 0,8-1,6 tube wire: 0,6-1,6 aluminium: 1,0-1,6			Fe: 0,6-1,6, stainless steel: 0,8-1,6 tube wire: 0,6-1,6 aluminium: 1,0-1,6		
Efficiency	[%]	90			90		
Protection	-	IP23 H			IP23 H		
Dimensions	[mm]	1050 x 490 x 1480			1050 x 490 x 1480		
Weight	[kg]	32,5			32,5		

Images for illustration.

Right to change reserved.