KOLARC

BUILDING THE FUTURE



Robotic Interfaces

Ethernet

Modbus

EtherNet/IP

PROFINET

EtherCAT

Others

DeviceNet

CANopen

PROFIBUS

Modbus

TECHNICAL SPECIFICATIONS

MX600 W



MX500 W



	MX600 W	MX500 W
Input Voltage	400 V	400 V
Mains Voltage Tolerance	- 10 % / + 15 %	- 10 % / + 15 %
Minimum Welding Current	10 A	10 A
Maximum Welding Current	600 A	500 A
MIG Duty Cycle, 40°C	600 A %40, 500 A %60, 400 A %100	500 A %40, 430 A %60, 360 A %100
TIG Duty Cycle, 40°C	600 A %40, 500 A %60, 400 A %100	500 A %40, 430 A %60, 360 A %100
MMA Duty Cycle, 40°C	600 A %40, 500 A %60, 400 A %100	500 A %40, 430 A %60, 360 A %100
Open – Circuit Voltage	63 V - 82 V	63 V - 82 V
Factory Delivered Roller	1.0 + 1.2 mm / Steel	1.0 + 1.2 mm / Steel
Weight	Liquid Cooled , 107 kg	Liquid Cooled , 107 kg
Standard Accessories	5m Power Cable (4 x 6mm²)	5m Power Cable (4 x 4mm²)
	5m Earth Clamp (95mm²)	5m Earth Clamp (70mm²)
	Interconnection H.P (5m)	Interconnection H.P (5m)
Dimensions (W, L, H)	532mm x 970mm x 1351mm	532mm x 970mm x 1261mm
Certification	CE	CE

MX400 W



400 V
- 10 % / + 15 %
10 A
400 A
400 A %40, 360 A %60, 300 A %100
400 A %40, 360 A %60, 300 A %100
400 A %40, 360 A %60, 300 A %100
63 V - 82 V
1.0 + 1.2 mm / Steel
Liquid Cooled , 94 kg
5m Power Cable (4 x 2.5mm²)
5m Earth Clamp (50mm²)
Interconnection H.P (5m)
532mm x 974mm x 1178mm
CE

MX350 CW

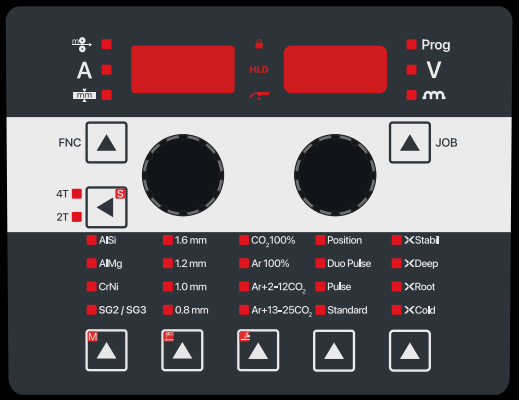


400 V
- 10 % / + 15 %
10 A
350 A
350 A %40, 300 A %60, 250 A %100
350 A %40, 300 A %60, 250 A %100
350 A %40, 300 A %60, 250 A %100
63 V - 82 V
1.0 + 1.2 mm / Steel
Liquid Cooled , 55 kg
5m Power Cable (4 x 2.5mm²)
5m Earth Clamp (50mm²)
Gas Hose (1.5m)
532mm x 860mm x 974mm
CE

MX300 C

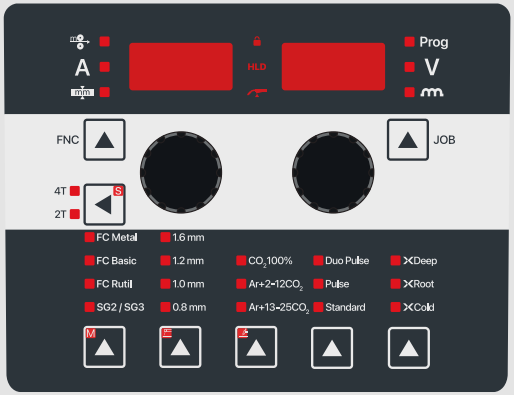


400 V
- 10 % / + 15 %
10 A
300 A
300 A %40, 230 A %60, 170 A %100
300 A %40, 230 A %60, 170 A %100
300 A %40, 230 A %60, 170 A %100
63 V - 82 V
1.0 + 1.2 mm / Steel
Air Cooled , 21 kg
5m Power Cable (4 x 1.5 mm²)
5m Earth Clamp (35 mm²)
Gas Hose (1.5 m)
234mm x 483mm x 417mm
CE



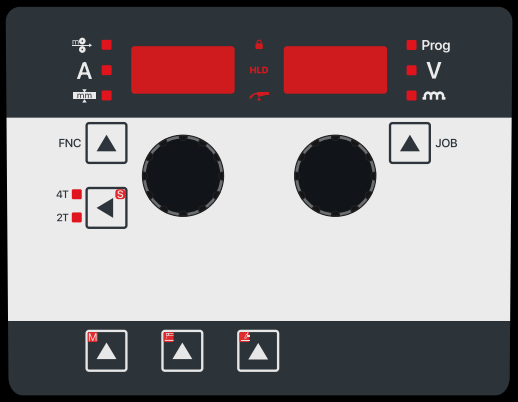
Pulse

For All Types of Metal Work (Steel, Cr, Cu & Al)



Synergic Pulse

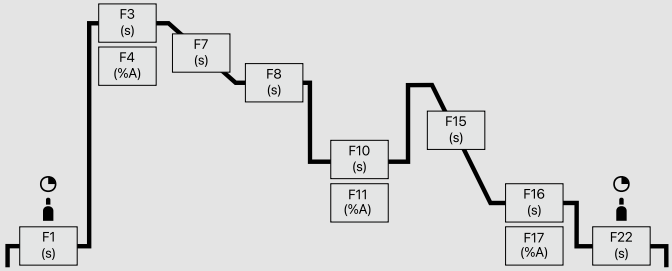
Flux-Cored Wire & Steel Solutions for Shipyards



Shipyard

Standard Panel for Shipyard Applications

Standard - Pulse			0.8	1.0	1.2	1.6
SG2 / SG3		Ar+18%CO_2	8	10	12	16
		Ar+10%CO_2	18	20	22	26
		CO_2 100%	28	30	32	36
CrNi	308 / 316 / 318 / 19 9 / 19 12 3	Ar+2.5%CO_2	68	70	72	76
CuSi		Ar100%	178	180	182	186
CuAl		Ar100%	188	190	192	196
AlMg4,5 Mn		Ar100%	118	120	122	126
AlSi		Ar100%	138	140	142	146
Flux Cored			0.8	1.0	1.2	1.6
Steel / FC Metal		Ar+18%CO_2	238	240	242	246
Steel / FC Rutil		Ar+18%CO_2	248	250	252	256
		CO_2 100%			262	266
Steel / FC Basic		Ar+18%CO_2			602	
CrNi / FC Metal		Ar+2.5%CO_2			272	276
CrNi / FC Rutil		Ar+18%CO_2			282	286
CrNi / FC Rutil		CO_2 100%			292	296
Steel / FC High Str.		Ar+18%CO_2			592	
Steel / FC Rutil		Self Shielded		720	722	
XDeep - Pulse			0.8	1.0	1.2	1.6
SG2 / SG3		Ar+18%CO_2	298	300	302	306
		Ar+10%CO_2	308	310	312	316
CrNi	308 / 316 / 318 / 19 9 / 19 12 3	Ar+2.5%CO_2		640	642	646
AlMg4,5 Mn		Ar100%			332	336
AlSi		Ar100%			342	346
XRoot - Pulse			0.8	1.0	1.2	1.6
SG2 / SG3		Ar+18%CO_2		360	362	
		CO_2 100%		370	372	
		Ar+10%CO_2		500	502	
XCold - Pulse			0.8	1.0	1.2	1.6
SG2 / SG3		Ar+18%CO_2	378	380	382	386
		CO_2 100%	388	390	392	
		Ar+10%CO_2		510	512	
CrNi	308 / 316 / 318 / 19 9 / 19 12 3	Ar+2.5%CO_2	398	400	402	
Application						
MIG/MAG Manual			4			
TIG (Lift Arc)			5			
MMA			6			
Gouging			7			



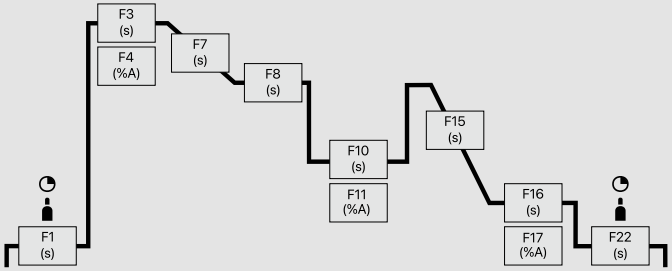
MIG/MAG	Function	Description	Min	Max
	F1	Gas pre-flow (s)	0	10
	F2	Start wire speed (m/min)	20	100
	F3	Start time (s)	0	10
	F4	Start current (%)	1	200
	F5	Start arc correction(V)	-9.9	+9.9
	F7	Start slope (s)	0	5
	F8	Duo peak time (s)	0.05	10
	F10	Duo base time (s)	0.05	10
	F11	Duo base amper (%)	1	100
	F12	Duo base arc correction (v)	-9.9	+9.9
	F15	End down slope (s)	0	10
	F16	End time (s)	0	10
	F17	End current (%)	1	200
	F18	End arc correction (V)	-9.9	+9.9
	F20	End burn back (-)	0	15
	F21	End wire cut mode (-)	0	2
	F22	Gas post-flow (s)	0	10
	F23	Smart trigger (-)	0	10
	F24	Penetration stabilizer (m/min)	0	10

MMA	Function	Description	Min	Max
	F25	Hot start time (s)	0	10
	F26	Hot start current (%)	1	200
	F27	Arc force (-)	0	+50
	F28	Antistick (s)	0	2
	F29	VRD function (-)	0	1

OTHERS	Function	Description	Min	Max
	F34	Tack/stich mode (-)	0	2
	F35	Cooling mode (-)	0	4
	F36	Motor current (A)	0	4
	F37	Motor current limit (A)	0.7	7
	F38	Auto load default values (-)	0	1
	F39	Motor control firmware (-)	-	-
	F40	Power control firmware (-)	-	-
	F41	Arc on time (h)	0	4
	F42	Machine on time (h)	0	4
	F45	Wire speed correction (m/min)	-2	+2
	F48	Status light template	0	4
	F49	Controller mode	0	9
	F50	RL cable calibration (mOhm)	0	30

TIG	Function	Description	Min	Max
	F31	TIG V stop limit (V)	18	18
	F32	TIG comfort stop sensitivity (V)	-2	+2

Standard - Pulse		0.8	1.0	1.2	1.6
SG2 / SG3	Ar+18%CO_2	8	10	12	16
	Ar+10%CO_2	18	20	22	26
	CO_2 100%	28	30	32	36
Flux Cored		0.8	1.0	1.2	1.6
Steel / FC Metal	Ar+18%CO_2	238	240	242	246
Steel / FC Rutil	Ar+18%CO_2	248	250	252	256
	CO_2 100%			262	266
Steel / FC Basic	Ar+18%CO_2			602	
Steel / FC High Str.	Ar+18%CO_2			592	
Steel / FC Rutil	Self Shielded		720	722	
XDeep - Pulse		0.8	1.0	1.2	1.6
SG2 / SG3	Ar+18%CO_2	298	300	302	306
	Ar+10%CO_2	308	310	312	316
XRoot - Pulse		0.8	1.0	1.2	1.6
SG2 / SG3	Ar+18%CO_2		360	362	
	CO_2 100%		370	372	
	Ar+10%CO_2		500	502	
XCold - Pulse		0.8	1.0	1.2	1.6
SG2 / SG3	Ar+18%CO_2	378	380	382	386
	CO_2 100%	388	390	392	
	Ar+10%CO_2		510	512	
Application					
MIG/MAG Manual		4			
TIG (Lift Arc)		5			
MMA		6			
Gouging		7			

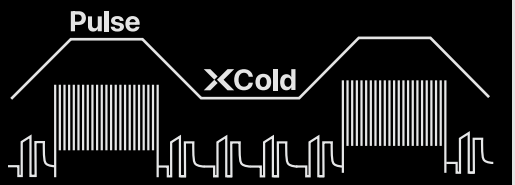


MIG/MAG	Function	Description	Min	Max
	F1	Gas pre-flow (s)	0	10
	F2	Start wire speed (m/min)	20	100
	F3	Start time (s)	0	10
	F4	Start current (%)	1	200
	F5	Start arc correction(V)	-9.9	+9.9
	F7	Start slope (s)	0	5
	F8	Duo peak time (s)	0.05	10
	F10	Duo base time (s)	0.05	10
	F11	Duo base amper (%)	1	100
	F12	Duo base arc correction (v)	-9.9	+9.9
	F15	End down slope (s)	0	10
	F16	End time (s)	0	10
	F17	End current (%)	1	200
	F18	End arc correction (V)	-9.9	+9.9
	F20	End burn back (-)	0	15
	F21	End wire cut mode (-)	0	2
	F22	Gas post-flow (s)	0	10
	F23	Smart trigger (-)	0	10

MMA	Function	Description	Min	Max
	F25	Hot start time (s)	0	10
	F26	Hot start current (%)	1	200
	F27	Arc force (-)	0	+50
	F28	Antistick (s)	0	2
	F29	VRD function (-)	0	1

OTHERS	Function	Description	Min	Max
	F34	Tack/stich mode (-)	0	2
	F35	Cooling mode (-)	0	4
	F36	Motor current (A)	0	4
	F37	Motor current limit (A)	0.7	7
	F38	Auto load default values (-)	0	1
	F39	Motor control firmware (-)	-	-
	F40	Power control firmware (-)	-	-
	F41	Arc on time (h)	0	4
	F42	Machine on time (h)	0	4
	F45	Wire speed correction (m/min)	-2	+2
	F48	Status light template	0	4
	F49	Controller mode	0	9
	F50	RL cable calibration (mOhm)	0	30

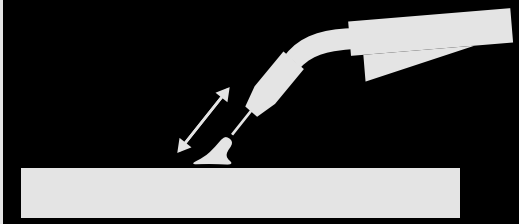
TIG	Function	Description	Min	Max
	F31	TIG V stop limit (V)	18	18
	F32	TIG comfort stop sensitivity (V)	-2	+2



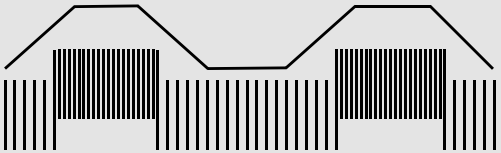
Position



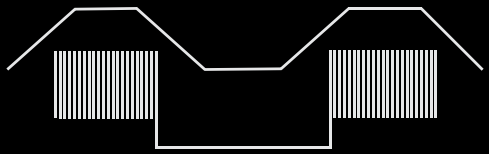
4x4 Rollers Wire Drive



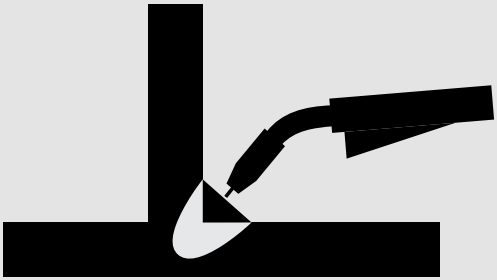
XStabil



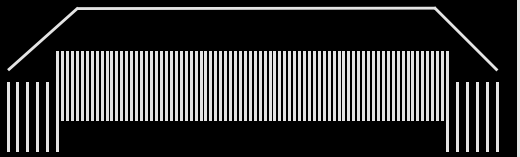
Duo Pulse



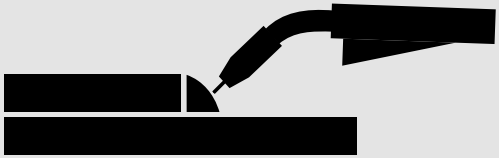
Twin



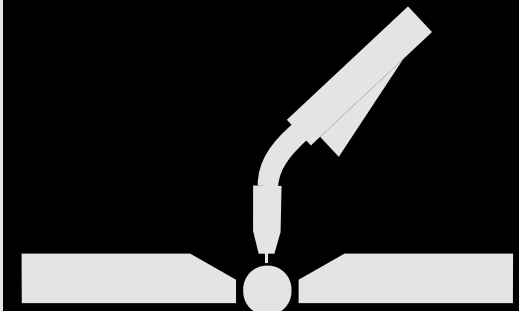
XDeep



Pulse



XCold



XRoot



25.000 PPS
Wire Speed Control
Perfect Feedibility

Wire Push
Pull-Back
Gas Testing



Spool Cover
With Wire
View

99

Program
Memory



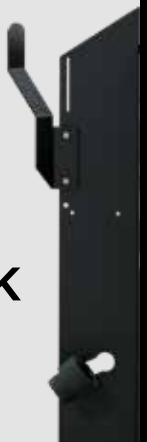
Intelligent
Cooling

RL

Torch and Cable
Calibration



Hose Pack
Support





Torch



Military
Connector

1 Efficiency

Cost Optimization 2

3 Maintenance

Quality 4

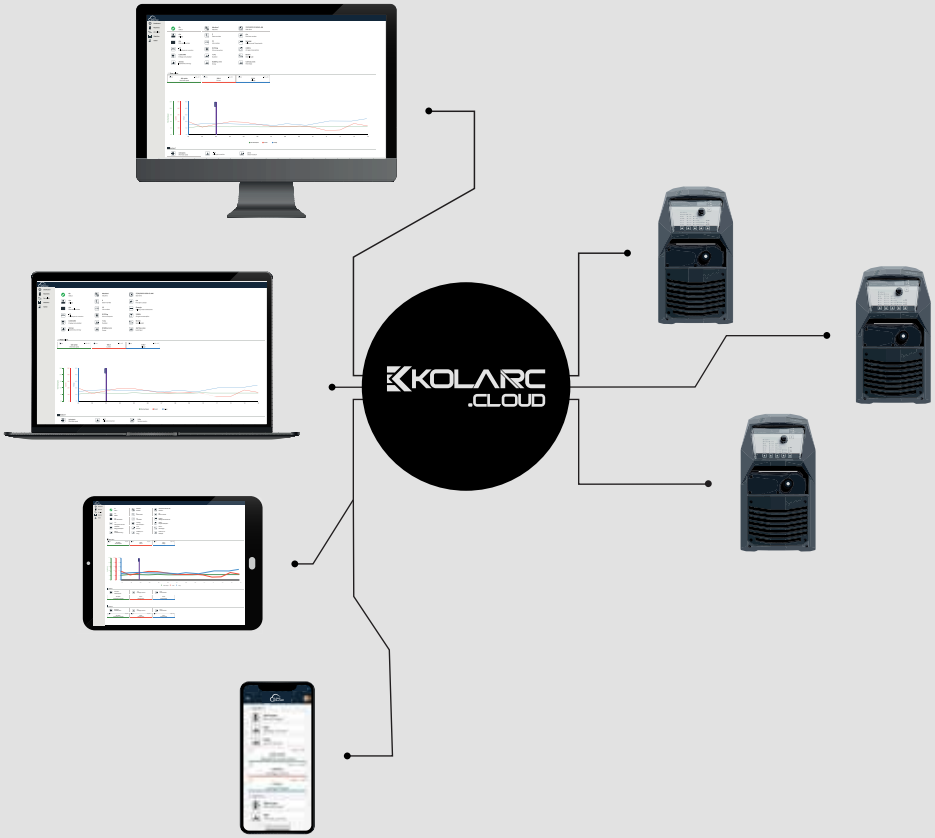
KOLARC .CLOUD

Wi Fi Bluetooth

LoRaWAN

Ethernet

USB Type-C



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