

KOLARC

BUILDING THE FUTURE



Robotic Interfaces

Ethernet

Others



DeviceNet™

EtherNet/IP™

CANopen®



PROFI®
BUS

EtherCAT™

Modbus

MX600 W



MX500 W



TECHNICAL SPECIFICATIONS

Input Voltage	400 V
Mains Voltage Tolerance	- 10 % / + 15 %
Minimum Welding Current	10 A
Maximum Welding Current	600 A
MIG Duty Cycle, 40°C	600 A %40, 500 A %60, 400 A %100
TIG Duty Cycle, 40°C	600 A %40, 500 A %60, 400 A %100
MMA Duty Cycle, 40°C	600 A %40, 500 A %60, 400 A %100
Open – Circuit Voltage	63 V - 82 V
Factory Delivered Roller	1.0 + 1.2 mm / Steel
Weight	Liquid Cooled, 100 kg
Standard Accessories	5m Power Cable (4 x 6mm ²) 5m Earth Clamp (95mm ²) Interconnection H.P (5m)
Dimensions (W, L, H)	532mm x 970mm x 1351mm
Certification	CE

Input Voltage	400 V
Mains Voltage Tolerance	- 10 % / + 15 %
Minimum Welding Current	10 A
Maximum Welding Current	500 A
MIG Duty Cycle, 40°C	500 A %40, 430 A %60, 360 A %100
TIG Duty Cycle, 40°C	500 A %40, 430 A %60, 360 A %100
MMA Duty Cycle, 40°C	500 A %40, 430 A %60, 360 A %100
Open – Circuit Voltage	63 V - 82 V
Factory Delivered Roller	1.0 + 1.2 mm / Steel
Weight	Liquid Cooled, 100 kg
Standard Accessories	5m Power Cable (4 x 4mm ²) 5m Earth Clamp (70mm ²) Interconnection H.P (5m)
Dimensions (W, L, H)	532mm x 970mm x 1261mm
Certification	CE

Input Voltage	400 V
Mains Voltage Tolerance	- 10 % / + 15 %
Minimum Welding Current	10 A
Maximum Welding Current	500 A
MIG Duty Cycle, 40°C	500 A %40, 430 A %60, 360 A %100
TIG Duty Cycle, 40°C	500 A %40, 430 A %60, 360 A %100
MMA Duty Cycle, 40°C	500 A %40, 430 A %60, 360 A %100
Open – Circuit Voltage	63 V - 82 V
Factory Delivered Roller	1.0 + 1.2 mm / Steel
Weight	Liquid Cooled, 100 kg
Standard Accessories	5m Power Cable (4 x 4mm ²) 5m Earth Clamp (70mm ²) Interconnection H.P (5m)
Dimensions (W, L, H)	532mm x 970mm x 1261mm
Certification	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, 95 kg
5m Power Cable (4 x 2.5mm²)
5m Earth Clamp (50mm²)
Interconnection H.P (5m)
525mm x 890mm x 1140mm
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, 75 kg
5m Power Cable (4 x 2.5mm²)
5m Earth Clamp (50mm²)
Gas Hose (1.5m)
532mm x 970mm x 949mm
CE

MX300 C

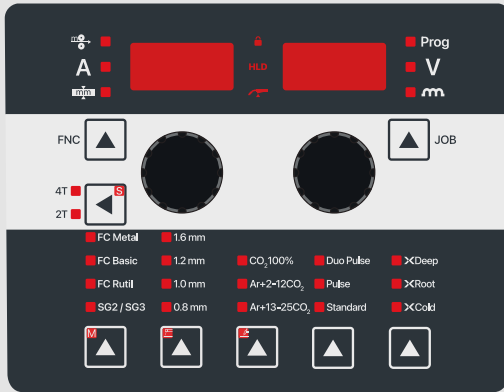


400 V
- 10 % / + 15 %
10 A
300 A
300 A %40, 230 A %60, 170 A %100
300 A %40, 230 A %60, 170 A %100
300 A %40, 230 A %60, 170 A %100
63 V - 82 V
1.0 + 1.2 mm / Steel
Air Cooled, 25 kg
5m Power Cable (4 x 1.5 mm²)
5m Earth Clamp (35 mm²)
Gas Hose (1.5 m)
234mm x 483mm x 417mm
CE



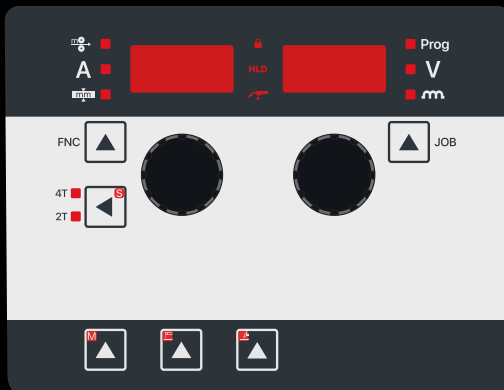
Pulse

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



Synergic Pulse

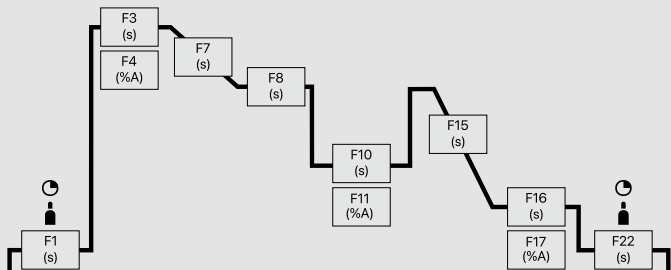
Flux-Cored Wire & Steel
Solutions for Shipyards



Shipyard

Standard Panel for
Shipyards 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 / 19 9	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 Wire		0.8	1.0	1.2	1.6	
Steel / FluxCore Metal	Ar+18%CO ₂	238	240	242	246	
Steel / FluxCore Rutil	Ar+18%CO ₂	248	250	252	256	
	CO ₂ 100%			262	266	
Steel / FluxCore Basic	Ar+18%CO ₂			602		
CrNi / FluxCore Metal	Ar+2.5%CO ₂			272	276	
CrNi / FluxCore Rutil	Ar+18%CO ₂			282	286	
CrNi / FluxCore Rutil	CO ₂ 100%			292	296	
Steel FluxCore High Str.	Ar+18%CO ₂			592		
Steel / FluxCore 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 / 19 9	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 G3Si1 / G4Si1	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 G3Si1 / G4Si1	Ar+18%CO ₂	378	380	382	386	
	CO ₂ 100%	388	390	392		
	Ar+10%CO ₂		510	512		
CrNi	308 / 19 9	Ar+2.5%CO ₂	398	400	402	
Application						
MIG/MAG Manual		4				
TIG (Lift Arc)		5				
MMA		6				
Gouging		7				



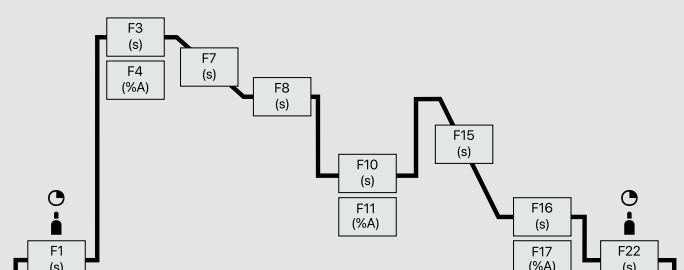
Function	Description	Min	Max
F1	Gas pre-flow (s)	0	10
F2	Start wire speed (m/min)	20	100
F3	Start time (s)	0	10
F4	Start current (%)	1	200
F5	Start arc correction(V)	-9.9	+9.9
F7	Start slope (s)	0	5
F8	Duo peak time (s)	0.05	10
F10	Duo base time (s)	0.05	10
F11	Duo base amper (%)	1	100
F12	Duo base arc 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

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

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

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 Wire		0.8	1.0	1.2	1.6
Steel / FluxCore Metal	Ar+18%CO ₂	238	240	242	246
Steel / FluxCore Rutil	Ar+18%CO ₂	248	250	252	256
	CO ₂ 100%			262	266
Steel / FluxCore Basic	Ar+18%CO ₂			602	
Steel FluxCore High Str.	Ar+18%CO ₂			592	
Steel / FluxCore 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 G3Si1 / G4Si1	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 G3Si1 / G4Si1	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			

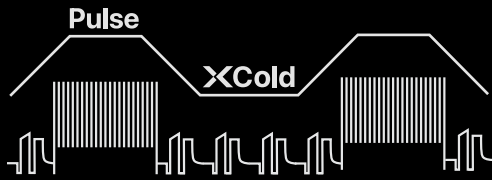


Function	Description	Min	Max
F1	Gas pre-flow (s)	0	10
F2	Start wire speed (m/min)	20	100
F3	Start time (s)	0	10
F4	Start current (%)	1	200
F5	Start arc correction(V)	-9.9	+9.9
F7	Start slope (s)	0	5
F8	Duo peak time (s)	0.05	10
F10	Duo base time (s)	0.05	10
F11	Duo base amper (%)	1	100
F12	Duo base arc 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

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

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

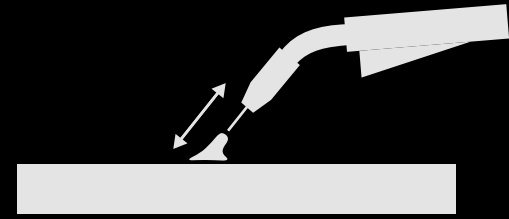
Function	Description	Min	Max
F31	TIG V stop limit (V)	18	18
F32	TIG comfort stop sensitivity (V)	-2	+2



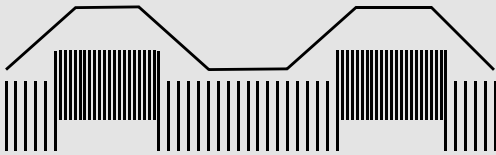
Position



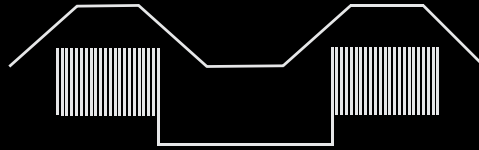
**4x4 Rollers
Wire Drive**



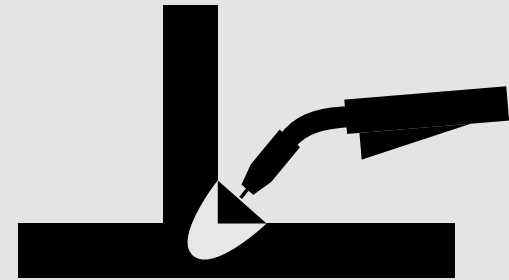
XCold



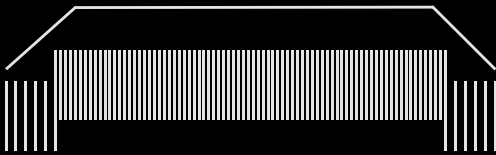
Duo Pulse



Twin



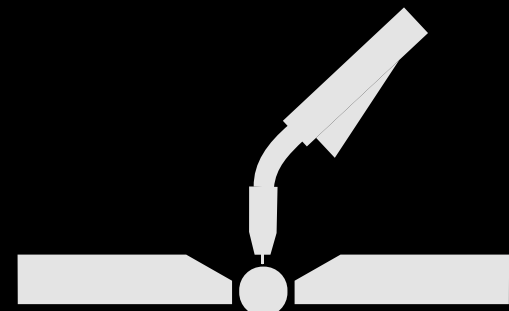
XCold



Pulse



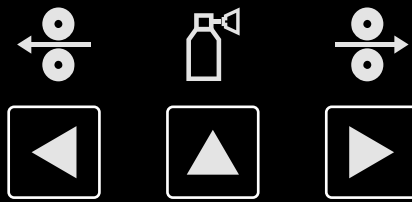
XCold



XCold



25.000 PPS
Wire Speed Control
Perfect Feedability



Wire Push
Pull-Back
Gas Testing



Spool Cover
With Wire
View

99

Program
Memory



Intelligent
Cooling

RL

Torch and Cable
Calibration



Hose Pack
Support



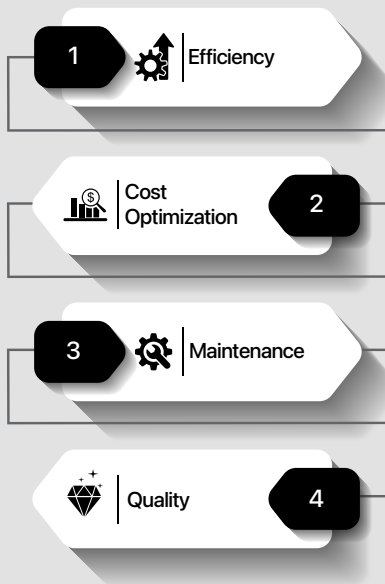
Torch



Military
Connector

KOLARC
.CLOUD

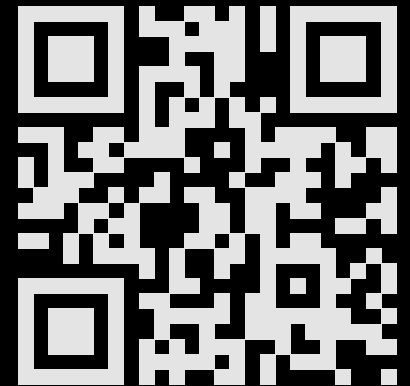
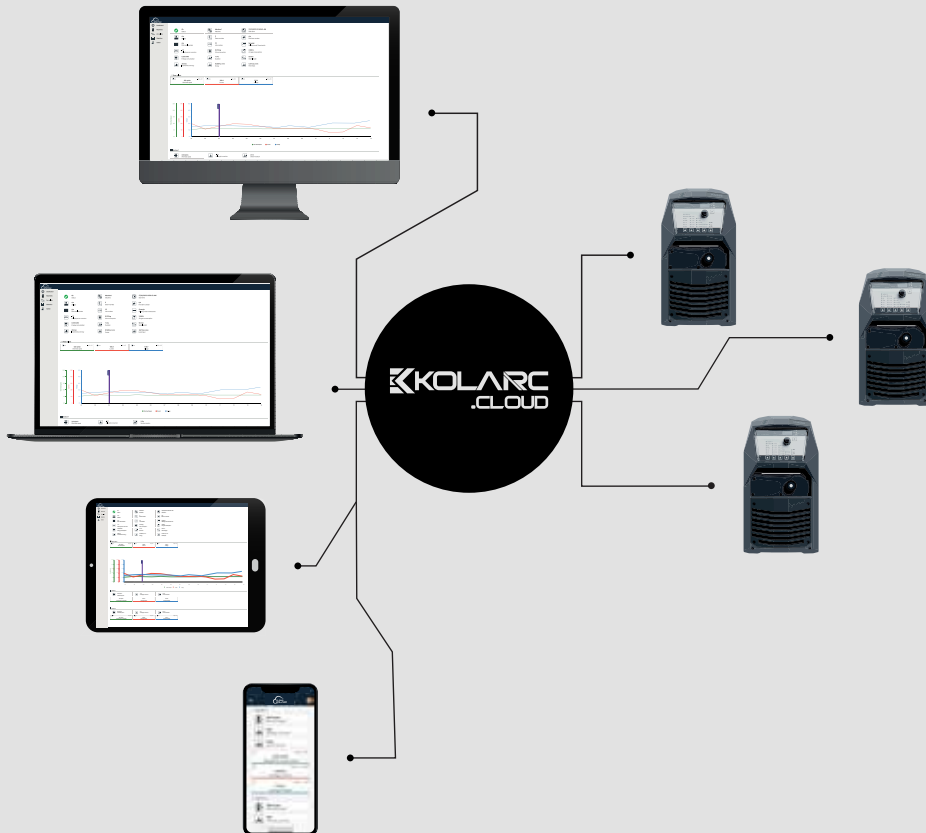
KOLARC



WiFi Bluetooth

LoRaWAN N

Ethernet
USB Type-C



www.kolarc.com