

KOLARC

BUILDING THE FUTURE



Robotic Interfaces

Ethernet

Others



DeviceNet

EtherNet/IP

CANopen



PROFIBUS

EtherCAT



XM450 W
Pulse



TECHNICAL SPECIFICATIONS

Input Voltage
Mains Voltage Tolerance
Minimum Welding Current
Maximum Welding Current
MIG Duty Cycle, 40°C
TIG Duty Cycle, 40°C
MMA Duty Cycle, 40°C
Open – Circuit Voltage
Factory Delivered Roller
Weight
Standard Accessories

Dimensions (W, L, H)
Certification

400 V
- 10 % / + 15 %
10 A
450 A
450 A %40, 430 A %60, 360 A %100
450 A %40, 430 A %60, 360 A %100
450 A %40, 430 A %60, 360 A %100
63 V - 82 V
1.0 + 1.2 mm / Steel
Liquid Cooled 100 kg
5m Power Cable (4x4mm²)
5m Earth Clamp (70mm²)
Interconnection H.P (5m)
Torch, MX50 4m
532mm x 974mm x 1178mm
CE

XM450 W



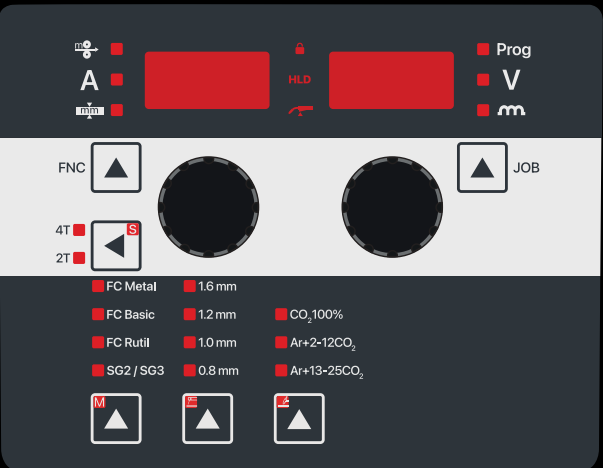
400 V
- 10 % / + 15 %
10 A
450 A
450 A %40, 430 A %60, 360 A %100
450 A %40, 430 A %60, 360 A %100
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63 V - 82 V
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5m Power Cable (4x4mm²)
5m Earth Clamp (70mm²)
Interconnection H.P (5m)
Torch, MX50 4m
532mm x 974mm x 1150mm
CE

Whether Manual Or Robotic.

Experience 406* welding programs



Pulse

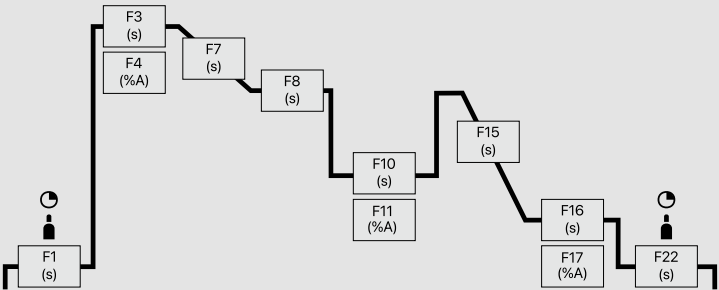


Synergic

Intuitive User Interface

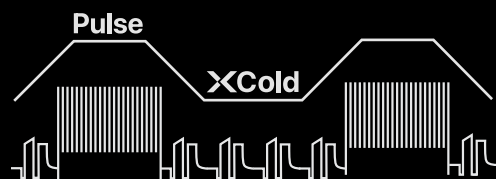
Standard-Pulse		0.8	1.0	1.2	1.6	
CrNi	SG2 / SG3 G3Si1 / G4Si1	Ar+18%CO ₂	8	10	12	16
		Ar+10%CO ₂	18	20	22	26
		CO ₂ 100%	28	30	32	36
	318 / 1.4576		38	40	42	46
	316 / 1.4430		68	70	72	76
	310 / 1.4842			520	522	
	309 / 1.4332	Ar+2.5%CO ₂	538	540	542	546
	308 / 1.4316		58	60	62	66
	307 / 1.4370		48	50	52	56
	Duplex 2209 1.4462		78	80	82	86
	Ar+20%He+2%CO ₂	88	90	92	96	
CuSi	Ar100%	178	180	182	186	
	Ar+2.5%CO ₂	558	560	562	566	
CuAl	Ar100%	188	190	192	196	
CuSi Brazing	Ar100%	198	200	202	206	
	Ar+2.5%CO ₂	208	210	212	216	
CuAl Brazing	Ar100%	218	220	222	226	
	Ar+2.5%CO ₂	228	230	232	236	
AlMg4,5 Mn	Ar100%	118	120	122	126	
	Ar+30%He	128	130	132	136	
AlMg3	Ar100%		530	532	536	
AlSi	Ar100%	138	140	142	146	
	Ar+30%He	148	150	152	156	
Al99	Ar100%	158	160	162	166	
	Ar+30%He	168	170	172	176	
Flux Cored Wire		0.8	1.0	1.2	1.6	
Steel / FluxCore Metal	Ar+18%CO ₂	238	240	242	246	
	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	
Application						
MIG/MAG Manual			4			
TIG (Lift Arc)			5			
MMA			6			
Gouging			7			

XDeep - Pulse			0.8	1.0	1.2	1.6
CrNi	SG2 / SG3 G3Si1 / G4Si1	Ar+18%CO ₂	298	300	302	306
		Ar+10%CO ₂	308	310	312	316
	318 / 1.4576			620	622	626
	316 / 1.4430			640	642	646
	310 / 1.4842			660	662	
	309 / 1.4332	Ar+2.5%CO ₂		670	672	676
	308 / 1.4316			320	322	326
	307 / 1.4370			632	636	
	Duplex 2209 1.4462			650	652	656
	AlMg4,5 Mn	Ar100%			332	336
AlSi	Ar100%			342	346	
Al99	Ar100%			352	356	
CrNi / FluxCore Metal	Ar+18%CO ₂	608	610	612	616	
XRoot - Pulse			0.8	1.0	1.2	1.6
CrNi	SG2 / SG3 G3Si1 / G4Si1	Ar+18%CO ₂		360	362	
		CO ₂ 100%		370	372	
		Ar+10%CO ₂		500	502	
	318 / 1.4576			678	680	682
	316 / 1.4430			698	700	702
	310 / 1.4842			398	400	402
	309 / 1.4332	Ar+2.5%CO ₂		688	690	692
	308 / 1.4316			708	710	712
	307 / 1.4370			410	412	
	Duplex 2209 1.4462			420	422	
AlMg4,5 Mn	Ar100%			430	432	
AlSi	Ar100%			440	442	
Al99	Ar100%			430	432	
CuSi Brazing	Ar100%	438	440	442		
CuAl Brazing	Ar100%	448	450	452		
AlSi Brazing	Ar100%		460	462		
ZnAl Brazing	Ar100%		470	472		
ZnAl (St to Al Welding)	Ar100%		490	492		
Mg / Mg	Ar+30%He			572	576	
Cladding			0.8	1.0	1.2	1.6
NiCr-6625 / 2.4831		Ar+30%He		100	102	106
		Ar+20%He+2%CO ₂		110	112	116
NiCr-6617 / 2.4627		Ar+30%He			552	556
Co - Based		Ar100%			532	536



Function	Description	Min	Max
F1	Gas pre-flow (s)	0	10
F2	Start wire speed (m/min)	1.5	11
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	1
F24	Penetration stabilizer (m/min)	0	10

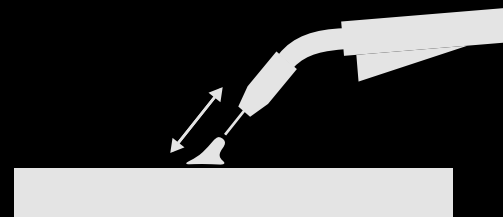
Function	Description	Min	Max
F25	Hot start time (s)	0	10
F26	Hot start current (%)	1	200
F27	Arc force (-)	-50	+50
F28	Antistick (s)	0	2
F29	VRD function (-)	0	1
F34	Tack/stitch mode (-)	0	2
F35	Cooling mode (-)	0	4
F36	Motor current (A)	0	-
F37	Motor current limit (A)	0.7	7
F38	Auto load default values (-)	0	1
F39	Motor control firmware (-)	-	-
F40	Power control firmware (-)	-	-
F41	Arc on time (h)	0	-
F42	Machine on time (h)	0	-
F45	Wire speed correction (m/min)	-2	+2
F48	Status light template	0	4
F49	Working mode	0	9
F50	RL cable calibration (mOhm)	0	30
F31	TIG V stop limit (V)	-	-
F32	TIG comfort stop sensitivity (V)	-2	+2



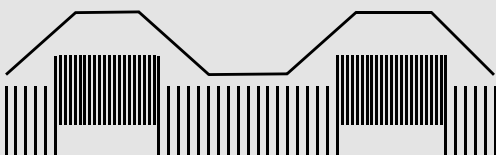
Position



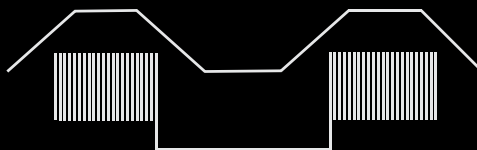
**4x4 Rollers
Wire Drive**



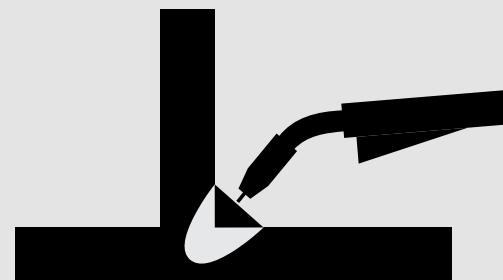
XCStabil



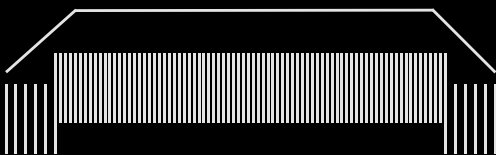
Duo Pulse



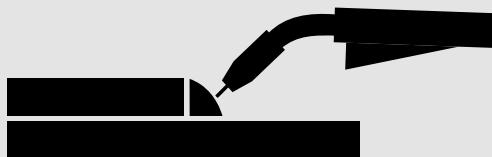
Twin



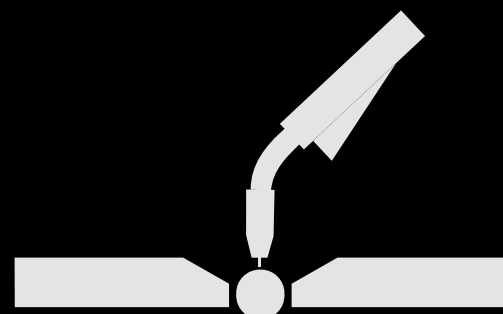
XCDeep



Pulse



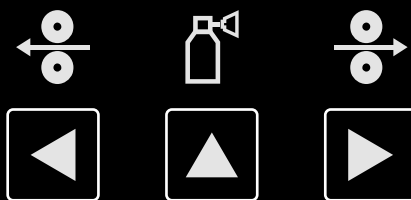
XC Cold



XCRoot



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

IP23 Design

Compact Wire Feeder

Industrial Wheels

Wire Feeder Wheels*

Ergonomic Robust Modular Design

Aluminum Gun Holder

Spatter Free Ignition

Wire Cut Function for Perfect Ignition

Wire Feeding Unit with LED Lighting

MMA Connection on Wire Feeder

Gas Saving System

Gas Filter

Coolant Liquid Filter

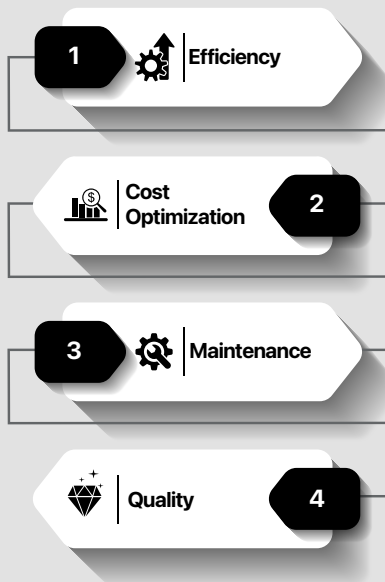
Extension Cable Holder

External Changable Couplings

Double Setscrew Plugs

Brass-Nut Sockets

*Optional

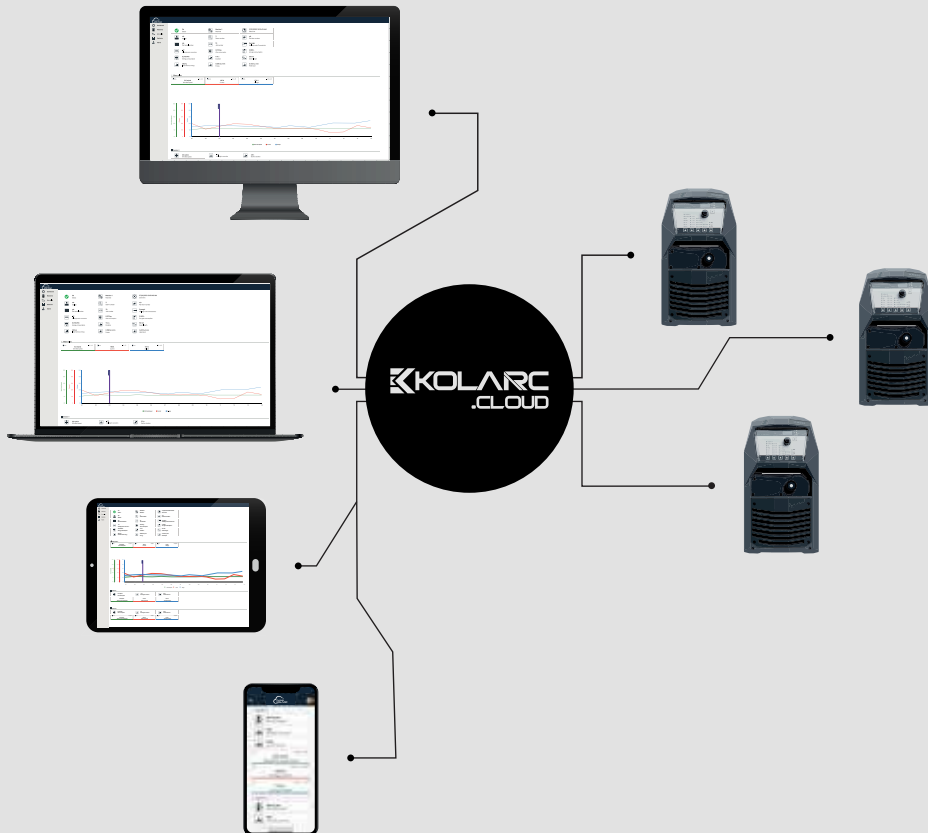


KOLARC
.CLOUD

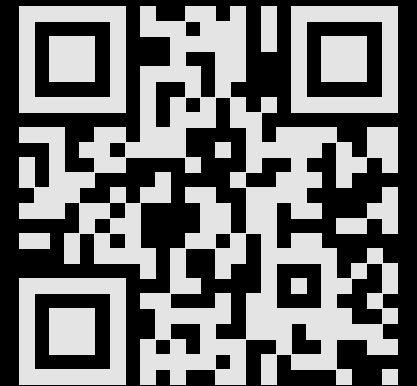
WiFi Bluetooth

LoRaWAN N

Ethernet
USB Type-C



KOLARC



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