

KOLARC

BUILDING THE FUTURE



Robotic Interfaces

Ethernet

Others



XM600 W
Pulse



XM500 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
600 A
600 A %40, 500 A %60, 400 A %100
600 A %40, 500 A %60, 400 A %100
600 A %40, 500 A %60, 400 A %100
63 V - 82 V
1.2 + 1.6 mm / Steel
Liquid Cooled 107 kg
5m Power Cable (4 x 6mm²)
5m Earth Clamp (95mm²)
Interconnection H.P (5m)
532mm x 974mm x 1270mm
CE

400 V
- 10 % / + 15 %
10 A
500 A
500 A %40, 430 A %60, 360 A %100
500 A %40, 430 A %60, 360 A %100
500 A %40, 430 A %60, 360 A %100
63 V - 82 V
1.0 + 1.2 mm / Steel
Liquid Cooled 107 kg
5m Power Cable (4 x 4mm²)
5m Earth Clamp (70mm²)
Interconnection H.P (5m)
532mm x 974mm x 1270mm
CE

XM450 W

Pulse



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 (4 x 4mm²)
5m Earth Clamp (70mm²)
Interconnection H.P (5 m)
532mm x 974mm x 1178mm
CE

XM350 W

Pulse



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
0.8 + 1.0 mm / Steel
Liquid Cooled 82 kg
5m Power Cable (4 x 2.5mm²)
5m Earth Clamp (50mm²)
Interconnection H.P (5 m)
532mm x 974mm x 1178mm
CE

XM350 CW

Pulse



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
0.8 + 1.0 mm / Steel
Liquid Cooled 88 kg
5m Power Cable (4 x 2.5mm²)
4m Earth Clamp (50mm²)
Gas Hose (1.5m)
532mm x 860mm x 974mm
CE

XM350 C

Pulse



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
0.8 + 1.0 mm / Steel
Air Cooled 42 kg
4m Power Cable (4 x 2.5mm²)
5m Earth Clamp (50mm²)
Gas Hose (1.5 m)
532mm x 624mm x 974mm
CE

XM270 C

Pulse



400 V
- 10 % / + 15 %
10 A
270 A
270 A %40, 230 A %60, 170 A %100
270 A %40, 230 A %60, 170 A %100
270 A %40, 230 A %60, 170 A %100
63 V - 82 V
0.8 + 1.0 mm / Steel
Air Cooled 21 kg
4m Power Cable (4 x 2.5 mm²)
5m Earth Clamp (35 mm²)
Gas Hose (1.5 m)
260mm x 650mm x 450mm
CE

XM220 C

Pulse



230 V
- 10 % / + 15 %
10 A
220 A
220 A %40, 180 A %60, 140 A %100
220 A %40, 180 A %60, 140 A %100
220 A %40, 180 A %60, 140 A %100
63 V - 82 V
0.8 + 1.0 mm / Steel
Air Cooled , 21 kg
4m Power Cable (4 x 2.5mm²)
5m Earth Clamp (25mm²)
Gas Hose (1.5m)
260mm x 650mm x 450 mm
CE

Whether Manual Or Robotic.
Experience 406* welding programs



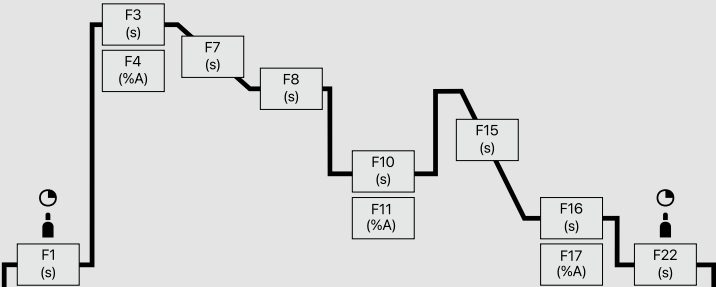
Pulse

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
		Ar+2.5%CO ₂	38	40	42	46
	318 / 1.4576	68	70	72	76	
	316 / 1.4430		520	522		
	310 / 1.4842		538	540	542	546
	309 / 1.4332		58	60	62	66
	308 / 1.4316		48	50	52	56
	307 / 1.4370		78	80	82	86
Duplex 2209 1.4462	Ar+20%He+2%CO ₂	88	90	92	96	
	Ar100%	178	180	182	186	
CuSi		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	248
		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		

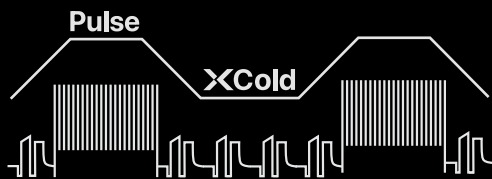
Application	
MIG/MAG Manual	4
TIG (Lift Arc)	5
MMA	6
Gouging	7

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	Ar+2.5%CO ₂	660	662	
	309 / 1.4332		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	
A99		Ar100%	352	356	
CrNi / FluxCore Metal	Ar+18%CO ₂	608	610	612	616
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		
	Ar+2.5%CO ₂	378	380	382	386
Steel / FluxCore Metal		Ar+18%CO ₂	388	390	392
CrNi	318 / 1.4576	678	680	682	
	316 / 1.4430	698	700	702	
	310 / 1.4842	398	400	402	
	309 / 1.4332	688	690	692	
	307 / 1.4370	708	710	712	
	Duplex 2209 1.4462	410	412		
AlMg4,5 Mn		Ar100%	420	422	
AlSi		Ar100%	430	432	
A99		Ar100%	438	440	442
CuSi Brazing		Ar100%	448	450	452
CuAl Brazing		Ar100%	460	462	
AlSi Brazing		Ar100%	470	472	
ZnAl Brazing		Ar100%	490	492	
ZnAl (St to Al Welding)		Ar100%	572	576	
Mg / Mg		Ar+30%He	100	102	106
Cladding		0.8	1.0	1.2	1.6
NiCr-6625 / 2.4831	Ar+30%He	110	112	116	
	Ar+20%He+2%CO ₂	552	556		
NiCr-6617 / 2.4627		Ar+2.5%CO ₂	542	546	
CrNi / 309-2312 / 1.4332	Ar100%	532	536		
Co - Based		542	546		

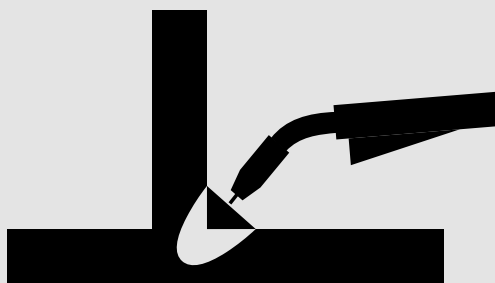


Function	Description	Min	Max
F1	Gas pre-flow (s)	0	10
F2	Start wire speed (m/min)	1	11
F3	Start time (s)	0	10
F4	Start current (%)	1	200
F5	Start arc correction(V)	-9.9	+9.9
F7	Start slope (s)	0	5
F8	Duo peak time (s)	0.05	10
F10	Duo base time (s)	0.05	10
F11	Duo base amper (%)	1	100
F12	Duo base arc correction (v)	-9.9	+9.9
F15	End down slope (s)	0.05	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 (-)	10	200
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	5

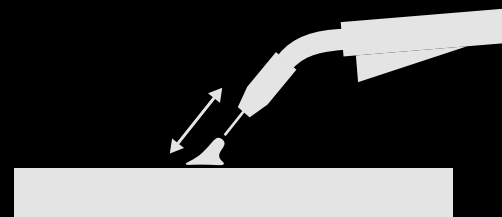
Function	Description	Min	Max
F25	Hot start time (s)	0	10
F26	Hot start current (%)	1	200
F27	Arc force (-)	-50	+50
F28	Antistick (s)	0	2
F29	VRD function (-)	0	1
F34	Tack/stitch mode (-)	0	2
F35	Cooling mode (-)	0	4
F36	Motor current (A)	0	-
F37	Motor current limit (A)	0.7	7
F38	Auto load default values (-)	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
F49	Working mode	1	8
F50	RL cable calibration (mOhm)	0	30
F31	TIG V stop limit (V)	10	30
F32	TIG comfort stop sensitivity (V)	-2	+2



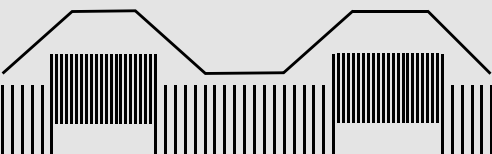
Position



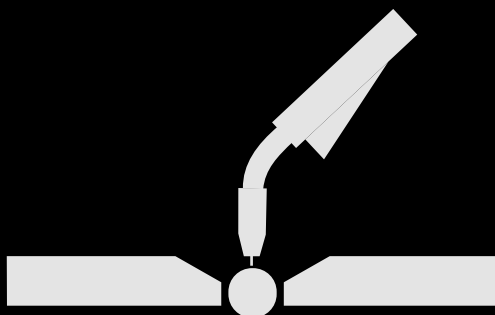
XCDeep



XCStabil



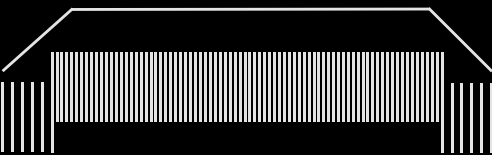
Duo Pulse



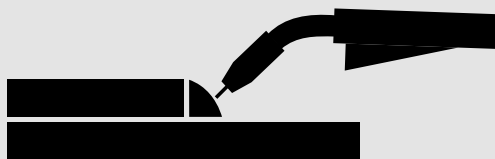
XCRoot



**4x4 Rollers
Wire Drive**



Pulse



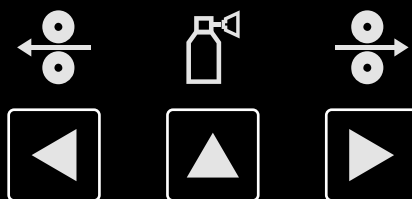
XC Cold



Torch



**25000
Times Per Second
Wire Speed Control**



**Wire Push
Pull-Back
Gas Testing**



**Spool Cover
With Wire
View**

99

**Program
Memory**



**Intelligent
Cooling**

RL

**Torch and Cable
Calibration**

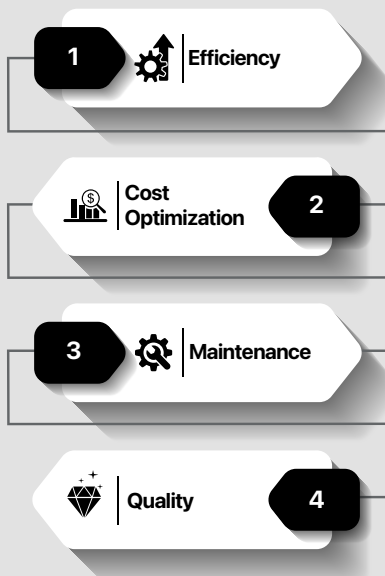


**Hose Pack
Support**



**Military
Connector**

**Ergonomic
Robust
Modular
Design**



KOLARC
.CLOUD

LoRaWAN

WiFi

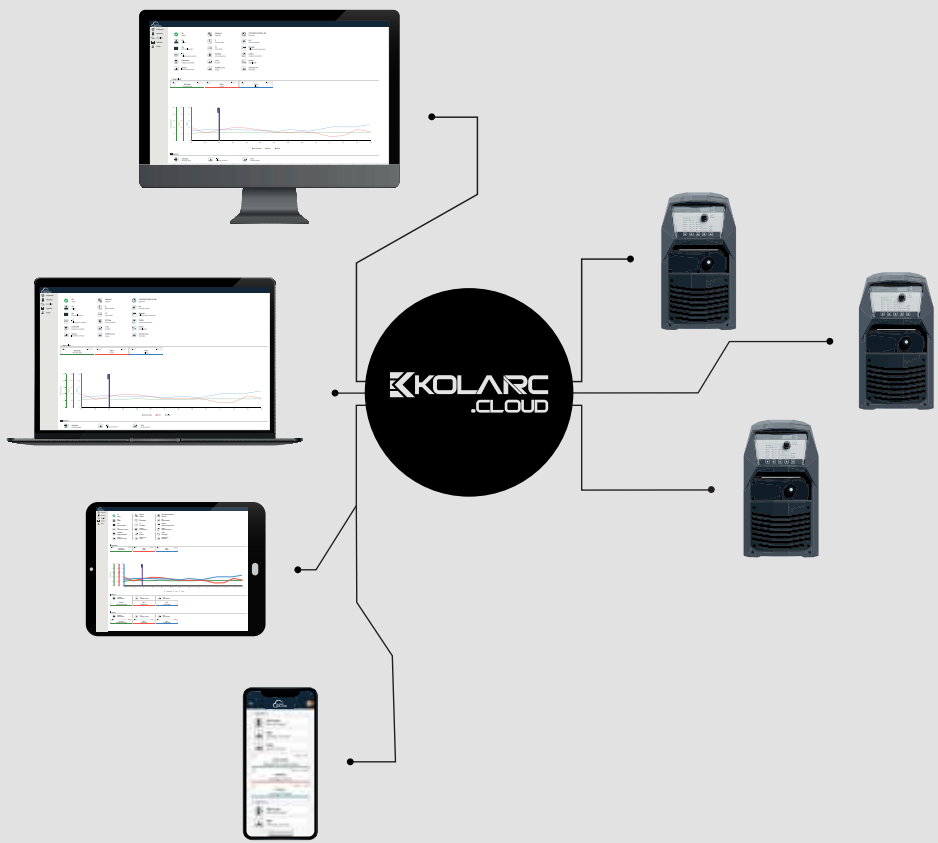
Bluetooth

N

RS 485



CAN-FD



KOLARC



www.kolarc.com