MIG-MAG SYNERGIC MULTIFUNCTION

Pioneer 403MSR - 503MSR

200mm - 300mm Spools

3 x 400Vac

Trolley R

Pioneer 403-503MSR is a professional synergic 3 Phase Inverter Power Source with separated wire feeder for **MIG-MAG short spray welding** of different materials such as standard steels, inox and aluminum.
Pioneer 403-503MSR permit also the following processes **MMA, TIG DC with Lift-Arc and GOUGING**, it is a proper multifunction system.

The MIG MAG welding is here optimized thanks to:
Power Focus, Power Root.

BASIC

: MIG/MAG SYNERGIC / TIG DC LIFT / MMA / GOUGING
CE: 2014/30/EU (EMC) - 2014/35/EU (LVD) - 2011/65/EU (RoHS2)
EN: EN 60974-1 - EN 60974-5 - EN 60974-10

Technology

HAC – HYBRID ARC CONTROL

VRD – VOLT REDUCTION DEVICE

Special Functions

Weco Data Manager

Pioneer 403MSR						
	3x400Vac ± 15% @ 50-60Hz					
	25A					
	MIG - MAG		TIG	MMA		
% 40°C	65%	100%	100%	65%	100%	
I2	400A	370A	400A	400A	370A	
I2	10A - 400A		10A - 400A	10A - 400A		
U0/Ur	62V / 10V					
P1 MAX	19,3KVA – 16,4KW					
IP	23					
	460 x 990 x 1370mm					
	KIT 403MSR 4m H_2O BASIC - 118,5Kg					

Pioneer 503MSR									
	3x400Vac ± 15% @ 50-60Hz								
	32A								
	MIG - MAG			TIG			MMA		
% 40°C	30%	60%	100%	35%	60%	100%	30%	60%	100%
I2	500A	430A	400A	500A	450A	420A	500A	430A	400A
I2	10A – 500A			10A – 500A			10A – 500A		
U0/Ur	62V / 10V								
P1 MAX	25,5KVA – 22,3KW								
IP	23								
	460 x 990 x 1370mm								
	KIT 503MSR 4m H_2O BASIC - 118,5Kg								

Configuration Pioneer 403MSR - 503MSR (WF203)

Supplied rollers: 2 x V shape drive rolls 1,0/1,2mm D=37 d=19

ITEM	CODE	
POWER SOURCE		
Pioneer 403MSR	001.0095.0000	
Pioneer 503MSR	001.0096.0000	
WIRE FEEDER		
WF203	001.0329.0000	
Wheels Kit WF	010.0000.0012	
TROLLEY BASIC/FULL OPTIONAL		
Pioneer Wheels Kit And Supports	010.0004.0063	
Pioneer Handle Kit	010.0004.0070	
Pioneer Cable Support Kit	004.0000.0213	
TROLLEY		
Trolley R	004.0000.0018	
KIT SUPPORTS for Trolley R	004.0000.0216	
Trolley L	004.0000.0011	
Kit Supports for Trolley L	004.0000.0203	
Left Torch Holder Kit	010.0000.0073	
Tool Box VP-03 (AIR Version)	004.0000.0214	
Torch holder support for WF	004.0000.0215	
COOLING UNIT		
C.U.23	003.0000.0141	
C.U.23 HP	003.0001.0141	
C.U.28	003.0000.0221	
C.U.28 HP	003.0001.0221	
Cooling Unit Filter	010.0000.0097	
CONNECTION CABLE		
Connection cable 70mm² L=2m AIR	002.0001.0291	
Connection cable 70mm² L=5m AIR	002.0001.0292	
Connection cable 70mm² L=10m AIR	002.0001.0296	
Connection cable 95mm² L=10m AIR	002.0001.0293	
Connection cable 70mm² L=2m H_2O	002.0001.0281	
Connection cable 70mm² L=5m H_2O	002.0001.0282	
Connection cableE 70mm² L=10m H_2O	002.0001.0286	
Connection cable 95mm² L=10m H_2O	002.0001.0283	
CUSTOMIZED CONNECTION CABLE LENGTHS		
Connection cable 70mm² L>10m AIR	002.0001.0031	
Connection cable 95mm² L>10m AIR	002.0001.0041	
Connection cable 70mm² L>10m H_2O	002.0001.0032	
Connection cable 95mm² L>10m H_2O	002.0001.0042	
TORCHES AND EARTH CABLE		
Kit Push Pull	010.0000.0039	
*Kit Digimanager	010.0000.0049	
*Torch MIG DIGIMANAGER 501W L= 4m H_2O	006.0008.0016	
Torch MIG MB EVO 501D L=4m H_2O	006.0008.0008	
Earth Cable 70mm² L=4m	006.0002.0017	
Torch TIG 26 L=4m AIR EURO	006.0005.0011	
Electrode Holder 70mm² L=4m	006.0002.0025	
REMOTE CONTROLS		
*RC08 Digimanager	006.0003.0124	
Cable RC08 L=5m	022.0002.0280	
Cable RC08 L=10m	022.0002.0281	
Cable RC08 L=15m	022.0002.0282	
RC04 Remote Control 2 potentiometers	006.0003.0131	
RC06 Remote Control 2 up/down	006.0003.0133	
Cable RC03/04/05/06 L=5m	022.0002.0172	
Cable RC03/04/05/06 L=10m	022.0002.0173	
Cable RC03/04/05/06 L=15m	022.0002.0174	
ACCESSORIES		
Gas regulator Flowmeter	006.0002.0005	

CONFIGURAZIONI	CODE	
KIT 403MSR 5m AIR VP BASIC	**006.0011.0365**	
Pioneer 403MSR + WF203 + Wheels Kit WF + Pioneer Wheels Kit And Supports + Tool Box VP-03 + Connection cable 70mm² L=5m AIR		
KIT 503MSR 5m AIR VP BASIC	**006.0011.0416**	
Pioneer 503MSR + WF203 + Wheels Kit WF + Pioneer Wheels Kit And Supports + Tool Box VP-03 + Connection cable 70mm² L=5m AIR		
KIT 403MSR 5m H2O BASIC	**006.0011.0326**	
Pioneer 403MSR + WF203 + Wheels Kit WF + Pioneer Wheels Kit And Supports + C.U.23 + Connection cable 70mm² L=5m H_2O		
KIT 503MSR 5m H2O BASIC	**006.0011.0322**	
Pioneer 503MSR + WF203 + Wheels Kit WF + Pioneer Wheels Kit And Supports + C.U.23 + Connection cable 70mm² L=5m H_2O		
KIT 403MSR 5m AIR VP FULL OPTIONAL	**006.0011.0417**	
Pioneer 403MSR + WF203 + Wheels Kit WF + Pioneer Wheels Kit And Supports + Pioneer Handle Kit + Pioneer Cable Support Kit + Tool Box VP-03 + PROLUNGA 70mm² L=4mt AIR		
KIT 503MSR 5m AIR VP FULL OPTIONAL	**006.0011.0418**	
Pioneer 503MSR + WF203 + Wheels Kit WF + Pioneer Wheels Kit And Supports + Pioneer Handle Kit + Pioneer Cable Support Kit + Tool Box VP-03 + PROLUNGA 70mm² L=4mt AIR		
KIT 403MSR 5m H2O FULL OPTIONAL	**006.0011.0346**	
Pioneer 403MSR + WF203 + Wheels Kit WF + Pioneer Wheels Kit And Supports + Pioneer Handle Kit + Pioneer Cable Support Kit + C.U23 + Connection cable 70mm² L=5m H_2O		
KIT 503MSR 5m H2O FULL OPTIONAL	**006.0011.0347**	
Pioneer 503MSR + WF203 + Wheels Kit WF + Pioneer Wheels Kit And Supports + Pioneer Handle Kit + Pioneer Cable Support Kit + C.U23 + Connection cable 70mm² L=5m H_2O		
KIT 403MSR 5m AIR VP TROLLEY R	**006.0011.0419**	
Pioneer 403MSR + WF203 + Wheels Kit WF + TROLLEY R + KIT SUPPORTS for Trolley R + Tool Box VP-03 + Connection cable 70mm² L=5m AIR		
KIT 503MSR 5m AIR VP TROLLEY R	**006.0011.0420**	
Pioneer 503MSR + WF203 + Wheels Kit WF + TROLLEY R + KIT SUPPORTS for Trolley R + Tool Box VP-03 + Connection cable 70mm² L=5m AIR		
KIT 403MSR 5m AIR TROLLEY R	**006.0011.0451**	
Pioneer 403MSR + WF203 + Wheels Kit WF + TROLLEY R + KIT SUPPORTS for Trolley R + Connection cable 70mm² L=5m AIR		
KIT 503MSR 5m AIR TROLLEY R	**006.0011.0452**	
Pioneer 503MSR + WF203 + Wheels Kit WF + TROLLEY R + KIT SUPPORTS for Trolley R + Connection cable 70mm² L=5m AIR		
KIT 403MSR 5m H_2O TROLLEY R	**006.0011.0421**	
Pioneer 403MSR + WF203 + Wheels Kit WF + TROLLEY R + KIT SUPPORTS for Trolley R + C.U.23 + Connection cable 70mm² L=5m H_2O		
KIT 503MSR 5m H_2O TROLLEY R	**006.0011.0422**	
Pioneer 503MSR + WF203 + Wheels Kit WF + TROLLEY R + KIT SUPPORTS for Trolley R + C.U.23 + Connection cable 70mm² L=5m H_2O		
KIT 403MSR 5m AIR VP TROLLEY L	**006.0011.0423**	
Pioneer 403MSR + WF203 + Wheels Kit WF + TROLLEY L + Kit Supports for Trolley L + Tool Box VP-03 + Connection cable 70mm² L=5m AIR		
KIT 503MSR 5m AIR VP TROLLEY L	**006.0011.0424**	
Pioneer 503MSR + WF203 + Wheels Kit WF + TROLLEY L + Kit Supports for Trolley L + Tool Box VP-03 + Connection cable 70mm² L=5m AIR		
KIT 403MSR 5m H2O TROLLEY L	**006.0011.0348**	
Pioneer 403MSR + WF203 + Wheels Kit WF + TROLLEY L + Kit Supports for Trolley L + C.U.23 + Connection cable 70mm² L=5m H_2O		
KIT 503MSR 5m H2O TROLLEY L	**006.0011.0349**	
Pioneer 503MSR + WF203 + Wheels Kit WF + TROLLEY L + Kit Supports for Trolley L + C.U.23 + Connection cable 70mm² L=5m H_2O		

Pioneer 403MKS

200mm - 300mm Spools
Supplied rollers: 2 x V shape drive rolls 1,0/1,2mm D=37 d=19

3 x 400Vac

Trolley R **Basic**

Pioneer 403MKS is a compact professional synergic 3 Phase Inverter Power Source for **MIG-MAG short and spray arc** for welding of different materials such as standard steels, inox and aluminum.
Pioneer 403MKS permit also the following processes **MMA, TIG DC with Lift-Arc and GOUGING**, it is a proper multifunction system.

The MIG MAG welding is here optimized thanks to:
Power Focus, Power Root.

Weco Data Manager

Technology

HAC HYBRID ARC CONTROL

VRD VOLT REDUCTION DEVICE

Special Functions

**: MIG/MAG SYNERGIC / TIG DC LIFT / MMA / GOUGING									
CE: 2014/30/EU (EMC) - 2014/35/EU (LVD) - 2011/65/EU (RoHS2)									
EN: EN 60974-1 - EN 60974-5 - EN 60974-10									

Pioneer 403MKS									
	3x400Vac ± 15% @ 50-60Hz								
	25A								
	MIG - MAG			TIG			MMA		
% 40°C	40%	60%	100%	40%	60%	100%	40%	60%	100%
I_2	400A	350A	320A	400A	350A	320A	400A	350A	320A
I_2	10A - 400A			10A - 400A			10A - 400A		
U_0/U_r	66V / 10V								
$P_{1\,MAX}$	18,9kVA - 16,2kW								
IP	23								
	460 x 990 x 940mm (basic)								
	KIT 403MKS H_2O BASIC - 90,4Kg								

ITEM	CODE	
POWER SOURCE		
Pioneer 403MKS	001.0184.0000	
TROLLEY BASIC/FULL OPTIONAL		
Pioneer 403 MKS Wheels Kit	010.0004.0062	
Pioneer Handle Kit	010.0004.0070	
Pioneer Cable Support Kit	004.0000.0213	
TROLLEY		
Trolley R	004.0000.0018	
Tool Box VP-03 (AIR Version)	004.0000.0214	
Fixing Bracket 403 MKS to Trolley R	011.0015.0310	
COOLING UNIT		
C.U.23	003.0000.0141	
C.U.23 HP	003.0001.0141	
C.U.28	003.0000.0221	
C.U.28 HP	003.0001.0221	
Cooling Unit Filter	010.0000.0097	
TORCHES AND EARTH CABLE		
Kit Push Pull	010.0000.0039	
*Kit Digimanager	010.0000.0049	
*Torch MIG DIGIMANAGER 501W L= 4m H_2O	006.0008.0016	
Torch MIG MB EVO 501D L=4m H_2O	006.0008.0008	
Earth Cable 70mm² L=4m	006.0002.0017	
Torch TIG 26 L=4m AIR EURO	006.0005.0011	
Electrode Holder 70mm² L=4m	006.0002.0025	
REMOTE CONTROLS		
*RC08 Digimanager	006.0003.0124	
Cable RC08 L=5m	022.0002.0280	
Cable RC08 L=10m	022.0002.0281	
Cable RC08 L=15m	022.0002.0282	
RC04 Remote Control 2 potentiometers	006.0003.0131	
RC06 Remote Control 2 up/down	006.0003.0133	
Cable RC03/04/05/06 L=5m	022.0002.0172	
Cable RC03/04/05/06 L=10m	022.0002.0173	
Cable RC03/04/05/06 L=15m	022.0002.0174	
ACCESSORIES		
Left Torch Holder	011.0015.0029	
Gas regulator Flowmeter	006.0002.0005	
CONFIGURATION	**CODE**	
KIT 403MKS AIR VP BASIC	**006.0011.0425**	
Pioneer 403MKS + Pioneer 403 MKS Wheels Kit + Tool Box VP-03		
KIT 403MKS H_2O BASIC	**006.0011.0413**	
Pioneer 403MKS + Pioneer 403 MKS Wheels Kit + C.U.23		
KIT 403MKS AIR VP TROLLEY R	**006.0011.0426**	
Pioneer 403MKS + TROLLEY R + Tool Box VP-03		
KIT 403MKS H_2O TROLLEY R	**006.0011.0427**	
Pioneer 403MKS + TROLLEY R + C.U.23		
KIT 403 MKS AIR TROLLEY R	**006.0011.0447**	
Pioneer 403MKS + TROLLEY R + Fixing Bracket 403 MKS to Trolley R		

MicroMag 302MFK

200mm - 300mm Spools
Supplied rollers: 2 x V shape drive rolls 1,0/1,2mm D=30 d=14

3 x 400Vac

MicroMAG 302MFK is a compact, synergic, 3 Phase and robust designed Inverter for **MIG-MAG Short-Spray Arc , MMA and Lift TIG** Arc welding. Easy to transport, **only 22kg** , it is the best option for maintenance and repair on field, shipyard and off-shore operations.

: MIG/MAG SYNERGIC / TIG DC LIFT / MMA
CE: 2014/30/EU (EMC) - 2014/35/EU (LVD) - 2011/65/EU (RoHS2)
EN: EN 60974-1 - EN 60974-5 - EN 60974-10

Technology

W.ECO TECHNOLOGY INSIDE

HAC HYBRID ARC CONTROL

MicroMag 302MFK									
	3x400Vac ± 15% @ 50-60Hz								
	16A								
	MIG - MAG			TIG			MMA		
%40°C	35%	60%	100%	50%	60%	100%	40%	60%	100%
I_2	300A	230A	200A	250A	240A	210A	250A	220A	190A
I_2	10A - 300A			5A - 250A			10A - 250A		
U_o/U_r	60V / 11V								
P_{1MAX}	10,3KVA -9,7KW								
IP	23S								
	560 x 280 x 390mm								
	23,4 Kg								

ITEM	CODE	
POWER SOURCE		
MicroMag 302MFK	001.0069.0000	
TROLLEY		
Trolley 03	006.0002.0042	
Sliding Kit 5 MicroMAG 302	010.0000.0045	
Trolley Q	004.0000.0015	
Plate support Trolley Q - H_2O	011.0015.0268	
Tool Box VP-02 (AIR Version)	004.0000.0211	
COOLING UNIT		
C.U.11	003.0000.0131	
C.U.11 HP	003.0001.0131	
Cooling Unit Filter	010.0000.0097	
TORCHES AND EARTH CABLE		
Kit Push Pull	010.0000.0063	
Torch MIG 36 L= 4m AIR EURO	006.0008.0004	
Torch MIG 240 L= 4m H_2O EURO	006.0008.0007	
Earth Cable 35mm² L=4m	006.0002.0003	
Torch TIG 26 L= 4m AIR EURO	006.0005.0011	
Electrode Holder 35mm² L=4m	006.0002.0028	
REMOTE CONTROLS		
RC04 Remote Control 2 potentiometers	006.0003.0131	
RC06 Remote Control 2 up/down	006.0003.0133	
Cable RC03/04/05/06 L=5m	022.0002.0172	
Cable RC03/04/05/06 L=10m	022.0002.0173	
Cable RC03/04/05/06 L=15m	022.0002.0174	
ACCESSORIES		
Gas regulator Flowmeter	006.0002.0005	
CONFIGURATION	**CODE**	
KIT MicroMag 302MFK H_2O Trolley 03	**006.0011.0148**	
MicroMag 302MFK + C.U.11 + Trolley 03		
KIT MicroMag 302MFK H_2O Trolley Q	**006.0011.0411**	
MicroMag 302MFK + C.U.11 + Trolley Q + Plate support Trolley Q - H_2O		
KIT MicroMag 302MFK AIR Trolley Q	**006.0011.0412**	
MicroMag 302MFK + Trolley Q + Tool Box VP-02		

WPQR

WPQR APPROVED WECO EN 1090

MicroMAG 301 Plus

200mm Spools
Supplied rollers: 2 x V shape drive rolls 1,0/1,2mm D=30 d=14

3 x 400Vac

MicroMAG 301 PLUS is a compact, 3 Phase and robust designed Inverter for **MIG-MAG Short-Spray Arc, MMA and Lift TIG** Arc welding.
Easy to transport, **only 24kg (including a spool of 5kg 200mm diameter)**, it is the best option for maintenance and repair on field, shipyard and off-shore operations.

: MIG/MAG MANUAL / TIG DC LIFT / MMA
CE: 2014/30/EU (EMC) - 2014/35/EU (LVD) - 2011/65/EU (RoHS2)
EN: EN 60974-1 - EN 60974-5 - EN 60974-10

Technology

W.ECO TECHNOLOGY INSIDE

HAC HYBRID ARC CONTROL

MicroMAG 301 Plus									
	3x400Vac ± 15% @ 50-60Hz								
	16A								
	MIG - MAG			TIG			MMA		
%40°C	35%	60%	100%	50%	60%	100%	40%	60%	100%
I2	300A	230A	200A	250A	240A	210A	250A	220A	190A
I2	10A - 300A			5A - 250A			10A - 250A		
U0/U2	53V / 11V								
P1MAX	10,3kVA - 9,7KW								
IP	23S								
	410 x 270 x 355mm								
	19,7 Kg								

ITEM	CODE	
POWER SOURCE		
MicroMAG 301 Plus	001.0065.0000	
TROLLEY		
SLIDING KIT 2 MicroMAG 301	010.0000.0017	
SLIDING KIT 3 MicroMAG 301 (DOUBLE)	010.0000.0018	
Trolley 02	006.0002.0014	
Trolley H	004.0000.0008	
TORCHES AND EARTH CABLE		
Torch MIG 36 L= 4m AIR EURO	006.0008.0004	
Torch TIG 26 L= 4m AIR EURO	006.0005.0011	
Electrode Holder 35mm² L=4m	006.0002.0028	
Earth Cable 35mm² L=4m	006.0002.0003	
ACCESSORIES		
Gas regulator Flowmeter	006.0002.0005	
ROLL 0.6/0.8 D=30 d=14 V	002.0000.0119	
ROLL 0.8/1.0 D=30 d=14 V	002.0000.0120	
ROLL 1.0/1.2 D=30 d=14 V	002.0000.0121	
ROLL 0.8/1.0 D=30 d=14 U	002.0000.0122	
ROLL 1.0/1.2 D=30 d=14 U	002.0000.0123	
ROLL 1.0/1.2 D=30 d=14 VK	002.0000.0124	

Discovery 161MF TP

200mm Spools
Supplied rollers: 1 x V shape drive rolls 0,6/0,8mm D=40 d=22

1 x 230Vac

Discovery 161MF TP is a compact and portable Single Phase Inverter Power Source for professional **MIG-MAG SHORT ARC, TIG and MMA** welding.
Easy to transport, **only 17,6kg (including a spool of 5kg 200mm diameter)**, it is specifically designed for maintenance, repair on field, light fabrication, auto body repair and DIY.
The **Total Protection** device inside the **Discovery 161MF TP,** protects the components from power surges, making it usable with lines and motor generators unstabilized.

: MIG/MAG MANUAL / TIG DC LIFT / MMA
CE: 2014/30/EU (EMC) - 2014/35/EU (LVD) - 2011/65/EU (RoHS2)
EN: EN 60974-1 - EN 60974-5 - EN 60974-10

Technology

POWER INVERTER INSIDE

HAC HYBRID ARC CONTROL

TOTAL PROTECTION

Discovery 161MF TP										
	1x230Vac ± 15% @ 50-60Hz									
	16A									
	MIG - MAG			TIG			MMA			
%40°C	30%	60%	100%	40%	60%	100%	35%	60%	100%	
I2	160A	120A	100A	140A	130A	110A	140A	120A	100A	
I2	10A - 160A			5A - 140A			5A - 140A			
U0/Ur	91V / 10V									
P1 MAX	5,5kVA									
IP	23S									
	460 x 230 x 325mm									
	14 Kg									

ITEM	CODE	
POWER SOURCE		
Discovery 161MF TP (Total Protection)	001.0053.0000	
TROLLEY		
Trolley 02	006.0002.0014	
TORCHES AND EARTH CABLE		
Torch MIG 15 L= 3m AIR EURO	006.0008.0014	
Torch TIG 17 L= 4m AIR EURO	006.0005.0005	
Electrode Holder 16mm² L= 4m	006.0002.0026	
Earth Cable 16mm² L=3m	006.0002.0010	
ACCESSORIES		
Overcut Box (Generator Protection)	006.0002.0040	
Gas regulator Flowmeter	006.0002.0005	
ROLL 0.6/0.8 D=40 d=22 V	002.0000.0106	
ROLL 0.8/1.0 D=40 d=22 V	002.0000.0109	
ROLL 1.0/1.2 D=40 d=22 V	002.0000.0107	
ROLL 0.8/1.0 D=40 d=22 U	002.0000.0111	
ROLL 1.0/1.2 D=40 d=22 U	002.0000.0112	
ROLL 1.0/1.2 D=40 d=22 VK	002.0000.0114	