



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
Special Functions

Pioneer 403MSR					
	3x400Vac ± 15% @ 50-60Hz				
	25A				
	MIG - MAG		TIG	MMA	
% _{40°C}	65%	100%	100%	65%	100%
-I ₂	400A	370A	400A	400A	370A
I ₂	10A - 400A		10A - 400A	10A - 400A	
U ₀ /U _f	62V / 10V				
P _{max}	19,3KVA – 16,4KW				
IP	23				
	460 x 990 x 1370mm				
	KIT 403MSR 4m H ₂ O 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%
-I ₂	500A	430A	400A	500A	450A	420A	500A	430A	400A
I ₂	10A – 500A			10A – 500A			10A – 500A		
U ₀ /U _f	62V / 10V								
P _{max}	25,5KVA – 22,3KW								
IP	23								
	460 x 990 x 1370mm								
	KIT 503MSR 4m H ₂ O 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 70mm ² L=2m AIR	002.0001.0291
Connection cable 70mm ² L=4m AIR	002.0001.0292
Connection cable 70mm ² L=10m AIR	002.0001.0296
Connection cable 95mm ² L=10m AIR	002.0001.0293
Connection cable 70mm ² L=2m H ₂ O	002.0001.0281
Connection cable 70mm² L=4m H₂O	002.0001.0282
Connection cableE 70mm ² L=10m H ₂ O	002.0001.0286
Connection cable 95mm ² L=10m H ₂ O	002.0001.0283
CUSTOMIZED CONNECTION CABLE LENGTHS	
Connection cable 70mm ² L>10m AIR	002.0001.0031
Connection cable 95mm ² L>10m AIR	002.0001.0041
Connection cable 70mm ² L>10m H ₂ O	002.0001.0032
Connection cable 95mm ² L>10m H ₂ O	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 ₂ O	006.0008.0016
Torch MIG MB EVO 501D L=4m H ₂ O	006.0008.0008
Earth Cable 70mm ² L=4m	006.0002.0017
Torch TIG 26 L=4m AIR EURO	006.0005.0011
Electrode Holder 70mm ² 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 4m AIR VP BASIC	006.0011.0365
Pioneer 403MSR + WF203 + Wheels Kit WF + Pioneer Wheels Kit And Supports + Tool BOX VP-03 + Connection cable 70mm ² L=4m AIR	
KIT 503MSR 4m AIR VP BASIC	006.0011.0416
Pioneer 503MSR + WF203 + Wheels Kit WF + Pioneer Wheels Kit And Supports + Tool BOX VP-03 + Connection cable 70mm ² L=4m AIR	
KIT 403MSR 4m H2O BASIC	006.0011.0326
Pioneer 403MSR + WF203 + Wheels Kit WF + Pioneer Wheels Kit And Supports + C.U.23 + Connection cable 70mm ² L=4m H ₂ O	
KIT 503MSR 4m H2O BASIC	006.0011.0322
Pioneer 503MSR + WF203 + Wheels Kit WF + Pioneer Wheels Kit And Supports + C.U.23 + Connection cable 70mm ² L=4m H ₂ O	
KIT 403MSR 4m 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 70mm ² L=4m AIR	
KIT 503MSR 4m 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 70mm ² L=4m AIR	
KIT 403MSR 4m 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.U.23 + Connection cable 70mm ² L=4m H ₂ O	
KIT 503MSR 4m 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.U.23 + Connection cable 70mm ² L=4m H ₂ O	
KIT 403MSR 4m 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 70mm ² L=4m AIR	
KIT 503MSR 4m 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 70mm ² L=4m AIR	
KIT 403MSR 4m AIR TROLLEY R	006.0011.0451
Pioneer 403MSR + WF203 + Wheels Kit WF + TROLLEY R + KIT SUPPORTS for Trolley R + Connection cable 70mm ² L=4m AIR	
KIT 503MSR 4m AIR TROLLEY R	006.0011.0452
Pioneer 503MSR + WF203 + Wheels Kit WF + TROLLEY R + KIT SUPPORTS for Trolley R + Connection cable 70mm ² L=4m AIR	
KIT 403MSR 4m H₂O TROLLEY R	006.0011.0421
Pioneer 403MSR + WF203 + Wheels Kit WF + TROLLEY R + KIT SUPPORTS for Trolley R + C.U.23 + Connection cable 70mm ² L=4m H ₂ O	
KIT 503MSR 4m H₂O TROLLEY R	006.0011.0422
Pioneer 503MSR + WF203 + Wheels Kit WF + TROLLEY R + KIT SUPPORTS for Trolley R + C.U.23 + Connection cable 70mm ² L=4m H ₂ O	
KIT 403MSR 4m 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 70mm ² L=4m AIR	
KIT 503MSR 4m 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 70mm ² L=4m AIR	
KIT 403MSR 4m H2O TROLLEY L	006.0011.0348
Pioneer 403MSR + WF203 + Wheels Kit WF + TROLLEY L + KIT SUPPORTS for Trolley L + C.U.23 + Connection cable 70mm ² L=4m H ₂ O	
KIT 503MSR 4m H2O TROLLEY L	006.0011.0349
Pioneer 503MSR + WF203 + Wheels Kit WF + TROLLEY L + KIT SUPPORTS for Trolley L + C.U.23 + Connection cable 70mm ² L=4m H ₂ O	



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.

: 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



Special Functions



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 ₁	66V / 10V								
P _{max}	18,9kVA - 16,2kW								
IP	23								
	460 x 990 x 940mm (basic)								
	KIT 403MKS H ₂ O 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 ₂ O	006.0008.0016
Torch MIG MB EVO 501D L=4m H ₂ O	006.0008.0008
Earth Cable 70mm ² L=4m	006.0002.0017
Torch TIG 26 L=4m AIR EURO	006.0005.0011
Electrode Holder 70mm ² 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 H₂O 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 H₂O 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

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 ₂ O	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 ₂ O EURO	006.0008.0007
Earth Cable 35mm ² L=4m	006.0002.0003
Torch TIG 26 L= 4m AIR EURO	006.0005.0011
Electrode Holder 35mm ² 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

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_0/U_1	60V / 11V								
P_{max}	10,3KVA -9,7KW								
IP	23S								
	560 x 280 x 390mm								
	23,4 Kg								

CONFIGURATION	CODE
KIT MicroMag 302MFK H₂O Trolley 03	006.0011.0148
MicroMag 302MFK + C.U.11 + Trolley 03	
KIT MicroMag 302MFK H₂O Trolley Q	006.0011.0411
MicroMag 302MFK + C.U.11 + Trolley Q + Plate support Trolley Q - H ₂ O	
KIT MicroMag 302MFK AIR Trolley Q	006.0011.0412
MicroMag 302MFK + Trolley Q + Tool BOX VP-02	



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

MicroMAG 301 Plus									
	3x400Vac ± 15% @ 50-60Hz								
	16A								
	MIG - MAG			TIG			MMA		
% _{40°C}	35%	60%	100%	50%	60%	100%	40%	60%	100%
$\cdot I_2$	300A	230A	200A	250A	240A	210A	250A	220A	190A
I_2	10A - 300A			5A - 250A			10A - 250A		
U_o/U_i	53V / 11V								
R_{max}	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 35mm ² L=4m	006.0002.0028
Earth Cable 35mm ² 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

Discovery 161MF TP									
	1x230Vac ± 15% @ 50-60Hz								
	16A								
	MIG - MAG			TIG			MMA		
% _{0.40°C}	30%	60%	100%	40%	60%	100%	35%	60%	100%
$\cdot I_2$	160A	120A	100A	140A	130A	110A	140A	120A	100A
I_2	10A - 160A			5A - 140A			5A - 140A		
U_o/U_i	91V / 10V								
P_{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 16mm ² L= 4m	006.0002.0026
Earth Cable 16mm ² 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