

Pioneer 321 MRS



Pioneer 321 MSR is a synergic 3 Phase Inverter with separated wire-feeder.

A wide range of MIG-MAG synergic programs facilitate the selection of precise welding parameters using any welding wires.

WF 107 is a portable 4-roll drive wire feeder designed to withstand severe environmental conditions, it is ideal for any applications of medium to heavy size carpentry, constructions and automotive. Friendly-user interface allows precise parameters setting using only one knob.

All MIG-MAG controls are on the wire feeder: Wire Speed, Welding Voltage, Inductance, Motor Slope, Soft Start, Burn Back, Post Gas, Wire Feeding, Test Gas, 2T/ 4T/ 3T Special trigger torch control, Intermittent and Spot welding selection.

3T Special allows both Hot Start and Crater Filler current setting, for optimal penetration at start and crater filling at bead's end.

Spot and Intermittent welding mode give excellent welding spots. Microprocessor, inverter technology, digital displays, synergic curves and memory locations for customized welding parameters assure complete welding process repeatability.

WECO unique HAC (Hybrid Arc Control) supplies a soft and very stable MIGMAG welding arc with excellent weld bead quality and minimal spattering in any working conditions.

Equipped with big wheels and gas bottle holder
Cooling Unit available

Fan on demand and Built-in Wind Tunnel protects electronic devices from dust and saltiness and improves reliability

Up to 50m cable bundle can be used with no performances reduction

Push-Pull Gun applicable for better MIG aluminum welding

Construction technology: Inverter

Mains supply: Three phases

Type: MIG - MAG

MKS: Applications

- Featuring a separate wire feeder and very long cable bundle, MSR is the best option on the market in workshops of any dimensions. Suitable for light and medium sized carpentries, quick repairs, heavy constructions as well as shipyard and automotive based engineering... basically in any application where you need to weld with a separated wire feeder.
- Thanks to its light weight (93kg plus accessories), MSR is very easy to manage.

WF-107: Wire Feeder, Spool Compartment

- Solid metallic 4 rolls motor drive-system and optical encoder give the better wire feeding with any type of wire.
- Wire diameter from 0,6 to 1,2mm.
- Wire speed from 1,5 to 22 meters per minute.
- Inner wire-spool compartment to lodge 15kg wire spools, up to 300mm diameter.

WF-107: Cables Bundle, Wheels

- Thanks to the inverter technology and software you can use cable bundles up to 50 meters without affecting the welding performance.
- Large sized wheels allow you to operate on difficult working surfaces.
- Pivot on top of the machine for transport, stocking and table welding.

WF-107: Front Pannel

- All settings can be found on the WF-107 front panel.
- Welding system is completely controlled directly on the working site.
- Power source must be switched on before starting to work only.

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Solid Construction, Light Weight

- Metal body for power source and wire feeder.
- Handles and prominent plastic edges to protect knobs and welding outlets.
- Thanks to its light weight it can be moved anywhere rather easily.



Cooling Unit C.U.07 (optional)

- C.U.07 is robust, powerful and can be easily connected to the power source.
- It's placed in the back of the power source in order to minimize space, volume and to improve movement.



Remote Controls

- Connector with insulated pins for remote control of welding parameters.
- Torches with potentiometers and up/down switches can be used as well.



Working Conditions, Maintenance

- Pioneer can be used in any adverse working condition thanks to an accurate and advanced manufacturing, powerful motors and reliable components, high duty factor at 40°C, ventilation tunnel to protect its internal parts from dust, well dimensioned air inlet louvers.
- IP23S enclosure protection degree certifies both indoor and outdoor use.
- Easily accessible for regular maintenance.



Power Inverter Inside

- Higher efficiency and better welding quality than conventional power sources.
- Overall weight reduction for easier transportation and movement.
- Weco Inverter supplies a better quality welding arc, with no spattering, repeatable in time and unaffected by main voltage fluctuation.
- Reworking time and money saving.
- Real lower overall electric consumption.



W.eco Technology Inside

- This symbol highlights Weco's constant care for ecological issues and new technologies which have been introduced to reduce the environmental impact.
- Pioneer 321MKS/MSR introduce new technological solutions in order to reduce the harmonic current emissions according to the future International Standards, to increase even more the power inverter efficiency and to reduce the input current more than 20%.
- The same welding deposit is achieved with less electrical power, less total power and less CO₂ emission for the safety of Planet Earth.



HAC (Hybrid Arc Control) Flawless Welding Arc

- Soft and very stable welding arc.
- Low heat input both in Short and Spray Arc.
- Small Globular arc range. Welding is always perfect.
- Low spattering even with a high level of CO₂ mixed gas
- Quality of weld beams is just like the one you have in pulsed welding.
- Inductance and start/finish parameters are optimized in the synergic setting.
- Recommended for special applications like welding on Laser cut sheets without reworking, fillet welds on thin sheets with small deformations, and low residual stress. Accurate when you need to weld plates with relevant gaps...

Digital Inductance

- Allows you to optimize arc dynamic in any welding condition.
- Step-less regulation.
- Precise and complete syner-gic settings.

Digital Intelligence Inside

- Power source functions self-check in real time.
- Synergic programs for many applications available.
- Customized welding parameters.
- Hardware protection with key of welding settings.
- Welding operations can be replicated in time.
- A top quality instrument in certified welding procedures.

Pioneer 321 MKS/MSR		Technical data		
		3x400Vac ± 15% @ 50-60Hz		
		25A		
		MIG/MAG		
$\%_{40^{\circ}\text{C}}$	45%	60%	100%	
I_2	320A	280A	230A	
$\%_{\text{RT}}$	45%	60%	100%	
I_2	-	320A	290A	
I_2	30A – 320A			
U_0	50V			
$\text{P}_{1\text{MAX}}$	11,6KVA - 11,1KW			
IP	23			
	1110 x 550 x 805mm			
	76,0 MKS - 72,5 MSR (Kg)			
Wire Feeder		Technical data		
Machine Type	Pioneer 321 MKS	Pioneer 321 MSR		
Wire Feeder	Integrated	WF 107		
	24 VDC	42 VDC		
P_{MAX}	35 W	120 W		
r.p.m.	210	270		
	1,0÷20,0 m/min.	2,0÷22,0 m/min.		
IP	-	23		
	-	670x246x470		
	-	21,5kg		
CU 07		Technical data		
		1x230Vac ± 15% @ 50-60Hz		
		1,35A		
P_1 L/MIN		1.10kW		
P_{MAX}		0,44MPa		
		3,0l		
IP		23		
		280 x 142 x 570mm		
		12,0Kg		

