



MOSA DSP 2x400 PS Multiprocess Welder 2 Welding Stations

Reference: C1HJ1063

MOSA DSP2X400PS MOTORWELDER MULTIPROCESS 2 WORKSITES

Mosa DSP2x400PS Multiprocess 2-Station Motorwelder Machine is a professional machine with digital regulation of DSP (Digital Signal Processor) welding parameters and welding circuit in Chopper technology (high frequency 20 kHz). Mosa DSP2x400PS 2-Station Multiprocess Welding Machine is equipped with a Perkins 1103 series diesel engine and an asynchronous alternator, it can be used simultaneously as a Motorwelder machine and as a three-phase and single-phase generator. Thanks to the rotation speed of the engine of 1500 rpm it is suitable for continuous duty.

Mosa DSP2x400PS It allows to work on two independent 400A welding stations each.

Mosa DSP2x400PS Designed to meet the needs of professional DC welding, a selector allows to choose between 5 different programs.

1. LIFT ARC TIG - Performs TIG by controlling the trigger in "Lift Arc" mode. The arc is triggered by a simple contact of the electrode on the workpiece, without sliding.
2. STICK (3 PROGRAMS) - They are specific for ELECTRODE (DC) and differ from each other for three different levels of arc penetration (arc force), with increasing short circuit currents.
3. MIG MAG - It is dedicated to FULL OR ANIMATED WIRE welding, performing a constant voltage (CV) process.

Mosa DSP2x400PS Multiprocess 2-Works Motorwelder: This is a super-silenced Motorwelder machine with a compact fairing, suitable for a wide range of applications including the construction of metal structures, pipelines and use on construction sites.

MULTIPROCESS MOTORWELDER DSP PROGRAM DSP2X400PS 2 WORKSHOP:

Technology of the Mosa DSP2x400PS Multiprocess 2-Station Motorwelder Machine:

The acronym DSP, by which this line of MOSA Motorwelder is called, stands for "Digital Signal Processor" and identifies the fact that the parameters are adjusted with digital technique. More precisely, in the DSP control unit are installed the programs through which the control of the various supported processes is carried out. The control is carried out by means of a "Chopper" type converter (Meuse Chopper Technology), which operates at high frequency (20 kHz). The high conversion frequency allows to obtain superior characteristics compared to those possible with more traditional low frequency techniques.

Features of the DSP2x400PS Meuse Multiprocess 2-Work Station Motorwelder Machine:

With a selector you can choose between 5 different Mosa welding programs:

1. LIFT ARC TIG Meuse - Performs TIG by controlling the trigger in "Lift Arc" mode. The arc is triggered by a simple contact of the electrode on the workpiece, without sliding.
2. STICK (3 PROGRAMS) - These are specific for ELECTRODE (DC) welding and differ from each other in three different levels of arc penetration (arc force), with increasing short circuit currents.
3. MIG MAG Meuse - It is dedicated to FULL OR ANIMATED WIRE, performing a constant voltage (CV) welding process.

The front panel of the DSP control unit of the DSP2x400PS Meuse is equipped with a circular military type connector to which a Meuse remote control or a Mosa wire feeder can be connected, for MIG MAG. When the external connector is inserted, the control is automatically switched to the remote unit knob. All the machines in this series are equipped with a digital measuring instrument for reading the welding current and voltage. The software of the control unit, in relation to the version of the Motorwelder machine on which it is installed, can manage various functions, including

- a) Power Optimizer - Function that prevents motor overload during welding
- b) VRD - (Voltage Reduction Device) Function that reduces the no-load voltage to safety values when welding is suspended
- c) Reverse polarity - The control unit manages the contactor that actuates the reverse polarity, when present.

The DSP control unit of the DSP2x400PS Meuse also implements some protection functions:

- Overtemperature of the chopper converter
- Overcurrent during welding (due to failure or malfunction)
- Current sensor not connected
- Supply voltage failure

REVERSIONS ON REQUEST OF THE DSP2X400PS MOTOSALDATOR MOSA

- Mosa Auxiliary output 400Y/230I/48I: N.2 x 400V 32A 3P+N+E CEE / N.1 x 230V 32A 2P+ECEE / N.2 x 230V 16A 2P+E CEE / N.2 x 48V 32A 2P CEE
- Meuse Auxiliary output 400Y/230I: N.2 x 400V 32A 3P+N+E CEE / N.2 x 230V 32A 2P+E CEE / N.4 x 230V 16A 2P+E CEE
- Mosa Auxiliary output 400Y/230I/110I CTE: N.2 x 400V 32A 3P+N+E CEE / N.1 x 230V 32A 2P+ECEE / N.2 x 230V 16A 2P+E CEE / N.1 x 110V 32A 2P +T CEE / N.2 x 110V 16A 2P +T CEE
- PL version: version with polarity change and VRD (device for reducing the ignition voltage)

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Images and technical data of the Mosa DSP2x400PS Multi-Process 2-Worksealer not binding.

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Technical Sheet

Phase	Single phase / Three phase
Maximum power single phase (KW)	16
Maximum power single phase (KVA)	20
Maximum power three phase (KW)	32
Maximum power three phase (KVA)	40
Fuel	Diesel
Frequency (Hz)	50
Voltage (V)	230 / 400
Sockets configuration	2x400 V 32A 3P+N+T CEE + 1x230V 32A 2P+T CEE + 2x230V 16A 2P+T CEE + 2x48V 32A 2P+T CEE + 2 Sockets DINSE 200 A 48V
Engine	PERKINS 1103A-33TG1, 4 stroke turbocharged
Emissions Regulations	Stationary Use
Engine rpm (rpm)	1500
Starting system	Electric

Engine capacity (cm ³)	3300
Number cylinders	3
Cooling	Water
Inyección	Direct
Alternator	Asynchronous three-phase, self-excited, self-regulated, brushless
Regulation current (A)	10 (42) - 400
Welding current (A)	2x400 at 35% - 2x360 at 60% - 2x330 at 100% / 2x360 at 60% - 2x330 at 100%
Open circuit voltage (V)	68
Maximum diameter electrodes (mm)	8
Type of welding current	CC / CV
Type of welding	Multiprocess
Fuel tank capacity (L)	102
Consumption (L/h)	6.7
Running time (h)	15
Acoustic power	89 dB(A)
Acoustic pressure	64 dB(A) at 7 m
Length (mm)	2490
Width (mm)	1030
Height (mm)	1480
Dry weight (Kg)	1350
Silenced	Yes
Super silenced	Yes
Engine manufacturer	Perkins