

Solid As A Rock

Electrofusion Unit MSA 330 MSA 340



The Benefits

Reliable, easy to use and ready for current and upcoming international standards – these are the main characteristics of the MSA 330/340 family. The MSA 330 and MSA 340 enhance your daily operations tremendously. These state-of-the-art tools encompass numerous features which support safety, speed and reliability.

Everything needed



The System

The right solution for everyone thanks to different types: The MSA 330 and MSA 340 both comprise an easy and intuitive handling. In addition, the MSA 340 offers the ability to record GPS data and has an embedded rental duration control feature







Easy and intuitive

Easy and intuitive operation on site is given by the practical seven-button keypad to navigate through the clearly structured menu. With one-button (START / OK) operation the user is guided from preparation to the finalization of the fusion process. For fusion data input a barcode scanner is connected; manual entry can also be configured in the set-up menu. There the work flow and the menu language can be adjusted to the personal requirements. At the beginning of each welding, additional information like operator ID (ISO 12176-3) and job number can be attached to the fusion record.

Robust design

The robust design of the aluminum housing protects the high quality electrical components and provides excellent heat dissipation to weld in series. The power cord and the fusion cables are stored securely and tidily on the sturdy cable drum. The fusion unit is ideally balanced in weight and the clever design of the handle ensures ergonomic handling and transportation. The professional storage box – suitable for even the roughest conditions – completes the package.

Fusion data recording

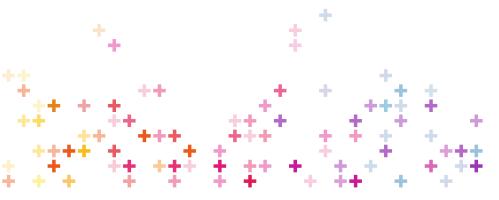
Both machines allow fusion data recording to an internal memory; the data is easily transferred via standard USB interface to a personal computer for print out or to a digital archive. No additional data management software has to be installed, the fusion protocol is already available in PDF format.

Advanced functions

The MSA 340 contains advanced functions to comply with more sophisticated requirements especially in gas applications. The traceability data (ISO 12176-4) of the fitting and the pipes can be saved to the fusion record as well as the GPS coordinates of the weld position. The GPS antenna is mounted to the housing of the fusion unit in a sheltered position.

The Details

To ensure high quality fusion cycles, the MSA units automatically adjust the welding time. The entire fusion process is supervised, in case of anomalies – like inadequate input voltage – a specific error message will pop up. Depending on the ambient temperature, the machine automatically adjusts the welding time for the correct distribution of energy to the fitting. When the fusion process has been completed, the cooling time of the joint is displayed.









Comfortable handling

The housing, handle and cable drum have been designed to adjust to the needs of end users, e.g. for comfortable cable winding and ergonomic transport. The power cord and the fusion cable, which is flexible and made of high quality material, can also be wound separately. Pin adapters to weld all types of fittings (4 mm and 4.7 mm) are supplied in the pouch of the barcode pen or scanner. No annoying sharp edges on the housing get in the way when using, especially under rough conditions.

Easy data transfer

The MSA 330 / 340 fusion units have a state-of-the-art USB interface for fusion record transfer and software update. During daily use the interface is protected against dirt with a plastic screw cap. When transferring records from the internal memory to the standard formatted USB stick, the protection cap has to be removed.

Greatest scope of recorded data

The record is delivered in PDF or CSV format; both are manageable with free (no license) PC software applications. The protocol may contain up to 20 different types of data, including fusion parameters, operator ID, job number. The MSA 340 additionally stores the GPS coordinates of the jointing to identify the geographical location (i.e. with Google Earth) and the traceability codes of fitting and pipeline components (ISO).

The Applications

The polyvalent electrofusion machines facilitate the job on all construction, providing quality and efficiency.

* Versatile





Transport and distribution

The MSA 330/340 electrofusion units are used in all applications you have to weld PE and several PP fitting types. No matter if they are new installations, renovation, repair or extension of existing water and gas lines. If your installations are dealing with transportation lines, then the MSA 330/340 are capable of welding large diameters.

For distribution lines down to house connections, where you have smaller diameters, these electrofusion units offer an unbeatable price-performance ratio.

Building technology and industrial treatment

The MSA 330/340 control boxes feel comfortable in a large variety of other applications, too. Big infrastructures set up, like a stadium or an airport terminal. Waste treatment pipelines in harsh environment or sewage network under the river. Everywhere, these reliable electrofusion units contribute to leak proof connections.



Technical Overview

The MSA family gives you the freedom to choose the appropriate tool for your day-to-day business — a significant cost benefit for you. MSA 330 offers the same functionalities both in 230V and 115V, to weld electrofusion fittings in utilities, building technology and industrial applications. MSA 340 offers, in addition, geolocalization and traceability features.



MSA 330 family overview	MSA 330	MSA 340
Fittings dimension range (Ø mm)	20÷1200	20÷1200
Multiple weldings in sequence	√	√
Operating procedures check		
Automatic temperature compensation	\checkmark	√
Fusion current monitoring (short/interrupt)	√	√
Electrical (thermal and fuse) protection	√	J
Data input		
Barcode scanner	<i>_</i>	√
Manual fusion input	√	√
Welder pass	√	√
Data recording		
Documentation of fusion (number of protocols)	√ (500)	√ (1000)
Traceability documentation (ISO 12176-4)	-	√
GPS support (GPS accuracy)	-	√ (3m)
Operations control		
Display brightness configurable	√	√
Acoustic alert	<i>_</i>	√
Different levels of access (admin/user)	<i>_</i>	√
Configurable languages	11	11
Serviceability		
Programmable maintenance interval	√	√
Programmable rental time interval	<i>_</i>	√
Software upload via USB memory stick	√	
Usability		
Immediate availability	√	$\sqrt{}$
Configurable workflow		√
Problem recognition (fittings, generators)		√
Clear messages to the operator in the display	√	√
User guidance	√	√ √
Indication of energy, fusion and cooling time		√ √
Data protocol format (csv, pdf) Windows® independent		√ √
Separate cable winding support	√	<i>√</i>
Transport box		-/

Specifications

Engineering at its best: high-end components in liaison with the possibility of individual configuration support your work flow perfectly. Depending on the power supply range (230V or 115V), the MSA330 and MSA 340 offer distinguishing traits to comply with national standards.



Technical specifications	MSA 330/340 230V	MSA 330/340 115V
Operating conditions		
Working temperature range	min10 °C, max. +45 °C	min10 °C, max. +45 °C
Electrical data		
Input voltage range (Vac)	180 – 265	90-135
Frequency range (Hz)	50 - 60	50 - 60
Current consumption (Max, A)	16 A	32 A
Output voltage (V ac)	8 – 48	8 – 48
Output current (max, A)	90	90
Input power (kW)	3.6	3.6
Type of protection	IP54	IP54
Electrical switch type	ON / OFF	Emergency switch
Data and operation control		
Communication interface	USB Type A	USB Type A
Buttons	5+Start+Stop	5+Start+Stop
Display	LCD20x4 s	LCD20x4 s
Display colors	Blue/White	Blue/White
Manhaniani data		
Mechanical data Dimensions (mm)	280x480x320	280x480x320
Weight (Kg)	21.7	21.7
Case material	Aluminum	Aluminum
Mains cable length	4m	4m
Fusion cable length	4m	3m
Detachable fusion cable	-	<i></i>
Mains plug	Schuko 16A	IEC 60309
Connectors	4mm	4mm
Adapters (90°)	4.0 – 4.0 mm / 4.0 – 4.7 mm	4.0 – 4.0 mm / 4.0 – 4.7 mr
Norms compliance		
EMC (EN61000)	√	√
Safety (EN60335)		√ √
ISO12176-2/3		√
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E	Electrofusion unit code	230 V	115 V
١	MSA 330	790 160 005	790 160 017
N	MSA 340	790 160 007	790 160 014
	MSA 340	700.1/0.007	790 160 017

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