Solutions for Perfection from Marin Industrietechnik

Mobile Ultrasonic Welding Device





Mobile Filling Tension Adjustment Device

This mobile Ultrasonic Welding Device from Marin Industrietechnik, with automatic yarn cutting system find its use at different areas at the paper machine clothing, production of technical textiles and at the medical automation. It is conceived especially for the application of synthetic yarn welding. By the use of special Sonotrodes (horns) and anvils with diverse web and gap dimensions, the field of use ranged from monofilaments up to twisted multiple yarns with different diameters. The precision engineering of the device ensures a perfect yarn welding and a automatically cutting of the remaining threads.



Welding Control Unit

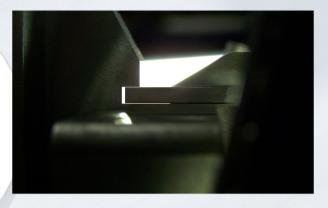
The USW-Device is equipped with a combined welding-time and welding-pressure control, which ensures the highest welding seam quality. It facilitates an easy and fast welding time changing and the welding process starts only if the needed air-pressure is reached. Furthermore the device is equipped with an easy and fast welding-pressure adjustment.



Micrometrical Spindle

A micrometrical spindle and a digital feeler gauge connected to a digital counter unit, facilitate a fast fine-adjustment of the welding gap between the Anvil and the Sonotrode. The alteration of the gap distance is displayed at the digital counter unit. In dependence to the welded material thickness, different Anvils and Sonotrodes are available at a thickness range between 0.50 mm and 3.00 mm. Every Anvil and Sonotrode combination has its own range of use.

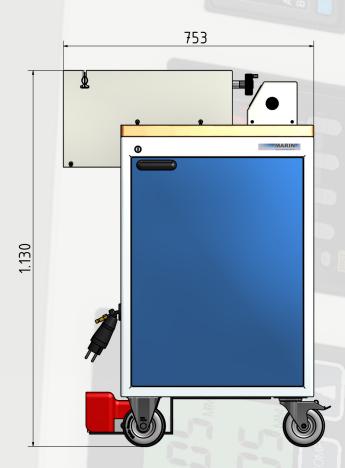


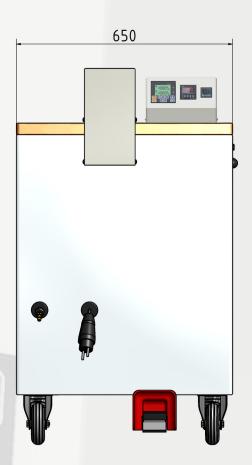




Technical Data

	W - Devi		
General		Control Units	
Power Supply	230V 50/60Hz	Air Pressure Sensor SPAB-P10R-G18-PB-M8	24V DC
Working Power	24V DC	Sony Digital Counter type LT10A-105	24V DC
Air Pressure Supply	max. 10 bar	Timer H5CX-AD-N	24V DC
Siemens Control		USW-D Dimension & Weight	
Siemens Power 6EP1332 1SH52 Incoming	230V 50/60Hz	Width overall:	650 mm
Siemens Power 6EP1332 1SH52 Outgoing	24V DC 4A	Height overall:	1150 mm
S-Control Modul 6ED1052-1CC01-0BA6	24V DC	Depth overall:	860 mm
S-Expansion Modul 6ED1055-1NB10-0BA0	24V DC	Total Weight:	approx. 92 kg
Cable Drum with automatic Wind Up System		Generator & Accessories	
Cable length unwound	14 m	Version:	Typ 588
2 Internal power sockets at the mobile cabinet	230V 50/60Hz	Frequency:	40 kHz
Cable type H05VV	F 3 G 1,5 mm²	Power Supply:	230V 50/60Hz
Ingress Protection Rating with overheat protection	IP20	Width:	300 mm
Max. capacity unwound	1800 W	Height:	130 mm
Max. capacity winded up	1200 W	Depth:	210 mm
Pipe Drum with automatic Wind Up System		Transducer 40 kHz	V250/7C-121Z
Pipe length	9 m	Sonotrode 40 kHz (Standard)	11,5 x 1,00 mm
Pipe Diameter	6,5 x 10,0 mm	Anvil (Standard)	11,6 x 1,20 mm
Air Pressure Supply max.	12 bar		





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