

FP200, FP5 - High Force Spot Welding Heads for automation

Thanks to their excellent dynamic response and their stable follow-up properties the FP-series weld heads represent the best solution for a wide range of resistance welding applications.

The FP weld head series is designed for welding of materials which require precise and reliable welds continuously.

Both weld head types deliver outstanding weld process stability and consistent reproducibility.

Maximum reliability and ease of maintenance generate an outstanding cost ownership and a very long product life in operation.

The FP-Series has two main products. The FP200 offers three (-1, -2, -3) and the FP5 (-8, -18) two options. The product differences are described in the Technical Specifications table.

Key features FP200, FP5 - High Force Spot Welding Heads for automation

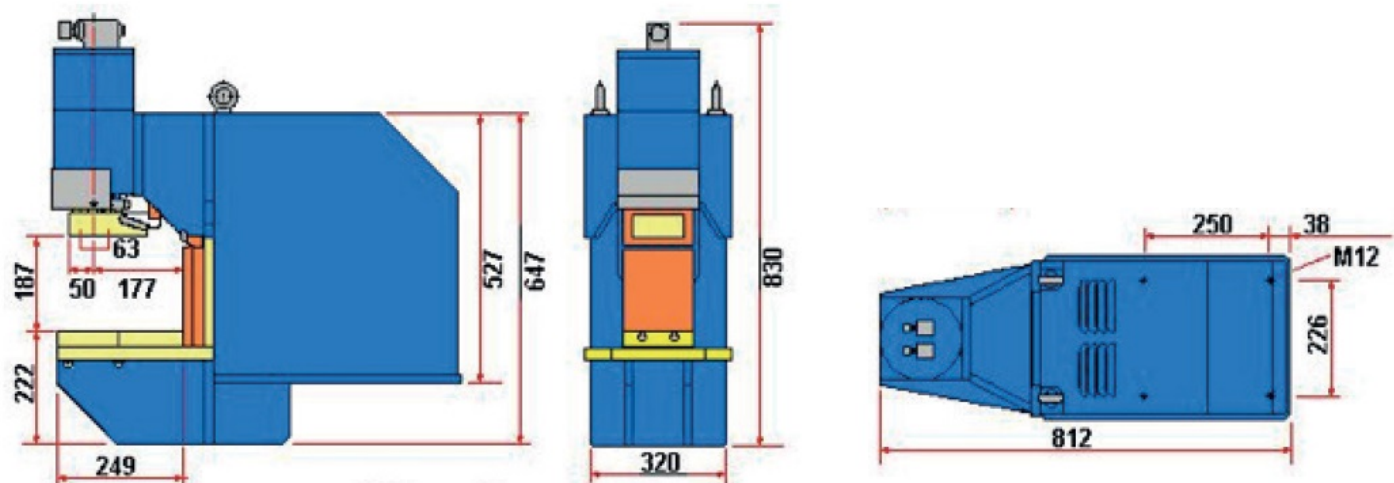
- > Modular for easy integration for automation
- > Adjustable force-firing from 400 N to 18000 N
- > Fast follow-up
- > Water-cooled electrode holders

Specifications FP200, FP5 - High Force Spot Welding Heads for automation

FP-Series	FP200	FP5
Configuration	Stand design with horizontal secondary connection and water distributor	Stand design with upper and lower T-slot table
Options	Automatic weld head without stand, without lower electrode holder, with adapter	Upper T-slot table adjustable
Electrode stroke	40 mm	50 mm
Closing stroke	Pneumatic	Pneumatic
Weld force max	3300 N (optionally 1000 N)	-8: 8000 N, -18: 18000 N
Air pressure supply	Max. 6 bar	
Weld force adjustment	Via adjustable pressure control valve or proportional valve	Via valve bank or proportional valve
Electrode shape	-1: cylindrical, d = 10 mm, -2, -3: MK1 electrodes	-1: cylindrical, d = 10 mm, -2, -3: MK1 electrodes
Electrode holder	-1: Water-cooled armholders with uncooled circular arms. -2: Top; Centric MK1 point type head; Bottom: MK1 electrode holder with water-cooled shaft. -3: water-cooled MK1 point-type head.	Upon request
Weld cables	4x95 mm ² 400 mm long	Upon request
Environment temp.	0-40 °C	
Cooling	Water-cooled electrode holders	Water-cooled T-slot table
Weight	19 kg	300 kg
Dimensions (LxHxD)	Varying	812 x 830 x 320 mm

Drawings FP200, FP5 - High Force Spot Welding Heads for automation

FP5



Product applications FP200, FP5 - High Force Spot Welding Heads for automation



Electronics



Wiring Assembly



Automotive

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OUR TECHNOLOGIES



RESISTANCE WELDING



LASER WELDING



LASER MARKING



HERMETIC SEALING



HOT BAR REFLOW
SOLDERING & BONDING



SYSTEMS SOLUTIONS

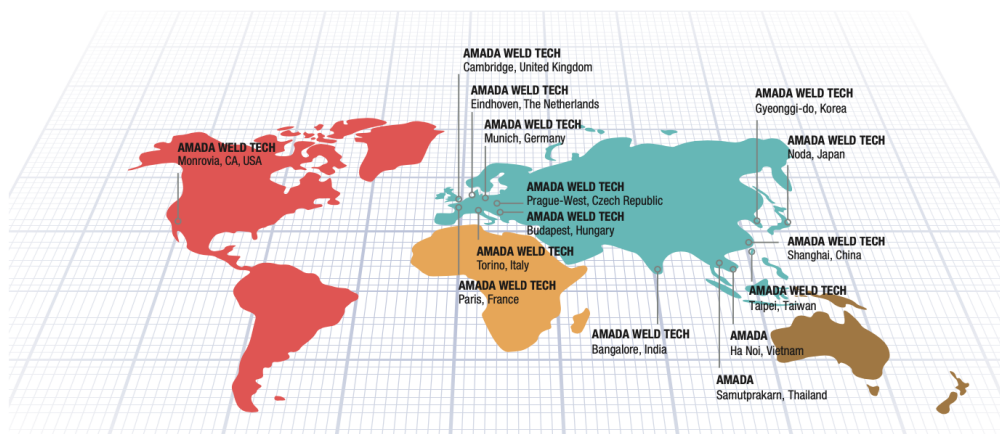


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