

FM Series Modular Servo Motorized Spot Welding Heads & Pincers (formerly known as MFP Series)

The FM Series weld heads and weld pincers are a complete range of weld heads in the force range of 40- to 1100 Newton. The revolutionary design offers extreme stiffness for optimum and constant welding performance. Accessibility from one side only, dust sealing, and easy exchange of modules lower the cost of ownership. The FM Series weld heads and pincers are configured with 24 different basic modules to form up to 400 different weld heads. These weld heads form three basic families i.e. weld head for automation, bench weld heads, and weld pincers. Our weld specialists have the tools to help you configure the optimum weld head for your application. 3D models are available to help integrate the new horizon weld head into your system or work area. FM Series weld heads offer optimal serviceability.

Key Features FM Series Modular Servo Motorized Spot Welding Heads & Pincers

- > Modularity and open architecture offer versatile solutions
- > Flexible configurations facilitates customisation and upgrades
- > Lower cost of ownership thanks to ease of maintenance and reduced spare part ordering and storage complexity
- > Strong brands from a global player ensure international coverage
- > Unique solutions are available for many industry markets with optional displacement sensor(s)
- > Modular design allows for wide range of products with short delivery times
- > One-side accessibility and exchange of modules for low maintenance costs
- > High stiffness for optimal weld performance
- > Availability of 3D models in CAD file drawing format for easy integration
- > Choice of Direct drive servo module or two stroke cylinder actuation
- > New electrode holder design for fast changeover, perfect stiffness and energy flow

Specifications FM Series Modular Servo Motorized Spot Welding Heads & Pincers (formerly known as MFP Series)

Model	Weld head for automation	Weld head for bench type	Weld pincer
Configuration	Without Stand	With Stand	Floating, 1 position stroke or 2 position floating
Electrode stroke	30 mm	30 mm	30 mm
Locking stroke	n/a	n/a	5 mm max
Floating stroke	n/a	n/a	30 mm
Closing stroke	Pneumatic 2-stroke cylinder or motorized actuation	Pneumatic 2-stroke cylinder or motorized actuation	Pneumatic 2-stroke cylinder or motorized actuation
Welding force Servo motorised FM-400A or FM-400-Z	60 - 400 N	60 - 400 N	60 - 400 N
Welding force Servo motorised FM-800A or FM-800-Z	160 - 800 N	160 - 800 N	160 - 800 N
Lower stroke unit force	Pneumatic; 30 mm stroke; 1600 N	Pneumatic; 30 mm stroke; 1600 N	n/a
Air pressure supply	6 Bar max for pneumatic act. VL40R or VLPV needed	6 Bar max for pneumatic act. VL40R or VLPV needed	n/a
Force adjustment motorised head	Via motor controller	Via motor controller	Via motor controller
Electrode holder	Quick change electrode holder	Quick change electrode holder	Quick change electrode holder
Secondary cables	95, 300 or 500 mm ² in various lengths	95, 300 or 500 mm ² in various lengths	95, 300 or 500 mm ² in various lengths
Environment temp.	0 - 40 °C	0 - 40 °C	0 - 40 °C
WEIGHT & DIMENSIONS			
Weight Motorised	5 kg	15 kg	20 kg

Product applications FM Series Modular Servo-Motorized Spot Welding Heads & Pincers (formerly known as MFP Series)



Electronics



Electronics



Medical



Automotive



Automotive



Automotive

AMADA[®]

AMADA WELD TECH

OUR TECHNOLOGIES



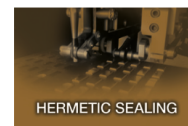
RESISTANCE WELDING



LASER WELDING



LASER MARKING



HERMETIC SEALING



HOT BAR REFLOW
SOLDERING & BONDING



SYSTEMS SOLUTIONS

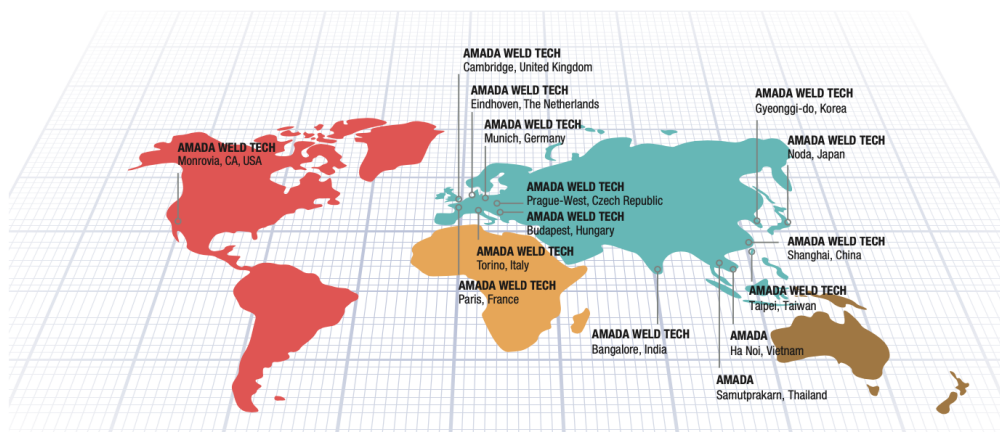


LASER CUTTING



MICRO TIG WELDING

OUR SALES OFFICES



AMADA WELD TECH GmbH
Lindberghstrasse 1 • DE-82178 Puchheim, Germany
T: +49 (0) 89 83 94 030 • Fax : +49 (0) 89 839403 68
info@amada-weldtech.eu • www.amada-weldtech.eu
ISO 9001 Certified Company

Please contact our worldwide
network here:



follow us on:



All data, images and text are subject to change at any time. AMADA WELD TECH GmbH reserves the right to change, modify, delete and add technical specifications and product details at any time without prior notification. © 2020 AMADA WELD TECH GmbH.

WWW.AMADAWELDTECH.EU