

## F120-Z and F160-Z - Weld Pincers for Automation

Thanks to their floating bearing with locking cylinder and their excellent follow-up properties the F-series weld pincers are designed for a wide range of resistance welding applications. Maximum reliability and ease of maintenance generate an outstanding cost of ownership and a very long product life in operation. The weld pincer F-series is designed for welding of materials which require precise and reliable welds continuously. Both weld pincer types deliver outstanding weld process stability and consistent reproducibility.

The F120-Z and F160-Z weld pincers are designed to be used in combination with a variety of electrodes, force sensors and displacement sensors.

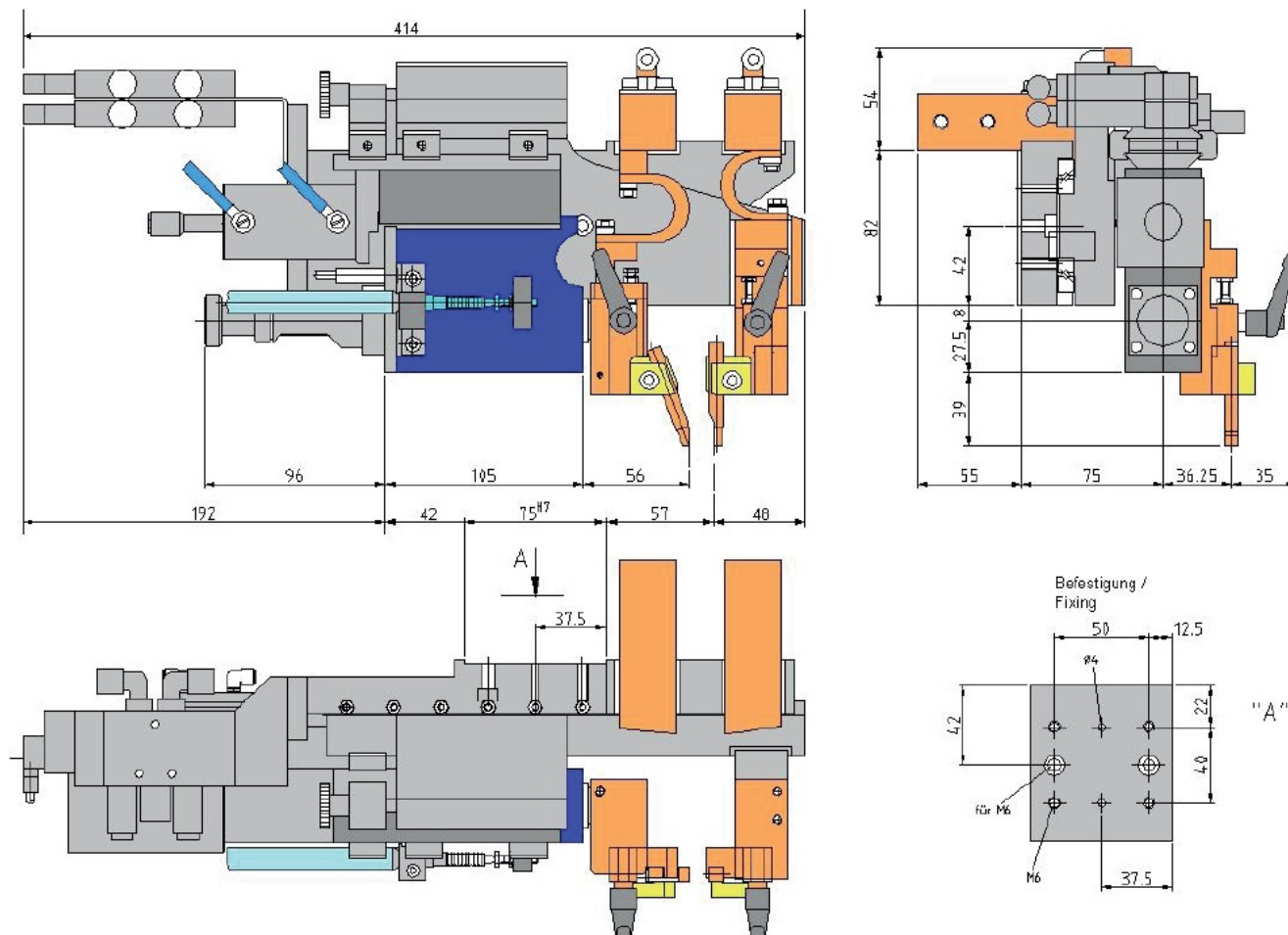
### Key features F120-Z and F160-Z - Weld Pincers for Automation

- > Modular for easy integration for automation
- > Adjustable force-firing from 1.2 N to 550N
- > Pneumatic actuation
- > Optional horizontal mounting
- > Ideal for safety critical applications

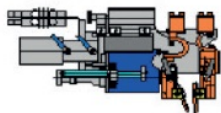
## Specifications F120-Z and F160-Z - Weld Pincers for Automation

Model	FP120-Z	FP160-Z
Configuration	spring types 1 to 3 for force ranges 15 to 150 N; float mounting weld pincers with quickchange system for electrodes locking cylinder	spring types 1 to 4 for force ranges 50 to 550 N; float mounting weld pincers with quickchange system for electrodes locking cylinder
Max. variations	Electrodes 0° (left), 20° (right), 20° (horizontal) and 20° (vertical)	Electrodes 0° (left), 20° (right), 20° (horizontal) and 20° (vertical)
Options	Add-on set – displacement sensor; support cylinder for programmable force setting; conversion kit to spring 0 (small force) with light current band	Add-on set – displacement sensor; support cylinder for programmable force setting; support cylinder for programmable force setting
Maximum rating	5 kA (2 kA with light current band)	5 kA (2 kA with light current band)
Closing stroke	Pneumatic	Pneumatic
Welding pressure	via pneumatic pre-tensioned spring	via pneumatic pre-tensioned spring
Weld force max	15 to 150 N (option: spring 0 for 1.2 to 15 N)	50 to 550 N
Air pressure supply	max 6 bar	max 6 bar
Weld force adjustment	adjustable screws on the scale housing or automatically with support cylinder	adjustable screws on the scale housing or automatically with support cylinder
Electrode shape	square electrodes 7.5 x 7.5 mm	square electrodes 7.5 x 7.5 mm
Electrode holder	quick change holder	quick change holder
Weld cables	2x95mm <sup>2</sup> , 700mm long	4x95mm <sup>2</sup> , 700mm long
Environment temp.	0-40°C	0-40°C
Legal approval	CE compliant	CE compliant
<b>WEIGHT &amp; DIMENSIONS</b>		
Weight	approx. 11 kg w/o secondary cable	approx. 15 kg w/o secondary cable
Dimensions (LxHxD)	211x414x201 mm	221x415x211 mm

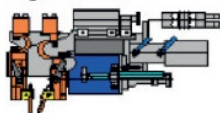
Drawings F120-Z and F160-Z - Weld Pincers for Automation



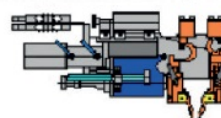
Ausführung links  
Left version



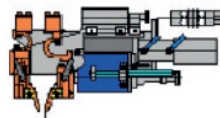
Ausführung rechts  
Right version



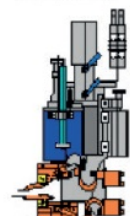
beide Elektroden 20°, links  
both electrodes 20°, left



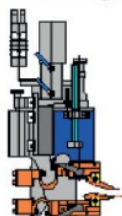
beide Elektroden 20°, rechts  
both electrodes 20°, right



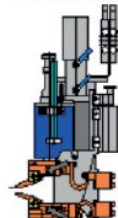
links senkrecht  
vertical left



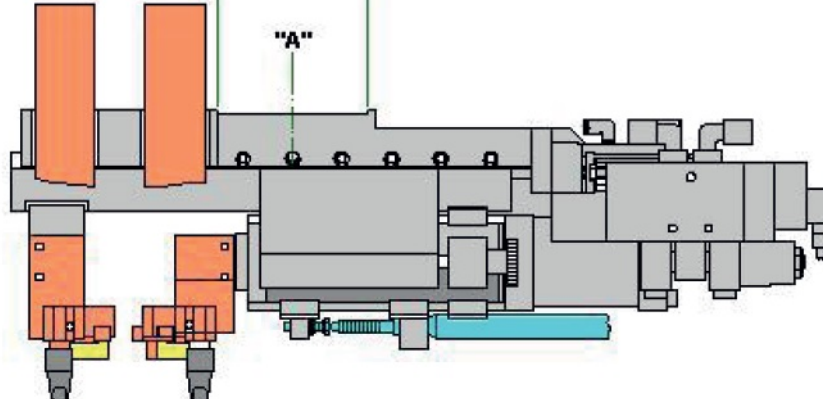
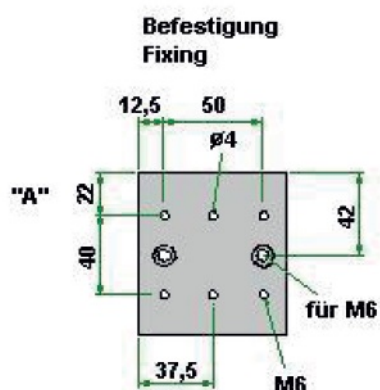
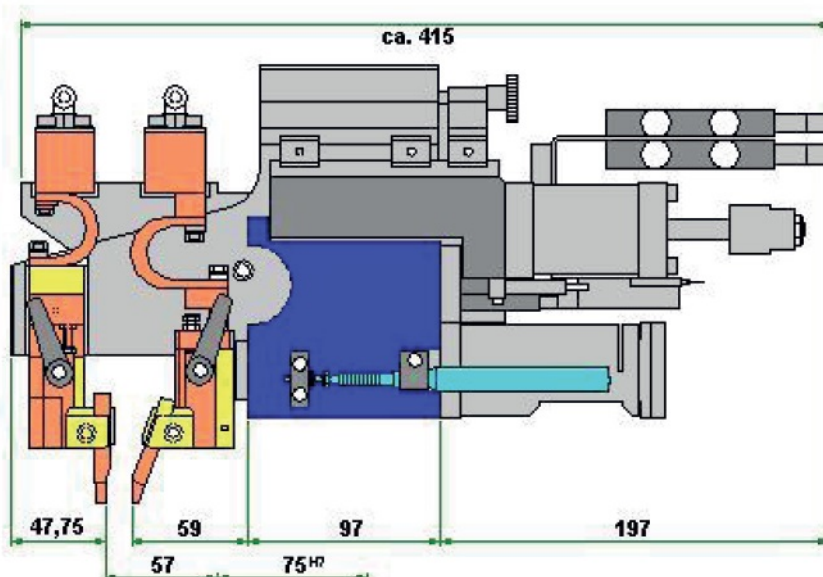
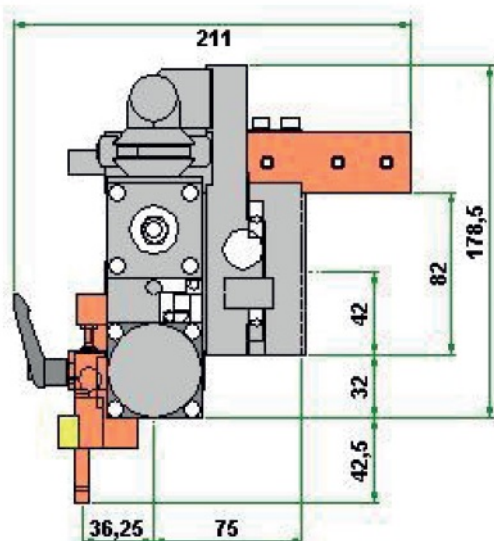
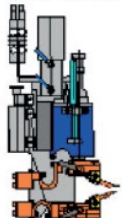
rechts senkrecht  
vertical right



links senkrecht,  
beide Elektroden 20°  
vertical left,  
both electrodes 20°



rechts senkrecht,  
beide Elektroden 20°  
vertical right,  
both electrodes 20°



Product applications F120-Z and F160-Z - Weld Pincers for Automation



Radiator connector



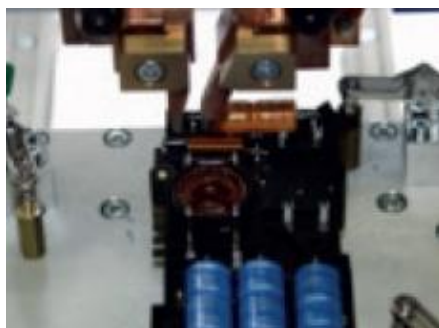
Radiator motor



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Weld capacitor

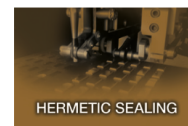


Power steering

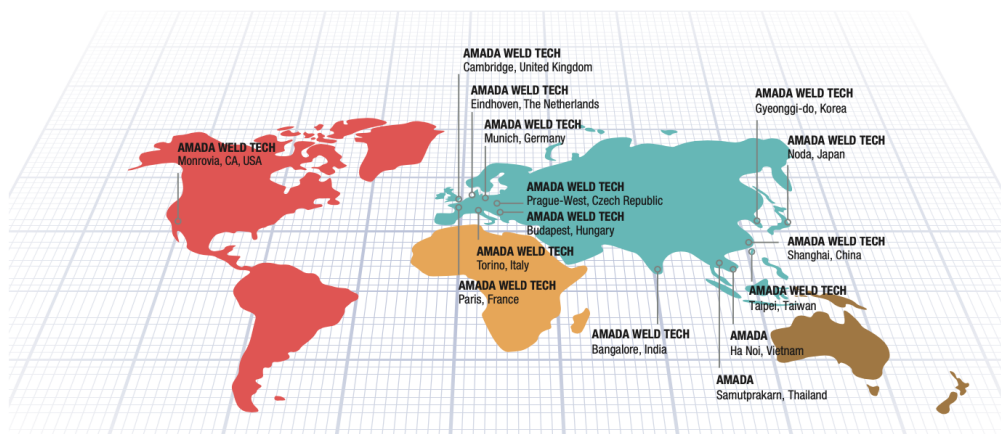
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