



# F120-Z, F160-Z Weld Pincers

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

### **CONFIGURATION OPTIONS**

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.

### **TYPICAL APPLICATIONS**



Radiator connector





UE



Power Steering



Weld Capacitor

## **TECHNICAL SPECIFICATIONS**

	F120-Z	F160-Z
Configuration	spring types 1 to 3 for force ranges 15 to 150 N; float mounting weld pincers with quick- change system for electrodes locking cylinder	spring types 1 to 4 for force ranges 50 to 550 N; float mounting weld pincers with quick- change system for electrodes locking cylinder
Max. Variations	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)	
Closing Stroke	pneumatic	
Welding Pressure	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	
Weld Force Adjustment	adjustable screws on the scale housing or automatically with support cylinder	
Electrode Shape	square electrodes 7.5 x 7.5 mm	
Electrode Holder	quick change holder	
Weld Cables	2x95mm <sup>2</sup> , 700mm long	4x95mm <sup>2</sup> , 700mm long
Environment Temp.	0-40°C	
Legal Approval	CE compliant	

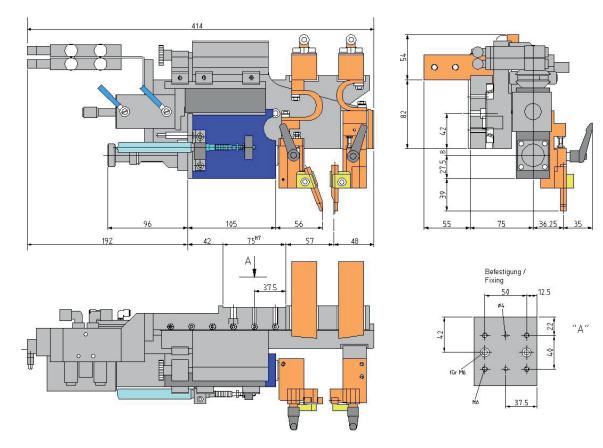
### **WEIGHT & DIMENSIONS**

	F120- Z	F160- Z
Weight	approx. 11 kg w/o secondary cable	approx. 15 kg w/o secondary cable
Dimensions (L x H x D)	211x414x201 mm	221x415x211 mm

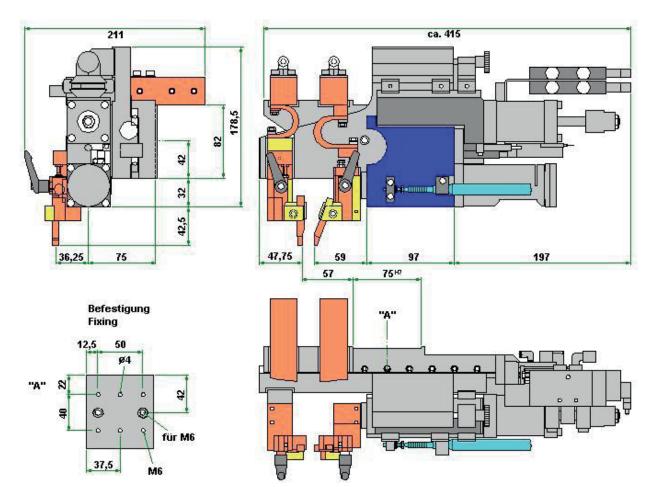
# **RESISTANCE WELDING**

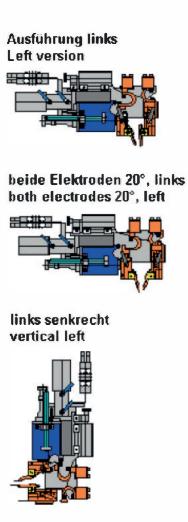
# DRAWINGS

F120-Z

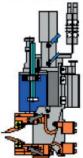


F160-Z

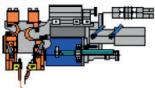




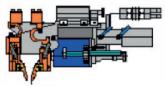
links senkrecht, beide Elektroden 20° vertical left, both electrodes 20°



Ausführung rechts Right version



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



rechts senkrecht vertical right



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





