

High-Performance R-SWG

Friction Stir Spot Welding Gun



The high-performance **Friction Stir Spot Welding Gun R-SWG** is a powerful and lightweight tool, which can be handled by a robot or integrated into a machining centre. By using the very latest FSSW technology combined with a high-tech force measuring system, this gun offers new possibilities in sheet metal spot welding. Even dissimilar metals such as aluminium to steel can be easily welded. Optionally, automatic tool changing systems are available.



R-SWG

The high-performance and lightweight design ensures:

- ✓ high process stability
- ✓ easy to handle by robot
- ✓ up to 4000 spots without any additional tool handling (i.e. cleaning, repositioning)

High performance friction stir spot welding spindle

FSSW function with FSSW force and travel control system up to 10 kN

FSSW cycle time 2-3 s depending on the used materials

Tooling system DIN 1835-1 Weldon D=10

Technical Data	
Weight approx.	110 kg
Length	500 mm
Height	850 mm
Width	370 mm
Loading width max.	200 mm
Max. force	10 kN
Max. tool rotation speed	4000 min ⁻¹
Power supply	15 kW
Protection class	IP 54
Noise level	< 80 dB (A)
Tooling system	Weldon D10 DIN1835-1
Quality monitoring	optional

