

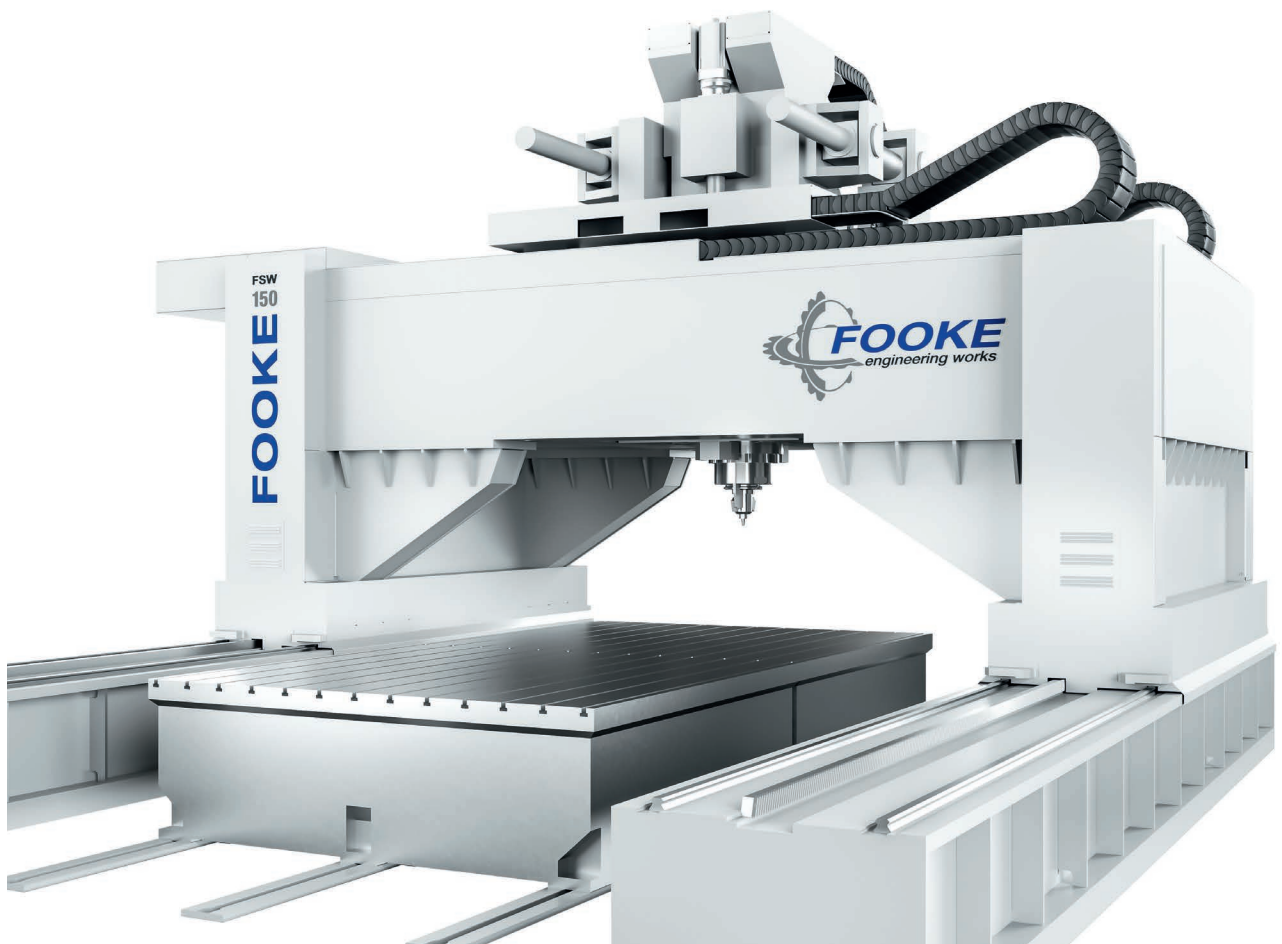


# FRICTION-STIR WELDING MACHINE

FOOKE FSW 150



150 kN  
MAXIMUM AXIAL FORCE

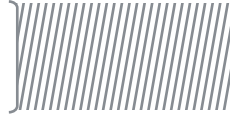


3+1-AXIS OPERATION





WELD SEAM  
TRACKING



## FRICION-STIR WELDING MACHINE FOOKE FSW 150

### TECHNICAL DATA

#### Traverse paths

X-axis:	up to 60,000 mm
Y-axis:	up to 4,000 mm
Z-axis:	up to 1,000 mm

#### B-axis

(Pivoting angle):	40° (± 20°)
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#### Feed rate

(Continuously variable feed rates)

X-axis:	5 - 20,000 mm/min
Y-axis:	5 - 20,000 mm/min
Z-axis:	5 - 10,000 mm/min
B-axis:	up to 5°/sec

#### Acceleration

up to 1.0 m/sec<sup>2</sup>

#### Pivoting torque

B-axis:	up to 75,000 Nm
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#### Feed force

X-axis:	up to 75,000 N
Y-axis:	up to 75,000 N
Z-axis:	up to 150,000 N

### HIGHLIGHTS

- Maximum axial force of up to 150 kN
- Welding depth of up to 50 mm (6xxx)
- Welding rate up to 3,000 mm/min
- Feed rate up to 20 m/min
- 3+1-axis operation
- 4-axis simultaneous operation up to 60 kN
- Load and temperature symmetrical construction
- Position controlled process
- Force controlled process

### FEATURES

- FSW tool development
- Customized clamping strategies
- FSW-process optimization
- High power reserves in all NC axis
- Highly rigid structure
  - > Little flexibility
  - > Stable FSW-process
  - > Excellent, reproducibility of high-quality seams



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