



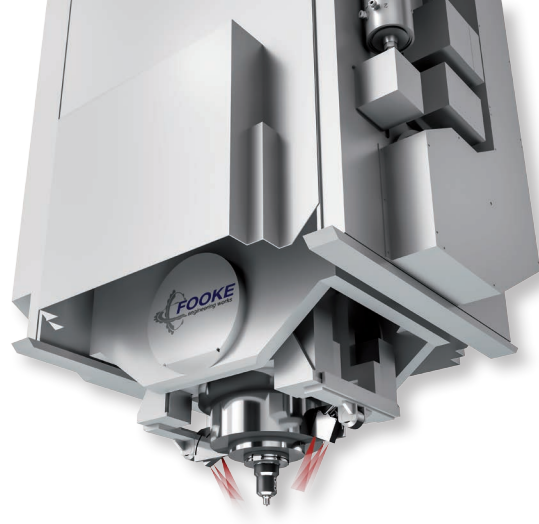
# FRICTION-STIR WELDING MACHINE

FOOKE FSW 35

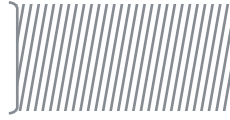
35 kN  
MAXIMUM AXIAL FORCE



5-AXIS SIMULTANEOUS  
OPERATION



WELD SEAM  
TRACKING



## FRICION-STIR WELDING MACHINE FOOKE FSW 35

### TECHNICAL DATA

#### Traverse paths

X-axis:	up to 60,000 mm
Y-axis:	up to 4,500 mm
Z-axis:	up to 1,000 mm

#### A-axis

(Pivoting angle): 90° (± 45°)

#### B-axis

(Pivoting angle): 60° (± 30°)

#### Feed rate

X-axis:	5 - 40,000 mm/min
Y-axis:	5 - 30,000 mm/min
Z-axis:	5 - 10,000 mm/min
A-axis:	up to 5°/sec
B-axis:	up to 5°/sec

#### Acceleration

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

#### Pivoting torque (simultaneously)

A-axis:	up to 20,000 Nm
B-axis:	up to 15,000 Nm

#### Feed force (simultaneously)

X-axis:	up to 17,500 N
Y-axis:	up to 17,500 N
Z-axis:	up to 35,000 N

### HIGHLIGHTS

- Maximum axial force of up to 35 kN
- Welding depth of up to 12 mm (6xxx)
- Welding rate up to 3,000 mm/min
- Feed rate up to 40 m/min
- 5-axis simultaneous operation during FSW-Process
- Load and temperature symmetrical construction
- Position controlled process
- Force controlled process
- „stand-alone“ machine or retrofit solution for ENDURA® 1000

### 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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