

SWITCH TO HIGH SPEED.

Increase your productivity with FOOKE TURNKEY SOLUTIONS in rolling stock construction.





# DO YOU MACHINE ONE OF THESE COMPONENTS?

SIDE WALLS

SUBFLOOR PANELING

DOORS

ROOFS

DAMPERS

INDIVIDUAL PROFILES

FRONT CABINET

FLOOR ASSEMBLIES

BOGIE CONNECTION



ENDURA

**TOOL CHANGER**  
TRAVELLING

**PICK-UP STATION**  
FOR SAW BLADE, TRAVELLING

**WORKSPACE DIVISION**  
MULTI-STATION PROCESSING

**30, 60, 90 OR 120 m**  
TRAVELS

**INDIVIDUAL CLAMPING CONCEPTS**  
AND FIXTURES ON CUSTOMER REQUEST

**SUBFLOOR PANELING, SIDEWALLS,  
ROOF AND FLOOR ASSEMBLIES**

Our specialist:  
Travelling column ENDURA® 1006LINEAR with 2 gantries





**ENCLOSED MACHINING AREA**  
CHIPS ARE DISCHARGED DOWNWARD IN THE MACHINE BED



**HIGH MACHINE DYNAMICS**  
FOR MODERN MILLING PROCESSES



**SMALL FOOTPRINT**  
FOR LONG AND THIN COMPONENTS



**FLEXIBLE WORKPIECE CLAMPING SYSTEMS**  
AS PER CUSTOMER REQUIREMENT (CUSTOMIZABLE CONTOUR PIECES)



**60M X-TRAVEL**  
FOR 2-STATION MILLING



## HOLLOW CHAMBER SINGLE PROFILES

Our specialist:  
Long Bed Milling Machine ENDURA® PRO LINEAR



704  
**ENDURA®**



**LARGE MACHINING AREA, SMALL FOOTPRINT**  
NO FOUNDATION REQUIREMENTS



**HIGH STRUCTURAL RIGIDITY**  
HIGH DYNAMICS AND ACCURACY



**HIGHLY EFFICIENT PRODUCTIVITY**  
IN THE PROCESSING OF ALUMINUM



**EASY LOADING**

## DOORS, DAMPERS, FRONT CABINETS

Our specialist:

Compact Gantry Milling Machine ENDURA® 700LINEAR







**MACHINING ON FINISHED CAR BODY**  
NO SUBSEQUENT WELDING DISTORTION

**LIFTING DEVICE INCL. SCALE CELL**  
ALIGNMENT AND WEIGHING IN ONE OPERATION

## ROTATING GEAR CONNECTIONS

Our specialist:  
Overhead Milling Machine ENDURA® 500





**ADAPTABLE DEVICE**  
BY CONTOUR PIECES



**AUTOMATED OR MANUAL**  
SETUP



**INDIVIDUAL CLAMPING FIXTURES**  
SECURE YOUR PROCESS



## CLAMPING LARGE RAIL VEHICLE PROFILES

Our solution:  
Customized clamping technology for almost any application





## MILLING AND WELDING LARGE COMPONENTS ON ONE SYSTEM

Hybrid FSW systems by FOOKE enable you to achieve better seams qualities and less rework

Parts to be welded: Main side members, side panels, floor and roof assemblies, engine front ends, among others.



**DOCUMENTATION OF DATA**  
FOR QUALITY ASSURANCE



**FORCE CONTROLLED**  
WELDING PROCESS



**DISTANCE CONTROL**  
**SEAM TRACKING**  
**GAP MONITORING**  
VIA LASER



**HIGH**  
**WELD SEAM QUALITY**





THEY NEED TO BE BIG, FAST,  
RELIABLE AND, ABOVE ALL;  
ROBUST: MILLING SYSTEMS  
FOR THE MANUFACTURE OF  
RAIL VEHICLES.

Many modern high-speed trains and trams are now manufactured worldwide from large-volume aluminum profiles and components. For this purpose, FOOKE developed milling systems and turnkey production centers in close cooperation with various customers as early as the 1990s.

As a reliable partner to our customers, we have of course consistently adapted our machines to meet the ever-increasing demands. For this reason, we are the global market leader in this segment.

In addition, friction stir welding systems (Friction-Stir Welding), welding and joining fixtures, assembly and erection stands round off our product portfolio for this industry.

Reliable, modern, economical.



## OUR KNOW-HOW FOR YOUR PROCESS!



**MORE THAN 20 YEARS OF KNOW-HOW**

*WE KNOW YOUR REQUIREMENTS*

### PROCESS CONSULTATION AND DEVELOPMENT (Turnkey solution)

Milling strategies | Machining and measuring programs

### TECHNOLOGY – MACHINEN CONCEPT (MILLING, FRICTION STIR WELDING, ASSEMBLY INSTALLATION)

Customized design according to requirements | Tool selection | Chip conveyor system

### MEASURING TECHNOLOGY

Detection of component deviation, component positions

### CLAMPING TECHNOLOGY

Individual clamping concepts | Flexible clamping systems

### DEMONSTRATION CENTER

Preliminary studies, tests and evaluation | Trials | Time studies

### PROCESS INTEGRATION AND MONITORING

Introduction and monitoring of the process | Documentation of the data for quality assurance

### HALL MANAGEMENT

Foundation design | Sound insulation







## FOOKE REFERENCES in Railway Industry

BOMBARDIER | BYD – BUILD YOUR DREAMS |

CHENGDU XINZHU ROAD & BRIDGE MACHINERY | CHANGCHUN RAILWAY VEHICLES |

CNR DALIAN LOCOMOTIVE | CSR QINGDAO SIFANG | GUANGDONG CSR JIANGMEN CITY | HAI HAMMERER ALUMINIUM

INDUSTRIES | JILIN MIDAS ALUMINIUM INDUSTRIES | LIAONING ZHONGWANG GROUP | NANNING CSR ALUMINIUM

PRECISION MACHINING | NSLE NANCHE SIFANG LOCOMOTIVE ENGINE | SIEMENS | STEP G EXTRUDET PRODUCTS |

STADLER | TANGSHAN ROLLING STOCKS | ZHENGZHOU MINGTAI TRANSPORTATION | ZHUZHOU ELECTRIC |



GET BACK ON THE RAILS WITH FOOKE!

And contact us for a consultation appointment under +49 2861 8009 – 222 or mail to [sales@fooke.de](mailto:sales@fooke.de).

