



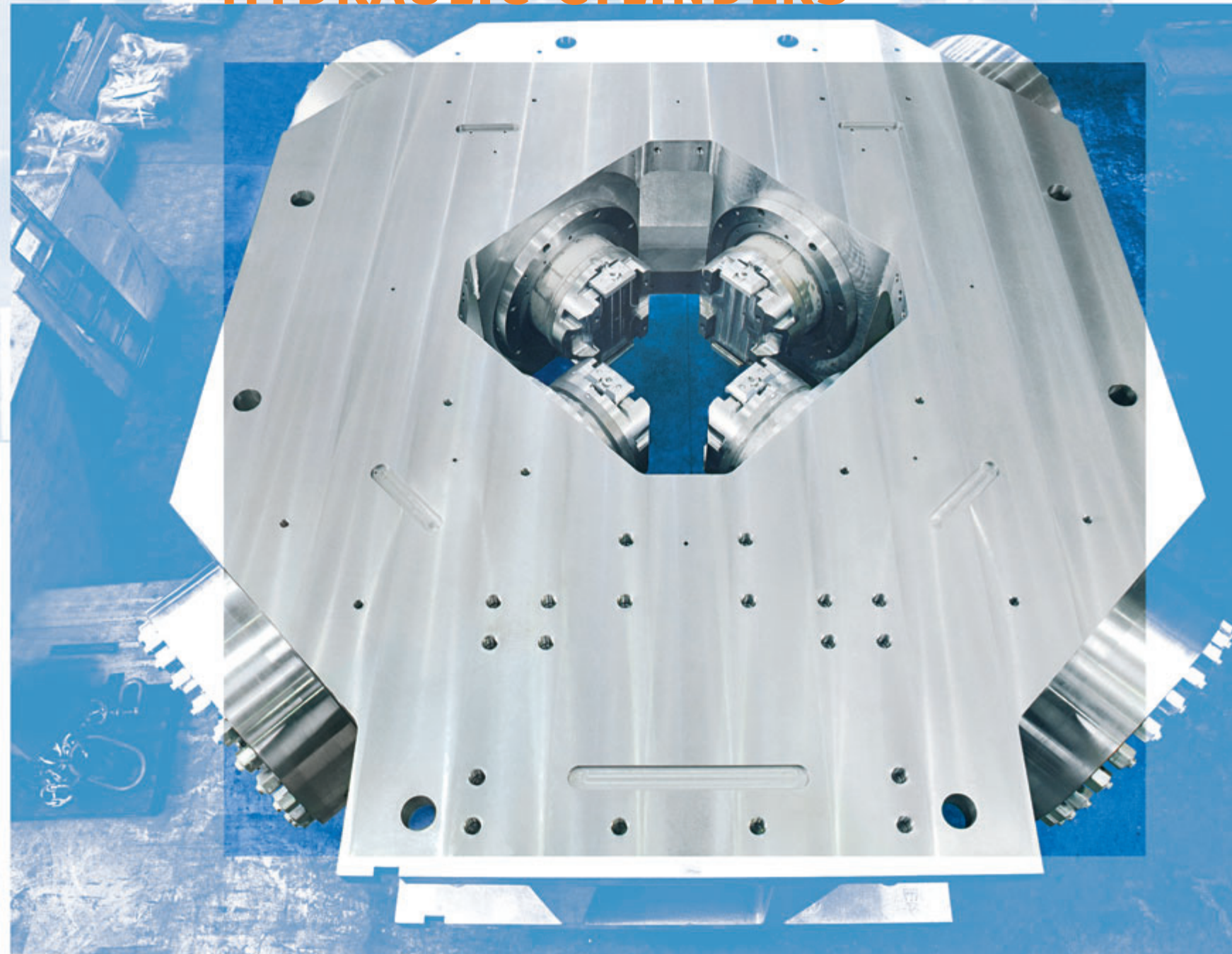
Hilfrich Hydraulik was founded in 1936 by Bernhard Hilfrich in the city of Düsseldorf. Today, in a world of rising market demands for improved technology, the company is enjoying world wide acceptance. Innovation ability and quality awareness are guaranteeing our success.

Field tested standards or special solutions achieved in cooperation with the end user are the basis for cost optimized products and customer oriented solutions. As an owner-operated organization, we believe that fast decisions, transparency, and the close contact to our customers are the foundation of a successful partnership.

Our qualified and motivated workforce, as well as our state of the art machinery provide the advantage for the future.

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PERFECTION IN  
**HYDRAULIC CYLINDERS**

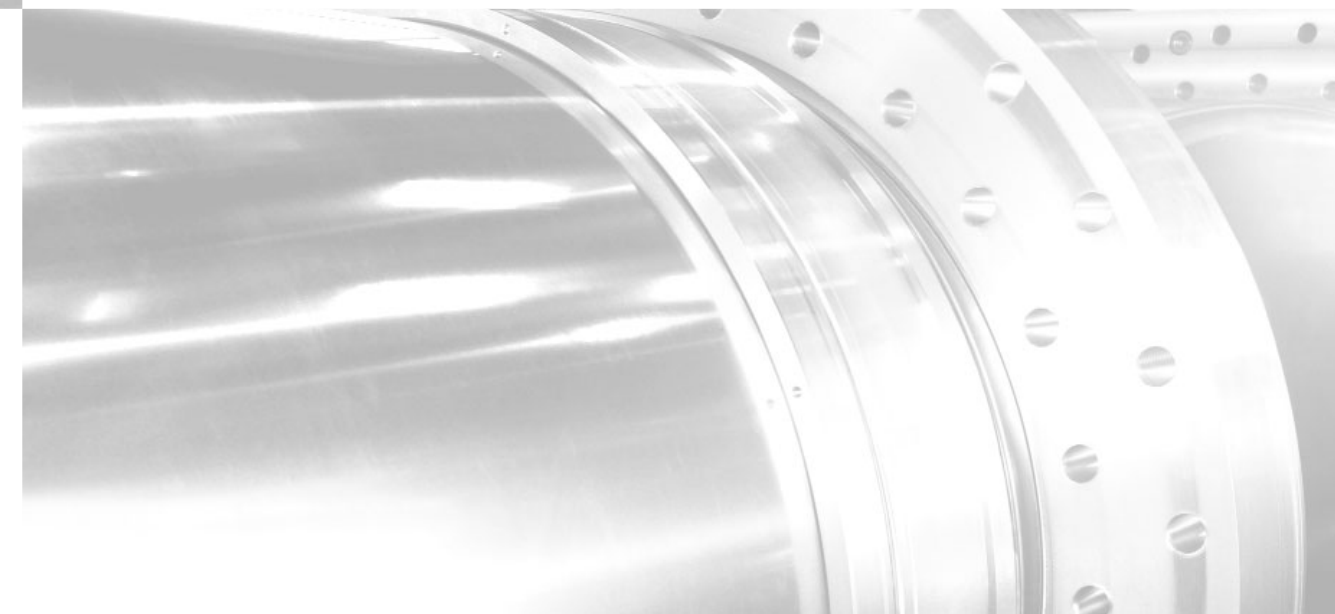


# HILFRICH



Your competent and innovative partner for conception, design and manufacturing of large-sized, heavy-duty hydraulic cylinders, standard or special customer designed.

- Lathe Work**  
up to  $\varnothing$  2,500 mm and 16,000 mm long, CNC-controlled, 5-axes
- Deep Hole Boring · Drilling**  
up to  $\varnothing$  460 mm and 12,000 mm long—also off-centre and with rotating tools
- Honing**  
up to outer- $\varnothing$  1,650 mm/bore- $\varnothing$  1,400 mm and 7,000 mm long resp. outer- $\varnothing$  1,100 mm/bore- $\varnothing$  1,000 mm and 12,000 mm long
- Grinding · Smooth Rolling · Finishing**  
up to  $\varnothing$  1,500 mm and 10,000 mm long
- Milling, Horizontal and Vertical Boring**  
up to 10,000 x 2,500 x 2,000 mm stroke/state of the art controls
- Components and Assemblies**  
up to 100 metric tons weight
- Design Quality Assurance**  
Fast decision-making process, total quality management



# Wide range of applications

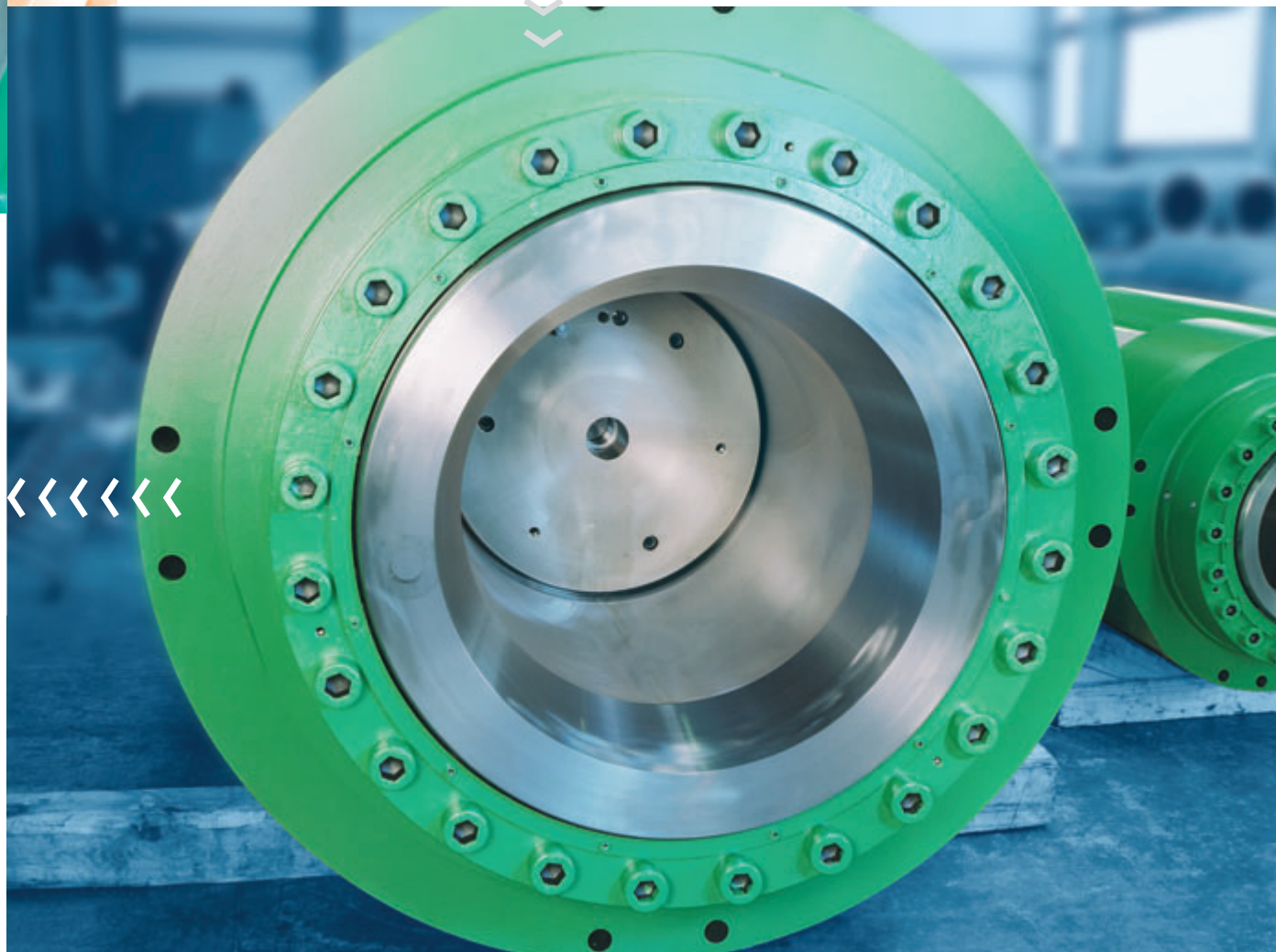


Main- and side cylinders for open-die forging press  
Ø 1,750 / Ø 1,070 x 3,500 mm length, 31 tons  
Ø 950 / Ø 545 x 3,250 mm length, 9 tons

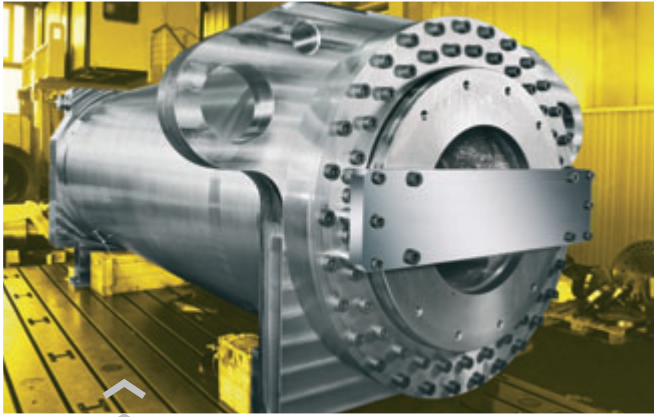
## Competence for conception and design



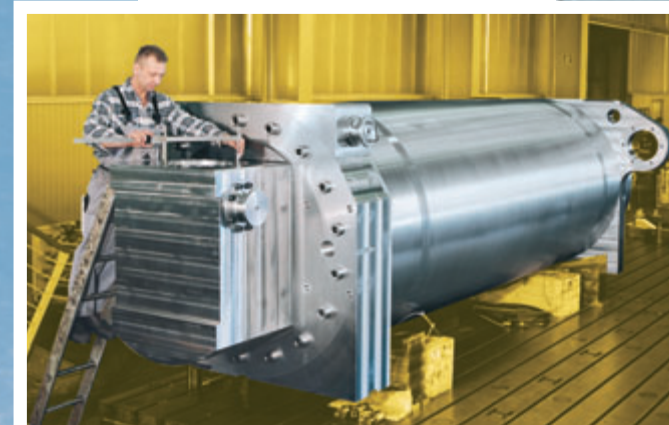
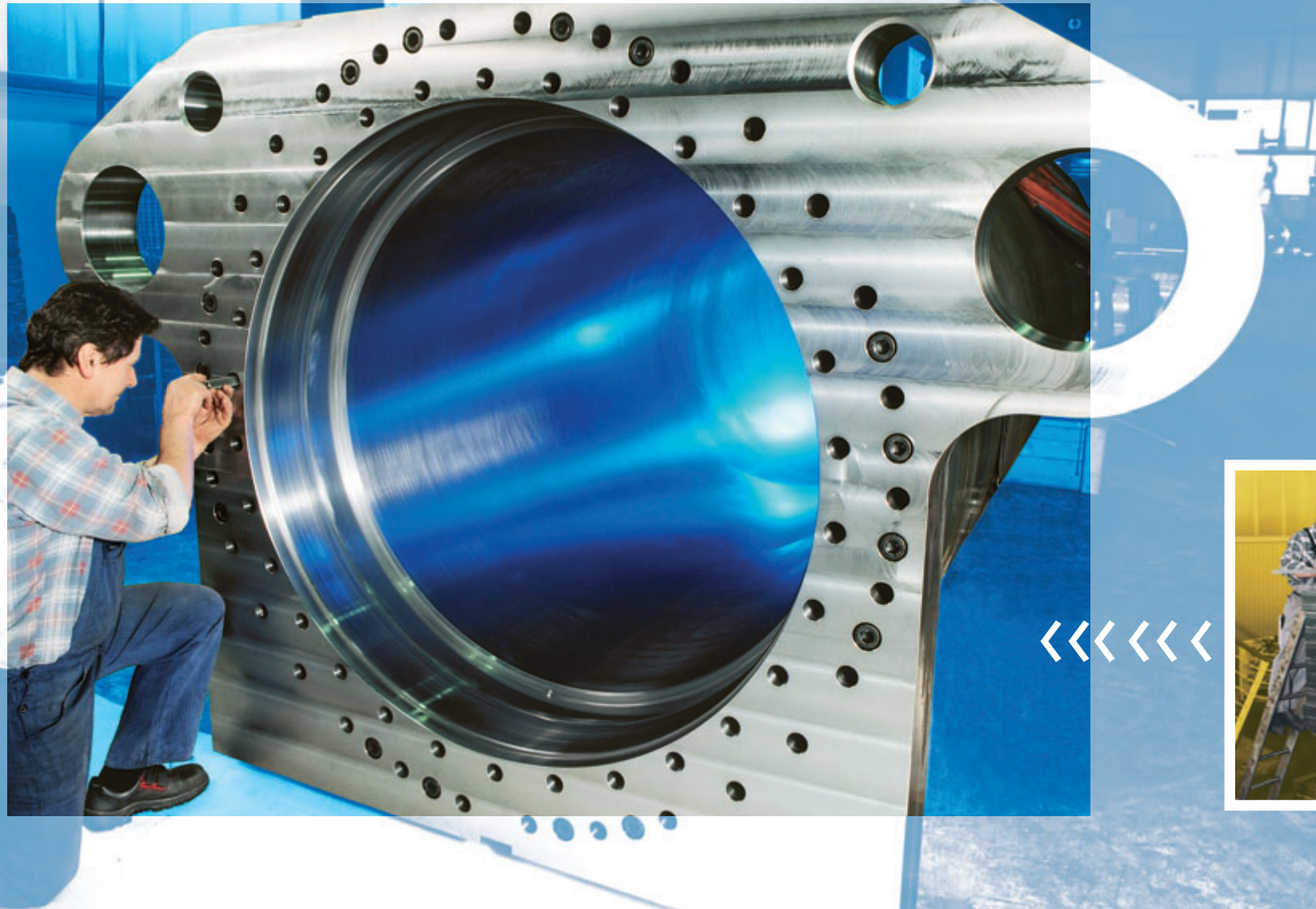
Feed cylinder (thruster) for  
manipulators in longitudinal forging press  
Ø 330 / Ø 190 x 11,500 resp. 16,200 mm length



# High quality and advanced technology

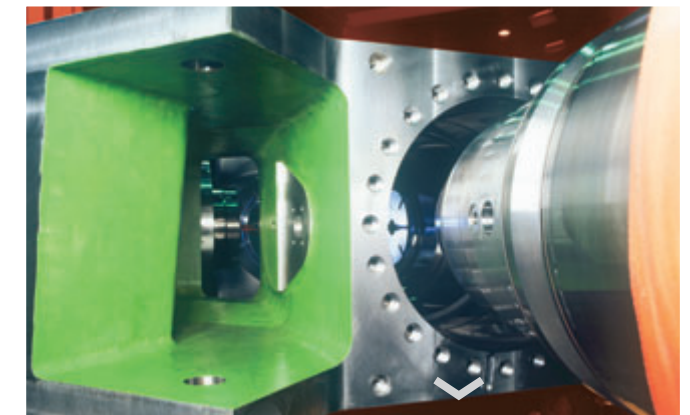
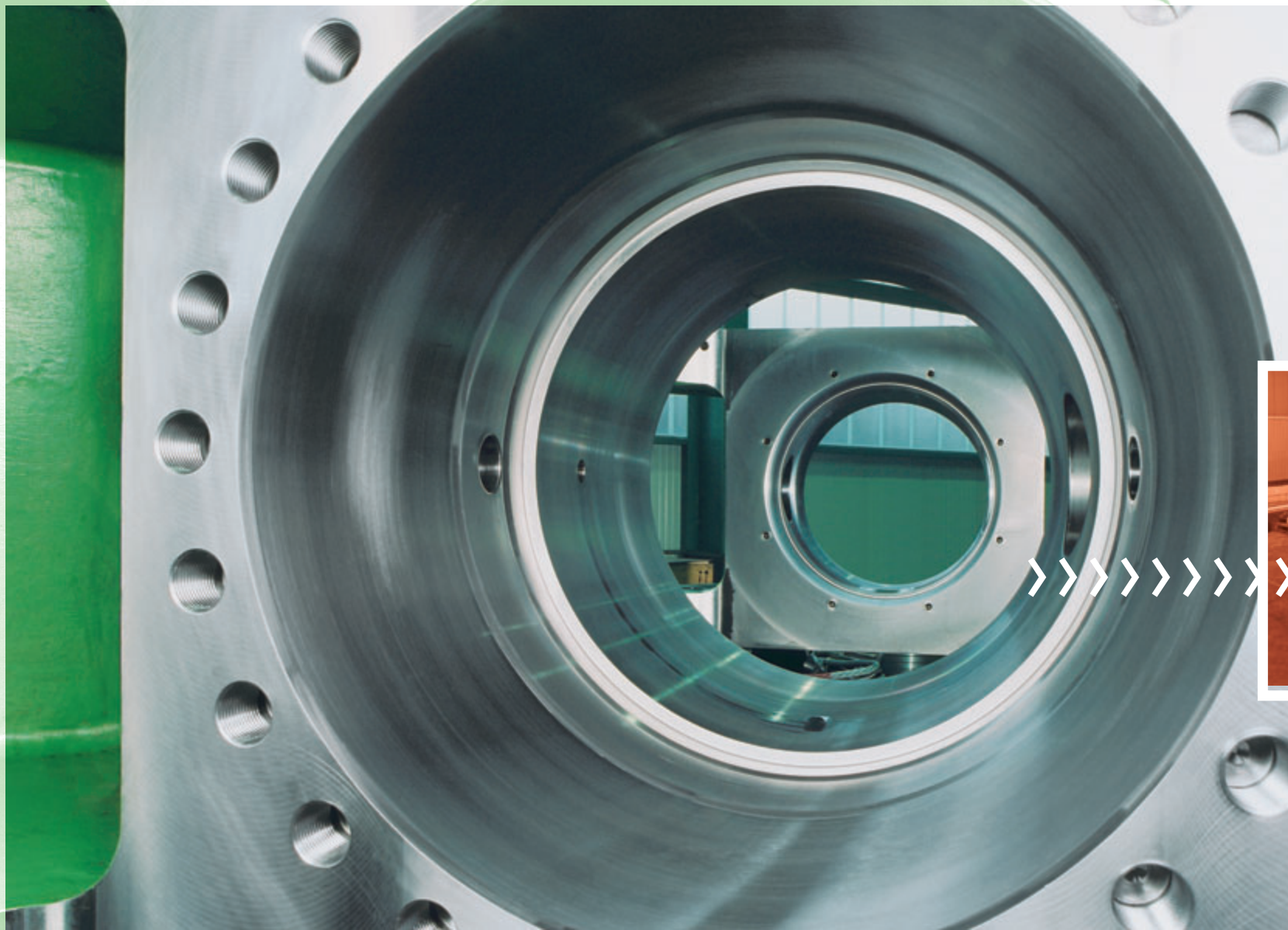


Hydrostatic cylinder for hydraulic pressure test for pipeline tubes,  $\varnothing 1,700 / \varnothing 1,260 \times 6,100$  mm length, 52 tons

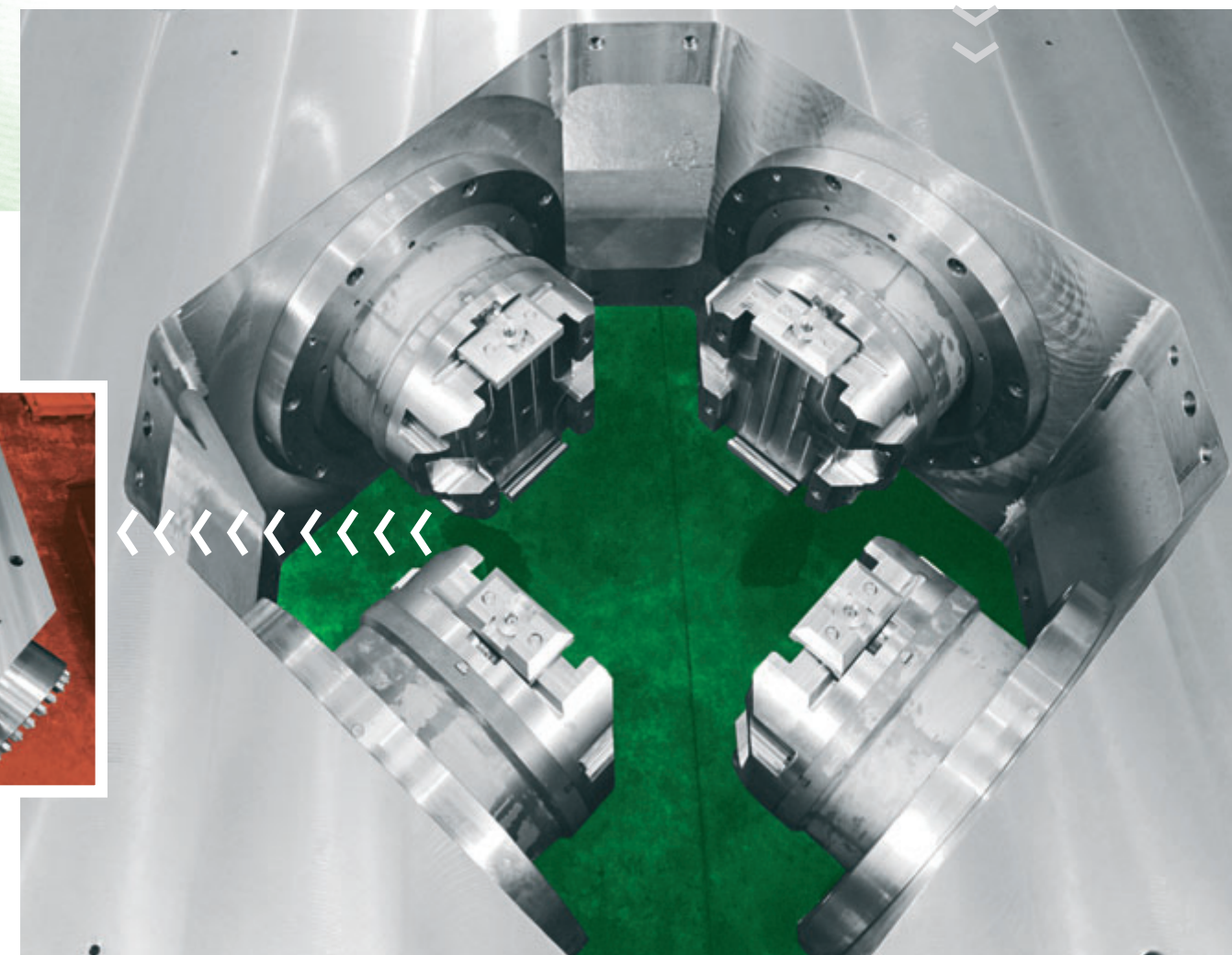
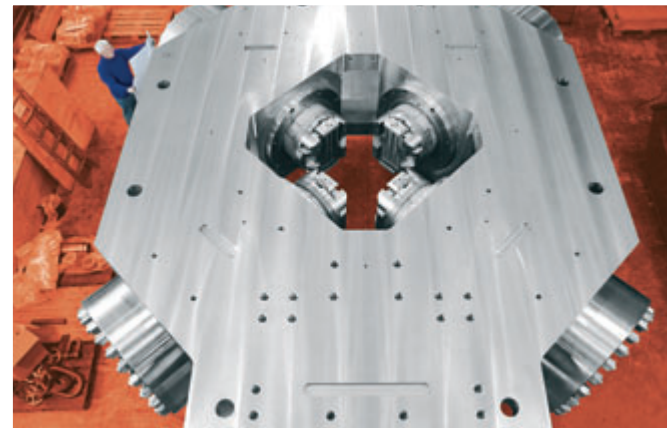


High precision

Long lasting experience,  
individual solutions



Steel casting frame 5,000 x 5,600 x 1,400 mm, 160 tons, with  
4 hydraulic cylinders, Ø 1,050 / Ø 760 x 1,700 mm length for  
longitudinal forging press



where quality counts

# PRODUCTION



6-pole motor armature, 16 tons, completely machined on a machining center

## Products

- Air pressure cylinders
- Cylinder pipes
- Coiler mandrels
- Generator rotors for gas and wind power stations
- Gear shafts
- Hydraulic cylinders
- Pistons
- Parts for naval industry
- Shafts for the rolling mill industry
- Threaded spindles
- Tension rods

and other heavy-duty, large high-precision machine elements

## Fields of Application

- Automobile industry
- Cement industry
- Electrical industry
- Gear construction
- Heavy machinery
- Mining industry
- Naval industry
- Press construction
- Rolling mill industry
- Special machinery industry
- Shipbuilding
- and others

Qualified and motivated staff—  
modern machinery

Generator shaft, milling of winding slots



Milling of threaded spindle Ø 720 x 4,000 mm for screw press



Spherical pressure ring Ø 1,875 x 510 mm for hydraulic cylinder—balancing of lateral force



Press cylinder Ø 1,090 x 3,100 mm for the automobile industry