



## SPECIAL MACHINING

### World Market Leader in Con Rod Production

- High speed and flexibility
- Highly productive and process-safe
- Extremely short chip to chip time

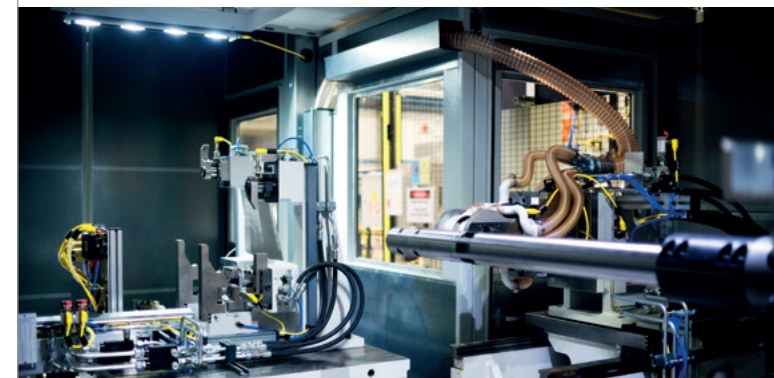


## CRACK MACHINES

### Use of the Newest Laser Technology

We are a pioneer in the development of process and technologies in the field of fracture fitting.

- Accepting high load force due to the structure of cracked surface
- Optimal position of rod and the cap during assembly
- Use of the newest laser technology



## SPECIAL MACHINING & CRACK MACHINES



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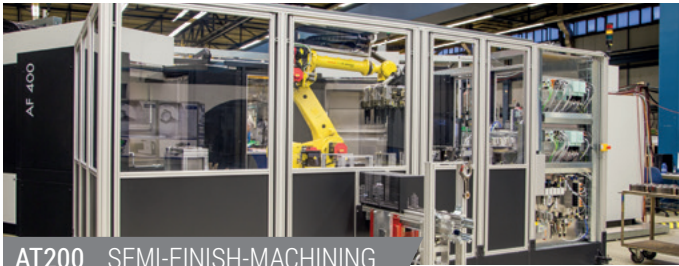
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## SPECIAL MACHINING



AX400 \_ PRE-MACHINING

- Rough bore crank and pin end
- Machining of bolt seat, bolt holes and thread cutting
- Finish machining pin end for bush insertion (with operating panel)



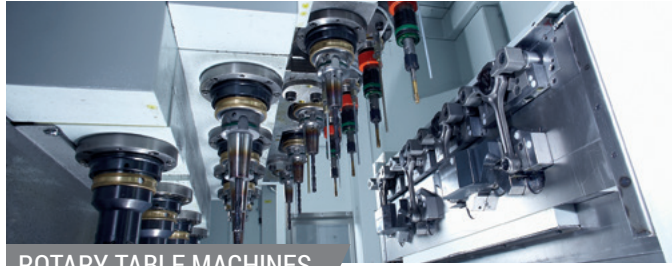
AT200 \_ SEMI-FINISH-MACHINING

- Semi-finish bore crank end
- Tee-pee machining
- Drill oil hole
- Mill lock notch
- Face milling



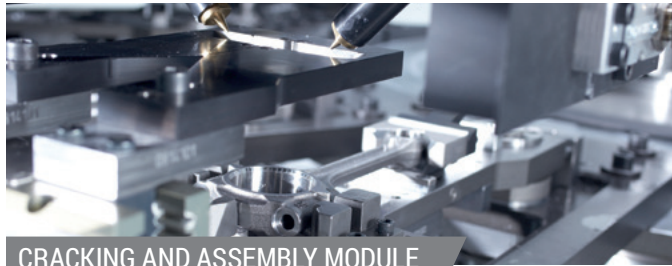
AF400 \_ FINISH-MACHINING

- Fine bore crank and pin end
- NC-controlled form and oval boring
- Roller burnish pin end



ROTARY TABLE MACHINES

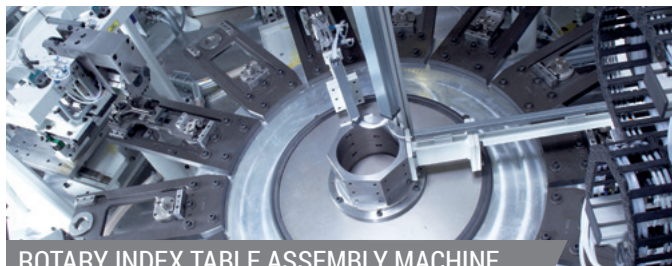
- Pre-machining
- Semi-finish Machining
- Finish Machining



CRACKING AND ASSEMBLY MODULE

Fracture splitting and assembly

- Laser scribing
- Fracture splitting
- Torquing



ROTARY INDEX TABLE ASSEMBLY MACHINE

Fracture Splitting and Assembly

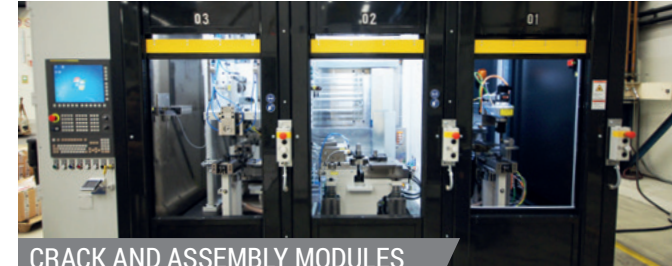
- Laser scribing
- Fracture splitting
- Torquing
- Bush insertion

## CRACK MACHINES



FRACTURE SPLITTING OF BEARING CAPS

Fracture splitting process for bearing caps on motor blocks. As early as 2003, the first worldwide, fully automatic cracking machine for a 6 cylinder truck engine was delivered.



CRACK AND ASSEMBLY MODULES

Crack and assembly modules were specially developed for the fracture splitting and assembly of connecting rods with low and medium size production requirements. The manually loaded machine with its modular design allows free process flow.



ROTARY TABLE ASSEMBLY MACHINE

Rotary table machines are the optimal solution for the fracture splitting and assembly of connecting rods. Shortest cycle times guarantee high productivity. The modular design allows the realization of different process steps within the machine.