



TRANSMISSION

With world-leading expertise, we manufacture gearwheels and flanges at various stages of the value chain. Our manufacturing procedures for shafts used in manual and automatic transmissions are based on state-of-the-art forging processes and their resulting optimized combinations. In addition, proven friction welding and

pressing technologies as well as innovative assembly processes (Tekmount® technology) are used. This enables us to produce components such as internal synchronizer rings, reverse gears with fully pressed toothing as well as ready-to-use bevel gears and all types of finished splines.

SHAFT FOR MANUAL TRANSMISSION

- Large scale production of drive shafts
- Possibility of manufacturing assemblies with friction welding technology
- We are able to develop a specific part together with our customers

SHAFT FOR DUAL CLUTCH TRANSMISSION

- Ready-to-install internal geometry using rotary swaging technology
- High energy efficiency and economy through multi-stage pressing and combination of several operations
- Mechanical part processing with defined pick-up points for further processing possible

SLIDING SLEEVE

- Cold pressed synchronous gears are produced on specially designed presses and press tools developed by us.
- Longer service life when worn and under loads than other manufacturing processes
- The component is torque-resistant in both directions of rotation

INTERNAL SYNCHRONIZED RING

- High surface strength possible due to hot and cold-formed materials and additional heat treatment
- Support in the selection of materials and heat treatment to achieve customer-specific requirements
- Near-series prototype production and simulation

FREEWHEEL RING

- Highly efficient production on Hatebur presses
- Mechanical processing on robot cells
- High-precision production through adapted machining processes

INPUT SHAFT

- In-house developed process for cold forming of internal gearing
- Unique normalization process after hot forging, which guarantees an homogeneous microstructure and smaller differences in hardness
- Efficient production process on Hatebur presses

PILOT HUB

- Highly complex, ready-to-install component
- Manufactured by a combination of forming and precise machining
- Efficient forming on Hatebur high-speed forging presses

