

WHY COLD FORMING?





FACTS & WORTH KNOWING

WHETHER PRODUCED ON YOUR OWN MACHINE OR FOR YOU IN OUR SUBCONTRACTING DEPARTMENT – COLD FORMED PRECISION SPLINES PROVIDES YOU WITH MARKET ADVANTAGES.

QUALITY

- · Surface roughness (Ra 0.4) or better
- · Consistent accuracy even over very long splines
- · Constant dimensional accuracy, as there is no tool wear
- Minimal distortion during hardening

FLEXIBILITY

- · Spline diameters up to Ø 250 mm
- · Up to module 7
- · Splines up to 15 m long
 - → Larger dimensions upon request
- · Various tooth geometries can be formed
- · Forming of high-strength and stainless steels
- Freely programmable forming parameters

PROCESS-RELATED ADVANTAGES

- Microstructure improvement through work hardening
- · No cutting of natural material grain flow
- · Optimal root fillet
- → This leads to an improvement in mechanical properties such as homogeneity, superficial surface hardness (up to 50%), torsional strength and yield strength, resulting in a significant increase in the lifespan of the spline

COST SAVINGS/EFFICIENCY

- · Short cycle times
- · Resource-saving due to chipless forming process
- Fewer manufacturing steps as post-processing (e.g., grinding) is usually not necessary
- Low tooling costs
- Highly efficient machines
- · Reduced part and handling costs through optimized processes

