



— SWITZERLAND —



INTERMITTENT FORMING



ERNST GROB AG

Cold forming machines & Slotting machines

Rohrgasse 9

Box 830

CH-8708 Männedorf

Tel. +41 44 922 77 00

info@ernst-grob.com

www.ernst-grob.com



Sheet metal part formed up to flange.

Solid stock formed up to flange.

Intermittent forming

Technology

GROB intermittent forming closes a technical process gap in forming technology and now offers new potentials for the highly efficient production of complex components.

Thanks to our newly developed kinematics, splines can be formed without the need for axial feed and with very short spline fillets.

This enables the forming of a diversity of geometries, such as helical, herringbone and customised splines. Corrections (flank line modification, crowning) in axial and radial directions can also be generated within the workpiece.

Applications

GROB cold rolling machines equipped with quick-change couplings can be converted from the conventional cold rolling process to intermittent forming with minimal downtimes.

This superior flexibility and modularity offers significant savings on shorter production runs. The extremely short cycle times, however, also permit maximum productivity with higher volumes, including large-scale series output.

Benefits

The possibility of manufacturing complex geometries allows several functions to be combined in individual components. Characteristic for workpieces produced by intermittent forming are their optimal precision and surface finishes, combined with the other familiar benefits of cold forming: work hardening, enhanced material structures, material savings etc.



Intermittent forming

- ▶ GROB quality
- ▶ Very short cycle times
- ▶ Splining up to flange
- ▶ Universal application, short changeover times
- ▶ Maintenance friendly