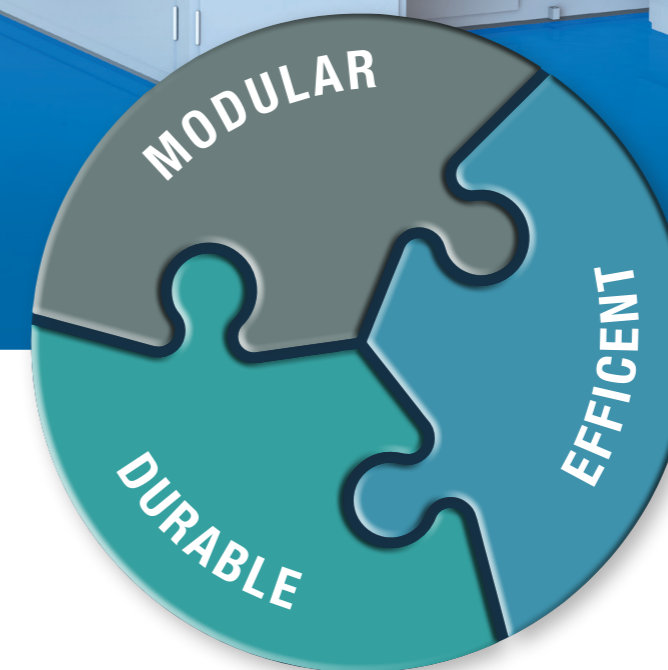




## COLD FORMING MACHINES



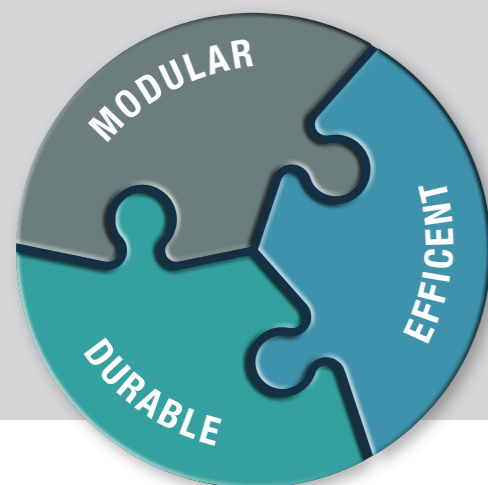
**ERNST GROB AG**  
COLD FORMING MACHINES  
SPECIAL PURPOSE MACHINES  
SLOTING MACHINES

Rohrgasse 9      T + 41 44 922 77 00  
Box 830      info@ernst-grob.com  
CH-8708 Männedorf      www.ernst-grob.com

**ERNST GROB AG**  
SWITZERLAND



## One modular kit – unlimited application options



### Excerpt of the configuration potentials of the A-Series

Benefitting from the modular system, all machines of the A-Series can be ideally configured to suit your specific requirements.



Splining of hollow shafts for lightweight constructions

Concave, convex or conical profiles and tooth alignments

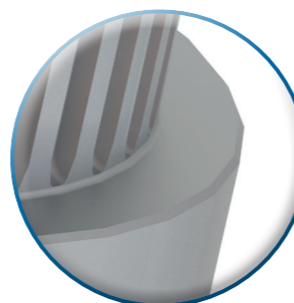
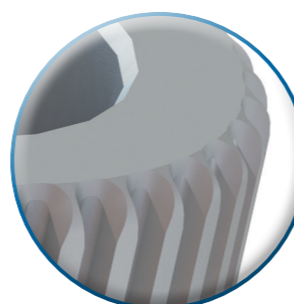
Generation of multiple splines in one clamping operation

Simultaneous chamfering and splining

Symmetrical or asymmetrical pitches

Splining up to shoulders

Involute and special-purpose profiles



Special-purpose spline geometries

With the A-Series, Grob continues its long tradition of building machines dedicated to splining by the cold forming process.

Components produced by the resource-conserving Grob cold forming processes exhibit superior dimensional accuracy and strength properties, while offering an infinite choice of design options.

The system can be equipped and configured to combine various forming technologies.

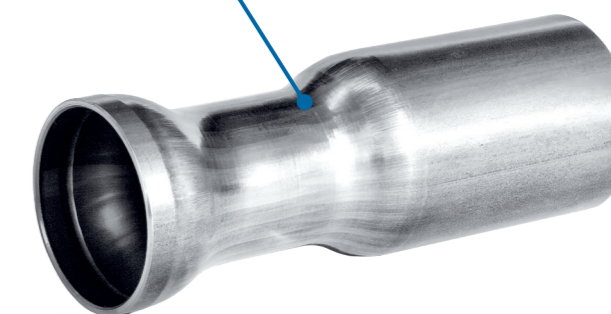
#### These include the following options:

- Roller head** ▶ Conventional splining
- Intermittent roller head** ▶ Splining up to shoulders
- Slotting head** ▶ Special-purpose geometries
- Shifting axis** ▶ Generate up to 3 splines in a single clamping operation
- Torque motor** ▶ Rapid changeover times with maximum flexibility and performance



Sheet metal forming

Necking and reduction



## Contact us – we are ready to take on your challenge!