

# INNOVATION

## Hydraulic horizontal forging machine type HWS

### DESIGN CHARACTERISTICS:

- ▶ Separate hydraulic drives for upsetting and clamping
- ▶ Clamping force 50 % higher than upsetting force
- ▶ Adjustable overlapping of clamping and upsetting drive
- ▶ No tong motion in the clamping drive

### TECHNICAL DATA:

Sizes*	Upsetting force (kN)	Clamping force (kN)
HWS 200	2.000	3.000
HWS 315	3.150	5.000
HWS 400	4.000	6.000
HWS 500	5.000	7.500
HWS 630	6.300	10.000
HWS 800	8.000	12.000
HWS 1000	10.000	15.000
HWS 1250	12.500	19.000

\*other sizes on demand!

### SPECIAL SUITABILITY:

- ▶ Gradual upsetting of volume and finish forging (e. g. flanged shafts, rear axle shafts, steering racks, brake camshafts, turbine blade roots - midspans and shrouds)
- ▶ Extrusion of hollow parts (e. g. axle tubes)

Good **automation** capability is a prerequisite for multiple use of the dies.

