



DROP FORGING TECHNOLOGY

Regarding this **forming technology** rolled rough material is transformed cold or warm in two-or multi part tubular moulds (closed-dies) using drop forging hammers or presses.

The structure of the basic material remains intact applying excellent mechanical properties to drop forging dies parts. These forged forming parts have got **high elastic properties**, are **ductile and represent dynamic resistance**. Sudden overloaded construction parts do not break brittle but reduce maximum tension through plastic flow off and this without any constructional efforts.

The already existing **very good mechanical properties** can be supplementary optimized by heat treatment of the construction elements. Based on this production method very good pre-conditions are created for a later machining.

By processing combinations as warm-cold forming or cold coining, **dimension accuracy** can be reached which may avoid additional machining.

D R O P F O R G I N G P A R T S

Materials:	Steel, alloy steel and stainless steel according to DIN, EN, ISO, ASTM, BS, JCSI.
Weight per piece:	0.05 to 1,000 kg.
Dimensions:	Depending on shape and weight.
Quantities:	Medium and large series.
Machining:	All current processing methods, CNC and conventional machining.
Surface treatment:	Hot-dip galvanising, galvanising, Cr6 free coating, glass balls and shot blasting, priming, electro-polishing, tumbling, burnishing, pickling, passivating, lacquer finishing.
Quality control:	Chemical analysis by spectrometer, mechanical properties for tensile strength, yield stress, impact test, ultrasonic testing, Magnaflux inspection, liquid penetrant test, 3-D co-ordinate CNC measuring machines, micrography.
Approval:	TÜV, Det Norske Veritas (DNV), Lloyds Register Of Shipping, NKK (Nippon Kaiji Kyokai).
Quality System:	EN/ISO 9001:2000 - ISO/TS 16949:2002.
Special approval:	TRD 100 AD-W0 and PED 97/23/EG by for materials according to DIN 17100, 17440, 17243, 17103, VDTÜV 364/399.