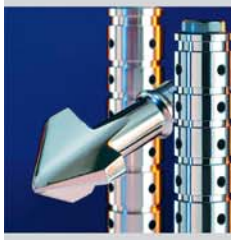

Materials processed by BEUTTER

Beutter uses all machinable materials. These are procured exclusively from qualified manufacturers/dealers in Germany and abroad, and are accompanied by either a quality control report or an acceptance certificate. Stockkeeping is organised by batch, so that traceability is always ensured even for the finished components.
Below are some examples of materials with which we have worked in the past:

Material group	Examples
Structural steels, heat-treated steels case-hardening steels, nitriding steels	St37, C45, S235JR, 14NiCr14, 20NiCrMo2-2, 16MnCrS5, 42CrMo4, 30CrNiMo8, 31CrMoV9, 34CrAlMo5
Free-cutting steels	9SMnPb28, 46SPb20, 11SMn30
Bearing steels, tool steels	100Cr6, 115CrV3, X210CrW12, HS6-5-2, HS18-1-2-10
Spring steels	56Si7, 51CrV4, 1.4310, Duratherm
Stainless valve steels	1.4034, 1.4112, 1.4125
Rust- and acid-resistant steels	1.4301, 1.4305, 1.4401, 1.4435, 1.4542, 1.4548, 1.4571, 15-5PH, 17-4PH
Implant materials	1.4441, Elgiloy, Rex 734
Highly corrosion-resistant and heat-resistant materials	1.4828, 1.4878, Hasteloy, Haynes 25, Inconel, Nimomic, NiCrTiAl
Magnetically soft materials, glazing alloys	Armco, Reineisen, Permenorm, Vacoflux, Vacon, Invar, NiFe46, NiCo29-18
Aluminium	Al99, AlCuMgPb, AlMgSi1, AlZnMgCu0,5, EN AW1-7xxxx, Aviation Alloys
Cu alloys	Electrolytic Copper, Cu-Be, Brass, Bronze, New Silver, ARCAP
Titanium for use in medical technology	ASTM-F 67, ASTM-F 136, DIN ISO 5832
Titanium for mechanical engineering and aviation	ASTM-B 348, ASM 4928, MIL T 9 047 G, TiAl
Sintered metals, matrix composite materials	Stellite, Ferrotitanit, Densimet, MMC
Pure metals	Nickel, Zirconium, Molybdenum, Tantalum
Noble metals	Platinum, Pt-Ir, Gold
Machinable ceramics	Macor
Plastics	PA, PVC, POM, PTFE, PE, PI, PEEK, PMMA, GFK, Torlon, Chirulen (PE-UHMW), antibacterial/implantable plastics according to ISO 10993

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