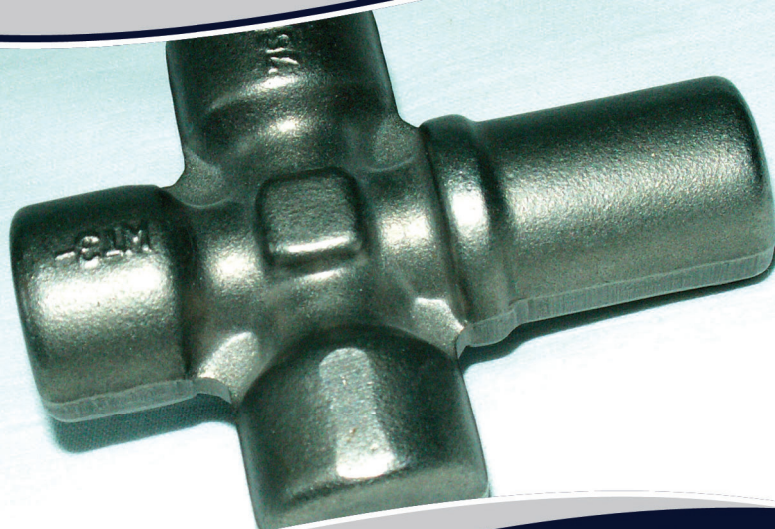


Ti

Titanium alloys

Material information



Die forgings
Open die/hand forgings



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Ti

Titanium alloys

Material information

Basing on 50-year experience we offer the highest quality open die/hand and die titanium alloys forgings designed for aircraft and many other branches of industry. Our titanium forgings are used for critical parts and components in helicopters, planes and many types of aircraft engines. Applications: highly-stressed structural components, engine compressor impellers and disks with optimized strength, high-strength connecting rods, etc.

Moreover, we also design and produce essential forging tools such as: dies, trimmers, housings, electrodes and various devices for processing. Preliminary machining processing are available on request.

Our titanium forgings have a number of outstanding properties:

- low density and a high specific strength resulting in a reduction of weight
- excellent corrosion resistance
- high static and dynamic strength
- low elasticity modulus
- good high temperature strength
- good workability

Material code	Chemical composition (%)								
	Al	Mn	Mo	V	Cr	Sn	Si	Fe	Ti
Ti6Al4V	5,5-6,75	-	-	3,5-4,5	-	-	-	-	balance
BT3-1	5,5-7,2	-	2,0-3,0	-	0,8-2,0	-	0,15-0,2	0,2-0,7	balance
BT1-0	0,7 max	-	-	-	-	-	-	-	balance
BT1-00	0,3 max	-	-	-	-	-	-	-	balance
BT-22	4,4-5,7	-	4,0-5,5	4,0-5,5	0,5-1,5	-	-	0,5-1,5	balance
OT4	3,5-5,0	0,8-2,0	-	-	-	-	-	-	balance
OT4-0	0,4-1,4	0,5-1,3	-	-	-	-	-	-	balance
OT4-1	1,5-2,5	0,7-2,0	-	-	-	-	-	-	balance

- technology – hot forging
- die forgings from 0.05 to 5.00 kg
- open die/hand forging up to 10.00 kg
- largest projected area up to 200 cm²
- delivery condition: isothermal annealed

