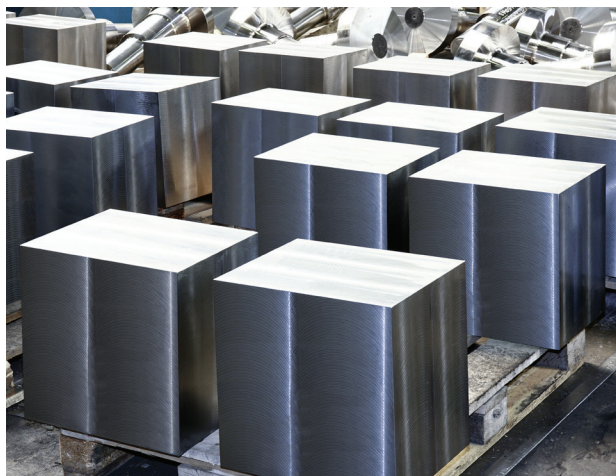
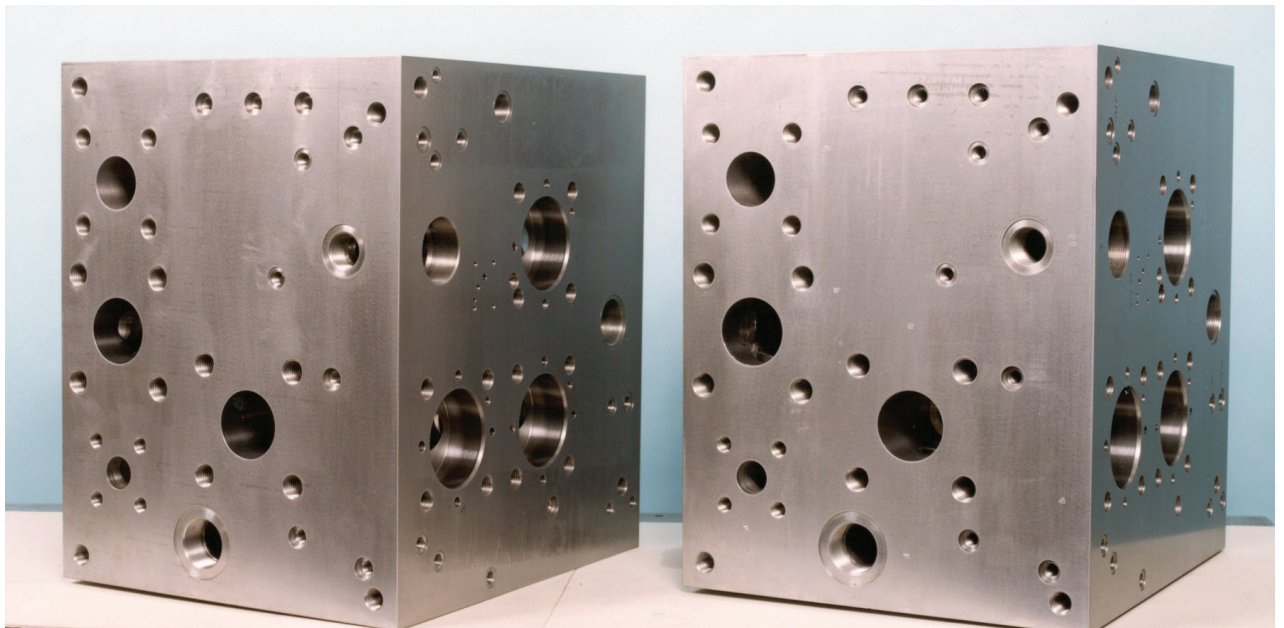




Material Data Sheet HYT 60®



This special structural steel HYT 60® is most suitable for the construction of valves and hydraulic parts because of its excellent machinability on drilling and milling.

Its perfect homogeneity and oil density permits the use even under high pressure. Superfinishing achieves very fine surface roughness, which provides an excellent sealing facing and fitting.



Material Data Sheet HYT 60®

Delivery program

Delivery condition	annealed / controlled cooling, „special heat treatment“
Product	forged, in standard length of 3 - 6 m or single forged

Chemical composition

Reference analysis	C	Si	Mn	P	S
in %	0,33	0,25	1,5	< 0,04	0,2

Mechanical properties in annealed and in controlled cooled condition

			ultimate strain	notched impact strength (long. RT DVM)
Dimension	Yield point	Tensile strength	A5 long.	test temperature 20° C
< 250 mm	> 305 N/mm²	550 - 680 N/mm²	> 12 %	> 15 J
250 - 400 mm	> 290 N/mm²	550 - 680 N/mm²	> 11 %	> 12 J
410 - 700 mm	> 250 N/mm²	450 - 580 N/mm²	> 10 %	> 10 J

Hot forming and heat treatment

Forging	850 - 1.200° C	ultrasonical testing acc. to EN 10228-3, grid testing, quality class 2, additional ultrasonic testing on request
Soft-Annealing	630 - 680° C	

Mechanical properties for „special heat treatment“ condition

			notched impact strength (long. RT ISO V)	
Dimension	Yield point	Tensile strength	test temperature 20° C	- 20° C
< 250 mm	> 380 N/mm²	> 550 N/mm²	> 50 J	> 25 J
250 - 350 mm	> 350 N/mm²	> 550 N/mm²	> 40 J	> 23 J

