1.4404 (X2CrNiMo17-12-2) solution- annealed and quenched

1.4404 (X2CrNiMo17-12-2) directly from stock & cut to your required dimensions!

International term:	AISI 316L / SS2347
	AFNOR Z3CND17-11-02

Application field:

1.4404 is an austenitic stainless chromium-nickel-molybdenum steel with low carbon content. Due to the addition of 2 to 2.5% molybdenum the corrosion resistance from 1.4404 compared to standard austenitic grades 1.4301 and 1.4307 is much better. In welded condition 1.4404 is resistant to intergranular corrosion but not to seawater! Best corrosion resistance is achieved with polished surface.

Due to the lower carbon content compared to 1.4401, 1.4404 is a little better. It is mainly used in the automotive industry, chemical industry, construction industry, oil industry, petrochemical industry, food industry, medical and pharmaceutical industries, for engineering, decorative applications and kitchen utensils, aviation and electronic equipment.

Characteristics:

Weldability: excellent

Machinability: 6 (1 = bad - 10 = good)

Polishing: yes

Corrosion class: 4 (0 = weak - 5 = good)
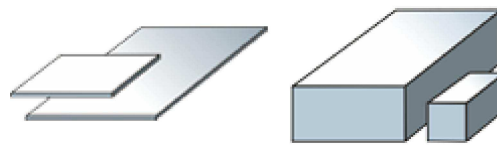
Chemical composition:

1.4404 X2CrNiMo17-12-2	C	Si	Mn	P	S	Cr	Mo	Ni	V
min.						16,5	2,0	10,0	
max.	0,07	1,0	2,0	0,045	0,015	18,5	2,5	13,0	

1.4404 X2CrNiMo17-12-2	Al	Cu	N	Nb	Ti	Sonstiges
min.						
max.			0,11			

From stock:

Plates, rolled
Flat, forged

Benefit of sawn cuts:

The processing with the saw is a mechanical processing of the material, which results in a significantly lower unintended deformation and increased hardness for the existing structure, such as the thermal cutting.

Thus, the machined workpiece has a homogeneous structure even at the edge, which does not change in the continuation of the material. This circumstance allows immediate finishing of the workpiece with milling or drilling . So it is not necessary to anneal the material or make a similar operation beforehand.