

STAINLESS STEEL SOLUTIONS



Products
catalogue

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ABOUT US

Italy's leading stainless steel service center

Terninox S.p.A. is the market leading finishing center for stainless steel in Italy. Founded as a private service center, owned since 2003 by the thyssenkrupp group, Terninox combines the best from its private and mill heritage.

The team of commercial and technical experts is based in Milan, Florence and Venice. Thanks to the close relationship to Acciai Speciali Terni and the focus on high service and quality, Terninox is able supply the most demanding customers all over Europe.

Founded as private SSC

Joined **AST** and
thyssenkrupp
in **2003**

Based in **Milan**
Offices in Florence and Venice

200 Mio Euro/Year
Turnover around

16.000 tons
Stock availability

50 trucks/day
Supply chain solutions

Certified
Quality & Environment
ISO 9001 & ISO 14001



OUR VISION

**Be the best Stainless SSC
in Europe with focus on surface
& quality solutions.**

OUR MISSION

**Increase our customers competitiveness
through exceptional surface
quality and flexible solutions performed
by our professional employees.**

Value for our partners

Starting from our customers' technical and commercial needs, our experts define individual business solutions in order to provide the best-in-class service. The combination of tailor made services and high-consistent product quality ensures that our customers focus on what they can do best. We offer services for different needs including material sourcing, a wide range of grades & surface finishes, packaging and supply chain solutions.



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BEST IN CLASS SERVICES

Cutting, slitting and finishing

OUR FULLY EQUIPPED MANUFACTURING PLANT

SLITTING MACHINES

Slitter and slittering line
for cold-rolled coils



SCOTCH BRITE MACHINES

Scotch brite and grinding line
for cold-rolled coils



CUT TO LENGTH MACHINES

Levelling and cutting lines
for cold-rolled sheets



TAMPICO AND MIRROR MACHINE



SHEARING MACHINES

Shearing line
for square sheets

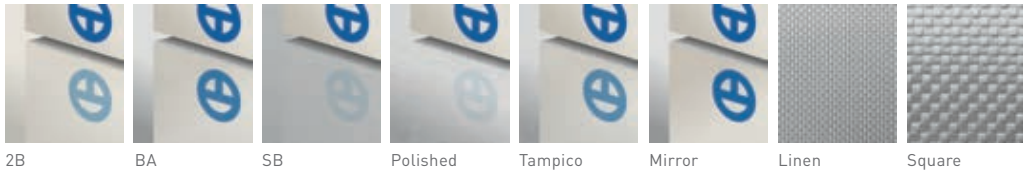


BEST IN CLASS SERVICES

Quality finishes surface

We are able to offer a wide range of surface finishes and protections in order to improve the aesthetics and technical performance of the stainless steel, depending on customers need and final application. With the support of Acciai Speciali Terni we continue to develop new finishes and products.

FINISHES					
DESCRIPTION	AISI ASTM A 480	EN 10088-2	FINISH / GRAIN SIZE	SURFACE CONDITIONS	COMMENTS
Cold rolled, annealed, pickled and skinpassed	2B	2B	2B	Smoother than 2D	Most common finish to ensure good corrosion resistance, smoothness and flatness
Cold rolled, bright annealed and light skinpassed	BA	2R	BA	Smoth, bright, mirror-like	Smoother and brighter than 2B
Polished	3	2K	3	Dull	Unidirectional texture
Polished	4	2K	4	Polished, bright	Unidirectional texture
Polished	6	2K	6	Not very reflective	Unidirectional texture
Duplo	4	2K	Duplo	Soft bright polished	Unidirectiona texture, Ra < 0,5µm
Scotch Brite		2J	Scotch Brite	Bright	Brushed with unidirectional texture
Pattern on one side		2M	Patterned	Different designs available	Excellent textured finish mainly for architectural applications
Tampico	2B/ BA	2P	Tampico finish	Shiny	High performance finish for medical and architecture
Mirror	BA	2P	Mirror finish	Shiny and glossy	High performance finish for medical and tanks



“Thanks to our expertise and manufacturing skills, we provide finishing with the right level of quality for the customer application, ensuring consistency and highest standards over time.”

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PRODUCT RANGE

Stainless steel flat products

Quality, aesthetics and performance.

Our technical and commercial departments support the selection of the most suitable products.

Starting from the final application and product of the stainless steel, we evaluate together with our customer various factors to identify the most suitable combination of technical and commercial specifications.



PRODUCT PORFOLIO

		FERRITIC		AUSTENITIC						
		FERRO CHROME	FERRO CHROME STABILIZED	FERRO CHROME NICKEL						FERRO CHROME NICKEL MOLYBDENUM
ACCIAI SPECIALI TERNI		430	441 LI	304	304 DL	304 MSA	304 MS	304 PSA	304 PS	316 L
EN 10088-2		1,4016	1,4509	1,4301	1,4307	1,4301	1,4301	1,4301	1,4301	1,4404
COLD ROLLED COILS AND SHEETS	2B	✓ *	✓	✓	✓	✓	✓	✓	✓	✓
	BA	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Patterned	✓	✓	✓	✓	✓	✓	✓	✓	✓
TYPICAL COMPOSITION	C	0,04	0,02	0,04	0,025	0,04	0,04	0,04	0,04	0,03
	Cr	16,2	18,2	18,2	18,2	18,2	18,2	18,2	18,2	16,7
	Ni	-	-	8,1	8,1	8,1	8,6	8,6	9,1	10,3
	Mo	-	-	-	-	-	-	-	-	2,1
	Others	-	Ti, Nb	-	-	Cu	-	Cu	-	-
MECHANICAL PROPERTIES AT 20 °C - TYPICAL VALUES	0.2% Yield Strength Mpa	300	300	270	250	260	250	250	250	270
	Rm tensile Strength MPa	500	470	650	630	630	630	620	600	580
	Elongation A% A ₈₀ (thickness <3mm) A5 (thickness ≥3mm)	27	28	54	54	56	56	58	58	52
FOOD CONTACT D.M. 21/3/73		✓	✓	✓	✓	✓	✓	✓	✓	✓
CORROSION RESISTANCE	General	+	+	++	++	++	++	++	++	+++
	Pitting	+	++	++	++	++	++	++	++	+++
	SCC	++	++	o	o	o	o	o	o	o
	Heat resistance	+	+++	++	++	++	++	++	++	++
COLD FORMABILITY		+	++	++	++	+++	+++	++++	++++	+++
WELDABILITY		+	+++	+++	++++	+++	+++	+++	+++	++++

DIMENSIONS

Produced to the individual need to enable high utilization and low scrap rate.

COLD ROLLED COILS				
STEEL GROUP	THICKNESS mm		WIDTH mm	
	FROM	TO	FROM	TO
304/430	0.4*	0,.49	5	1270
	0.5	3	6	1520
316/441	0.4*	0.59	5	1270
	0.6	3**	6	1520

* 0,35 mm thickness availability to be checked upon request

** up to 5 mm thickness availability to be checked upon request

COLD ROLLED SHEETS					
THICKNESS mm		WIDTH mm		LENGTH mm	
FROM	TO	FROM	TO	FROM	TO
0.4*	1.5	150	500	250	3000
0.4*	3**	501	1000	500	6000
0.4*	3**	1001	1520	1000	6000

* 0,35 mm thickness availability to be checked upon request

** up to 5 mm thickness availability to be checked upon request

“Our attention to individual customer needs is the starting point for us to provide tailor made products and solutions.”

TOLERANCES

Tight quality controls to ensure that customers consistently receive the best quality for their products.

The dedication to quality makes it possible to supply the most demanding customers in the market.

THICKNESS TOLERANCES COILS AND SHEETS	
THICKNESS mm	TOLERANCES mm*
≤ 0.69	± 0.030
0.70 - 0.99	± 0.040
1.00 - 1.49	± 0.050
1.50 - 1.99	± 0.060
2.00 - 2.99	± 0.090
3.00 - 4.49	± 0.13
4.50 - 4.99	± 0.14
5.0	± 0.15

* Measured 30 mm from edge

WIDTH TOLERANCES COILS AND SHEETS	
WIDTH mm	TOLERANCES mm
< 300	± 0.1
301 - 1000	- 0 + 0.3
1001 - 1500	- 0 + 0.5

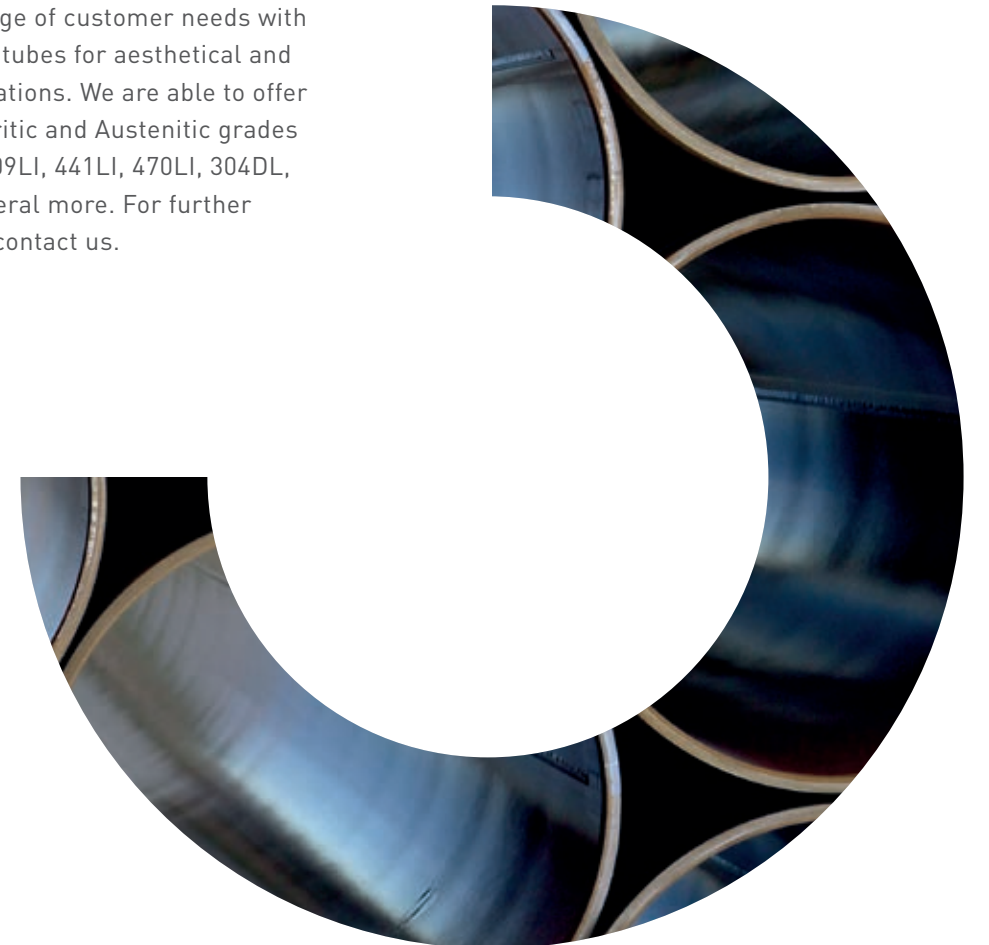
OTHER TOLERANCES			
LENGTH		FLATNESS	CAMBER
LENGTH	TOLERANCES mm		
250 -2000	- 0 + 4	According to required standard	According to required standard
2001 -4000	- 0 + 6		
4001 - 6000	- 0 + 8		

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PRODUCT RANGE

Stainless steel tubes

We fulfill a wide range of customer needs with our stock of welded tubes for aesthetical and architectural applications. We are able to offer a wide range of Ferritic and Austenitic grades including STR 12, 409LI, 441LI, 470LI, 304DL, 316TI, 4828 and several more. For further information please contact us.



STAINLESS STEEL TUBES

RECTANGULAR TUBES					
SECTION mm	THICKNESS mm				
	1,0	1,2	1,5	2,0	3,0
	THEORETICAL WEIGHTS kg/m				
20x10	0,453	0,538	0,661		
20x15	0,533	0,634	0,781	1,813	
25x15		0,729			
30x15			1,020	1,335	
30x20	0,772	0,921	1,140	1,495	
40x15			1,259	1,654	
40x20		1,112	1,379	1,813	
40x30		1,303	1,618	2,132	3,156
50x20		1,303	1,618	2,132	3,156
50x25			1,737	2,292	
50x30			1,857	2,451	
50x40			2,096	2,770	
60x20			1,857	2,451	
60x30			2,096	2,770	4,080
60x40			2,336	3,089	4,558
80x40			2,813	3,726	5,515
80x60			3,291	4,364	6,471
100x40				4,364	6,471
100x50				4,683	6,949
100x60				5,001	7,427
120x40				5,001	7,427
120x60				5,639	8,384
120x80				6,277	9,340
150x50				6,277	9,340
150x100				7,871	11,731
160x80				7,552	11,253

SQUARE TUBES						
SECTION mm	THICKNESS mm					
	1,0	1,2	1,5	2,0	3,0	4,0
	THEORETICAL WEIGHTS kg/m					
10x10	0,294					
12x12	0,358	0,415	0,508			
15x15	0,453	0,538	0,661			
20x20	0,613	0,729	0,900	1,176		
25x25	0,772	0,921	1,140	1,495		
30x30	0,932	0,112	1,379	1,813	2,645	
35x35	1,091	1,303	1,618	2,132	3,124	
40x40	1,250	1,494	1,857	2,451	3,602	
45x45			2,097	2,770		
50x50		1,878	2,335	3,089	4,558	
60x60			2,814	3,726	5,515	
80x80			3,771	5,003	7,427	
100x100				6,279	9,340	no
120x120				7,555	11,253	14,905
150x150					14,129	

INDUSTRIAL TUBES

WELDED ROUND TUBES WITH METHOD TIG/LASER IN ACCORDANCE EN 10271-7 - TC1						
DIAMETER FROM 8 TO 34 mm	THICKNESS mm					
	1,0	1,2	1,5	2,0	2,5	3,0
	THEORETICAL WEIGHTS kg/m					
6,0	0,125					
8,0	0,175		0,244			
10,0	0,225	0,264	0,319			
12,0	0,275		0,394			
14,0	0,326	0,385	0,469			
15,0	0,351	0,415	0,507			
16,0	0,376	0,445	0,545	0,701		
17,2			0,597	0,761		
18,0	0,426	0,505	0,620	0,804		
20,0	0,476	0,565	0,695	0,901		
21,3	0,508	0,604	0,744	0,966	1,177	1,375
22,0	0,526	0,625	0,770	1,002		
25,0	0,601	0,715	0,883	1,152		
26,9	0,648	0,772	0,954	1,247	1,527	1,795
28,0	0,676	0,805	0,995	1,302		
30,0	0,726	0,865	1,070	1,402	1,722	2,028
32,0	0,776	0,925	1,146	1,502		
33,0			1,183	1,552		
33,7		0,977	1,209	1,588	1,953	2,306

WELDED ROUND TUBES WITH METHOD TIG/LASER IN ACCORDANCE EN 10271-7 - TC1						
DIAMETER FROM 35 TO 127 mm	THICKNESS mm					
	1,0	1,2	1,5	2,0	2,5	3,0
	THEORETICAL WEIGHTS kg/m					
35	0,851	1,016	1,258	1,653		
38	0,926	1,106	1,371	1,803		
40	0,977	1,166	1,446	1,903		2,779
42,4	1,037	1,238	1,536	2,023	2,498	2,960
45	1,102	1,316	1,634	2,153		
48,3	1,184	1,415	1,758	2,319	2,867	3,403
50	1,227	1,466	1,822	2,404		
52	1,277	1,526	1,897	2,504		
54	1,327	1,586	1,972	2,604		
60,3	1,485	1,776	2,208	2,919	4,304	5,639
63,5		1,872	2,329	3,080		
70			2,573	3,405		
76,1			2,802	3,711		5,491
80			2,948	3,906		
84			4,107			
88,9			3,283	4,352	5,409	6,453
101,6			3,760	4,988		
104,0				5,108		
114,3			4,237	5,624	6,999	8,361
129,0				6,360	9,465	
139,7			5,191	6,896		10,269
154,0				7,612		
168,3				8,328	10,379	12,417
204,0				10,116		
206,0						15,249
219,1				10,872		16,233
254,0				12,620		18,855
256,0						19,005
273,0				13,572		16,933
304,0				15,124		
306,0						22,761
323,9				16,121	20,120	28,873
355,6				17,708	22,104	26,487
406,4				20,252		30,303

**WE FACE
A WIDE RANGE
OF CUSTOMER
NEEDS.**



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