



STAINLESS STEEL LONG PRODUCTS

EN • IT

 **MARCEGAGLIA**
SPECIALTIES

BRIGHT BARS
TRAFILATI



UPON REQUEST,
GRADES AND
DIMENSIONS VARYING
FROM STANDARD
CAN BE CONSIDERED.

SU RICHIESTA
POSSONO ESSERE PRESE
IN ESAME QUALITÀ E
DIMENSIONI DIVERSE
DA QUELLE STANDARD.



OPTIONAL PROCESSING

Lavorazioni opzionali

Grinding - Rettifica

Polishing (grit 320) - Satinatura (grana 320)

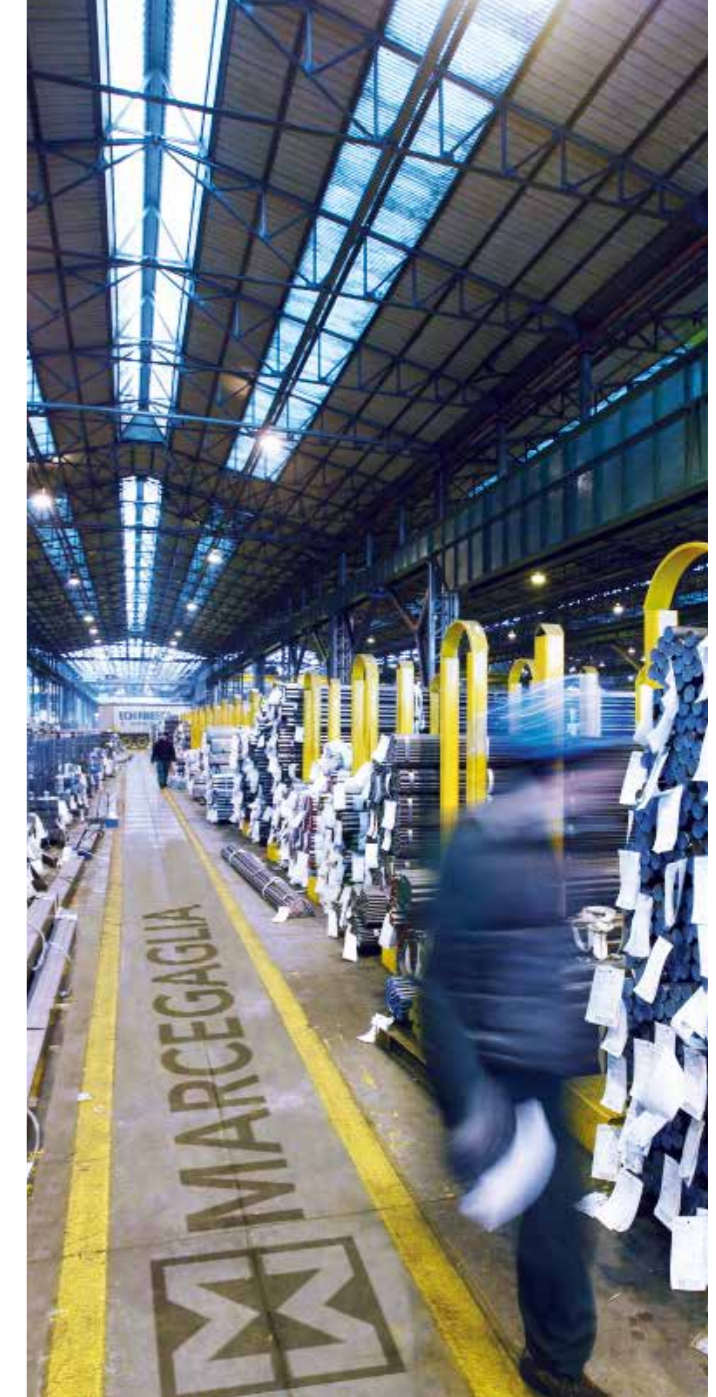
Chamfering - Bisellatura

TESTING

Prove e controlli

Rotating sensor eddy current test
Controllo a correnti indotte a testa rotante

Magneto-inductive test
Controllo magnetico antimescolamento



MANUFACTURING STANDARD Norma di fabbricazione	PRODUCT DESIGNATION Designazione prodotto	GRADE Qualità
EN 10088-3	Stainless steels for general purposes Acciai inossidabili per impieghi generali	1.4305 (AISI 303) 1.4301 (AISI 304) 1.4307 (AISI 304L) 1.4404 (AISI 316L) 1.4104 (AISI 430F)

Supply conditions - Condizioni di fornitura
- Dimensional tolerances according to EN 10278 (see table) Tolleranze dimensionali secondo EN 10278 (vedi tabella)
- Upon request: certification according to AD 2000 W2/W10 Su richiesta: certificazione secondo AD 2000 W2/W10

DIMENSIONAL TOLERANCE EN 10278 Tolleranze dimensionali EN 10278

product type	tolerance class according to ISO 286-2				
	h6	h7	h8	h9	h11
Cold-drawn Trafilato				R	R, H
Peeled Pelato				R	
Ground Rettificato	R	R	R	R	

R: round
H: hexagonal

R: tondo
H: esagonale

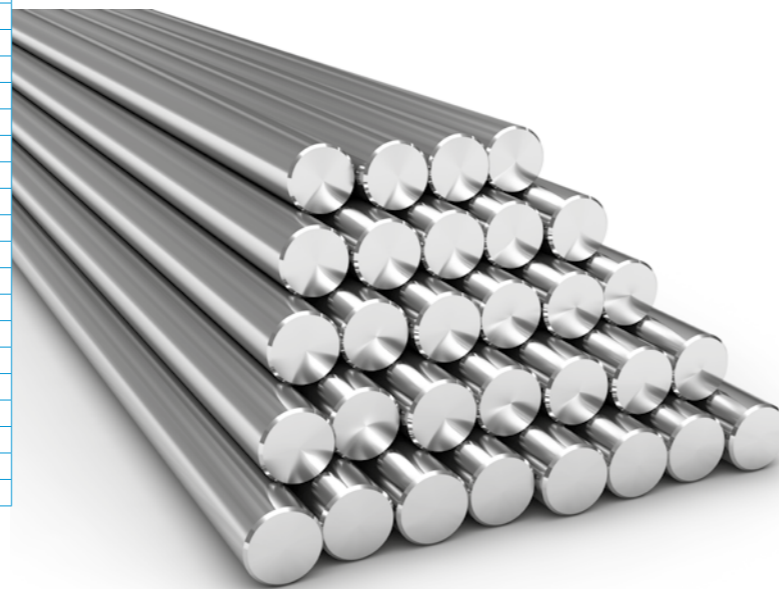
STANDARD CHAMFERING EDGES Smussi di bisellatura standard

dimensions mm	45° + milled	30° + milled
8 ÷ 10	1 mm	3 mm
10 ÷ 20	1,2 mm	3,5 mm
20 ÷ 40	1,5 mm	6 mm
40 ÷ 50	2 mm	4 mm
50 ÷ 60	2,5 mm	5 mm

edge tolerance: $\varnothing 8 \div 10 \text{ mm} \pm 0.9 \text{ mm}$; $\varnothing 10 \div 50 \text{ mm} \pm 1 \text{ mm}$; $\varnothing 50 \div 60 \text{ mm} \pm 1.5 \text{ mm}$
tolleranze smussi: $\varnothing 8 \div 10 \text{ mm} \pm 0,9 \text{ mm}$; $\varnothing 10 \div 50 \text{ mm} \pm 1 \text{ mm}$; $\varnothing 50 \div 60 \text{ mm} \pm 1,5 \text{ mm}$

BRIGHT ROUND BARS Trafilati tondi				
EN 10088-3				
diameter mm	1.4305 (A303)	1.4301 (A304) 1.4307 (A304L)	1.4404 (A316L)	1.4104 (A430F)
5	0,154	0,154	0,154	0,154
6	0,222	0,222	0,222	0,222
7	0,302	0,302	0,302	0,302
8	0,395	0,395	0,395	0,395
9	0,499	0,499	0,499	0,499
10	0,617	0,617	0,617	0,617
11	0,746	0,746	0,746	0,746
12	0,888	0,888	0,888	0,888
13	1,042	1,042	1,042	1,042
14	1,208	1,208	1,208	1,208
15	1,387	1,387	1,387	1,387
16	1,578	1,578	1,578	1,578
17	1,782	1,782	1,782	1,782
18	1,998	1,998	1,998	1,998
19	2,226	2,226	2,226	2,226
20	2,466	2,466	2,466	2,466
21	2,719	2,719	2,719	2,719
22	2,984	2,984	2,984	2,984
23	3,261	3,261	3,261	3,261
24	3,551	3,551	3,551	3,551
25	3,853	3,853	3,853	3,853
26	4,168	4,168	4,168	4,168
27	4,494	4,494	4,494	4,494
28	4,834	4,834	4,834	4,834
30	5,549	5,549	5,549	5,549
32	6,313	6,313	6,313	6,313
34	7,127	7,127	7,127	7,127
35	7,552	7,552	7,552	7,552
36	7,990	7,990	7,990	7,990
38	8,903	8,903	8,903	8,903
40	9,864	9,864	9,864	9,864
42	10,875	10,875	10,875	10,875
45	12,485	12,485	12,485	12,485
50	15,413	15,413	15,413	15,413
55	18,650	18,650	18,650	18,650
60	22,195	22,195	22,195	22,195
65	26,048	26,048	26,048	26,048
70	30,209	30,209	30,209	30,209
75	34,679	34,679	34,679	34,679
80	39,457	39,457	39,457	39,457
85	44,544	44,544	44,544	44,544
90	49,938	49,938	49,938	49,938
100	61,652	61,652	61,652	61,652

BRIGHT ROUND BARS Trafilati tondi			
ASTM A276, A479, A582			
diameter mm - inches	1.4305 (A303)	1.4301 (A304) 1.4307 (A304L)	1.4404 (A316L)
6,35 - 1/4"	0,249	0,249	0,249
7,937 - 5/16"	0,388	0,388	0,388
9,525 - 3/8"	0,559	0,559	0,559
11,112 - 7/16"	0,761	0,761	0,761
12,7 - 1/2"	0,994	0,994	0,994
14,287 - 9/16"	1,258	1,258	1,258
15,875 - 5/8"	1,554	1,554	1,554
17,462 - 11/16"	1,880	1,880	1,880
19,05 - 3/4"	2,237	2,237	2,237
22,225 - 7/8"	3,045	3,045	3,045
25,4 - 1"	3,978	3,978	3,978



MANUFACTURING STANDARD Norma di fabbricazione	PRODUCT DESIGNATION Designazione prodotto	GRADE Qualità
EN 10088-2	Stainless steel flat products for general purposes <i>Acciai inossidabili piani per impieghi generali</i>	EN 1.4016 1.4301 1.4307 1.4541 1.4404 1.4571
EN 10028-7	Stainless steel flat products for pressure purposes <i>Acciai inossidabili piani per recipienti a pressione</i>	AISI 430 304 304L 321 316L 316Ti

FLAT BARS Piatti in barre							
EN 10088-2 EN 10028-7							
width mm	thickness mm						
	3	4	5	6	8	10	12
10	0,24	0,32					
12	0,29	0,38	0,48	0,57			
15	0,36	0,48	0,60	0,72			
20	0,48	0,64	0,80	0,95	1,27	1,59	
25	0,60	0,80	0,99	1,19	1,59	1,99	
30	0,72	0,95	1,19	1,43	1,91	2,39	2,86
35	0,83	1,11	1,39	1,67	2,23	2,78	
40	0,95	1,27	1,59	1,91	2,54	3,18	3,82
45	1,07	1,43	1,79	2,15	2,86	3,58	
50	1,19	1,59	1,99	2,39	3,18	3,98	4,77
60	1,43	1,91	2,39	2,86	3,82	4,77	5,72
65	1,55	2,07	2,58	3,10	4,13	5,17	6,20
70	1,67	2,23	2,78	3,34	4,45	5,57	6,68
75	1,79	2,39	2,98	3,58	4,77	5,96	7,16
80	1,91	2,54	3,18	3,82	5,09	6,36	7,63
90		2,86	3,58	4,29	5,72	7,16	
100	2,39	3,18	3,98	4,77	6,36	7,95	9,54
120		3,82	4,77	5,72	7,63	9,54	11,45
125				5,96	7,95	9,94	11,93
140			5,57	6,68	8,90	11,13	13,36
150			5,96	7,16	9,54	11,93	14,31
160					10,18	12,72	15,26
180				8,59	11,45	14,31	17,17
200			7,95	9,54	12,72	15,90	19,08

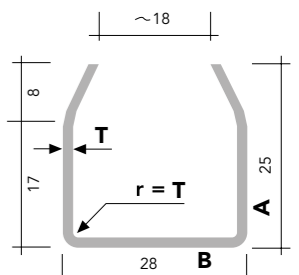
Polished bars standard availability - *Disponibilità standard prodotto satinato*

Supply conditions - Condizioni di fornitura

- Dimensional tolerances according to EN 10051 - *Tolleranze dimensionali secondo EN 10051*
- Special tolerances upon request *Tolleranze speciali su richiesta*
- Control documents 2.2, 3.1, 3.2 according to EN 10204 *Documenti di controllo 2.2, 3.1, 3.2 secondo norma EN 10204*
- On request: certification according to AD 2000 W2/W10 *Su richiesta: certificazione secondo AD 2000 W2/W10*

SPECIAL COLD FORMED SECTIONS
PROFILATI SPECIALI

SPECIAL COLD FORMED SECTIONS Profilati speciali		
external dimensions	mm	
A x B mm	1	1,2
23 x 22		•
27 x 19		•
27 x 23		•
28 x 25		•
37 x 25		•
47 x 25	•	



Upon request, shapes varying from standard can be considered.
Su richiesta possono essere prese in esame sagome diverse da quelle standard.

Standard delivery program - *Programma di fornitura standard*

Marcegaglia Specialties experience and know-how in stainless steel has led to the development of EuMarc® stainless steel bright bars, a product that meets the market needs, characterized by consistent mechanics and chemistry, made of 100% European stainless steel.

Dall'esperienza e dal know-how Marcegaglia Specialties nei prodotti in acciaio inossidabile, nascono le barre tonde in acciaio inossidabile EuMarc®, un prodotto che va incontro alle esigenze del mercato, caratterizzato da una meccanica e una chimica costante e realizzato in acciaio inossidabile al 100% europeo.



BRIGHT ROUND BARS EN 10088-3			
Trafilati tondi			
diameter mm	1.4305 (A303)	1.4301 (A304) 1.4307 (A304L)	1.4404 (A316L)
8	0,395	0,395	0,395
10	0,617	0,617	0,617
12	0,888	0,888	0,888
14	1,208	1,208	1,208
15	1,387	1,387	1,387
16	1,578	1,578	1,578
18	1,998	1,998	1,998
20	2,466	2,466	2,466
22	2,984	2,984	2,984
25	3,853	3,853	3,853
30	5,549	5,549	5,549
35	7,552	7,552	7,552
40	9,864	9,864	9,864
45	12,485	12,485	12,485
50	15,413	15,413	15,413
60	22,195	22,195	22,195

HEXAGONAL COLD-DRAWN BARS EN 10088-3	
Trafilati esagonali	
size mm	weight kg/m
10	0,68
11	0,82
12	0,98
13	1,14
14	1,33
15	1,52
16	1,73
17	1,96
18	2,18
19	2,45
20	2,70
21	3,00
22	3,29
23	3,57
24	3,92
25	4,21
26	4,60
27	4,96
28	5,29
30	6,12
32	6,96
34	7,86
35	8,33
36	8,81
38	9,81
40	10,88
41	11,40
42	12,00
45	13,77
46	14,40
48	15,67
50	17,00
55	20,56
60	24,45
65	28,65
70	32,25
75	38,24
80	43,50

Standard delivery program - Programma di fornitura standard

MANUFACTURING STANDARD

Norma di fabbricazione

Non-destructive testing according to EN10088-3 (Class3)
Controlli non-distruttivi secondo EN10088-3 (Classe3)

PRODUCT DESIGNATION

Designazione prodotto

Stainless steels for general purposes
Acciai inossidabili per impieghi generali

GRADE

Qualità

1.4305 (AISI 303)
1.4301 (AISI 304)
1.4307 (AISI 304L)
1.4404 (AISI 316L)

Supply conditions - Condizioni di fornitura

- Dimensional tolerances according to EN 10278
Tolleranze dimensionali secondo EN 10278

- Upon request: certification according to AD 2000 W2/W10
Su richiesta: certificazione secondo AD 2000 W2/W10

OPTIONAL PROCESSING

Lavorazioni opzionali

Grinding - Rettifica

Polishing (grit 320) - Satinatura (grana 320)

Chamfering - Bisellatura

TESTING

Prove e controlli

Rotating sensor eddy current test
Controllo a correnti indotte a testa rotante

Magneto-inductive test - Controllo magnetico antimescolamento

STANDARD CHAMFERING EDGES

Smussi di bisellatura standard

dimensions mm	45° + milled	30° + milled
8 ÷ 10	1 mm	3 mm
10 ÷ 20	1,2 mm	3,5 mm
20 ÷ 40	1,5 mm	6 mm
40 ÷ 50	2 mm	4 mm
50 ÷ 60	2,5 mm	5 mm

edge tolerance - tolleranze smussi:

Ø 8 ÷ 10 mm ± 0.9 mm; Ø 10 ÷ 50 mm ± 1 mm; Ø 50 ÷ 60 mm ± 1.5 mm



100% EUROPEAN STEEL

Controlled supply chain
Filiera controllata

Guaranteed optimized chemistry
Chimica garantita ottimizzata

Consistent mechanics
Meccanica costante

MARCEGAGLIA SPECIALTIES

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