STAPPERT

STAPPERT | ČESKÁ REPUBLIKA

THE INTELLIGENT STAINLESS STEEL STOCK RANGE

Stainless, highly corrosion and heat resistant steels

A material grade makes history.

Even at the end of the 19th century it was discovered that the corrosion behaviour of steel could be optimised considerably by adding nickel and chrome. But only in 1912 by means of the patent for „stainless steel“ the foundation stone for the industrial production of stainless steel was laid by the company Krupp. In the 50‘s the material started an incomparable triumphal march. Since 1958 the marking „Edelstahl Rostfrei “ has been a registered trademark. The importance of stainless steel is undiminished. The world-wide annual production has almost doubled between 2000 (approx. 18 million tons) and 2012 (approx. 34 million tons).

We have a lot available ex stock for you.

When it comes to stainless, highly corrosion and heat resistant steels, STAPPERT is your first choice. You will find round bars, hollow bars, flat bars, key steel, square and hexagonal bars. And tubes, fittings, angles, profiles and sheets are part of our broad range, too.

Since 2011 we have been repositioning under the umbrella of Jacquet Metal Service Group. And you will benefit from this, too: there are more products to choose from, optimised service and a clear focus on long products. Today, STAPPERT is represented in 11 European countries. By means of our 14 regional sites in Germany, we are on hand for you for any question about stainless steel.

High availability and uncompromising quality are STAPPERT's top priority. So today we offer our customers a varied and properly sophisticated range of about 15,000 stainless steel products. And all that ex stock – from the standard product to the tailor-made solution. For our customers this means: full satisfaction of demand and perfect service within a short while.

Our new product catalogue gives you an overview about our offer. Do you need special dimensions, special certifications or samples or do you have questions about our products? No problem – the experts from our regional sales offices are looking forward to advise you.

Table of contents

Bars

Angles and special angles

Plates and sheets

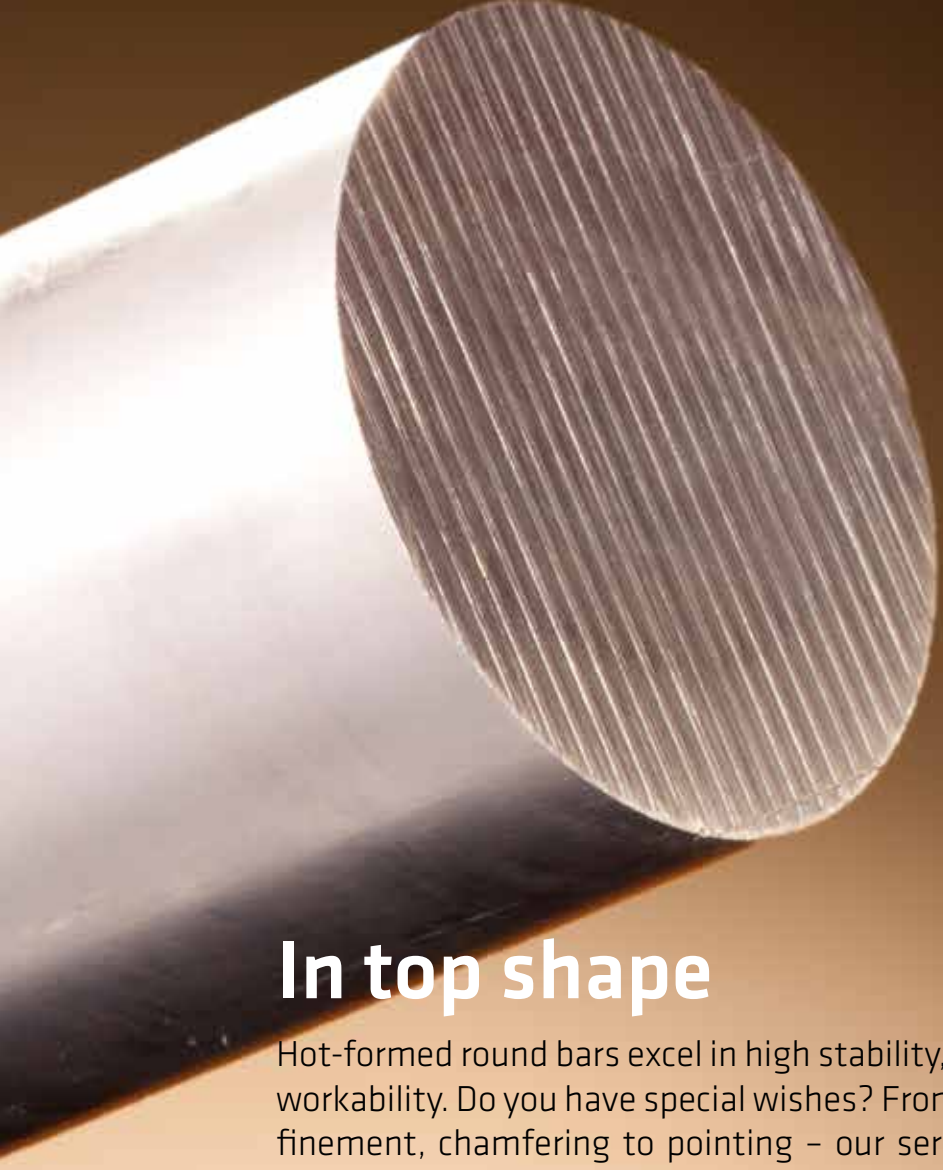
Pipes, tubes and hollow bars

Fittings

Service

ROUND BARS

hot-formed



In top shape

Hot-formed round bars excel in high stability, long durability and good workability. Do you have special wishes? From sawing over drilling, refinement, chamfering to pointing – our service is also in top shape and it will carry this out for you.

Round bars | hot-formed

in random lenghts from 4 to 6m

*	solution annealed, mill finish or pickled
**	hardened and tempered, peeled or turned, in some cases before heat treatment, partially in non-descaled finish
***	annealed, peeled or turned, in some cases before heat treatment, partially in non-descaled finish
****	solution annealed in delivery condition, including notes on mechanical properties when precipitation-hardened, peeled or turned

Dimension standards

DIN EN 10060 or DIN 7527, sheet 6

Test certificates

DIN EN 10204 3.1 or works‘ test certificate 2.1/2.2

*/**/***/**** Classification see page 10 - 22

mm	Theoret. weight kg/m	Grade 1.4006 AISI 410 **)	Grade 1.4021 AISI 420 **)	Grade 1.4028 AISI 420F **)	Grade 1.4034 AISI 420 ***)	Grade 1.4057 AISI 431 **)	Grade 1.4104 AISI 430F **)	Grade 1.4112 AISI 440B ***)	Grade 1.4122 AISI 440B **)	Grade 1.4301 AISI 304 *) [1]	Grade 1.4305 AISI 303 *)
16,00	1,58		▪								
18,00	2,00								▪		
20,00	2,47		▪	▪		▪		▪	▪	▪	
22,00	2,98		▪			▪			▪	▪	
24,00	3,55		▪							▪	
25,00	3,85		▪	▪		▪		▪	▪	▪	
26,00	4,17		▪			▪			▪		
27,00	4,50										
28,00	4,83		▪			▪		▪	▪	▪	
30,00	5,55	▪	▪	▪	▪	▪		▪	▪	▪	
32,00	6,31		▪			▪				▪	
33,00	6,71										
34,00	7,13										
35,00	7,55	▪	▪	▪	▪	▪		▪	▪	▪	▪
36,00	7,99		▪			▪		▪	▪	▪	
38,00	8,90		▪			▪			▪	▪	
40,00	9,87	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
42,00	10,88		▪			▪			▪	▪	▪
45,00	12,49	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
46,00	13,05		▪								
48,00	14,21		▪			▪				▪	
50,00	15,41	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
52,00	16,62		▪			▪			▪		
55,00	18,65	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
58,00	21,13									▪	
60,00	22,20	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
62,00	23,70										
63,00	24,93										▪
65,00	26,05	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
70,00	30,21	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
75,00	34,68	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
80,00	39,46	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
85,00	44,55	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
90,00	49,94	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
95,00	55,64		▪	▪	▪	▪	▪	▪	▪	▪	▪
100,00	61,65	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
105,00	67,97		▪	▪		▪	▪	▪	▪	▪	▪
110,00	74,60	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪

[1]) for the most part in modified condition, i.e. S-content ≥ 0,02% to ≤ 0,03% to improve machinability
*/**/***/**** Finishes see page 9

mm	Theoret. weight kg/m	Grade 1.4306 AISI 304L *)	Grade 1.4307 AISI 304L *)	Grade 1.4313 AISI CA 6-NM **)	Grade 1.4401 AISI 316 *)	Grade 1.4404 AISI 316L *)	Grade 1.4418 **)	Grade 1.4435 AISI 316L *)	Grade 1.4541 AISI 321 *)	Grade 1.4542 AISI 630 ****)	Grade 1.4571 AISI 316Ti *)
16,00	1,58										
18,00	2,00										
20,00	2,47		▪	▪	▪	▪			▪		▪
22,00	2,98		▪		▪	▪			▪		▪
24,00	3,55		▪						▪		▪
25,00	3,85		▪	▪	▪	▪	▪		▪		▪
26,00	4,17										▪
27,00	4,50										▪
28,00	4,83		▪		▪	▪			▪		▪
30,00	5,55		▪	▪	▪	▪	▪	▪	▪	▪	▪
32,00	6,31		▪		▪	▪			▪	▪	▪
33,00	6,71										▪
34,00	7,13										▪
35,00	7,55	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
36,00	7,99		▪		▪	▪		▪	▪		▪
38,00	8,90		▪		▪	▪			▪		▪
40,00	9,87	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
42,00	10,88		▪		▪	▪			▪		▪
45,00	12,49	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
46,00	13,05										
48,00	14,21		▪		▪	▪					▪
50,00	15,41	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
52,00	16,62				▪	▪		▪	▪		▪
55,00	18,65	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
58,00	21,13		▪								
60,00	22,20	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
62,00	23,70										▪
63,00	24,93										
65,00	26,05		▪	▪	▪	▪	▪	▪	▪	▪	▪
70,00	30,21	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
75,00	34,68		▪	▪	▪	▪	▪	▪	▪	▪	▪
80,00	39,46	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
85,00	44,55	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
90,00	49,94	▪	▪	▪	▪	▪		▪	▪	▪	▪
95,00	55,64		▪		▪	▪	▪	▪	▪	▪	▪
100,00	61,65	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
105,00	67,97		▪		▪	▪		▪	▪		▪
110,00	74,60	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪

*/**/***/**** Finishes see page 9

mm	Theoret. weight kg/m	Grade 1.4006 AISI 410 **)	Grade 1.4021 AISI 420 **)	Grade 1.4028 AISI 420F **)	Grade 1.4034 AISI 420 ***)	Grade 1.4057 AISI 431 **)	Grade 1.4104 AISI 430F **)	Grade 1.4112 AISI 440B ***)	Grade 1.4122 AISI 440B **)	Grade 1.4301 AISI 304 *) [1]	Grade 1.4305 AISI 303 *)
115,00	81,54		▪	▪		▪	▪	▪	▪	▪	▪
120,00	88,78	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
125,00	96,33		▪			▪	▪	▪	▪	▪	▪
130,00	104,20	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
135,00	112,40		▪			▪			▪	▪	▪
140,00	120,80	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
145,00	129,60		▪			▪			▪	▪	▪
150,00	138,70	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
155,00	148,10					▪				▪	▪
160,00	157,80	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
165,00	167,90		▪			▪				▪	▪
170,00	178,20	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
175,00	188,80		▪							▪	
180,00	199,80	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
185,00	211,00									▪	
190,00	222,60		▪	▪	▪	▪	▪	▪	▪	▪	▪
195,00	234,40									▪	
200,00	246,60	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
210,00	271,90	▪	▪	▪		▪	▪	▪	▪	▪	▪
220,00	298,40	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
225,00	312,10										
230,00	326,20	▪	▪	▪		▪	▪	▪	▪	▪	▪
240,00	355,10	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
250,00	385,30	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
260,00	416,80		▪	▪		▪	▪	▪	▪	▪	▪
270,00	449,50		▪	▪		▪	▪	▪	▪	▪	▪
275,00	466,30				▪						
280,00	483,40		▪	▪		▪	▪	▪	▪	▪	▪
285,00	500,80									▪	
290,00	518,50		▪	▪				▪	▪	▪	
300,00	554,90		▪	▪	▪	▪	▪	▪	▪	▪	▪
310,00	592,00		▪			▪				▪	▪
320,00	631,00		▪			▪				▪	
325,00	651,20				▪	▪	▪	▪	▪		▪
330,00	671,00		▪						▪	▪	
340,00	713,00		▪							▪	
350,00	755,30		▪			▪	▪	▪	▪	▪	▪
360,00	799,00		▪			▪				▪	

[1]) for the most part in modified condition, i.e. S-content ≥ 0,02% to ≤ 0,03% to improve machinability
*/**/***/**** Finishes see page 9

mm	Theoret. weight kg/m	Grade 1.4306 AISI 304L *)	Grade 1.4307 AISI 304L *)	Grade 1.4313 AISI CA 6-NM **)	Grade 1.4401 AISI 316 *)	Grade 1.4404 AISI 316L *)	Grade 1.4418 **)	Grade 1.4435 AISI 316L *)	Grade 1.4541 AISI 321 *)	Grade 1.4542 AISI 630 ****)	Grade 1.4571 AISI 316Ti *)
115,00	81,54		▪		▪	▪			▪		▪
120,00	88,78	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
125,00	96,33		▪		▪	▪		▪	▪		▪
130,00	104,20	▪	▪	▪	▪	▪		▪	▪	▪	▪
135,00	112,40		▪		▪	▪			▪		▪
140,00	120,80	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
145,00	129,60		▪		▪	▪			▪		▪
150,00	138,70	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
155,00	148,10		▪		▪	▪			▪		▪
160,00	157,80	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
165,00	167,90		▪		▪	▪			▪		▪
170,00	178,20		▪		▪	▪	▪	▪	▪	▪	▪
175,00	188,80		▪		▪	▪			▪		▪
180,00	199,80		▪	▪	▪	▪	▪	▪	▪	▪	▪
185,00	211,00		▪						▪		▪
190,00	222,60		▪		▪	▪	▪		▪		▪
195,00	234,40		▪								
200,00	246,60		▪	▪	▪	▪	▪	▪	▪	▪	▪
210,00	271,90		▪		▪	▪		▪	▪		▪
220,00	298,40		▪		▪	▪		▪	▪		▪
225,00	312,10			▪			▪				
230,00	326,20		▪		▪	▪		▪	▪		▪
240,00	355,10		▪		▪	▪		▪	▪		▪
250,00	385,30		▪	▪	▪	▪	▪	▪	▪		▪
260,00	416,80		▪		▪	▪		▪	▪		▪
270,00	449,50		▪		▪	▪		▪	▪		▪
275,00	466,30			▪							
280,00	483,40		▪		▪	▪		▪	▪		▪
285,00	500,80		▪								▪
290,00	518,50		▪		▪	▪		▪	▪		▪
300,00	554,90		▪	▪	▪	▪		▪	▪		▪
310,00	592,00		▪		▪	▪			▪		▪
320,00	631,00		▪		▪	▪					▪
325,00	651,20								▪		
330,00	671,00		▪		▪	▪					▪
340,00	713,00		▪		▪	▪			▪		▪
350,00	755,30		▪	▪	▪	▪		▪	▪		▪
360,00	799,00		▪		▪	▪			▪		▪

*/**/***/**** Finishes see page 9

mm	Theoret. weight kg/m	Grade 1.4006 AISI 410 **)	Grade 1.4021 AISI 420 **)	Grade 1.4028 AISI 420F **)	Grade 1.4034 AISI 420 ***)	Grade 1.4057 AISI 431 **)	Grade 1.4104 AISI 430F **)	Grade 1.4112 AISI 440B ***)	Grade 1.4122 AISI 440B **)	Grade 1.4301 AISI 304 *) [1])	Grade 1.4305 AISI 303 *)
370,00	844,00		▪							▪	
375,00	867,00					▪		▪			▪
380,00	890,00		▪							▪	
390,00	938,00										
400,00	986,50		▪			▪	▪	▪	▪	▪	▪
410,00	1.036,00									▪	
420,00	1.088,00										
425,00	1.114,00		▪			▪				▪	▪
430,00	1.140,00										
440,00	1.194,00										
450,00	1.249,00		▪			▪			▪	▪	▪
460,00	1.305,00										
470,00	1.388,00										
475,00	1.391,00									▪	
480,00	1.428,00										
490,00	1.509,00										
500,00	1.541,00		▪			▪			▪	▪	▪
510,00	1.634,00								▪		
520,00	1.667,00										
525,00	1.699,00								▪	▪	
530,00	1.765,00										
540,00	1.832,00										
550,00	1.865,00									▪	
575,00	2.038,00									▪	
600,00	2.220,00										
625,00	2.422,00										

[1]) for the most part in modified condition, i.e. S-content ≥ 0,02% to ≤ 0,03% to improve machinability
*/**/***/**** Finishes see page 9

mm	Theoret. weight kg/m	Grade 1.4306 AISI 304L *)	Grade 1.4307 AISI 304L *)	Grade 1.4313 AISI CA 6-NM **)	Grade 1.4401 AISI 316 *)	Grade 1.4404 AISI 316L *)	Grade 1.4418 **)	Grade 1.4435 AISI 316L *)	Grade 1.4541 AISI 321 *)	Grade 1.4542 AISI 630 ****)	Grade 1.4571 AISI 316Ti *)
370,00	844,00		▪								▪
375,00	867,00				▪	▪			▪		
380,00	890,00		▪								▪
390,00	938,00										▪
400,00	986,50		▪	▪	▪	▪		▪	▪		▪
410,00	1.036,00		▪								▪
420,00	1.088,00										▪
425,00	1.114,00		▪		▪	▪			▪		
430,00	1.140,00										▪
440,00	1.194,00										▪
450,00	1.249,00		▪	▪	▪	▪			▪		▪
460,00	1.305,00										▪
470,00	1.388,00										▪
475,00	1.391,00		▪		▪	▪			▪		
480,00	1.428,00										▪
490,00	1.509,00										▪
500,00	1.541,00		▪	▪	▪	▪			▪		▪
510,00	1.634,00										▪
520,00	1.667,00										▪
525,00	1.699,00		▪		▪	▪			▪		
530,00	1.765,00										▪
540,00	1.832,00										▪
550,00	1.865,00		▪		▪	▪					▪
575,00	2.038,00		▪		▪	▪					▪
600,00	2.220,00				▪	▪					▪
625,00	2.422,00				▪	▪					▪

*/**/***/**** Finishes see page 9

mm	Theoret. weight kg/m	Grade 1.4439 AISI 317LMN *)	Grade 1.4529 UNS N08926 *)	Grade 1.4539 AISI 904L *)
6,00	0,22			▪
8,00	0,40			▪
10,00	0,62			▪
12,00	0,89			▪
13,00	1,04			▪
14,00	1,21			▪
15,00	1,39			▪
16,00	1,58		▪	▪
18,00	2,00			▪
20,00	2,47	▪	▪	▪
22,00	2,98			▪
24,00	3,55		▪	▪
25,00	3,85	▪	▪	▪
26,00	4,17			▪
28,00	4,83			▪
30,00	5,55	▪	▪	▪
35,00	7,55	▪	▪	▪
40,00	9,87	▪	▪	▪
42,00	10,88			▪
45,00	12,49			▪
50,00	15,41	▪	▪	▪
55,00	18,65			▪
60,00	22,20	▪	▪	▪
65,00	26,05			▪
70,00	30,21	▪		▪
75,00	34,68			▪
80,00	39,46	▪	▪	▪
85,00	44,55			▪
90,00	49,94	▪		▪
95,00	55,64			▪
100,00	61,65		▪	▪
105,00	67,97			▪
110,00	74,60	▪		▪
115,00	81,54			▪
120,00	88,78		▪	▪
125,00	96,33			▪
130,00	104,20			▪
140,00	120,80	▪		▪

*/**/***/**** Finishes see page 9

mm	Theoret. weight kg/m	Grade 1.4439 AISI 317LMN *)	Grade 1.4529 UNS N08926 *)	Grade 1.4539 AISI 904L *)
150,00	138,70		▪	▪
160,00	157,80	▪		▪
165,00	167,90		▪	
170,00	178,20			▪
180,00	199,80	▪		▪
185,00	211,00		▪	
200,00	246,60		▪	▪
210,00	271,90	▪		▪
220,00	298,40			▪
240,00	355,10			▪
250,00	385,30			▪
275,00	466,30			▪
300,00	554,90			▪
350,00	755,30			▪
400,00	986,50			▪

*/**/***/**** Finishes see page 9

mm	Theoret. weight kg/m	Grade 1.4713 ***)	Grade 1.4742 ***)	Grade 1.4762 AISI 446 ***)	Grade 1.4828 AISI 309 *)	Grade 1.4841 AISI 314 *)	Grade 1.4845 AISI 310S *)	Grade 1.4876 Alloy 800H *)	Grade 1.4878 AISI 321H *)	Grade 1.4923 **)
6,00	0,22				▪	▪	▪			
8,00	0,40				▪	▪	▪			
10,00	0,62		▪		▪	▪	▪			
12,00	0,89				▪	▪	▪			
14,00	1,21					▪				
15,00	1,39				▪	▪	▪			
16,00	1,58	▪	▪	▪	▪	▪				
18,00	2,00				▪	▪				
20,00	2,47	▪	▪	▪	▪	▪	▪		▪	▪
22,00	2,98		▪		▪	▪			▪	
24,00	3,55				▪	▪			▪	
25,00	3,85	▪		▪	▪	▪		▪	▪	▪
26,00	4,17				▪					
28,00	4,83	▪		▪	▪	▪			▪	
30,00	5,55	▪	▪	▪	▪	▪	▪	▪	▪	▪
32,00	6,31				▪	▪			▪	
35,00	7,55	▪	▪	▪	▪	▪			▪	▪
36,00	7,99				▪	▪			▪	
38,00	8,90								▪	
40,00	9,87	▪	▪	▪	▪	▪	▪	▪	▪	▪
42,00	10,88				▪				▪	
45,00	12,49			▪	▪	▪			▪	▪
50,00	15,41	▪	▪	▪	▪	▪	▪	▪	▪	▪
52,00	16,62								▪	
55,00	18,65	▪		▪	▪	▪			▪	▪
60,00	22,20	▪	▪	▪	▪	▪	▪		▪	▪
65,00	26,05				▪	▪			▪	▪
70,00	30,21	▪		▪	▪	▪			▪	▪
75,00	34,68			▪	▪	▪			▪	▪
80,00	39,46	▪	▪	▪	▪	▪	▪		▪	▪
85,00	44,55				▪	▪			▪	
90,00	49,94			▪	▪	▪			▪	▪
95,00	55,64				▪	▪			▪	
100,00	61,65	▪		▪	▪	▪	▪		▪	▪
105,00	67,97								▪	
110,00	74,60				▪	▪			▪	
115,00	81,54								▪	
120,00	88,78			▪	▪	▪			▪	▪
125,00	96,33						▪		▪	

*/**/***/**** Finishes see page 9

mm	Theoret. weight kg/m	Grade 1.4713 ***)	Grade 1.4742 ***)	Grade 1.4762 AISI 446 ***)	Grade 1.4828 AISI 309 *)	Grade 1.4841 AISI 314 *)	Grade 1.4845 AISI 310S *)	Grade 1.4876 Alloy 800H *)	Grade 1.4878 AISI 321H *)	Grade 1.4923 **)
130,00	104,20				▪	▪			▪	▪
135,00	112,40								▪	
140,00	120,80				▪	▪			▪	▪
145,00	129,60								▪	
150,00	138,70				▪	▪	▪		▪	▪
155,00	148,10								▪	
160,00	157,80				▪	▪			▪	
165,00	167,90								▪	
170,00	178,20				▪	▪			▪	
175,00	188,80								▪	
180,00	199,80				▪	▪			▪	▪
185,00	211,00								▪	
190,00	222,60				▪				▪	▪
200,00	246,60				▪	▪			▪	▪
210,00	271,90				▪	▪			▪	
220,00	298,40								▪	▪
225,00	312,10				▪	▪				
230,00	326,20								▪	▪
240,00	355,10								▪	▪
250,00	385,30				▪	▪			▪	▪
260,00	416,80								▪	
270,00	449,50								▪	
275,00	466,30					▪				
280,00	483,40								▪	
290,00	518,50								▪	▪
300,00	554,90					▪			▪	▪
310,00	592,00								▪	
325,00	651,20								▪	
340,00	713,00								▪	
350,00	755,30								▪	
360,00	799,00								▪	
375,00	867,00								▪	
400,00	986,50								▪	
425,00	1.114,00								▪	
450,00	1.249,00								▪	
475,00	1.391,00								▪	
500,00	1.541,00								▪	
525,00	1.699,00								▪	

*/**/***/**** Finishes see page 9

mm	Theoret. weight kg/m	Grade 1.4410 UNS S32750 *) Superduplex	Grade 1.4460 UNS S32900 *) Duplex	Grade 1.4462 UNS S31803 *) Duplex	Grade 1.4501 UNS S32760 *) Superduplex
16,00	1,58	▪			
20,00	2,47	▪		▪	
22,00	2,98			▪	
25,00	3,85			▪	▪
28,00	4,83			▪	
28,60	5,04		▪		
30,00	5,55	▪		▪	▪
31,00	5,93		▪		
33,00	6,71		▪		
35,00	7,55			▪	▪
36,00	7,99		▪		
40,00	9,87	▪		▪	▪
45,00	12,49			▪	▪
46,00	13,05		▪		
50,00	15,41	▪		▪	▪
51,20	16,46		▪		
55,00	18,65			▪	
56,20	19,84		▪		
60,00	22,20	▪		▪	▪
61,20	23,52		▪		
65,00	26,05			▪	
66,20	26,86		▪		
70,00	30,21	▪		▪	▪
71,40	32,02		▪		
75,00	34,68			▪	▪
76,40	36,66		▪		
80,00	39,46	▪		▪	▪
81,40	41,61		▪		
85,00	44,55			▪	
86,40	46,88		▪		
90,00	49,94	▪		▪	▪
91,40	52,46		▪		
95,00	55,64			▪	
96,40	58,36		▪		
100,00	61,65	▪		▪	▪
102,00	64,11		▪		
105,00	67,97			▪	

*/**/***/**** Finishes see page 9

mm	Theoret. weight kg/m	Grade 1.4410 UNS S32750 *) Superduplex	Grade 1.4460 UNS S32900 *) Duplex	Grade 1.4462 UNS S31803 *) Duplex	Grade 1.4501 UNS S32760 *) Superduplex
107,00	70,55		▪		
110,00	74,60	▪		▪	▪
112,00	77,30		▪		
115,00	81,54			▪	
117,00	84,36		▪		
120,00	88,78	▪		▪	▪
122,00	91,72		▪		
125,00	96,33			▪	
127,00	99,44		▪		
130,00	104,20	▪		▪	▪
132,00	107,40		▪		
135,00	112,40			▪	
140,00	120,80	▪		▪	▪
143,00	126,10		▪		
145,00	129,60			▪	
150,00	138,70	▪		▪	▪
153,00	144,30		▪		
160,00	157,80	▪		▪	▪
163,00	163,80		▪		
165,00	167,90			▪	
170,00	178,20	▪		▪	▪
173,00	184,50		▪		
180,00	199,80	▪		▪	▪
184,00	208,70		▪		
190,00	222,60			▪	
194,00	232,00		▪		
200,00	246,60	▪		▪	▪
210,00	271,90		▪	▪	
220,00	298,40			▪	
224,00	309,40		▪		
225,00	312,10				▪
230,00	326,20			▪	
240,00	355,10			▪	
250,00	385,30		▪	▪	▪
255,00	400,90		▪		
260,00	416,80			▪	
270,00	449,50		▪	▪	

*/**/***/**** Finishes see page 9

mm	Theoret. weight kg/m	Grade 1.4410 UNS S32750 *) Superduplex	Grade 1.4460 UNS S32900 *) Duplex	Grade 1.4462 UNS S31803 *) Duplex	Grade 1.4501 UNS S32760 *) Superduplex
275,00	466,30				▪
280,00	483,40			▪	
290,00	518,50		▪	▪	
300,00	554,90			▪	▪
310,00	592,00		▪	▪	
320,00	631,00			▪	
330,00	671,00			▪	
340,00	713,00			▪	
350,00	755,30			▪	
360,00	799,00			▪	
370,00	844,00		▪	▪	
380,00	890,00			▪	
390,00	938,00			▪	
400,00	986,50			▪	
425,00	1.114,00			▪	
450,00	1.249,00			▪	
475,00	1.391,00			▪	
500,00	1.541,00			▪	

*/**/***/**** Finishes see page 9

SQUARE AND HEXAGONAL BARS

hot-formed

26 - 29

A variety of sharp products

Due to its wide area of application, square and hexagonal bars are attractive to different industries. Our range of square and hexagonal bars is permanently available ex stock for you and upon request it is cut to the appropriate length.

Square and hexagonal bars | hot-formed

in random lengths of 4 to 6m

* solution annealed, pickled, partly in non-descaled fisnish

** hardened and tempered, pickled, partly in non-descaled finish

Dimension standards

DIN EN 10059 (square bars)

DIN EN 10061 (hexagonal bars)

or DIN 7527, sheet 6

Test certificates

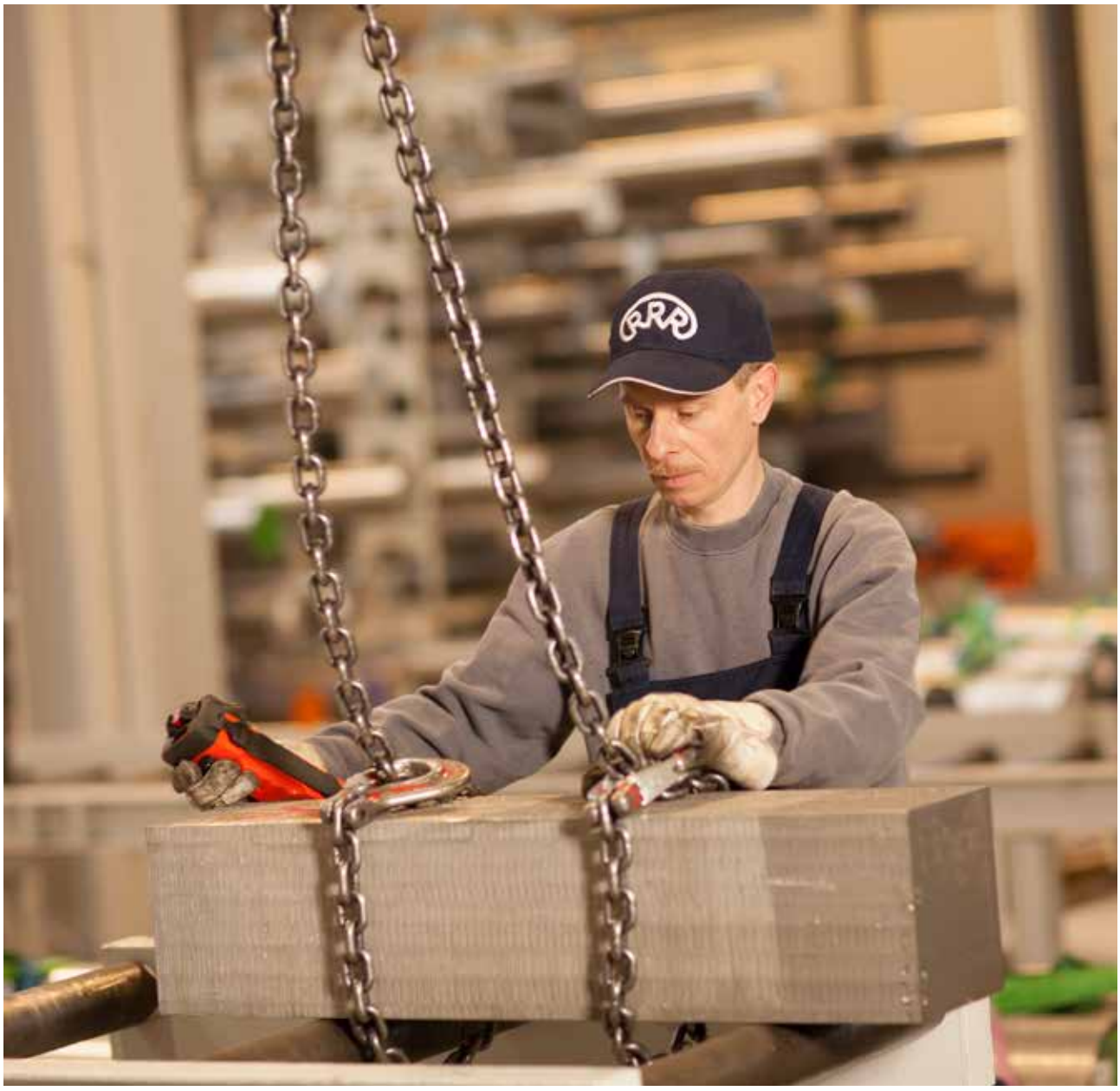
DIN EN 10204 3.1 or works‘ test certificat 2.1/2.2

*/** Classification see page 26 - 29

mm	Theoret. weight kg/m	Grade 1.4057 AISI 431 **)	Grade 1.4104 AISI 430F **)	Grade 1.4301 AISI 304 *)	Grade 1.4305 AISI 303 *)	Grade 1.4307 AISI 304L *)	Grade 1.4401 AISI 316 *)	Grade 1.4404 AISI 316L *)	Grade 1.4435 AISI 316L *)	Grade 1.4541 AISI 321 *)	Grade 1.4571 AISI 316Ti *)
10,00	0,79								▪		
15,00	1,77			▪		▪	▪	▪			▪
20,00	3,14			▪		▪	▪	▪	▪		▪
25,00	4,91			▪		▪	▪	▪		▪	▪
30,00	7,07			▪		▪	▪	▪	▪	▪	▪
32,00	8,04			▪		▪					
35,00	9,62			▪		▪	▪	▪		▪	▪
40,00	12,56	▪		▪	▪	▪	▪	▪	▪	▪	▪
45,00	15,90			▪		▪	▪	▪		▪	▪
50,00	19,63	▪		▪	▪	▪	▪	▪	▪	▪	▪
55,00	23,75			▪		▪					▪
60,00	28,26	▪		▪	▪	▪	▪	▪	▪	▪	▪
65,00	33,17			▪		▪				▪	▪
70,00	38,47			▪		▪	▪	▪		▪	▪
75,00	44,16			▪		▪					▪
80,00	50,24	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
85,00	56,72			▪		▪					▪
90,00	63,59	▪		▪	▪	▪				▪	▪
100,00	78,50	▪		▪	▪	▪	▪	▪		▪	▪
110,00	94,99				▪						▪
120,00	113,00			▪	▪	▪	▪	▪		▪	▪
135,00	143,10									▪	
140,00	153,90			▪		▪					▪
150,00	176,60			▪	▪	▪	▪	▪		▪	▪
160,00	201,00										▪
180,00	254,30										▪
200,00	314,00										▪

*/** Finishes see page 25

mm	Theoret. weight kg/m	Grade 1.4539 AISI 904L *)
15,00	1,77	▪
40,00	12,56	▪
50,00	19,63	▪
60,00	28,26	▪



Square bars | hot-formed | heat resistant

mm	Theoret. weight kg/m	Grade 1.4841 AISI 314 *)	Grade 1.4878 AISI 321H *)
10,00	0,79	▪	
12,00	1,13	▪	
15,00	1,77	▪	
20,00	3,14	▪	
25,00	4,91	▪	▪
30,00	7,07	▪	▪
35,00	9,62		▪
40,00	12,56	▪	▪
45,00	15,90		▪
50,00	19,63	▪	▪
60,00	28,26	▪	▪
65,00	33,17		▪
70,00	38,47		▪
80,00	50,24	▪	▪
90,00	63,59		▪
100,00	78,50		▪
120,00	113,00		▪
135,00	143,10		▪
150,00	176,60		▪

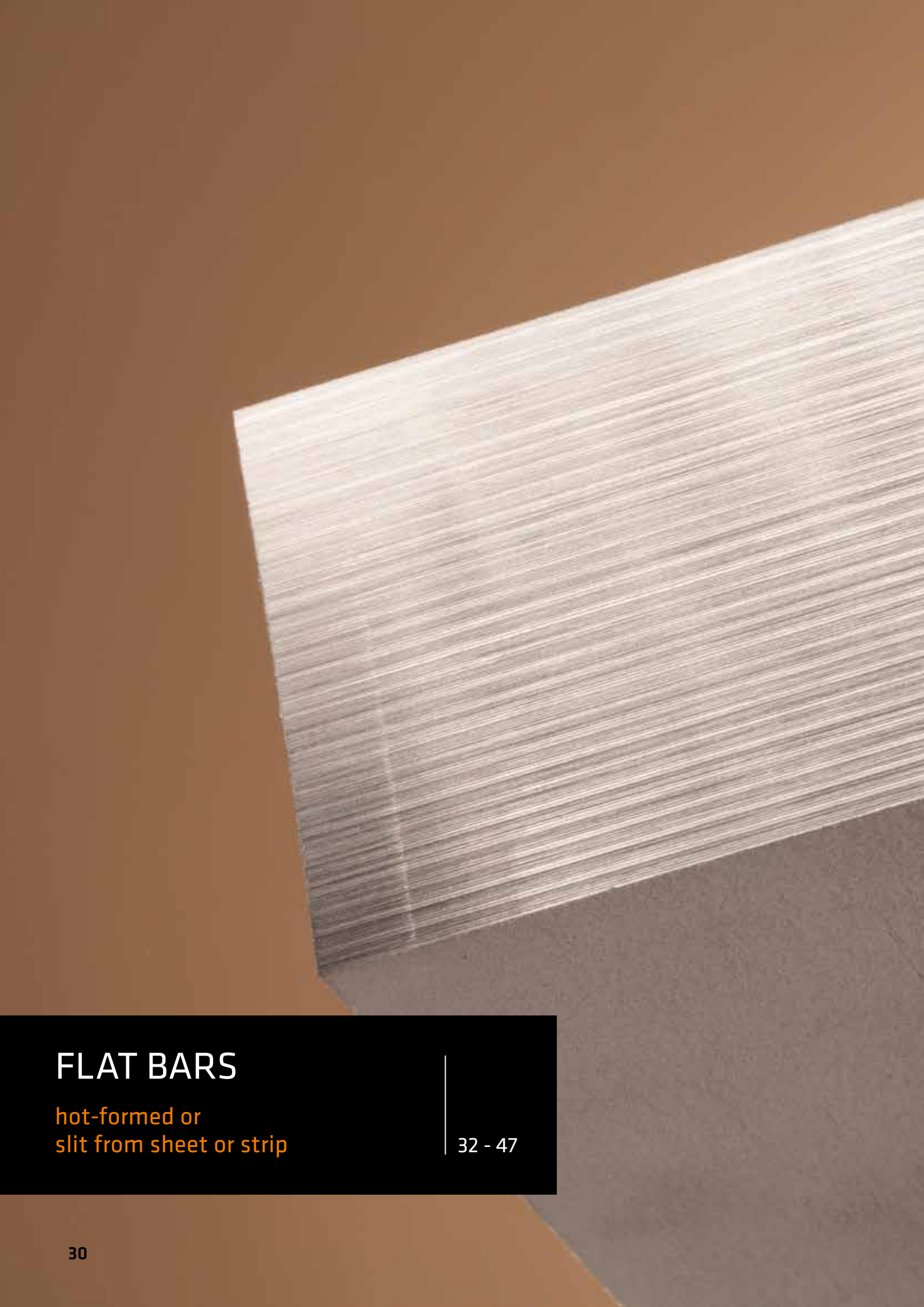
Square bars | hot-formed | Duplex

mm	Theoret. weight kg/m	Grade 1.4462 UNS S31803 *) Duplex
20,00	3,14	▪
25,00	4,91	▪
30,00	7,07	▪
40,00	12,56	▪
50,00	19,63	▪

* Finishes see page 25

mm	Theoret. weight kg/m	Grade 1.4301 AISI 304 *)	Grade 1.4307 AISI 304L *)	Grade 1.4571 AISI 316Ti *)
70,00	33,31	▪	▪	▪
75,00	38,24			▪
80,00	43,51			▪
85,00	49,12			▪
90,00	55,07			▪

* Finishes see page 25



FLAT BARS

hot-formed or
slit from sheet or strip

32 - 47

Flat and flexible

The use of flat bars is variable. It is being cold-formed or cut from sheet or strip. Upon request it may be refined and grade and finish may be adapted to your individual need.

Flat bars | hot-formed or slit from sheet or strip

in random lenghts of 4 to 6m

* solution annealed, pickled (slit flat bars before cutting), some in non-descaled finish

** hardened and tempered, pickled, partly in non-descaled finish

*** annealed, in non-descaled finish

Dimension standards

DIN EN 10058 for hot-formed products

For slit products and material thicknesses <5mm, the above mentioned standard goes only for width and thickness tolerances.

Test certificates

DIN EN 10204 3.1 or works' test certificate 2.1/2.2

*/**/*** Classification see page 32 - 47

mm	Theoret. weight kg/m	Grade 1.4057 AISI 431 **)	Grade 1.4301 AISI 304 *)	Grade 1.4307 AISI 304L *)	Grade 1.4401 AISI 316 *)	Grade 1.4404 AISI 316L *)	Grade 1.4541 AISI 321 *)	Grade 1.4571 AISI 316Ti *)
10 x 4	0,31		▪	▪				
10 x 5	0,39		▪	▪				▪
10 x 6	0,47		▪	▪				▪
12 x 3	0,28		▪	▪				
12 x 4	0,38		▪	▪				
12 x 5	0,47		▪	▪				
12 x 6	0,57		▪	▪				▪
12 x 8	0,75		▪	▪				▪
12 x 10	0,94		▪	▪				
15 x 3	0,35		▪	▪				▪
15 x 4	0,47		▪	▪				
15 x 5	0,59		▪	▪				▪
15 x 6	0,71		▪	▪				▪
15 x 8	0,94		▪	▪				▪
15 x 10	1,18		▪	▪				▪
20 x 3	0,47		▪	▪				▪
20 x 4	0,63		▪	▪				▪
20 x 5	0,79		▪	▪	▪	▪	▪	▪
20 x 6	0,94		▪	▪	▪	▪	▪	▪
20 x 8	1,26		▪	▪	▪	▪	▪	▪
20 x 10	1,57		▪	▪	▪	▪	▪	▪
20 x 12	1,88		▪	▪	▪	▪	▪	▪
20 x 15	2,36		▪	▪	▪	▪	▪	▪
25 x 3	0,59		▪	▪				
25 x 4	0,79		▪	▪				▪
25 x 5	0,98		▪	▪	▪	▪	▪	▪
25 x 6	1,18		▪	▪	▪	▪	▪	▪
25 x 8	1,57		▪	▪	▪	▪	▪	▪
25 x 10	1,96		▪	▪	▪	▪	▪	▪
25 x 12	2,36		▪	▪	▪	▪	▪	▪
25 x 15	2,94		▪	▪	▪	▪	▪	▪
25 x 20	3,93		▪	▪	▪	▪	▪	▪
30 x 3	0,71		▪	▪				
30 x 4	0,94		▪	▪				▪
30 x 5	1,18		▪	▪	▪	▪	▪	▪
30 x 6	1,41		▪	▪	▪	▪	▪	▪
30 x 8	1,88		▪	▪	▪	▪	▪	▪
30 x 10	2,36		▪	▪	▪	▪	▪	▪
30 x 12	2,83		▪	▪	▪	▪	▪	▪

*/**Finishes see page 31

mm	Theoret. weight kg/m	Grade 1.4057 AISI 431 **)	Grade 1.4301 AISI 304 *)	Grade 1.4307 AISI 304L *)	Grade 1.4401 AISI 316 *)	Grade 1.4404 AISI 316L *)	Grade 1.4541 AISI 321 *)	Grade 1.4571 AISI 316Ti *)
30 x 15	3,53		▪	▪	▪	▪	▪	▪
30 x 20	4,71	▪	▪	▪	▪	▪	▪	▪
30 x 25	5,89		▪	▪	▪	▪	▪	▪
35 x 3	0,82		▪	▪				
35 x 4	1,10		▪	▪				
35 x 5	1,37		▪	▪	▪	▪		▪
35 x 6	1,65		▪	▪	▪	▪	▪	▪
35 x 8	2,20		▪	▪	▪	▪	▪	▪
35 x 10	2,75		▪	▪	▪	▪	▪	▪
35 x 12	3,30		▪	▪	▪	▪	▪	▪
35 x 15	4,12		▪	▪	▪	▪	▪	▪
35 x 20	5,50		▪	▪	▪	▪	▪	▪
35 x 25	6,87		▪	▪	▪	▪	▪	▪
35 x 30	8,24		▪	▪				▪
40 x 4	1,26		▪	▪	▪	▪		▪
40 x 5	1,57		▪	▪	▪	▪	▪	▪
40 x 6	1,88		▪	▪	▪	▪	▪	▪
40 x 8	2,51		▪	▪	▪	▪	▪	▪
40 x 10	3,14		▪	▪	▪	▪	▪	▪
40 x 12	3,77		▪	▪	▪	▪	▪	▪
40 x 15	4,71		▪	▪	▪	▪	▪	▪
40 x 20	6,28	▪	▪	▪	▪	▪	▪	▪
40 x 25	7,85		▪	▪	▪	▪	▪	▪
40 x 30	9,42	▪	▪	▪	▪	▪	▪	▪
40 x 35	10,99		▪	▪				▪
45 x 5	1,77		▪	▪				
45 x 6	2,12		▪	▪	▪	▪		▪
45 x 8	2,83		▪	▪			▪	▪
45 x 10	3,53		▪	▪	▪	▪	▪	▪
45 x 12	4,24		▪	▪				▪
45 x 15	5,30		▪	▪			▪	▪
45 x 20	7,07		▪	▪			▪	▪
45 x 25	8,83		▪	▪				▪
45 x 30	10,60		▪	▪				▪
45 x 35	12,36							▪
45 x 40	14,13							▪
50 x 4	1,57		▪	▪				
50 x 5	1,96		▪	▪	▪	▪	▪	▪
50 x 6	2,36		▪	▪	▪	▪	▪	▪

*/** Finishes see page 31

mm	Theoret. weight kg/m	Grade 1.4057 AISI 431 **)	Grade 1.4301 AISI 304 *)	Grade 1.4307 AISI 304L *)	Grade 1.4401 AISI 316 *)	Grade 1.4404 AISI 316L *)	Grade 1.4541 AISI 321 *)	Grade 1.4571 AISI 316Ti *)
50 x 8	3,14	▪	▪	▪	▪	▪	▪	▪
50 x 10	3,93	▪	▪	▪	▪	▪	▪	▪
50 x 12	4,71		▪	▪	▪	▪	▪	▪
50 x 15	5,89		▪	▪	▪	▪	▪	▪
50 x 20	7,85	▪	▪	▪	▪	▪	▪	▪
50 x 25	9,81		▪	▪	▪	▪	▪	▪
50 x 30	11,78	▪	▪	▪	▪	▪	▪	▪
50 x 35	13,74		▪	▪	▪	▪	▪	▪
50 x 40	15,70		▪	▪	▪	▪	▪	▪
50 x 45	17,66							▪
55 x 8	3,45		▪	▪				▪
55 x 10	4,32		▪	▪				▪
55 x 12	5,18		▪	▪				
55 x 15	6,48		▪	▪			▪	▪
55 x 20	8,64		▪	▪				▪
55 x 25	10,79		▪	▪				▪
55 x 30	12,95		▪	▪				▪
60 x 4	1,88		▪	▪				
60 x 5	2,36		▪	▪	▪	▪	▪	▪
60 x 6	2,83		▪	▪	▪	▪	▪	▪
60 x 8	3,77		▪	▪	▪	▪	▪	▪
60 x 10	4,71		▪	▪	▪	▪	▪	▪
60 x 12	5,65		▪	▪	▪	▪	▪	▪
60 x 15	7,07		▪	▪	▪	▪	▪	▪
60 x 20	9,42	▪	▪	▪	▪	▪	▪	▪
60 x 25	11,78		▪	▪	▪	▪	▪	▪
60 x 30	14,13		▪	▪	▪	▪	▪	▪
60 x 35	16,49		▪	▪	▪	▪	▪	▪
60 x 40	18,84		▪	▪	▪	▪	▪	▪
60 x 45	21,20		▪	▪				▪
60 x 50	23,55		▪	▪	▪	▪	▪	▪
65 x 8	4,08		▪	▪				
65 x 10	5,10		▪	▪				
65 x 12	6,12		▪	▪				▪
65 x 15	7,65		▪	▪			▪	▪
65 x 20	10,21		▪	▪				▪
65 x 25	12,76		▪	▪				▪
65 x 30	15,31		▪	▪				▪
65 x 35	17,86		▪	▪				▪

*/** Finishes see page 31

mm	Theoret. weight kg/m	Grade 1.4057 AISI 431 **)	Grade 1.4301 AISI 304 *)	Grade 1.4307 AISI 304L *)	Grade 1.4401 AISI 316 *)	Grade 1.4404 AISI 316L *)	Grade 1.4541 AISI 321 *)	Grade 1.4571 AISI 316Ti *)
65 x 40	20,41		▪	▪				
70 x 5	2,75		▪	▪				▪
70 x 6	3,30		▪	▪				▪
70 x 8	4,40		▪	▪	▪	▪	▪	▪
70 x 10	5,50		▪	▪	▪	▪	▪	▪
70 x 12	6,59		▪	▪	▪	▪	▪	▪
70 x 15	8,24		▪	▪	▪	▪	▪	▪
70 x 20	10,99		▪	▪	▪	▪	▪	▪
70 x 25	13,74		▪	▪	▪	▪	▪	▪
70 x 30	16,49		▪	▪	▪	▪	▪	▪
70 x 35	19,23		▪	▪	▪	▪	▪	▪
70 x 40	21,98		▪	▪	▪	▪	▪	▪
70 x 45	24,73		▪	▪	▪	▪		▪
70 x 50	27,48		▪	▪	▪	▪	▪	▪
70 x 60	32,97		▪	▪	▪	▪	▪	▪
75 x 8	4,71		▪	▪	▪	▪		
75 x 10	5,89		▪	▪				▪
75 x 12	7,07		▪	▪				▪
75 x 15	8,83		▪	▪			▪	▪
75 x 20	11,78		▪	▪				▪
75 x 25	14,72		▪	▪			▪	
75 x 30	17,66		▪	▪				▪
75 x 35	20,61		▪	▪				
75 x 50	29,44		▪	▪				
75 x 60	35,33							▪
80 x 5	3,14		▪	▪				
80 x 6	3,77		▪	▪	▪	▪	▪	▪
80 x 8	5,02		▪	▪	▪	▪	▪	▪
80 x 10	6,28		▪	▪	▪	▪	▪	▪
80 x 12	7,54		▪	▪	▪	▪	▪	▪
80 x 15	9,42		▪	▪	▪	▪	▪	▪
80 x 20	12,56	▪	▪	▪	▪	▪	▪	▪
80 x 25	15,70		▪	▪	▪	▪	▪	▪
80 x 30	18,84		▪	▪	▪	▪	▪	▪
80 x 35	21,98		▪	▪	▪	▪	▪	▪
80 x 40	25,12		▪	▪	▪	▪	▪	▪
80 x 45	28,26		▪	▪				▪
80 x 50	31,40		▪	▪	▪	▪	▪	▪
80 x 60	37,68		▪	▪	▪	▪	▪	▪

*/** Finishes see page 31

mm	Theoret. weight kg/m	Grade 1.4057 AISI 431 **)	Grade 1.4301 AISI 304 *)	Grade 1.4307 AISI 304L *)	Grade 1.4401 AISI 316 *)	Grade 1.4404 AISI 316L *)	Grade 1.4541 AISI 321 *)	Grade 1.4571 AISI 316Ti *)
90 x 6	4,24		▪	▪				
90 x 8	5,65		▪	▪				▪
90 x 10	7,07		▪	▪	▪	▪	▪	▪
90 x 12	8,48		▪	▪			▪	▪
90 x 15	10,60		▪	▪	▪	▪	▪	▪
90 x 20	14,13		▪	▪	▪	▪	▪	▪
90 x 25	17,66		▪	▪	▪	▪	▪	▪
90 x 30	21,20		▪	▪	▪	▪	▪	▪
90 x 35	24,73		▪	▪	▪	▪		▪
90 x 40	28,26		▪	▪	▪	▪	▪	▪
90 x 45	31,79		▪	▪				▪
90 x 50	35,33		▪	▪	▪	▪	▪	▪
90 x 60	42,39		▪	▪	▪	▪	▪	▪
90 x 70	49,46						▪	▪
100 x 5	3,93		▪	▪				▪
100 x 6	4,71		▪	▪				▪
100 x 8	6,28		▪	▪	▪	▪	▪	▪
100 x 10	7,85		▪	▪	▪	▪	▪	▪
100 x 12	9,42		▪	▪	▪	▪	▪	▪
100 x 15	11,78		▪	▪	▪	▪	▪	▪
100 x 20	15,70		▪	▪	▪	▪	▪	▪
100 x 25	19,63		▪	▪	▪	▪		▪
100 x 30	23,55		▪	▪	▪	▪	▪	▪
100 x 35	27,48		▪	▪	▪	▪	▪	▪
100 x 40	31,40		▪	▪	▪	▪	▪	▪
100 x 45	35,33		▪	▪				▪
100 x 50	39,25		▪	▪	▪	▪	▪	▪
100 x 60	47,10		▪	▪	▪	▪	▪	▪
100 x 70	54,95		▪	▪			▪	▪
110 x 8	6,91		▪	▪				▪
110 x 10	8,64		▪	▪			▪	▪
110 x 12	10,36		▪	▪			▪	▪
110 x 15	12,95		▪	▪			▪	▪
110 x 20	17,27		▪	▪			▪	▪
110 x 25	21,59		▪	▪				▪
110 x 30	25,91		▪	▪			▪	▪
120 x 6	5,65		▪	▪				▪
120 x 8	7,54		▪	▪	▪	▪	▪	▪
120 x 10	9,42		▪	▪	▪	▪	▪	▪

*/** Finishes see page 31

mm	Theoret. weight kg/m	Grade 1.4057 AISI 431 **)	Grade 1.4301 AISI 304 *)	Grade 1.4307 AISI 304L *)	Grade 1.4401 AISI 316 *)	Grade 1.4404 AISI 316L *)	Grade 1.4541 AISI 321 *)	Grade 1.4571 AISI 316Ti *)
120 x 12	11,30		▪	▪	▪	▪	▪	▪
120 x 15	14,13		▪	▪	▪	▪	▪	▪
120 x 20	18,84		▪	▪	▪	▪	▪	▪
120 x 25	23,55		▪	▪	▪	▪	▪	▪
120 x 30	28,26		▪	▪	▪	▪	▪	▪
120 x 40	37,68		▪	▪	▪	▪	▪	▪
120 x 50	47,10		▪	▪	▪	▪	▪	▪
120 x 60	56,52		▪	▪	▪	▪	▪	▪
120 x 70	65,94						▪	▪
130 x 8	8,16		▪	▪				
130 x 10	10,21		▪	▪	▪	▪		▪
130 x 12	12,25		▪	▪				▪
130 x 15	15,31		▪	▪	▪	▪		▪
130 x 20	20,41		▪	▪	▪	▪	▪	▪
130 x 25	25,51		▪	▪	▪	▪	▪	▪
130 x 30	30,62		▪	▪	▪	▪		▪
130 x 40	40,82				▪	▪	▪	▪
130 x 50	51,03						▪	▪
130 x 60	61,23							▪
130 x 70	71,44							▪
140 x 10	10,99		▪	▪	▪	▪		▪
140 x 12	13,19		▪	▪	▪	▪		▪
140 x 15	16,49		▪	▪	▪	▪		▪
140 x 20	21,98		▪	▪	▪	▪	▪	▪
140 x 25	27,48		▪	▪				▪
140 x 30	32,97		▪	▪	▪	▪		▪
140 x 40	43,96				▪	▪	▪	▪
140 x 50	54,95							▪
140 x 60	65,94							▪
150 x 8	9,42		▪	▪				
150 x 10	11,78		▪	▪	▪	▪	▪	▪
150 x 12	14,13		▪	▪	▪	▪		▪
150 x 15	17,66		▪	▪	▪	▪	▪	▪
150 x 20	23,55		▪	▪	▪	▪	▪	▪
150 x 25	29,44		▪	▪	▪	▪	▪	▪
150 x 30	35,33		▪	▪	▪	▪	▪	▪
150 x 40	47,10		▪	▪	▪	▪		▪
150 x 50	58,88		▪	▪	▪	▪		▪
160 x 15	18,84		▪	▪				

*/** Finishes see page 31

mm	Theoret. weight kg/m	Grade 1.4057 AISI 431 **)	Grade 1.4301 AISI 304 *)	Grade 1.4307 AISI 304L *)	Grade 1.4401 AISI 316 *)	Grade 1.4404 AISI 316L *)	Grade 1.4541 AISI 321 *)	Grade 1.4571 AISI 316Ti *)
160 x 20	25,12		▪	▪				
160 x 25	31,40		▪	▪				
160 x 30	37,68		▪	▪				
160 x 40	50,24		▪	▪				
180 x 12	16,96		▪	▪				
180 x 15	21,20		▪	▪				
180 x 20	28,26		▪	▪				
180 x 25	35,33		▪	▪				
180 x 30	42,39		▪	▪				
180 x 40	56,52		▪	▪				
200 x 15	23,55		▪	▪				
200 x 20	31,40		▪	▪				
200 x 30	47,10		▪	▪				
200 x 40	62,80		▪	▪				

*/** Finishes see page 31

mm	Theoret. weight kg/m	Grade 1.4713 ***)	Grade 1.4828 AISI 309 *)	Grade 1.4841 AISI 314 *)	Grade 1.4878 AISI 321H *)
15 x 5	0,59			▪	
20 x 4	0,63			▪	
20 x 5	0,79				▪
20 x 6	0,94			▪	▪
20 x 8	1,26		▪	▪	▪
20 x 10	1,57		▪	▪	▪
20 x 12	1,88				▪
20 x 15	2,36				▪
25 x 5	0,98			▪	▪
25 x 6	1,18			▪	▪
25 x 8	1,57			▪	▪
25 x 10	1,96			▪	▪
25 x 12	2,36				▪
25 x 15	2,94				▪
25 x 20	3,93				▪
30 x 5	1,18	▪	▪	▪	▪
30 x 6	1,41	▪	▪	▪	▪
30 x 8	1,88	▪	▪	▪	▪
30 x 10	2,36		▪	▪	▪
30 x 12	2,83			▪	▪
30 x 15	3,53		▪	▪	▪
30 x 20	4,71		▪	▪	▪
30 x 25	5,89				▪
35 x 5	1,37			▪	
35 x 6	1,65				▪
35 x 8	2,20				▪
35 x 10	2,75				▪
35 x 12	3,30				▪
35 x 15	4,12				▪
35 x 20	5,50				▪
35 x 25	6,87				▪
40 x 5	1,57	▪	▪	▪	▪
40 x 6	1,88	▪	▪	▪	▪
40 x 8	2,51		▪	▪	▪
40 x 10	3,14	▪	▪	▪	▪
40 x 12	3,77			▪	▪
40 x 15	4,71			▪	▪
40 x 20	6,28		▪	▪	▪
40 x 25	7,85				▪

*/*** Finishes see page 31

mm	Theoret. weight kg/m	Grade 1.4713 ***)	Grade 1.4828 AISI 309 *)	Grade 1.4841 AISI 314 *)	Grade 1.4878 AISI 321H *)
40 x 30	9,42				▪
45 x 8	2,83				▪
45 x 10	3,53				▪
45 x 15	5,30				▪
45 x 20	7,07				▪
50 x 5	1,96	▪	▪	▪	▪
50 x 6	2,36	▪	▪	▪	▪
50 x 8	3,14	▪	▪	▪	▪
50 x 10	3,93	▪	▪	▪	▪
50 x 12	4,71	▪	▪	▪	▪
50 x 15	5,89	▪	▪	▪	▪
50 x 20	7,85		▪	▪	▪
50 x 25	9,81			▪	▪
50 x 30	11,78			▪	▪
50 x 35	13,74				▪
50 x 40	15,70				▪
55 x 15	6,48				▪
60 x 5	2,36			▪	▪
60 x 6	2,83	▪	▪	▪	▪
60 x 8	3,77		▪	▪	▪
60 x 10	4,71		▪	▪	▪
60 x 12	5,65		▪	▪	▪
60 x 15	7,07		▪	▪	▪
60 x 20	9,42		▪	▪	▪
60 x 25	11,78				▪
60 x 30	14,13				▪
60 x 35	16,49				▪
60 x 40	18,84			▪	▪
60 x 50	23,55				▪
65 x 15	7,65				▪
70 x 6	3,30			▪	
70 x 8	4,40				▪
70 x 10	5,50	▪	▪	▪	▪
70 x 12	6,59				▪
70 x 15	8,24				▪
70 x 20	10,99				▪
70 x 25	13,74				▪
70 x 30	16,49				▪
70 x 35	19,23				▪

*/*** Finishes see page 31

mm	Theoret. weight kg/m	Grade 1.4713 ***)	Grade 1.4828 AISI 309 *)	Grade 1.4841 AISI 314 *)	Grade 1.4878 AISI 321H *)
70 x 40	21,98				▪
70 x 50	27,48				▪
70 x 60	32,97				▪
75 x 15	8,83				▪
75 x 25	14,72				▪
80 x 5	3,14			▪	
80 x 6	3,77			▪	▪
80 x 8	5,02		▪	▪	▪
80 x 10	6,28	▪	▪	▪	▪
80 x 12	7,54			▪	▪
80 x 15	9,42		▪	▪	▪
80 x 20	12,56		▪	▪	▪
80 x 25	15,70				▪
80 x 30	18,84				▪
80 x 35	21,98				▪
80 x 40	25,12				▪
80 x 50	31,40				▪
80 x 60	37,68				▪
90 x 10	7,07				▪
90 x 12	8,48				▪
90 x 15	10,60				▪
90 x 20	14,13				▪
90 x 25	17,66				▪
90 x 30	21,20				▪
90 x 40	28,26				▪
90 x 50	35,33				▪
90 x 60	42,39				▪
90 x 70	49,46				▪
100 x 8	6,28		▪	▪	▪
100 x 10	7,85		▪	▪	▪
100 x 12	9,42		▪	▪	▪
100 x 15	11,78		▪	▪	▪
100 x 20	15,70		▪	▪	▪
100 x 30	23,55				▪
100 x 35	27,48				▪
100 x 40	31,40				▪
100 x 50	39,25				▪
100 x 60	47,10				▪
100 x 70	54,95				▪

*/*** Finishes see page 31

mm	Theoret. weight kg/m	Grade 1.4713 ***)	Grade 1.4828 AISI 309 *)	Grade 1.4841 AISI 314 *)	Grade 1.4878 AISI 321H *)
110 x 10	8,64				▪
110 x 12	10,36				▪
110 x 15	12,95				▪
110 x 20	17,27				▪
110 x 30	25,91				▪
120 x 8	7,54				▪
120 x 10	9,42				▪
120 x 12	11,30				▪
120 x 15	14,13				▪
120 x 20	18,84				▪
120 x 25	23,55				▪
120 x 30	28,26				▪
120 x 40	37,68				▪
120 x 50	47,10				▪
120 x 60	56,52				▪
120 x 70	65,94				▪
130 x 20	20,41				▪
130 x 25	25,51				▪
130 x 40	40,82				▪
130 x 50	51,03				▪
140 x 20	21,98				▪
140 x 40	43,96				▪
150 x 10	11,78				▪
150 x 15	17,66				▪
150 x 20	23,55				▪
150 x 25	29,44				▪
150 x 30	35,33				▪

*/*** Finishes see page 31

mm	Theoret. weight kg/m	Grade 1.4301 AISI 304 *)	Grade 1.4307 AISI 304L *)	Grade 1.4401 AISI 316 *)	Grade 1.4404 AISI 316L *)	Grade 1.4541 AISI 321 *)	Grade 1.4571 AISI 316Ti *)
10 x 3	0,24	▪	▪				▪
10 x 4	0,31	▪	▪				
10 x 5	0,39	▪	▪				
12 x 3	0,28	▪	▪				▪
12 x 4	0,38	▪	▪				
12 x 5	0,47						
15 x 3	0,35	▪	▪				▪
15 x 4	0,47	▪	▪				▪
15 x 5	0,59	▪	▪			▪	▪
15 x 6	0,71	▪	▪				
20 x 2	0,31	▪	▪				
20 x 3	0,47	▪	▪	▪	▪	▪	▪
20 x 4	0,63	▪	▪	▪	▪	▪	▪
20 x 5	0,79	▪	▪	▪	▪	▪	▪
20 x 6	0,94	▪	▪	▪	▪		▪
20 x 8	1,26	▪	▪				▪
20 x 10	1,57	▪	▪				▪
25 x 2	0,40	▪	▪				
25 x 3	0,59	▪	▪	▪	▪	▪	▪
25 x 4	0,79	▪	▪	▪	▪	▪	▪
25 x 5	0,98	▪	▪	▪	▪	▪	▪
25 x 6	1,18	▪	▪	▪	▪	▪	▪
25 x 8	1,57	▪	▪	▪	▪	▪	▪
30 x 2	0,47	▪	▪				
30 x 3	0,71	▪	▪	▪	▪	▪	▪
30 x 4	0,94	▪	▪	▪	▪	▪	▪
30 x 5	1,18	▪	▪	▪	▪	▪	▪
30 x 6	1,41	▪	▪	▪	▪	▪	▪
30 x 8	1,88	▪	▪	▪	▪	▪	▪
30 x 10	2,36	▪	▪	▪	▪	▪	▪
35 x 3	0,82	▪	▪				▪
35 x 4	1,10	▪	▪				▪
35 x 5	1,37	▪	▪			▪	▪
35 x 6	1,65	▪	▪			▪	▪
35 x 8	2,20	▪	▪				▪
35 x 10	2,75	▪	▪				▪
40 x 2	0,63	▪	▪				
40 x 3	0,94	▪	▪	▪	▪		▪
40 x 4	1,26	▪	▪	▪	▪	▪	▪

* Finishes see page 31

mm	Theoret. weight kg/m	Grade 1.4301 AISI 304 *)	Grade 1.4307 AISI 304L *)	Grade 1.4401 AISI 316 *)	Grade 1.4404 AISI 316L *)	Grade 1.4541 AISI 321 *)	Grade 1.4571 AISI 316Ti *)
40 x 5	1,57	▪	▪	▪	▪	▪	▪
40 x 6	1,88	▪	▪	▪	▪	▪	▪
40 x 8	2,51	▪	▪	▪	▪	▪	▪
40 x 10	3,14	▪	▪	▪	▪	▪	▪
40 x 12	3,77	▪	▪			▪	▪
45 x 3	1,06	▪	▪				
45 x 4	1,41	▪	▪				▪
45 x 5	1,77	▪	▪			▪	▪
45 x 6	2,12	▪	▪			▪	
45 x 8	2,83	▪	▪			▪	▪
45 x 10	3,53	▪	▪				▪
45 x 12	4,24	▪	▪				
50 x 3	1,18	▪	▪				▪
50 x 4	1,57	▪	▪	▪	▪	▪	▪
50 x 5	1,96	▪	▪	▪	▪	▪	▪
50 x 6	2,36	▪	▪	▪	▪	▪	▪
50 x 8	3,14	▪	▪	▪	▪	▪	▪
50 x 10	3,93	▪	▪	▪	▪	▪	▪
50 x 12	4,71	▪	▪	▪	▪	▪	▪
55 x 5	2,16	▪	▪				
55 x 6	2,59	▪	▪				
55 x 8	3,45	▪	▪				
55 x 10	4,32	▪	▪				
60 x 3	1,41	▪	▪				▪
60 x 4	1,88	▪	▪			▪	▪
60 x 5	2,36	▪	▪	▪	▪	▪	▪
60 x 6	2,83	▪	▪	▪	▪	▪	▪
60 x 8	3,77	▪	▪	▪	▪	▪	▪
60 x 10	4,71	▪	▪	▪	▪	▪	▪
60 x 12	5,65	▪	▪			▪	▪
65 x 5	2,55	▪	▪				
65 x 8	4,08	▪	▪				
65 x 12	6,12	▪	▪				
70 x 3	1,65	▪	▪				
70 x 4	2,20	▪	▪				▪
70 x 5	2,75	▪	▪	▪	▪	▪	▪
70 x 6	3,30	▪	▪			▪	▪
70 x 8	4,40	▪	▪	▪	▪	▪	▪
70 x 10	5,50	▪	▪	▪	▪	▪	▪

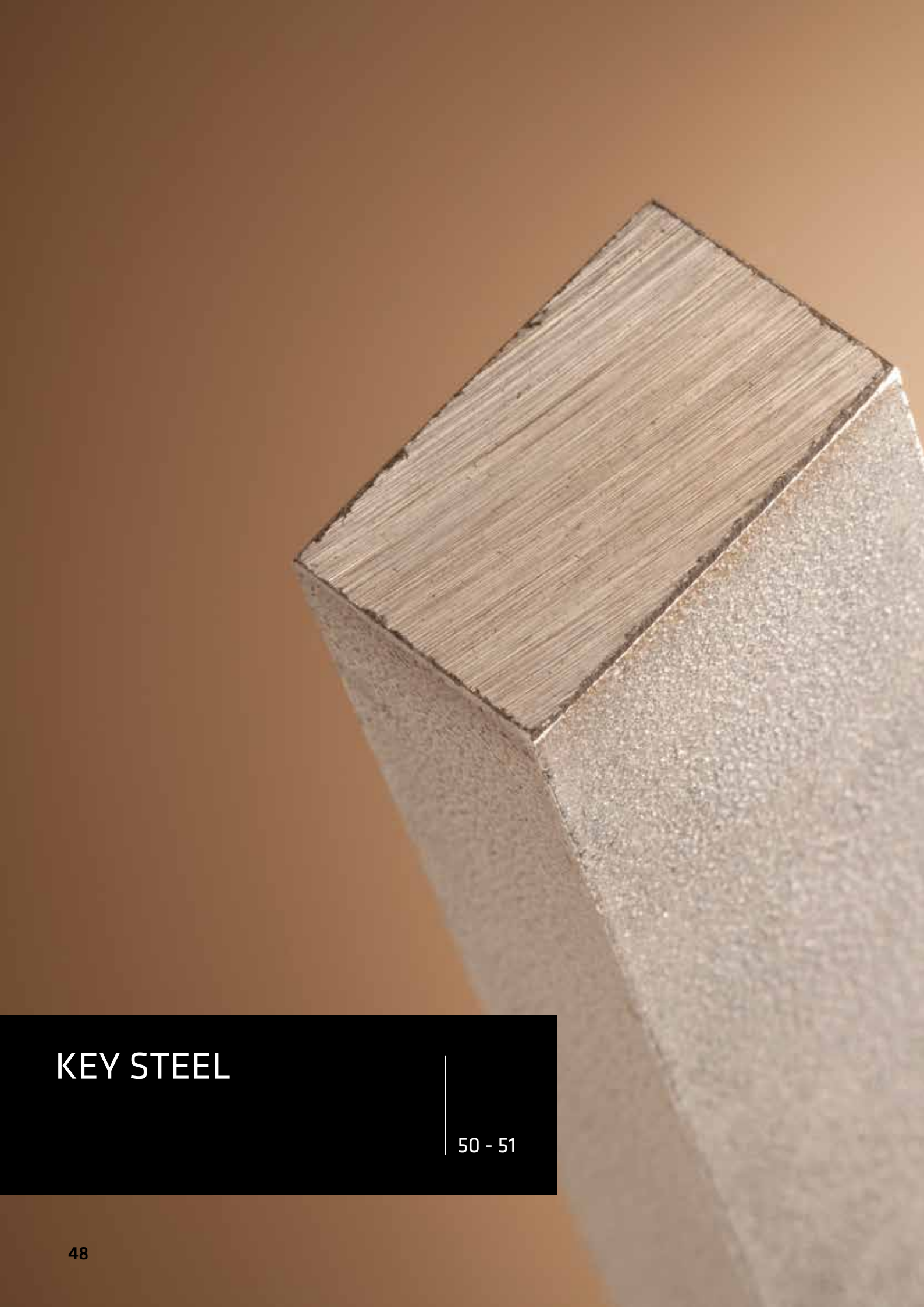
* Finishes see page 31

mm	Theoret. weight kg/m	Grade 1.4301 AISI 304 *)	Grade 1.4307 AISI 304L *)	Grade 1.4401 AISI 316 *)	Grade 1.4404 AISI 316L *)	Grade 1.4541 AISI 321 *)	Grade 1.4571 AISI 316Ti *)
70 x 12	6,59	▪	▪				▪
75 x 5	2,94	▪	▪				
75 x 6	3,53	▪	▪				
75 x 8	4,71	▪	▪				▪
75 x 10	5,89	▪	▪				
80 x 3	1,88	▪	▪				▪
80 x 4	2,51	▪	▪				▪
80 x 5	3,14	▪	▪	▪	▪	▪	▪
80 x 6	3,77	▪	▪	▪	▪	▪	▪
80 x 8	5,02	▪	▪	▪	▪	▪	▪
80 x 10	6,28	▪	▪	▪	▪	▪	▪
80 x 12	7,54	▪	▪			▪	▪
90 x 4	2,83	▪	▪				
90 x 5	3,53	▪	▪				▪
90 x 6	4,24	▪	▪				▪
90 x 8	5,65	▪	▪				▪
90 x 10	7,07	▪	▪				▪
90 x 12	8,48	▪	▪				▪
100 x 3	2,36	▪	▪				▪
100 x 4	3,14	▪	▪				▪
100 x 5	3,93	▪	▪	▪	▪	▪	▪
100 x 6	4,71	▪	▪	▪	▪	▪	▪
100 x 8	6,28	▪	▪	▪	▪	▪	▪
100 x 10	7,85	▪	▪	▪	▪	▪	▪
100 x 12	9,42	▪	▪			▪	▪
110 x 5	4,32	▪	▪				
110 x 6	5,18	▪	▪				▪
110 x 8	6,91	▪	▪				▪
110 x 10	8,64	▪	▪				▪
110 x 12	10,36	▪	▪				▪
120 x 4	3,77	▪	▪				
120 x 5	4,71	▪	▪				▪
120 x 6	5,65	▪	▪	▪	▪		▪
120 x 8	7,54	▪	▪	▪	▪		▪
120 x 10	9,42	▪	▪	▪	▪		▪
120 x 12	11,30	▪	▪				▪
130 x 6	6,12	▪	▪				▪
130 x 8	8,16	▪	▪				▪
130 x 10	10,21	▪	▪				▪

* Finishes see page 31

mm	Theoret. weight kg/m	Grade 1.4301 AISI 304 *)	Grade 1.4307 AISI 304L *)	Grade 1.4401 AISI 316 *)	Grade 1.4404 AISI 316L *)	Grade 1.4541 AISI 321 *)	Grade 1.4571 AISI 316Ti *)
130 x 12	12,25	▪	▪				▪
140 x 5	5,50	▪	▪				
140 x 6	6,59	▪	▪				▪
140 x 8	8,79	▪	▪				▪
140 x 10	10,99	▪	▪				▪
140 x 12	13,19	▪	▪				▪
150 x 5	5,89	▪	▪				▪
150 x 6	7,07	▪	▪				▪
150 x 8	9,42	▪	▪				▪
150 x 10	11,78	▪	▪	▪	▪		▪
150 x 12	14,13	▪	▪				▪
160 x 5	6,28	▪	▪				
160 x 6	7,54	▪	▪				
160 x 8	10,05	▪	▪				▪
160 x 10	12,56	▪	▪				▪
160 x 12	15,07	▪	▪				▪
160 x 15	18,84						▪
180 x 6	8,48	▪	▪				
180 x 8	11,30	▪	▪				▪
180 x 10	14,13	▪	▪				▪
180 x 12	16,96	▪	▪				▪
180 x 15	21,20						▪
200 x 5	7,85	▪	▪				▪
200 x 6	9,42	▪	▪				▪
200 x 8	12,56	▪	▪				▪
200 x 10	15,70	▪	▪				▪
200 x 12	18,84	▪	▪				▪
200 x 15	23,55						▪
200 x 20	31,40						▪
220 x 8	13,82	▪	▪				
250 x 6	11,78	▪	▪				
250 x 8	15,70	▪	▪				▪
250 x 10	19,63	▪	▪				▪
250 x 12	23,55	▪	▪				▪
250 x 15	29,44	▪	▪				▪
300 x 6	14,13	▪	▪				
300 x 8	18,84	▪	▪				
300 x 10	23,55	▪	▪				
300 x 12	28,26	▪	▪				

* Finishes see page 31



KEY STEEL

Precision has top priority

Key steel is always being used when precision is required, so e.g. the machine and plant construction industry uses it in the production of keys and feather keys. Just let us know what you need – we have the right solution for you - available ex stock.

Key steel
in random lengths of 3 to 3.2m

* solution annealed, sharp-edged, cold-drawn

Dimension standards
DIN 6880

Test certificates
DIN EN 10204 3.1

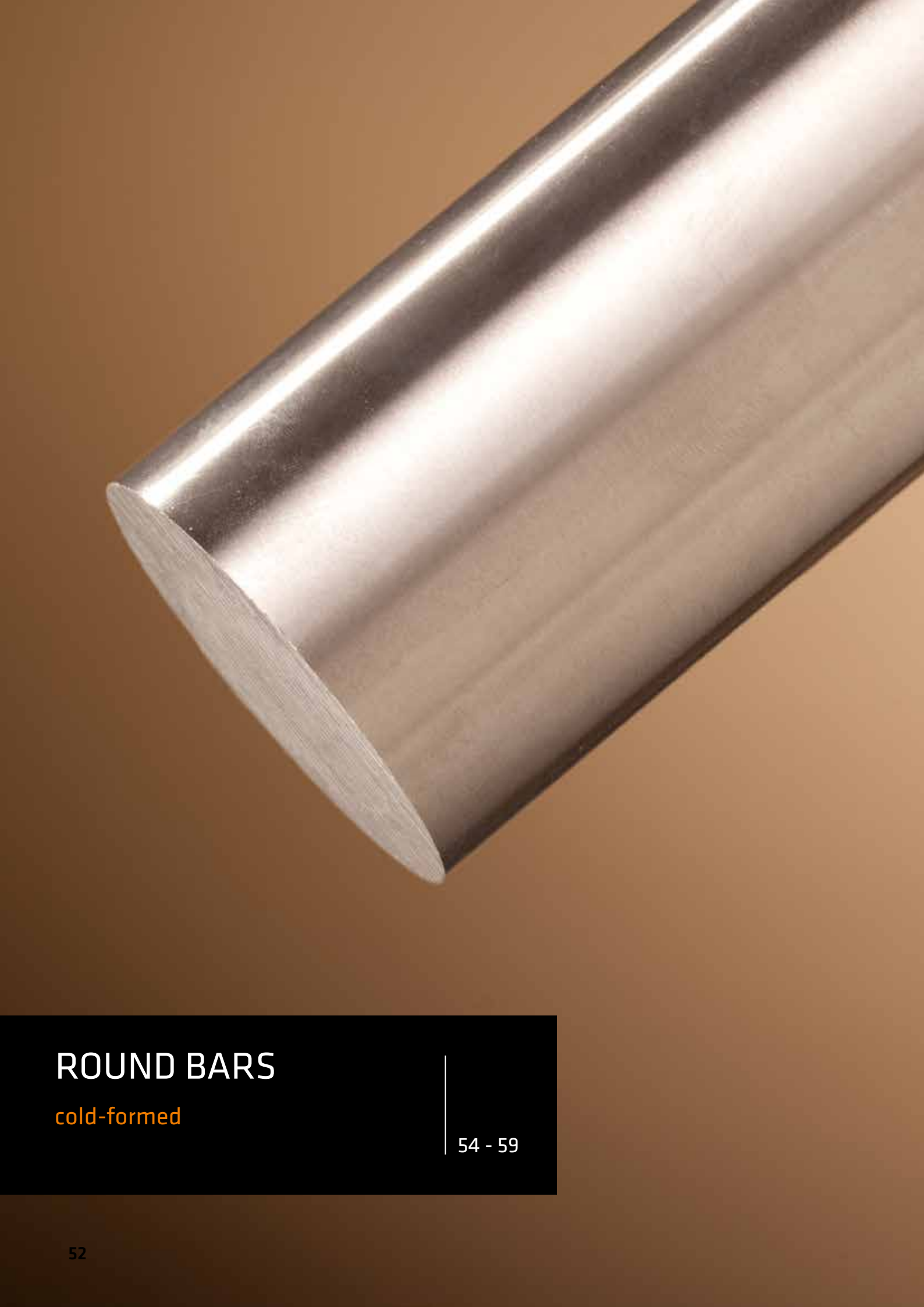
* Classification see page 50 - 51

mm	Theoret. weight kg/m	Grade 1.4571 AISI 316Ti *)
5 x 3	0,12	▪
6 x 4	0,19	▪
8 x 5	0,32	▪
8 x 6	0,38	▪
8 x 7	0,45	▪
10 x 6	0,47	▪
10 x 8	0,63	▪
12 x 6	0,57	▪
12 x 8	0,75	▪
12 x 10	0,94	▪
14 x 6	0,66	▪
14 x 9	1,01	▪
16 x 10	1,26	▪
18 x 11	1,58	▪
20 x 12	1,88	▪
22 x 14	2,42	▪
25 x 14	2,75	▪
28 x 16	3,52	▪
32 x 18	4,52	▪
36 x 20	5,65	▪
40 x 22	7,04	▪
45 x 25	8,83	▪

* Finishes see page 49

mm	Theoret. weight kg/m	Grade 1.4571 AISI 316Ti *)
3	0,07	▪
4	0,13	▪
5	0,20	▪
6	0,28	▪
10	0,79	▪

* Finishes see page 49



ROUND BARS

cold-formed

Well-measured precision

Extreme stability and durability – these are the features of cold-formed round bars. Our quality management controls that measures are exact and quality standards for resistance and surface refinement are respected.

Round bars | cold-formed

in random lenghts of approx. 3m, partly in lenghts of 6m

*	solution annealed
**	hardened and tempered
***	annealed
****	solution annealed in delivery condition, including notes on mechanical properties when precipitation-hardened

Dimension standards

DIN EN 10278 h6, h8 or h9

Test certificates

DIN EN 10204 3.1 or works‘ test certificate 2.1/2.2

*/**/***/**** Classification see page 54 - 59

mm	Theoret. weight kg/m	Grade 1.4021 AISI 420 **)	Grade 1.4034 AISI 420 ***)	Grade 1.4057 AISI 431 **)	Grade 1.4104 AISI 430F ***)	Grade 1.4112 AISI 440B ***)	Grade 1.4122 AISI 440B **)	Grade 1.4301 AISI 304 *)	Grade 1.4305 AISI 303 *)
2,00	0,03							▪	▪
2,50	0,04							▪	▪
3,00	0,06				▪			▪	▪
3,50	0,08							▪	▪
4,00	0,10	▪			▪	▪		▪	▪
4,50	0,13							▪	▪
5,00	0,15		▪	▪	▪	▪	▪	▪	▪
5,50	0,19							▪	▪
6,00	0,22	▪	▪	▪	▪	▪	▪	▪[1)2)]	▪
6,50	0,26							▪	▪
7,00	0,31		▪		▪			▪	▪
7,50	0,35							▪	
8,00	0,40	▪	▪	▪	▪	▪	▪	▪[1)2)4)]	▪[4)]
9,00	0,50	▪			▪	▪		▪	▪
9,50	0,56								▪
10,00	0,62	▪	▪	▪	▪	▪	▪	▪[1)2)3)4)]	▪[2)4)]
11,00	0,75		▪		▪	▪		▪	▪
12,00	0,89	▪	▪	▪	▪	▪	▪	▪[1)2)3)4)]	▪[2)4)]
12,70	1,01								
13,00	1,04	▪			▪		▪	▪	▪
14,00	1,21	▪	▪	▪	▪	▪	▪	▪[1)4)]	▪[2)4)]
15,00	1,39	▪	▪	▪	▪	▪	▪	▪[1)2)4)]	▪[4)]
15,87	1,58								
16,00	1,58	▪	▪	▪	▪	▪	▪	▪[1)2)4)]	▪[2)4)]
17,00	1,78			▪	▪	▪		▪	▪
18,00	2,00	▪	▪	▪	▪	▪	▪	▪[1)4)]	▪[4)]
19,00	2,23				▪			▪	▪
19,05	2,28								
20,00	2,47	▪	▪	▪	▪	▪	▪	▪[1)2)3)4)]	▪[2)4)]
21,00	2,72	▪		▪	▪			▪	▪
22,00	2,98	▪	▪	▪	▪	▪	▪	▪	▪
22,25	3,11								
23,00	3,26				▪			▪	▪
24,00	3,55	▪	▪	▪	▪		▪	▪	▪
25,00	3,85	▪	▪	▪	▪	▪	▪	▪[1)2)3)]	▪[2)]
25,40	4,05								
26,00	4,17	▪	▪	▪	▪	▪	▪	▪	▪

[1)] dimensions also available in lengths of 6m
[2)] also available acc. to DIN EN 10278 h8
[3)] also available acc. to DIN EN 10278 h6
[4)] polished
*/**/***/**** Finishes see page 53

mm	Theoret. weight kg/m	Grade 1.4307 AISI 304L *)	Grade 1.4401 AISI 316 *)	Grade 1.4404 AISI 316L *)	Grade 1.4418 **)	Grade 1.4541 AISI 321 *)	Grade 1.4542 AISI 630 ****)	Grade 1.4571 AISI 316Ti *)
2,00	0,03	▪						▪
2,50	0,04	▪						▪[1]
3,00	0,06	▪				▪		▪
3,50	0,08	▪						▪[1]
4,00	0,10	▪	▪	▪		▪		▪
4,50	0,13	▪						
5,00	0,15	▪	▪	▪		▪		▪
5,50	0,19	▪						
6,00	0,22	▪[1][2]	▪	▪		▪		▪[1]
6,50	0,26	▪						
7,00	0,31	▪						▪
7,50	0,35	▪						
8,00	0,40	▪[1][2][4]	▪	▪		▪		▪[1]
9,00	0,50	▪				▪		▪
9,50	0,56							
10,00	0,62	▪[1][2][3][4]	▪	▪		▪	▪	▪[1]
11,00	0,75	▪						▪
12,00	0,89	▪[1][2][3][4]	▪[1]	▪[1]	▪	▪		▪[1]
12,70	1,01						▪	
13,00	1,04	▪				▪		▪
14,00	1,21	▪[1][4]	▪	▪		▪		▪[1]
15,00	1,39	▪[1][2][4]	▪[1]	▪[1]	▪	▪		▪[1]
15,87	1,58						▪	
16,00	1,58	▪[1][2][4]	▪	▪	▪	▪		▪[1]
17,00	1,78	▪	▪	▪		▪		▪
18,00	2,00	▪[1][4]	▪	▪		▪		▪[1]
19,00	2,23	▪				▪		▪
19,05	2,28						▪	
20,00	2,47	▪[1][2][3][4]	▪[1]	▪[1]	▪	▪		▪[1]
21,00	2,72	▪						▪
22,00	2,98	▪	▪	▪	▪	▪		▪
22,25	3,11						▪	
23,00	3,26	▪						
24,00	3,55	▪	▪	▪		▪		▪
25,00	3,85	▪[1][2][3]	▪[1]	▪[1]		▪		▪[1]
25,40	4,05						▪	
26,00	4,17	▪	▪	▪		▪		▪

[1] dimensions also available in lengths of 6m
[2] also available acc. to DIN EN 10278 h8
[3] also available acc. to DIN EN 10278 h6
[4] polished
*/**/***/**** Finishes see page 53

mm	Theoret. weight kg/m	Grade 1.4021 AISI 420 **)	Grade 1.4034 AISI 420 ***)	Grade 1.4057 AISI 431 **)	Grade 1.4104 AISI 430F ***)	Grade 1.4112 AISI 440B ***)	Grade 1.4122 AISI 440B **)	Grade 1.4301 AISI 304 *)	Grade 1.4305 AISI 303 *)
27,00	4,50				▪			▪	▪
28,00	4,83	▪	▪	▪	▪	▪	▪	▪	▪
29,00	5,19								▪
30,00	5,55	▪	▪	▪	▪	▪	▪	▪[1)2)3)]	▪[2)]
32,00	6,31	▪	▪	▪	▪	▪	▪	▪	▪
33,00	6,71				▪			▪	▪
34,00	7,13				▪			▪	▪
35,00	7,55	▪	▪	▪	▪	▪	▪	▪[1)2)3)]	▪
36,00	7,99	▪	▪	▪	▪	▪	▪	▪	▪
38,00	8,90	▪		▪	▪	▪	▪	▪	▪
40,00	9,87	▪	▪	▪	▪	▪	▪	▪[1)2)3)]	▪
42,00	10,88	▪	▪	▪	▪		▪	▪	▪
43,00	11,40								▪
45,00	12,49	▪	▪	▪	▪	▪	▪	▪[1)2)]	▪
46,00	13,05	▪							▪
48,00	14,21	▪			▪			▪	▪
50,00	15,41	▪	▪	▪	▪	▪	▪	▪[1)2)3)]	▪
52,00	16,62				▪				▪
55,00	18,65	▪	▪	▪	▪	▪	▪	▪[2)]	▪
60,00	22,20	▪	▪	▪	▪	▪	▪	▪[1)2)]	▪
65,00	26,05	▪		▪	▪			▪	▪
70,00	30,21	▪		▪	▪		▪	▪[1)]	▪
75,00	34,68	▪		▪	▪			▪	▪
80,00	39,46	▪		▪	▪		▪	▪[1)]	▪
85,00	44,55	▪		▪	▪			▪	▪
90,00	49,94	▪		▪	▪			▪[1)]	▪
95,00	55,64							▪	▪
100,00	61,65	▪		▪	▪			▪[1)]	▪

[1)] dimensions also available in lengths of 6m
[2)] also available acc. to DIN EN 10278 h8
[3)] also available acc. to DIN EN 10278 h6
[4)] polished
*/**/***/**** Finishes see page 53

mm	Theoret. weight kg/m	Grade 1.4307 AISI 304L *)	Grade 1.4401 AISI 316 *)	Grade 1.4404 AISI 316L *)	Grade 1.4418 **)	Grade 1.4541 AISI 321 *)	Grade 1.4542 AISI 630 ****)	Grade 1.4571 AISI 316Ti *)
27,00	4,50	▪						▪
28,00	4,83	▪	▪	▪		▪		▪
29,00	5,19							
30,00	5,55	▪[1)2)3)]	▪[1)]	▪[1)]		▪		▪[1)]
32,00	6,31	▪	▪	▪		▪		▪
33,00	6,71	▪						
34,00	7,13	▪						▪
35,00	7,55	▪[1)2)3)]	▪	▪		▪		▪[1)]
36,00	7,99	▪	▪	▪		▪		▪
38,00	8,90	▪	▪	▪				▪
40,00	9,87	▪[1)2)3)]	▪[1)]	▪[1)]		▪		▪[1)]
42,00	10,88	▪	▪	▪				▪
43,00	11,40							
45,00	12,49	▪[1)2)]	▪	▪		▪		▪[1)]
46,00	13,05							
48,00	14,21	▪						▪
50,00	15,41	▪[1)2)3)]	▪[1)]	▪[1)]		▪		▪[1)]
52,00	16,62							
55,00	18,65	▪[2)]	▪	▪		▪		▪[1)]
60,00	22,20	▪[1)2)]	▪[1)]	▪[1)]		▪		▪[1)]
65,00	26,05	▪	▪	▪		▪		▪[1)]
70,00	30,21	▪[1)]	▪[1)]	▪[1)]		▪		▪[1)]
75,00	34,68	▪	▪	▪		▪		▪[1)]
80,00	39,46	▪[1)]	▪[1)]	▪[1)]		▪		▪[1)]
85,00	44,55	▪	▪	▪				▪
90,00	49,94	▪[1)]	▪	▪		▪		▪[1)]
95,00	55,64	▪				▪		▪
100,00	61,65	▪[1)]	▪[1)]	▪[1)]		▪		▪[1)]

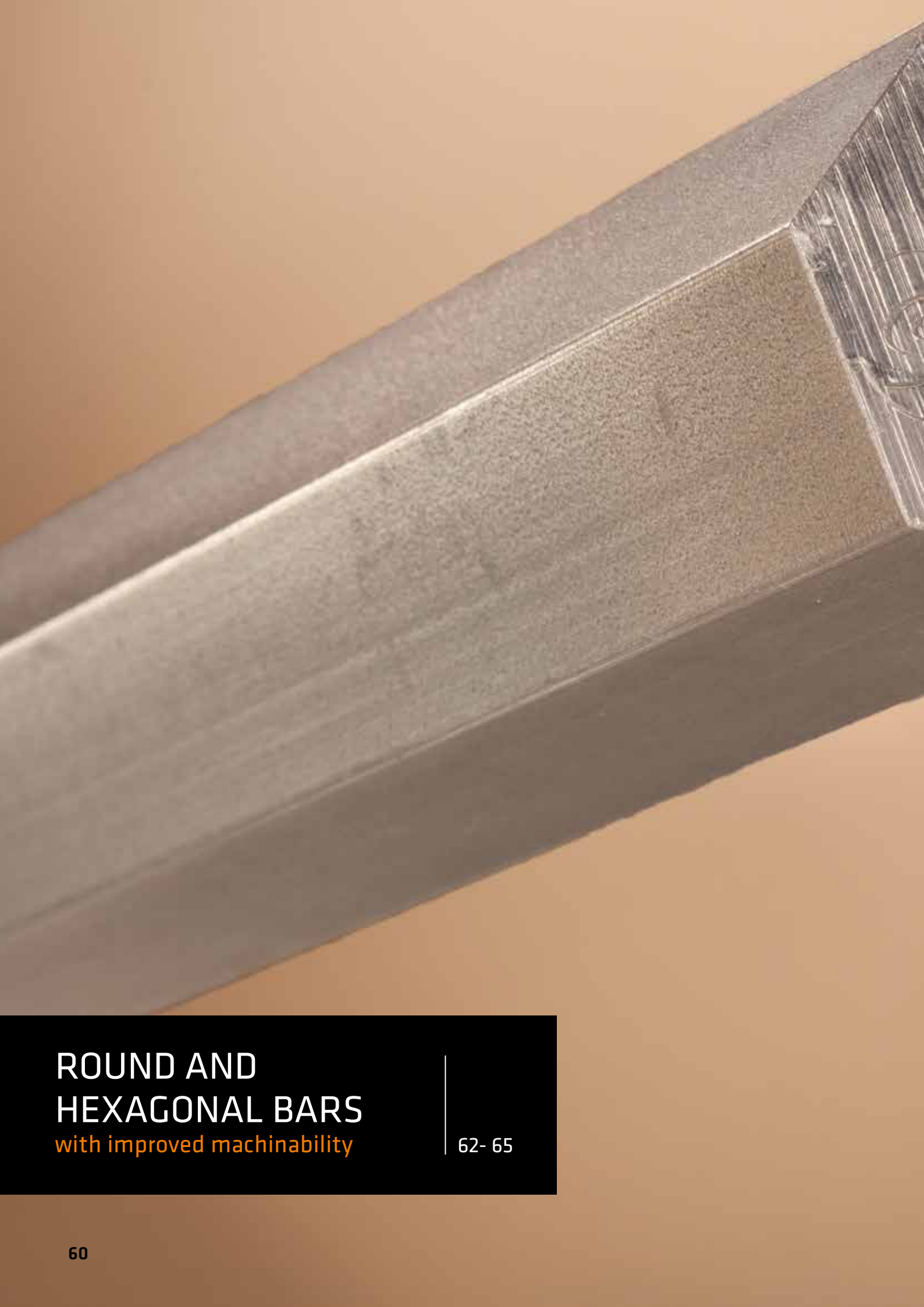
[1)] dimensions also available in lengths of 6m
[2)] also available acc. to DIN EN 10278 h8
[3)] also available acc. to DIN EN 10278 h6
[4)] polished
*/**/***/**** Finishes see page 53

mm	Theor. Gewicht kg/m	Grade 1.4841 AISI 314 *)	Grade 1.4923 **)
3,00	0,06	▪	
4,00	0,10	▪	
5,00	0,15	▪	
10,00	0,62		▪
15,00	1,39		▪
20,00	2,47		▪

*/** Finishes see page 53

mm	Theor. Gewicht kg/m	Grade 1.4460 UNS S32900 *) Duplex	Grade 1.4462 UNS S31803 *) Duplex
8,00	0,40		▪
10,00	0,62	▪	▪
12,00	0,89	▪	▪
14,00	1,21		▪
15,00	1,39		▪
16,00	1,58	▪	▪
18,00	2,00	▪	▪
20,00	2,47	▪	▪
22,00	2,98	▪	▪
24,00	3,55	▪	
25,00	3,85	▪	▪
26,00	4,17		
28,00	4,83		▪
30,00	5,55	▪	▪
32,00	6,31	▪	
35,00	7,55	▪	▪
38,00	8,90		
40,00	9,87	▪	▪
45,00	12,49	▪	▪
50,00	15,41	▪	▪
55,00	18,65	▪	
60,00	22,20	▪	▪
70,00	30,21	▪	▪
80,00	39,46	▪	

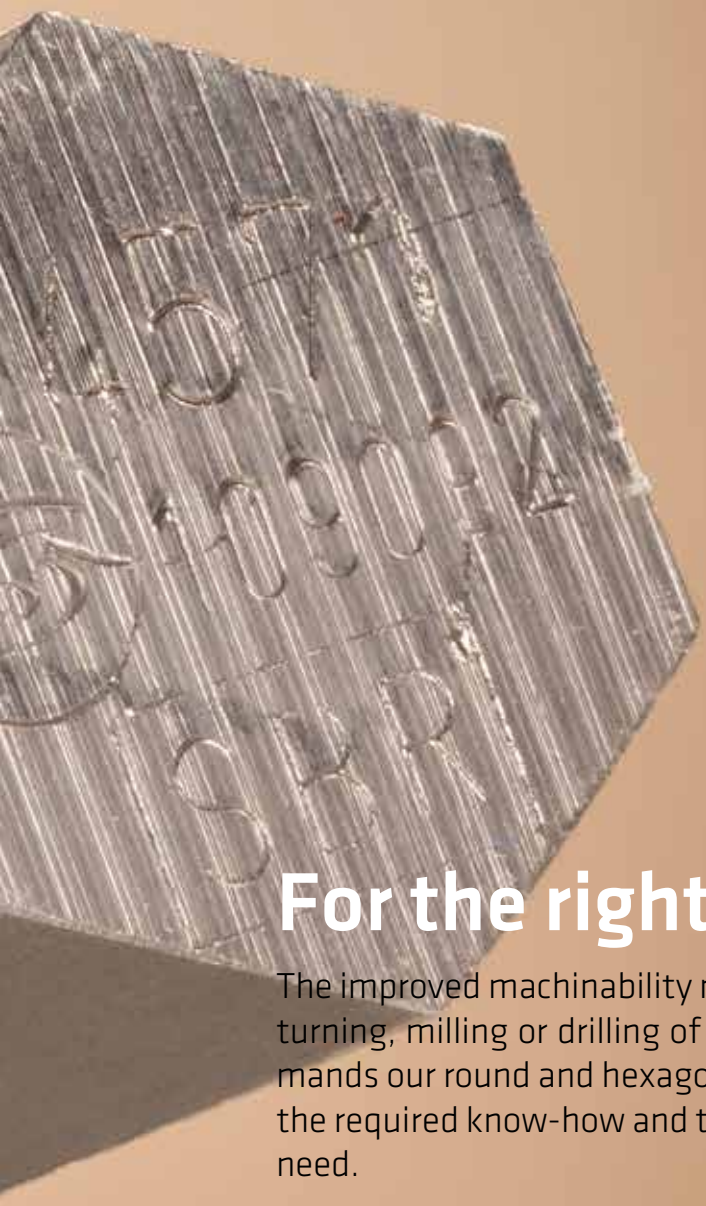
* Finishes see page 53



ROUND AND HEXAGONAL BARS

with improved machinability

62- 65



For the right turning

The improved machinability mainly takes effect when it comes to the turning, milling or drilling of workpieces. It doesn't matter which demands our round and hexagonal bars have to meet – our experts have the required know-how and they will find the optimal product for your need.

Round and hexagonal bars | with improved machinability

in random lenghts of 3 to 6m (round)
in random lenghts of 3 to 4m (hexagonal)

* solution annealed and quenched, hot-formed, peeled or drawn
and/ or machined (round)
heat-treated and cold-formed (hexagonal)

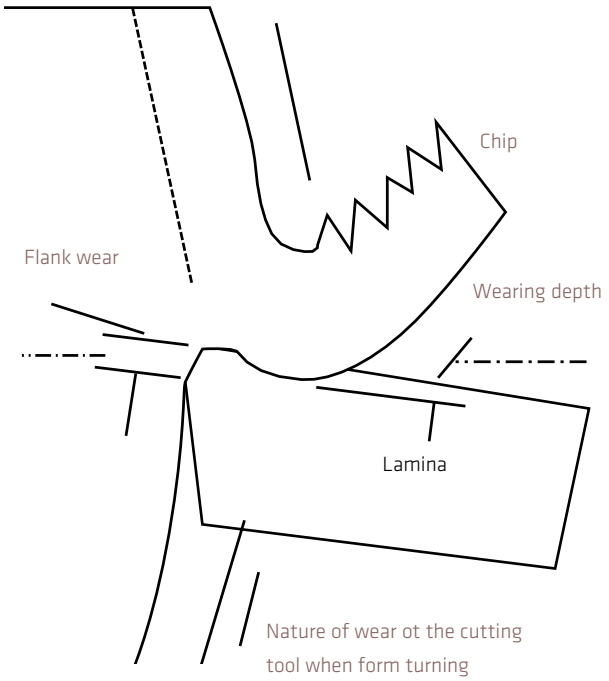
Dimension standards

round: DIN EN 10060 (hot-formed), DIN EN 10278 h9 (cold-formed)
hexagonal: DIN EN 10061 (hot-formed), DIN EN 10278 h11 (cold-formed)

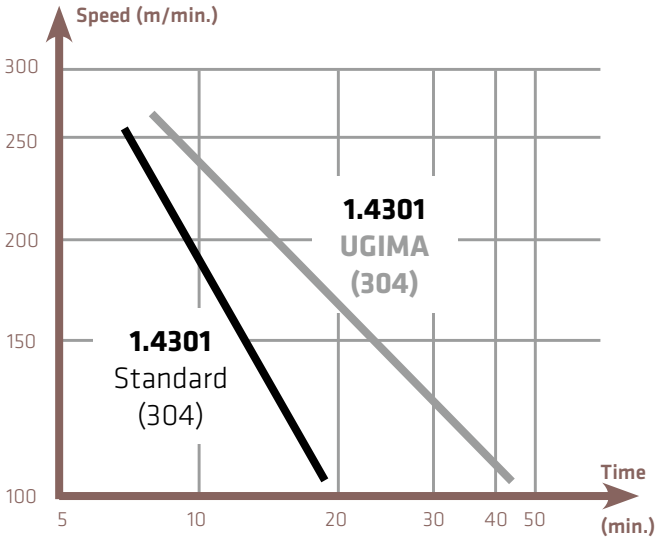
Test certificates

DIN EN 10204 3.1

* Classification see page 63 - 65



Nature of wear ot the cutting tool when form turning

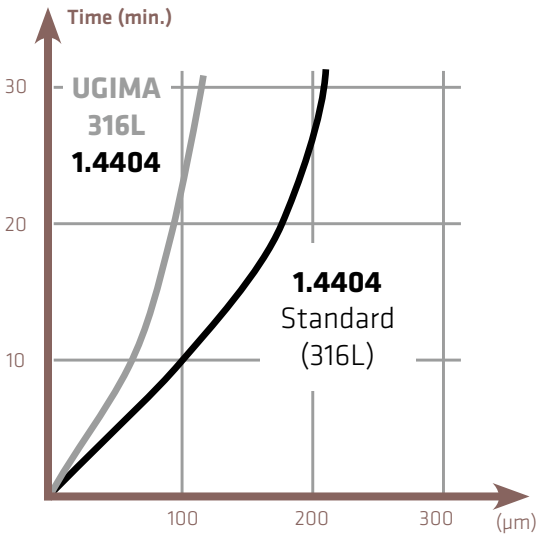


Taylor straights lines for a flank wear of 0.2 mm

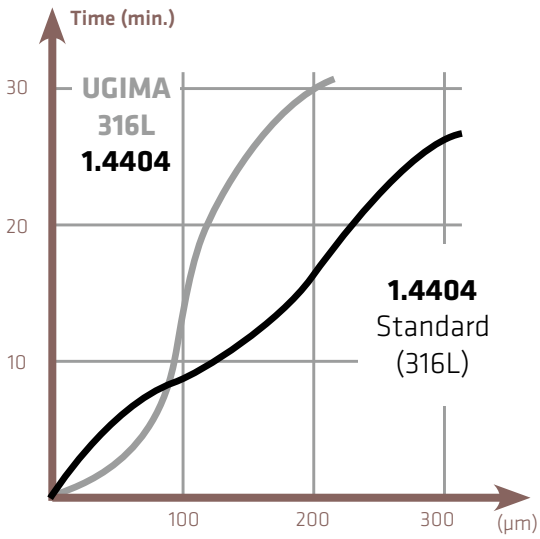
Cutting material:	Coated hard metal TiN
Advance:	0.16 mm
Cutting depth:	2 mm

Form turning

Cutting material:	P20 ISO
Speed:	180 m/min.
Advance:	0.25 mm
Cutting depth:	1.5 mm



Wearing depth



Flank wear

mm	Theoret. weight kg/m	Grade 1.4301 Ugima *)	Grade 1.4305 Ugima *)	Grade 1.4404 Ugima *)	Grade 1.4435 Ugima *)	Grade 1.4571 Ugima *)
30,00	5,55				▪	
35,00	7,55			▪	▪	
36,00	7,99				▪	
40,00	9,87	▪			▪	
45,00	12,49	▪			▪	▪
48,00	14,21					
50,00	15,41	▪	▪	▪	▪	▪
51,20	16,46			▪		
52,00	16,62				▪	
55,00	18,65	▪	▪		▪	▪
56,20	19,84	▪				
60,00	22,20	▪	▪	▪	▪	▪
61,20	23,52	▪		▪		
65,00	26,05	▪			▪	▪
66,20	26,86			▪		
70,00	30,21	▪		▪	▪	▪
75,00	34,68	▪	▪	▪	▪	▪
80,00	39,46	▪		▪	▪	▪
85,00	44,55				▪	
86,40	46,88	▪				
90,00	49,94	▪	▪	▪	▪	▪
95,00	55,64				▪	▪
100,00	61,65	▪	▪	▪	▪	
105,00	67,97				▪	
107,00	70,55	▪				
110,00	74,60	▪	▪		▪	
115,00	81,54				▪	▪
120,00	88,78	▪			▪	
125,00	96,33				▪	▪

* Finishes see page 61

mm	Theoret. weight kg/m	Grade 1.4301 Ugima *)	Grade 1.4305 Ugima *)	Grade 1.4404 Ugima *)	Grade 1.4435 Ugima *)	Grade 1.4571 Ugima *)
4,00	0,10				▪	
5,00	0,15				▪	
6,00	0,22		▪		▪	
8,00	0,40	▪	▪	▪	▪	▪
10,00	0,62	▪	▪	▪	▪	▪
12,00	0,89	▪	▪	▪	▪	▪
13,00	1,04		▪		▪	
14,00	1,21	▪	▪	▪	▪	▪
15,00	1,39	▪	▪	▪	▪	▪
16,00	1,58	▪	▪	▪	▪	▪
17,00	1,78		▪			
18,00	2,00	▪	▪	▪	▪	▪
19,00	2,23		▪			
20,00	2,47	▪	▪	▪	▪	▪
21,00	2,72	▪				
22,00	2,98	▪	▪	▪	▪	▪
24,00	3,55	▪	▪		▪	▪
25,00	3,85	▪	▪	▪	▪	▪
26,00	4,17		▪	▪	▪	▪
28,00	4,83	▪	▪		▪	▪
30,00	5,55	▪	▪	▪	▪	▪
32,00	6,31	▪	▪	▪	▪	▪
33,00	6,71		▪			
34,00	7,13		▪			
35,00	7,55	▪	▪	▪	▪	▪
36,00	7,99	▪	▪	▪		▪
38,00	8,90	▪	▪		▪	
40,00	9,87	▪	▪	▪	▪	▪
42,00	10,88	▪		▪	▪	
45,00	12,49	▪	▪	▪	▪	
50,00	15,41	▪	▪	▪	▪	▪
55,00	18,65	▪	▪	▪	▪	
60,00	22,20	▪	▪	▪	▪	▪
65,00	26,05	▪	▪		▪	
70,00	30,21	▪				
80,00	39,46	▪				
90,00	49,94	▪	▪			

* Finishes see page 61

mm	Theor. Gewicht kg/m	Grade 1.4301 Ugima *)	Grade 1.4571 Ugima *)
14,00	1,33		▪
17,00	1,97		▪
19,00	2,45	▪	▪
22,00	3,29		▪
24,00	3,92	▪	▪
27,00	4,96	▪	▪
30,00	6,12	▪	
32,00	6,96		▪
36,00	8,81		▪
41,00	11,43	▪	▪
50,00	17,00		▪
55,00	20,57		▪

* Finishes see page 61

SQUARE AND HEXAGONAL BARS

cold-formed

68 - 71

Always on a safe footing

When extreme stability and durability are required, square and hexagonal bars are often used – e.g.for machine and plant constructions. And that is for sure: thanks to our long time experience with the material, you can always rely on our specific advice and an optimal product availability.

Square and hexagonal bars | cold-formed

in random lenghts of 3 to 4m, heat-treated and cold-formed

* solution annealed
** hardenend and tempered
*** annealed, pickled

Dimension standards

DIN EN 10278 h11

Test certificates

DIN EN 10204 3.1 or works‘ test certificate 2.1/2.2

*/**/*** Classification see page 68 - 71

mm	Theoret. weight kg/m	Grade 1.4104 AISI 430F ***)	Grade 1.4301 AISI 304 *)	Grade 1.4305 AISI 303 *)	Grade 1.4307 AISI 304L *)	Grade 1.4401 AISI 316 *)	Grade 1.4404 AISI 316L *)	Grade 1.4571 AISI 316Ti *)
4,00	0,13		▪		▪			▪
5,00	0,20	▪	▪	▪	▪			▪
6,00	0,28	▪	▪	▪	▪			▪
7,00	0,39		▪	▪	▪			▪
8,00	0,50	▪	▪	▪	▪			▪
9,00	0,64		▪	▪	▪			
10,00	0,79	▪	▪	▪	▪	▪	▪	▪
11,00	0,95		▪	▪	▪			
12,00	1,13	▪	▪	▪	▪	▪	▪	▪
13,00	1,33		▪	▪	▪			
14,00	1,54	▪	▪	▪	▪			▪
15,00	1,77	▪	▪	▪	▪	▪	▪	▪
16,00	2,01	▪	▪	▪	▪	▪	▪	▪
18,00	2,54	▪	▪	▪	▪			▪
20,00	3,14	▪	▪	▪	▪	▪	▪	▪
22,00	3,80	▪	▪	▪	▪			▪
24,00	4,52		▪	▪	▪			▪
25,00	4,91	▪	▪	▪	▪	▪	▪	▪
27,00	5,72							▪
30,00	7,07	▪	▪	▪	▪	▪	▪	▪
32,00	8,04			▪				▪
35,00	9,62	▪	▪	▪	▪	▪	▪	▪
40,00	12,56	▪	▪	▪	▪	▪	▪	▪
45,00	15,90	▪	▪	▪	▪	▪	▪	▪
50,00	19,63	▪	▪	▪	▪	▪	▪	▪
55,00	23,75			▪				
60,00	28,26	▪	▪	▪	▪	▪	▪	▪
70,00	38,47		▪	▪	▪			▪
80,00	50,24		▪	▪	▪			▪
100,00	78,50		▪		▪			▪

*/**/*** Finishes see page 67

mm	Theoret. weight kg/m	Grade 1.4057 AISI 431 **)	Grade 1.4104 AISI 430F ***)	Grade 1.4301 AISI 304 *)	Grade 1.4305 AISI 303 *)	Grade 1.4307 AISI 304L *)	Grade 1.4401 AISI 316 *)	Grade 1.4404 AISI 316L *)	Grade 1.4435 AISI 316L *)	Grade 1.4541 AISI 321 *)	Grade 1.4571 AISI 316Ti *)
5,00	0,17		▪		▪						
6,00	0,25		▪		▪						▪
7,00	0,33		▪	▪	▪	▪	▪	▪			
8,00	0,44		▪	▪	▪	▪	▪	▪			▪
9,00	0,55		▪	▪	▪	▪					
10,00	0,68		▪	▪	▪	▪	▪	▪			▪
11,00	0,82	▪	▪	▪	▪	▪					▪
12,00	0,98		▪	▪	▪	▪					▪
13,00	1,15	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
14,00	1,33		▪	▪	▪	▪	▪	▪	▪		▪
15,00	1,53				▪						
17,00	1,97	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
19,00	2,45	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
22,00	3,29	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
24,00	3,92	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
27,00	4,96		▪	▪	▪	▪	▪	▪	▪	▪	▪
30,00	6,12	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
32,00	6,96		▪	▪	▪	▪	▪	▪	▪	▪	▪
36,00	8,81	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
41,00	11,43	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
46,00	14,39		▪	▪	▪	▪	▪	▪		▪	▪
50,00	17,00		▪	▪	▪	▪	▪	▪		▪	▪
55,00	20,57		▪	▪	▪	▪	▪	▪		▪	▪
60,00	24,48		▪	▪	▪	▪	▪	▪		▪	▪
65,00	28,72			▪		▪				▪	▪
70,00	33,31										▪

*/**/*** Finishes see page 67

mm	Theoret. weight kg/m	Grade 1.4539 AISI 904L *)
19,00	2,45	▪
24,00	3,92	▪
27,00	4,96	▪
30,00	6,12	▪
32,00	6,96	▪
36,00	8,81	▪
41,00	11,43	▪

* Finishes see page 67

mm	Theoret. weight kg/m	Grade 1.4841 AISI 314 *)	Grade 1.4878 AISI 321H *)
13,00	1,15	▪	▪
17,00	1,97	▪	▪
19,00	2,45	▪	▪
22,00	3,29		▪
24,00	3,92	▪	▪
27,00	4,96	▪	▪
30,00	6,12	▪	▪
32,00	6,96		▪
36,00	8,81	▪	▪
41,00	11,43	▪	▪
46,00	14,39		▪
50,00	17,00		▪
55,00	20,57		▪
60,00	24,48		▪
65,00	28,72		▪

* Finishes see page 67

FLAT BARS

cold-formed

74 - 77

Sturdy lives longer

Cold-formed flat bars are indestructible and therefore they are mainly used when it comes to constructions, which exel by their extreme stability, torsional stiffness and durability. It‘s good to know that we don‘t have only a profound knowledge of cold-formed flat bars, but that we always have the right product for your project, too.

Flat bars | cold-formed

in random lenghts of 3 to 4m, heat-treated and cold-formed

* solution annealed

Dimension standards

DIN EN 10278

Test certificates

DIN EN 10204 3.1 or works‘ test certificate 2.1/2.2

* Classification see page 74 - 77

mm	Theoret. weight kg/m	Grade 1.4301 AISI 304 *)	Grade 1.4305 AISI 303 *)	Grade 1.4307 AISI 304L *)	Grade 1.4401 AISI 316 *)	Grade 1.4404 AISI 316L *)	Grade 1.4571 AISI 316Ti *)
8 x 4	0,26	▪		▪			
10 x 3	0,24	▪		▪			▪
10 x 4	0,31	▪		▪			▪
10 x 5	0,39	▪	▪	▪			▪
10 x 6	0,47	▪		▪			
10 x 8	0,63	▪		▪			
12 x 3	0,28	▪		▪			▪
12 x 4	0,38	▪		▪			
12 x 5	0,47	▪		▪			
12 x 6	0,57	▪		▪			
12 x 8	0,75	▪		▪			
15 x 3	0,35	▪		▪	▪	▪	▪
15 x 4	0,47	▪		▪			▪
15 x 5	0,59	▪		▪	▪	▪	▪
15 x 6	0,71	▪		▪			▪
15 x 8	0,94	▪		▪			▪
15 x 10	1,18	▪		▪	▪	▪	▪
15 x 12	1,41	▪		▪			
16 x 6	0,75	▪		▪			
16 x 8	1,01	▪		▪			
20 x 3	0,47	▪		▪			▪
20 x 4	0,63	▪		▪			▪
20 x 5	0,79	▪	▪	▪	▪	▪	▪
20 x 6	0,94	▪	▪	▪			▪
20 x 8	1,26	▪	▪	▪	▪	▪	▪
20 x 10	1,57	▪	▪	▪	▪	▪	▪
20 x 12	1,88	▪	▪	▪			▪
20 x 15	2,36	▪	▪	▪			▪
25 x 3	0,59	▪		▪			▪
25 x 4	0,79	▪		▪			▪
25 x 5	0,98	▪		▪			▪
25 x 6	1,18	▪		▪	▪	▪	▪
25 x 8	1,57	▪	▪	▪			▪
25 x 10	1,96	▪	▪	▪	▪	▪	▪
25 x 12	2,36	▪		▪			▪
25 x 15	2,94	▪		▪			▪
25 x 20	3,93	▪		▪			▪
30 x 3	0,71	▪		▪			▪

[1]) dimension also available in lengths of 6m

* Finishes see page 73

mm	Theoret. weight kg/m	Grade 1.4301 AISI 304 *)	Grade 1.4305 AISI 303 *)	Grade 1.4307 AISI 304L *)	Grade 1.4401 AISI 316 *)	Grade 1.4404 AISI 316L *)	Grade 1.4571 AISI 316Ti *)
30 x 4	0,94	▪		▪			▪
30 x 5	1,18	▪	▪	▪	▪	▪	▪
30 x 6	1,41	▪	▪	▪			▪
30 x 8	1,88	▪	▪	▪	▪	▪	▪
30 x 10	2,36	▪[1)]	▪	▪[1)]			▪
30 x 12	2,83	▪	▪	▪			▪
30 x 15	3,53	▪[1)]	▪	▪[1)]	▪	▪	▪
30 x 20	4,71	▪[1)]	▪	▪[1)]	▪	▪	▪
30 x 25	5,89	▪		▪	▪	▪	▪
35 x 3	0,82	▪		▪			
35 x 4	1,10	▪		▪			
35 x 5	1,37	▪		▪			
35 x 6	1,65	▪		▪	▪	▪	▪
35 x 8	2,20	▪		▪			
35 x 10	2,75	▪		▪			
35 x 12	3,30	▪		▪			
35 x 15	4,12	▪		▪			▪
35 x 20	5,50	▪		▪			
35 x 25	6,87	▪		▪			
40 x 3	0,94	▪		▪			
40 x 4	1,26	▪		▪			▪
40 x 5	1,57	▪		▪	▪	▪	▪
40 x 6	1,88	▪	▪	▪	▪	▪	▪
40 x 8	2,51	▪	▪	▪	▪	▪	▪
40 x 10	3,14	▪[1)]	▪	▪[1)]	▪	▪	▪
40 x 12	3,77	▪	▪	▪	▪	▪	▪
40 x 15	4,71	▪	▪	▪	▪	▪	▪
40 x 20	6,28	▪[1)]	▪	▪[1)]	▪	▪	▪
40 x 25	7,85	▪	▪	▪			▪
40 x 30	9,42	▪	▪	▪	▪	▪	▪
45 x 5	1,77	▪		▪			
45 x 6	2,12	▪		▪			
45 x 8	2,83	▪		▪			
45 x 10	3,53	▪		▪			
45 x 12	4,24	▪		▪			
45 x 15	5,30	▪		▪			
50 x 3	1,18	▪		▪			
50 x 4	1,57	▪		▪			

[1)] dimension also available in lengths of 6m

* Finishes see page 73

mm	Theoret. weight kg/m	Grade 1.4301 AISI 304 *)	Grade 1.4305 AISI 303 *)	Grade 1.4307 AISI 304L *)	Grade 1.4401 AISI 316 *)	Grade 1.4404 AISI 316L *)	Grade 1.4571 AISI 316Ti *)
50 x 5	1,96	▪		▪			▪
50 x 6	2,36	▪		▪			▪
50 x 8	3,14	▪	▪	▪			▪
50 x 10	3,93	▪[1)]	▪	▪[1)]			▪
50 x 12	4,71	▪		▪			▪
50 x 15	5,89	▪	▪	▪			▪
50 x 20	7,85	▪[1)]	▪	▪[1)]			▪
50 x 25	9,81	▪		▪			
50 x 30	11,78	▪[1)]	▪	▪[1)]			
50 x 35	13,74	▪		▪			
50 x 40	15,70	▪	▪	▪			▪
60 x 4	1,88	▪		▪			
60 x 5	2,36	▪		▪			▪
60 x 6	2,83	▪		▪	▪	▪	▪
60 x 8	3,77	▪	▪	▪			▪
60 x 10	4,71	▪[1)]	▪	▪[1)]			▪
60 x 12	5,65	▪	▪	▪			▪
60 x 15	7,07	▪	▪	▪			▪
60 x 20	9,42	▪[1)]	▪	▪[1)]	▪	▪	▪
60 x 25	11,78	▪		▪			
60 x 30	14,13	▪	▪	▪			
60 x 35	16,49	▪	▪	▪			
60 x 40	18,84	▪[1)]	▪	▪[1)]	▪	▪	▪
70 x 5	2,75	▪		▪			
70 x 6	3,30	▪		▪			
70 x 8	4,40	▪		▪			
70 x 10	5,50	▪		▪			▪
70 x 12	6,59	▪		▪			
70 x 15	8,24	▪		▪			
70 x 20	10,99	▪		▪			
70 x 25	13,74	▪		▪			
70 x 30	16,49	▪		▪			
80 x 4	2,51	▪		▪			
80 x 5	3,14	▪		▪			▪
80 x 6	3,77	▪[1)]		▪[1)]			▪
80 x 8	5,02	▪[1)]		▪[1)]			▪
80 x 10	6,28	▪	▪	▪			▪
80 x 12	7,54	▪	▪	▪	▪	▪	▪

[1)] dimension also available in lengths of 6m

* Finishes see page 73

mm	Theoret. weight kg/m	Grade 1.4301 AISI 304 *)	Grade 1.4305 AISI 303 *)	Grade 1.4307 AISI 304L *)	Grade 1.4401 AISI 316 *)	Grade 1.4404 AISI 316L *)	Grade 1.4571 AISI 316Ti *)
80 x 15	9,42	▪	▪	▪			▪
80 x 20	12,56	▪[1)]	▪	▪[1)]	▪	▪	▪
80 x 25	15,70	▪		▪			
80 x 30	18,84	▪	▪	▪	▪	▪	▪
80 x 40	25,12	▪	▪	▪			
90 x 6	4,24	▪		▪			
90 x 8	5,65	▪		▪			
90 x 10	7,07	▪		▪			
90 x 12	8,48	▪		▪			
90 x 15	10,60	▪		▪			
90 x 20	14,13	▪		▪			
90 x 25	17,66	▪		▪			
100 x 5	3,93	▪		▪			
100 x 6	4,71	▪		▪			▪
100 x 8	6,28	▪		▪	▪	▪	▪
100 x 10	7,85	▪[1)]	▪	▪[1)]	▪	▪	▪
100 x 12	9,42	▪	▪	▪			
100 x 15	11,78	▪	▪	▪	▪	▪	▪
100 x 20	15,70	▪[1)]	▪	▪[1)]	▪	▪	
100 x 25	19,63	▪		▪			
100 x 30	23,55	▪	▪	▪			
120 x 8	7,54	▪		▪			
120 x 10	9,42	▪		▪			▪
120 x 15	14,13	▪		▪			
120 x 20	18,84	▪		▪			
140 x 8	8,79	▪		▪			
140 x 10	10,99	▪		▪			
150 x 10	11,78	▪		▪			
150 x 15	17,66	▪		▪			
160 x 10	12,56	▪		▪			

[1)] dimension also available in lengths of 6m

* Finishes see page 73

FLAT BARS

hot-formed or slit from sheet
or strip | polished

Cut to size

A hot-formed polished flat bar doesn‘t only look precious, but it is precious. It can be slit from sheet or strip in the size you need, in the right grade and, of course, with test certificate. This is also part of our idea of a completely suiting supply.

Flat bars | hot-formed or slit from sheet or strip |

polished grain 240 or 320

in random lenghts of 4 to 6 m, heat-treated before cutting,
polished grain 240 or 320

* solution annealed

Test certificates

DIN EN 10204 3.1 for the pre-material

* Classification see page 80 - 81

mm	Theoret. weight kg/m	Grade 1.4301 AISI 304 *)
20 x 3	0,47	▪
20 x 4	0,63	▪
20 x 5	0,79	▪
20 x 6	0,94	▪
20 x 8	1,26	▪
20 x 10	1,57	▪
25 x 5	0,98	▪
25 x 6	1,18	▪
25 x 8	1,57	▪
25 x 10	1,96	▪
30 x 4	0,94	▪
30 x 5	1,18	▪
30 x 6	1,41	▪
30 x 8	1,88	▪
30 x 10	2,36	▪
35 x 8	2,20	▪
40 x 3	0,94	▪
40 x 4	1,26	▪
40 x 5	1,57	▪
40 x 6	1,88	▪
40 x 8	2,51	▪
40 x 10	3,14	▪
40 x 12	3,77	▪
50 x 4	1,57	▪
50 x 5	1,96	▪
50 x 6	2,36	▪
50 x 8	3,14	▪
50 x 10	3,93	▪
50 x 12	4,71	▪
60 x 4	1,88	▪
60 x 5	2,36	▪
60 x 6	2,83	▪
60 x 8	3,77	▪
60 x 10	4,71	▪
60 x 12	5,65	▪
70 x 10	5,50	▪
80 x 4	2,51	▪
80 x 5	3,14	▪
80 x 6	3,77	▪

* Finishes see page 79

mm	Theoret. weight kg/m	Grade 1.4301 AISI 304 *)
80 x 8	5,02	▪
80 x 10	6,28	▪
100 x 5	3,93	▪
100 x 6	4,71	▪
100 x 8	6,28	▪
100 x 10	7,85	▪
120 x 8	7,54	▪
120 x 10	9,42	▪

* Finishes see page 79

HALF-ROUND AND FLAT HALF-ROUND BARS

Quality shows its profile

Half-round and flat half-round bars are real multi-talents in steel construction. For this reason, they are being used in many areas. Our purchase department works only with first-class producers, so that you can be sure to always get the best quality in no time.

Half-round and flat half-round bars
in random lengths of 3 to 3.5m

bright, cold-formed and blank annealed

* solution annealed

Dimension standards
DIN 1018

Test certificates
DIN EN 10204 3.1 or works' test certificate 2.1/2.2

* Classification see page 84

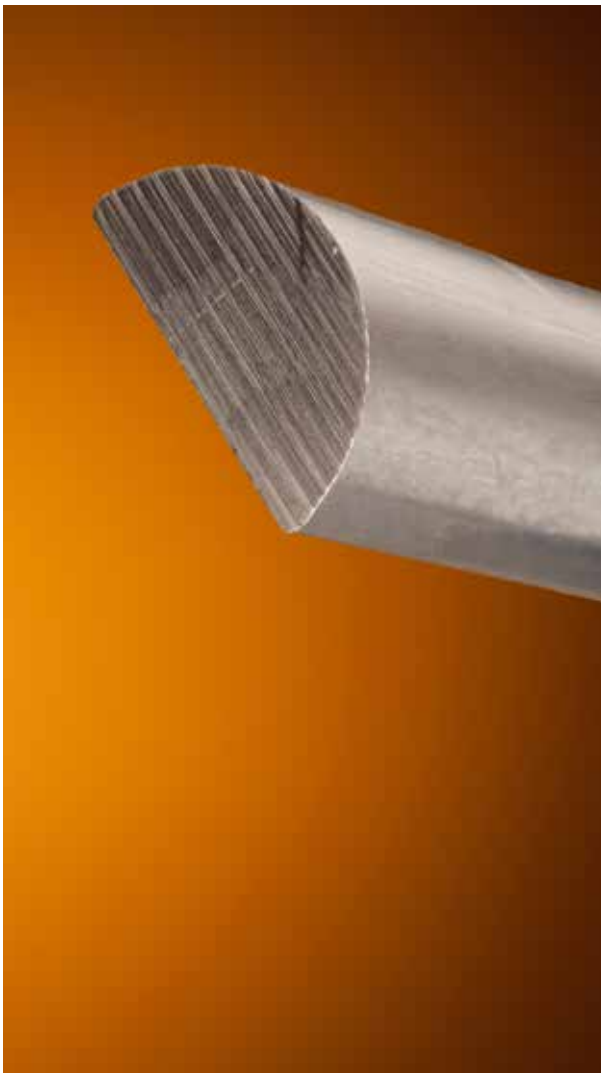
Half-round bars | stainless

mm	Theoret. weight kg/m	Grade 1.4404 AISI 316L *)
12 x 6	0,45	▪
16 x 8	0,78	▪
20 x 10	1,23	▪
30 x 15	2,77	▪
40 x 20	4,95	▪
50 x 25	7,75	▪

Flat half-round bars | stainless

mm	Theoret. weight kg/m	Grade 1.4404 AISI 316L *)
10 x 3,5	0,20	▪
20 x 4,0	0,43	▪

* Finishes see page 83



ANGLES AND SPECIAL ANGLES

equal and unequal

88 - 92

Seen from the right angle

Purchasers and constructive technicians appreciate our range of angles and special angles, because it reduces the production work and cost. And because we see it the same way, we will always have the right products available ex stock store for you.

Angles and special angles | equal and unequal

hot-formed in random lengths of 5 to 6m (angles) and 4 to 7m (special angles),
cold-formed in random lengths of 3 to 3.5m

* solution annealed or quenched, pickled, hot-formed

Test certificates

DIN EN 10204 3.1 or works‘ test certificate 2.1/2.2

* Classification see page 88 - 92

mm a x a x t	Theoret. weight kg/m	Grade 1.4301 AISI 304 *)	Grade 1.4307 AISI 304L *)	Grade 1.4401 AISI 316 *)	Grade 1.4404 AISI 316L *)	Grade 1.4541 AISI 321 *)	Grade 1.4571 AISI 316Ti *)
20 x 20 x 3	0,89	▪	▪	▪	▪	▪	▪
20 x 20 x 4	1,14	▪	▪				
25 x 25 x 3	1,13	▪	▪	▪	▪	▪	▪
25 x 25 x 4	1,47	▪	▪				
30 x 30 x 3	1,37	▪	▪	▪	▪	▪	▪
30 x 30 x 4	1,79	▪	▪	▪	▪	▪	▪
35 x 35 x 4	2,11	▪	▪	▪	▪	▪	▪
40 x 40 x 3	1,85	▪	▪				
40 x 40 x 4	2,43	▪	▪	▪	▪	▪	▪
40 x 40 x 5	3,00	▪	▪	▪	▪	▪	▪
45 x 45 x 5	3,40	▪	▪				▪
50 x 50 x 4	3,07	▪	▪				
50 x 50 x 5	3,80	▪	▪	▪	▪	▪	▪
50 x 50 x 6	4,47	▪	▪				
60 x 60 x 5	4,60	▪	▪				▪
60 x 60 x 6	5,47	▪	▪	▪	▪	▪	▪
70 x 70 x 7	7,47	▪	▪	▪	▪	▪	▪
80 x 80 x 8	9,73	▪	▪	▪	▪	▪	▪
90 x 90 x 9	12,31	▪	▪	▪	▪		▪
100 x 100 x 10	15,20	▪	▪	▪	▪	▪	▪

* Finishes see page 87

mm a x a x t	Theoret. weight kg/m	Grade 1.4301 AISI 304 *)	Grade 1.4307 AISI 304L *)	Grade 1.4571 AISI 316Ti *)
15 x 15 x 2	0,45	▪	▪	
15 x 15 x 3	0,65	▪	▪	
20 x 20 x 2	0,61	▪	▪	
20 x 20 x 5	1,39	▪	▪	
25 x 25 x 5	1,79	▪	▪	▪
30 x 30 x 5	2,20	▪	▪	
30 x 30 x 6	2,56	▪	▪	▪
35 x 35 x 5	2,57	▪	▪	
35 x 35 x 6	3,10	▪	▪	
40 x 40 x 6	3,49	▪	▪	
40 x 40 x 8	4,60	▪	▪	
50 x 50 x 7	5,15	▪	▪	▪
50 x 50 x 9	6,49	▪	▪	
50 x 50 x 10	7,09	▪	▪	▪
55 x 55 x 6	4,99	▪	▪	
60 x 60 x 7	6,24	▪	▪	
60 x 60 x 8	7,17	▪	▪	▪
60 x 60 x 10	8,80	▪	▪	▪
65 x 65 x 5	5,03	▪	▪	
65 x 65 x 9	8,71			▪
70 x 70 x 9	9,30	▪	▪	
70 x 70 x 11	11,20	▪	▪	
75 x 75 x 6	6,90	▪	▪	▪
75 x 75 x 7	7,95	▪	▪	
80 x 80 x 6	7,40	▪	▪	▪
80 x 80 x 10	12,00	▪	▪	▪
80 x 80 x 12	14,10	▪	▪	
100 x 100 x 6	9,31	▪	▪	
100 x 100 x 8	12,20	▪	▪	▪
100 x 100 x 12	17,80	▪	▪	
110 x 110 x 10	16,60	▪	▪	▪
120 x 120 x 10	18,10	▪	▪	▪
120 x 120 x 13	23,30	▪	▪	▪
130 x 130 x 12	23,50	▪	▪	▪
140 x 140 x 13	27,40	▪	▪	
150 x 150 x 13	29,30	▪	▪	▪
150 x 150 x 15	33,50	▪	▪	▪
160 x 160 x 15	33,90	▪	▪	▪
180 x 180 x 20	54,40	▪	▪	

* Finishes see page 87

Kurz-zeichen	mm a x b x t	Theoret. weight kg/m	Grade 1.4301 AISI 304 *)	Grade 1.4307 AISI 304L *)	Grade 1.4571 AISI 316Ti *)
20	20 x 10 x 3	0,65	▪	▪	
25	25 x 15 x 3	0,89	▪	▪	
30	30 x 15 x 3	1,01	▪	▪	
	30 x 20 x 3	1,12	▪	▪	▪
	30 x 20 x 4	1,50	▪	▪	▪
40	40 x 20 x 3	1,36	▪	▪	▪
	40 x 20 x 4	1,80	▪	▪	▪
	40 x 20 x 5	2,20	▪	▪	
	40 x 30 x 5	2,60	▪	▪	▪
45	45 x 30 x 4	2,27	▪	▪	
	45 x 30 x 5	2,80	▪	▪	
50	50 x 25 x 4	2,22	▪	▪	
	50 x 30 x 4	2,40	▪	▪	
	50 x 30 x 5	3,00	▪	▪	▪
	50 x 40 x 5	3,50	▪	▪	▪
60	60 x 30 x 5	3,40	▪	▪	▪
	60 x 30 x 6	4,03	▪	▪	
	60 x 30 x 7	4,50	▪	▪	
	60 x 40 x 5	3,70	▪	▪	▪
	60 x 40 x 6	4,40	▪	▪	▪
65	65 x 50 x 5	4,35	▪	▪	▪
	65 x 50 x 7	5,90	▪	▪	
	65 x 50 x 9	7,50	▪	▪	▪
70	70 x 50 x 6	5,30	▪	▪	▪
75	75 x 50 x 6	5,70	▪	▪	▪
	75 x 50 x 7	6,50	▪	▪	▪
80	80 x 40 x 6	5,40	▪	▪	▪
	80 x 40 x 8	7,10	▪	▪	▪
	80 x 65 x 6	6,60	▪	▪	▪
	80 x 65 x 8	8,70	▪	▪	▪
	80 x 65 x 10	10,70			▪
90	90 x 60 x 6	6,90	▪	▪	
	90 x 60 x 8	9,00	▪	▪	▪
100	100 x 50 x 6	6,80	▪	▪	▪
	100 x 50 x 8	9,00	▪	▪	▪
	100 x 50 x 10	11,10	▪	▪	▪
	100 x 65 x 7	8,80	▪	▪	▪
	100 x 65 x 9	11,20	▪	▪	▪
	100 x 65 x 11	13,30	▪	▪	
	100 x 75 x 6	8,10			▪

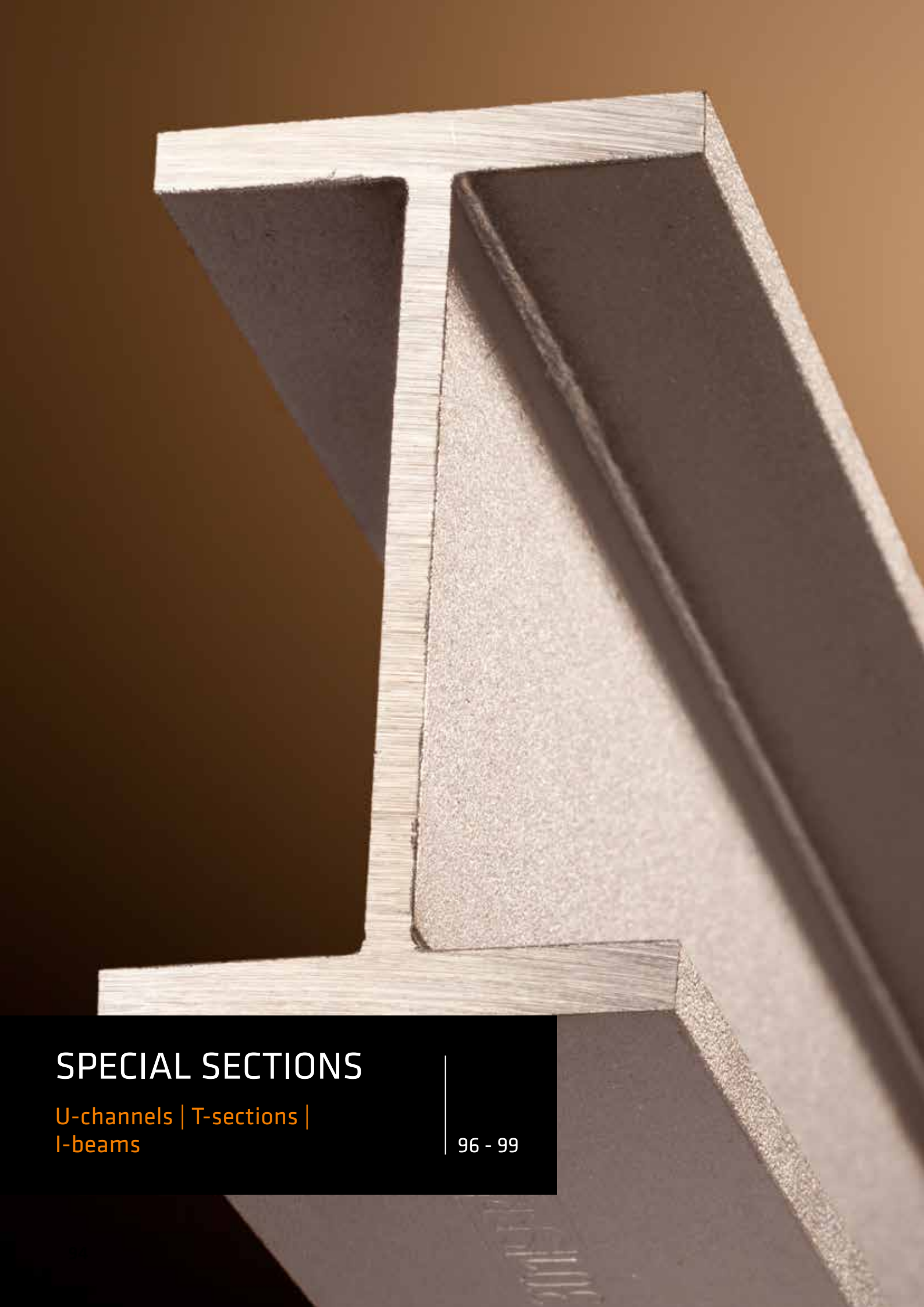
* Finishes see page 87

Kurz-zeichen	mm a x b x t	Theoret. weight kg/m	Grade 1.4301 AISI 304 *)	Grade 1.4307 AISI 304L *)	Grade 1.4571 AISI 316Ti *)
	100 x 75 x 9	11,80			▪
120	120 x 80 x 8	12,29	▪	▪	▪
	120 x 80 x 10	15,20	▪	▪	▪
	120 x 80 x 12	18,05	▪	▪	▪
130	130 x 65 x 8	11,97	▪	▪	▪
	130 x 65 x 10	14,80	▪	▪	▪
	130 x 90 x 12	19,97	▪	▪	▪
150	150 x 75 x 8	13,89	▪	▪	
	150 x 75 x 10	17,20	▪	▪	▪
	150 x 100 x 10	19,00	▪	▪	▪
	150 x 100 x 12	22,50	▪	▪	▪
160	160 x 80 x 10	18,10	▪	▪	
200	200 x 100 x 12	27,40	▪	▪	
	200 x 100 x 13	29,50			▪

* Finishes see page 87

mm a x a x t	Theoret. weight kg/m	Grade 1.4301 AISI 304 *)	Grade 1.4307 AISI 304L *)
10 x 10 x 2,0	0,28	▪	▪
15 x 15 x 2,0	0,45	▪	▪
15 x 15 x 3,0	0,65	▪	▪
20 x 20 x 2,0	0,61	▪	▪
20 x 20 x 3,0	0,89	▪	▪
25 x 25 x 2,5	0,93	▪	▪
25 x 25 x 3,0	1,13	▪	▪
25 x 25 x 4,0	1,47	▪	▪
30 x 30 x 3,0	1,37	▪	▪
30 x 30 x 4,0	1,79	▪	▪
30 x 30 x 5,0	2,20	▪	▪
35 x 35 x 4,0	2,11	▪	▪
40 x 20 x 4,0	1,80	▪	▪
40 x 40 x 3,0	1,85	▪	▪
40 x 40 x 4,0	2,43	▪	▪
40 x 40 x 5,0	3,00	▪	▪
50 x 50 x 5,0	3,80	▪	▪
60 x 60 x 6,0	5,47	▪	▪

* Finishes see page 87



SPECIAL SECTIONS

U-channels | T-sections |
I-beams

96 - 99

Deep product range

Due to its diverse forms and properties, special sections are used in various steel constructions. Thanks to our wide-ranging assortment, we have the perfect solution for you available ex stock. Our experts will give you full advice.

Special sections

in random lenghts of 4 to 6m (U-channels 4 to 7m), hot-formed[1)]

*solution annealed or quenched, pickled

Test certificates

DIN EN 10204 3.1 or works‘ test certificate 2.1/2.2

[1)] We reserve the right to choose the manufacturing method.

* Classification see page 96 - 99

Abbre-viation	mm h x b x s x t	Theoret. weight kg/m	Grade 1.4301 AISI 304 *)	Grade 1.4307 AISI 304L *)	Grade 1.4571 AISI 316Ti *)
20	20 x 10 x 3 x 3,5	0,86	▪	▪	
30	30 x 15 x 4 x 4,5	1,74	▪	▪	
	30 x 33 x 5 x 7,0	4,27	▪	▪	
40	40 x 20 x 3 x 3,5	1,78	▪	▪	
	40 x 20 x 4 x 4,5	2,30	▪	▪	▪
	40 x 35 x 5 x 7,0	4,87	▪	▪	▪
50	50 x 25 x 3 x 3,0	2,31	▪	▪	
	50 x 25 x 5 x 5,0	3,71	▪	▪	
	50 x 25 x 5 x 6,0	3,86	▪	▪	▪
	50 x 38 x 5 x 7,0	5,70	▪	▪	▪
60	60 x 30 x 6 x 6,0	5,12	▪	▪	▪
65	65 x 42 x 5,5 x 7,5	7,40	▪	▪	▪
80	80 x 40 x 5 x 5,0	5,90	▪	▪	▪
	80 x 40 x 6 x 6,0	7,05	▪	▪	▪
	80 x 45 x 6 x 8,0	8,80	▪	▪	▪
100	100 x 50 x 4 x 4,0	6,10	▪	▪	
	100 x 50 x 5 x 5,0	7,65	▪	▪	▪
	100 x 50 x 5 x 7,0	9,09	▪	▪	
	100 x 50 x 6 x 6,0	8,90	▪	▪	▪
	100 x 50 x 6 x 8,5	10,60	▪	▪	▪
120	120 x 55 x 7 x 9,0	13,50	▪	▪	▪
	120 x 60 x 6 x 6,0	10,90	▪	▪	▪
140	140 x 60 x 7 x 10,0	16,20	▪	▪	▪
	140 x 70 x 7 x 7,0	15,10	▪	▪	▪
150	150 x 75 x 9 x 9,0	20,50	▪	▪	▪
160	160 x 65 x 7,5 x 10,5	19,10	▪	▪	▪
	160 x 80 x 8 x 8,0	19,46	▪	▪	▪
180	180 x 70 x 8 x 11,0	22,40	▪	▪	▪
	180 x 90 x 8 x 8,0	22,02	▪	▪	
200	200 x 75 x 8,5 x 11,5	25,51	▪	▪	▪
	200 x 100 x 8 x 8,0	24,90	▪	▪	
	200 x 100 x 10 x 10,0	30,70	▪	▪	▪

* Finishes see page 95

Equal T-sections (T) | stainless

Abbre-viation T	mm h x b x s = t	Theoret. weight kg/m	Grade 1.4301 AISI 304 *)	Grade 1.4307 AISI 304L *)	Grade 1.4571 AISI 316Ti *)
20	20 x 20 x 3	0,90	▪	▪	
	20 x 20 x 4	1,20	▪	▪	
25	25 x 25 x 3	1,13	▪	▪	
	25 x 25 x 4	1,50	▪	▪	
30	30 x 30 x 3	1,40	▪	▪	
	30 x 30 x 4	1,80	▪	▪	▪
35	35 x 35 x 4	2,11	▪	▪	
40	40 x 40 x 4	2,40	▪	▪	▪
	40 x 40 x 5	3,00	▪	▪	▪
45	45 x 45 x 5	3,34	▪	▪	▪
50	50 x 50 x 3	2,30	▪	▪	
	50 x 50 x 5	3,80	▪	▪	▪
	50 x 50 x 6	4,51	▪	▪	▪
60	60 x 60 x 6	5,47	▪	▪	▪
70	70 x 70 x 7	7,50	▪	▪	▪
80	80 x 80 x 6	7,35	▪	▪	
	80 x 80 x 8	9,70	▪	▪	▪
90	90 x 90 x 9	12,20	▪	▪	
100	100 x 100 x 10	15,10	▪	▪	▪
120	120 x 120 x 10	18,40	▪	▪	
	120 x 120 x 13	25,10	▪	▪	▪

Unequal T-sections (TB) | stainless

Abbre-viation TB	mm h x b x s = t	Theoret. weight kg/m	Grade 1.4301 AISI 304 *)	Grade 1.4307 AISI 304L *)
30	30 x 60 x 5,5	3,64	▪	▪
35	35 x 70 x 6,0	4,66	▪	▪
40	40 x 60 x 4,0	3,20	▪	▪
	40 x 80 x 7,0	6,20	▪	▪
50	50 x 100 x 8,5	9,00	▪	▪
60	60 x 120 x 10,0	12,80	▪	▪

* Finishes see page 95

Abbre-viation IPE	mm h x b x s x t	Theoret. weight kg/m	Grade 1.4301 AISI 304 *)	Grade 1.4307 AISI 304L *)	Grade 1.4571 AISI 316Ti *)
80	80 x 46 x 3,8 x 5,2	6,00	▪	▪	▪
100	100 x 55 x 4,0 x 6,0	7,90			▪
	100 x 55 x 4,1 x 5,7	8,10	▪	▪	▪
120	120 x 64 x 4,4 x 6,3	10,40	▪	▪	▪
140	140 x 73 x 4,7 x 6,9	12,90	▪	▪	▪
160	160 x 82 x 5,0 x 7,0	15,50	▪	▪	
	160 x 82 x 5,0 x 7,4	15,80			▪
	160 x 82 x 10,0 x 12,0	26,56	▪	▪	
180	180 x 91 x 5,3 x 8,0	18,60	▪	▪	
200	200 x 100 x 5,6 x 8,5	21,80	▪	▪	
240	240 x 120 x 10,0 x 12,0	39,80	▪	▪	

* Finishes see page 95

I beams | special beams | stainless

Abbre-viation IPB	mm h x b x s x t	Theoret. weight kg/m	Grade 1.4301 AISI 304 *)	Grade 1.4307 AISI 304L *)	Grade 1.4571 AISI 316Ti *)
100	100 x 100 x 6 x 8,0	17,10	▪	▪	▪
150	150 x 150 x 8 x 10,0	32,90	▪	▪	
200	200 x 200 x 8 x 12,0	49,00	▪	▪	

I beams | wide flanges | stainless

Abbre-viation HEA	mm h x b x s x t	Theoret. weight kg/m	Grade 1.4301 AISI 304 *)	Grade 1.4307 AISI 304L *)	Grade 1.4571 AISI 316Ti *)
100	96 x 100 x 5,0 x 8,0	16,70			▪
120	114 x 120 x 5,0 x 8,0	19,90	▪	▪	
160	152 x 160 x 6,0 x 9,0	30,40	▪	▪	

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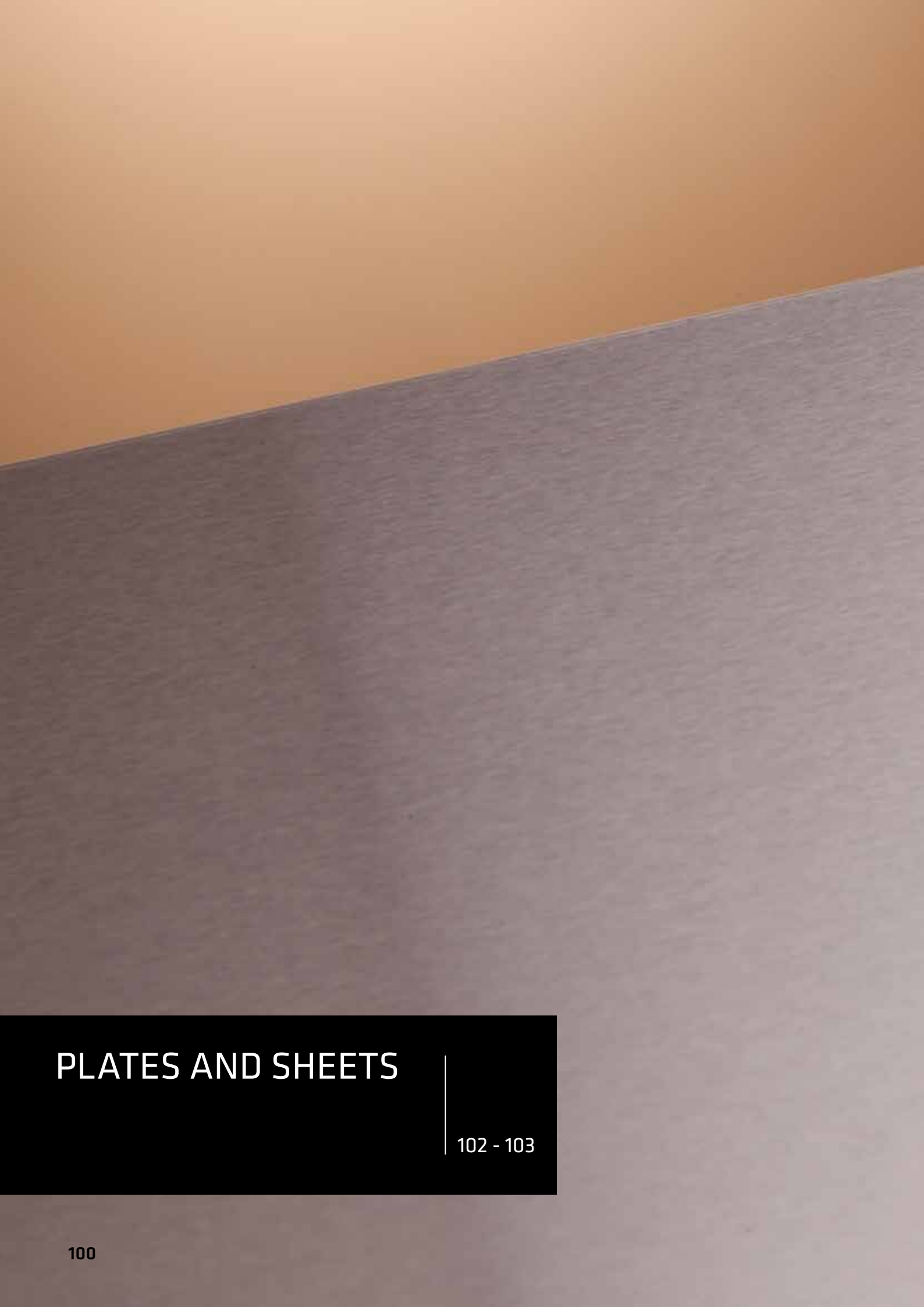
I beams | IPB series | stainless

Abbre-viation IPB	mm h x b x s x t	Theoret. weight kg/m	Grade 1.4301 AISI 304 *)	Grade 1.4307 AISI 304L *)	Grade 1.4571 AISI 316Ti *)
100	100 x 100 x 6,0 x 10	20,40	▪		▪
120	120 x 120 x 6,5 x 11	26,70	▪	▪	▪
140	140 x 140 x 7,0 x 12	33,70	▪	▪	▪
160	160 x 160 x 8,0 x 13	42,60	▪	▪	▪
180	180 x 180 x 8,0 x 14	50,50	▪	▪	
	180 x 180 x 8,5 x 14	51,20			▪

* Finishes see page 95



PLATES AND SHEETS

Tailor-made

For each requirement the suiting sheet. Our product range offers you heat and highly corrosion-resistant plates and sheets in all kind of formats, thicknesses and grades, cut to your individual need.

Plates and sheets

cold-rolled (model type 2C or 2D or 2B or 2R)
hot-rolled (model type 1C or 1D)
cold-rolled dimensions can be also delivered polished (different grain sizes), brushed and coated with foil (one or both sides); hot-rolled dimensions available on request

* solution annealed

Dimension standards

cold-rolled: DIN EN 10259
hot-rolled: DIN EN 10051 or DIN EN 10029

Test certificates

DIN EN 10204 3.1, some 3.2 TÜV approved

* Classification see page 102 - 103

Various sizes			
thickness mm	Theoret. weight kg/m²	Grade 1.4462 UNS S31803 *)	Grade 1.4539 AISI 904L *)
1,00	8,00		▪
1,50	12,00		▪
2,00	16,00	▪	▪
3,00	24,00	▪	▪
4,00	32,00	▪	▪
5,00	40,00	▪	▪
6,00	48,00	▪	▪
8,00	64,00	▪	▪
10,00	80,00	▪	▪
12,00	96,00	▪	▪
15,00	120,00	▪	▪
20,00	160,00	▪	▪
25,00	200,00		▪
30,00	240,00	▪	▪
35,00	280,00	▪	
40,00	320,00	▪	▪
50,00	400,00	▪	▪
60,00	480,00	▪	▪

* Finishes see page 101

Various sizes				
thickness mm	Theoret. weight kg/m²	Grade 1.4828 AISI 309 *)	Grade 1.4841 AISI 314 *)	Grade 1.4845 AISI 310S *)
1,50	12,00	▪		▪
2,00	16,00	▪	▪	▪
3,00	24,00	▪	▪	▪
4,00	32,00	▪	▪	▪
5,00	40,00	▪	▪	▪
6,00	48,00	▪	▪	▪
8,00	64,00	▪	▪	▪
10,00	80,00	▪	▪	▪
12,00	96,00		▪	▪
15,00	120,00	▪	▪	▪
20,00	160,00	▪		▪
25,00	200,00	▪	▪	▪
30,00	240,00	▪	▪	▪
40,00	320,00		▪	
50,00	400,00		▪	

* Finishes see page 101

CONSTRUCTION TUBES AND DECORATION TUBES

round | square

106 - 113

From constructive to creative

Welded construction and decoration tubes – square or round, from sheet or strip – offer you an unlimited scope for construction and design. In the same constructive and creative way we select the products for our range and advise you. Get convinced by our services cutting to fixed lengths and mitre cutting.

Construction tubes | decoration tubes

in random lenghts of approx. 6m

Round and square tubes from strip or sheet – not heat-treated: mill finish, pickled or ground on the outside; heat-treated and polished on the outside

* solution annealed, pickled or mill finish

Technical terms of delivery

DIN EN 10088-1 or 10088-2

Tolerances

Requirements according to agreement

Test certificates

EN 10204 3.1 or 2.2 acc. to agreement

* Classification see page 106 - 113

Outside Ø mm	Wall thickness mm	Theoret. weight kg/m	Grade 1.4301 ASI 304 *)	Grade 1.4301 AISI 304 *) polished grain 240 or 320	Grade 1.4404 AISI 316L *) polished grain 240 or 320	Grade 1.4571 AISI 316Ti *) polished grain 240 or 320
10,00	1,50	0,32	▪	▪		
12,00	1,00	0,28	▪			
12,00	1,50	0,39	▪	▪		
12,00	2,00	0,50	▪	▪		
14,00	1,00	0,33	▪			
14,00	1,50	0,47	▪	▪		
14,00	2,00	0,60	▪			
15,00	1,00	0,35	▪			
15,00	1,50	0,51	▪	▪		
15,00	2,00	0,65	▪	▪		
16,00	1,00	0,38	▪			
16,00	1,50	0,54	▪	▪		
16,00	2,00	0,70	▪	▪		
17,20	2,00	0,76	▪	▪		
18,00	1,00	0,43	▪	▪		
18,00	1,50	0,62	▪			
18,00	2,00	0,80	▪			
20,00	1,00	0,48	▪	▪		
20,00	1,50	0,69	▪	▪		
20,00	2,00	0,90	▪	▪		
20,00	2,50	1,10	▪			
21,30	1,50	0,74	▪			
21,30	2,00	0,97	▪	▪		
21,30	2,50	1,18	▪	▪		
21,30	3,00	1,37	▪			
22,00	1,00	0,53	▪			
22,00	1,50	0,69	▪			
22,00	2,00	1,00	▪			
23,00	1,50	0,81	▪			
25,00	1,00	0,60	▪			
25,00	1,20	0,72	▪			
25,00	1,50	0,88	▪	▪		
25,00	2,00	1,15	▪	▪	▪	
25,00	2,50	1,41	▪			
25,00	3,00	1,65	▪			
26,90	1,50	0,95	▪			
26,90	2,00	1,25	▪	▪		

1) heat-treated

* Finishes see page 105

Please consider also the possibilities of our surface refinement centre.

Outside Ø mm	Wall thickness mm	Theoret. weight kg/m	Grade 1.4301 ASI 304 *)	Grade 1.4301 AISI 304 *) polished grain 240 or 320	Grade 1.4404 AISI 316L *) polished grain 240 or 320	Grade 1.4571 AISI 316Ti *) polished grain 240 or 320
26,90	2,50	1,53	▪	▪		
26,90	2,60	1,58		▪[1)]		
26,90	3,00	1,80	▪			
28,00	1,00	0,68	▪			
28,00	1,50	1,00	▪	▪		
28,00	2,00	1,30	▪	▪[1)]		
28,00	2,50	1,60		▪[1)]		
30,00	1,00	0,73	▪			
30,00	1,50	1,07	▪	▪		
30,00	2,00	1,40	▪	▪		
30,00	2,50	1,72	▪	▪		
30,00	3,00	2,03	▪	▪[1)]		
32,00	1,50	1,15	▪			
32,00	2,00	1,50	▪			
33,70	1,50	1,21	▪			
33,70	2,00	1,59	▪	▪[1)]	▪	▪[1)]
33,70	2,50	1,95	▪	▪		
33,70	2,60	2,02		▪[1)]		▪[1)]
33,70	3,00	2,31	▪	▪		
35,00	1,50	1,26	▪			
35,00	2,00	1,65	▪	▪		
35,00	2,50	2,03	▪	▪[1)]		
35,00	3,00	2,40	▪	▪[1)]		
38,00	1,00	0,93	▪	▪[1)]		
38,00	1,50	1,37	▪			
38,00	2,00	1,80	▪	▪[1)]		
38,00	2,50	2,22	▪			
38,00	3,00	2,63	▪			
40,00	1,00	0,98	▪			
40,00	1,50	1,45	▪	▪		
40,00	2,00	1,90	▪	▪		
40,00	2,50	2,35	▪			
40,00	3,00	2,78	▪	▪		
40,00	4,00	3,61	▪			
42,40	1,50	1,54	▪	▪		
42,40	2,00	2,02	▪	▪[1)]	▪	▪[1)]
42,40	2,50	2,50	▪	▪		

1) heat-treated

* Finishes see page 105

Please consider also the possibilities of our surface refinement centre.

Outside Ø mm	Wall thickness mm	Theoret. weight kg/m	Grade 1.4301 ASI 304 *)	Grade 1.4301 AISI 304 *) polished grain 240 or 320	Grade 1.4404 AISI 316L *) polished grain 240 or 320	Grade 1.4571 AISI 316Ti *) polished grain 240 or 320
42,40	2,60	2,59		▪[1)]		▪[1)]
42,40	3,00	2,96	▪	▪		
42,40	4,00	3,85	▪			
45,00	1,50	1,63	▪			
45,00	2,00	2,15	▪			
45,00	3,00	3,16	▪			
48,30	1,50	1,76	▪			
48,30	2,00	2,32	▪	▪[1)]	▪	▪
48,30	2,50	2,87	▪	▪		
48,30	2,60	2,98		▪[1)]		
48,30	3,00	3,40	▪	▪		
48,30	4,00	4,44	▪			
50,00	1,00	1,23	▪			
50,00	1,50	1,82	▪			
50,00	2,00	2,40	▪	▪		
50,00	3,00	3,53	▪			
50,00	4,00	4,61	▪			
50,80	2,00	2,44	▪			
54,00	2,00	2,60	▪			
60,30	1,50	2,21	▪	▪		
60,30	2,00	2,92	▪	▪		
60,30	2,50	3,62	▪	▪		
60,30	3,00	4,30	▪	▪		
60,30	4,00	5,64	▪			
70,00	1,50	2,57	▪			
70,00	2,00	3,42	▪			
70,00	3,00	5,03	▪			
70,00	4,00	6,61	▪			
76,10	1,50	2,80	▪			
76,10	2,00	3,71	▪	▪		
76,10	2,50	4,61	▪			
76,10	3,00	5,49	▪	▪		
76,10	4,00	7,22	▪			
80,00	1,50	2,95		▪		
80,00	2,00	3,91	▪			
80,00	3,00	5,78	▪			
80,00	4,00	7,61	▪			

1) heat-treated

* Finishes see page 105

Please consider also the possibilities of our surface refinement centre.

Outside Ø mm	Wall thickness mm	Theoret. weight kg/m	Grade 1.4301 ASI 304 *)	Grade 1.4301 AISI 304 *) polished grain 240 or 320	Grade 1.4404 AISI 316L *) polished grain 240 or 320	Grade 1.4571 AISI 316Ti *) polished grain 240 or 320
84,00	2,00	4,11	▪			
88,90	2,00	4,35	▪	▪		
88,90	2,50	5,41	▪			
88,90	3,00	6,45	▪	▪		
88,90	4,00	8,50	▪	▪		
101,60	1,50	3,76	▪			
101,60	2,00	4,99	▪	▪		
101,60	3,00	7,41	▪	▪		
101,60	4,00	9,78	▪			
104,00	2,00	5,11	▪			
114,30	2,00	5,62	▪			
114,30	3,00	8,36	▪	▪		
114,30	4,00	11,05	▪	▪		
168,30	2,00	8,33	▪			

1) heat-treated

* Finishes see page 105

Please consider also the possibilities of our surface refinement centre.

Outside Ø mm	Wall thickness mm	Theoret. weight kg/m	Grade 1.4301 ASI 304 *)	Grade 1.4404 AISI 316L *)	Grade 1.4571 AISI 316Ti *)	Grade 1.4301 ASI 304 *) polished grain 240 or 320
10 x 10	1,00	0,30	▪			
15 x 15	1,50	0,68	▪	▪	▪	▪
20 x 10	1,50	0,68	▪		▪	▪
20 x 15	1,50	0,80	▪			
20 x 20	1,00	0,63	▪			
20 x 20	1,20	0,75	▪			▪
20 x 20	1,50	0,92	▪		▪	▪
20 x 20	2,00	1,20	▪	▪	▪	▪
25 x 15	1,50	0,92	▪			
25 x 25	1,20	0,94	▪			▪
25 x 25	1,50	1,16	▪	▪		▪
25 x 25	2,00	1,53	▪	▪	▪	▪
25 x 25	2,50	1,88	▪			
30 x 10	1,50	0,92	▪			
30 x 15	1,50	1,04	▪			▪
30 x 20	1,20	0,94	▪			
30 x 20	1,50	1,16	▪			▪
30 x 20	2,00	1,53	▪	▪	▪	▪
30 x 30	1,20	1,14	▪			▪
30 x 30	1,50	1,41	▪	▪		▪
30 x 30	2,00	1,85	▪	▪	▪	▪
30 x 30	3,00	2,70	▪	▪	▪	
35 x 35	1,20	1,33	▪			▪
35 x 35	1,50	1,65	▪			▪
35 x 35	2,00	2,18	▪	▪		▪
35 x 35	3,00	3,19	▪			
40 x 10	1,50	1,16	▪			
40 x 10	2,00	1,53	▪			
40 x 15	1,50	1,29	▪			
40 x 15	2,00	1,69	▪			
40 x 20	1,20	1,14				▪
40 x 20	1,50	1,41	▪		▪	▪
40 x 20	2,00	1,85	▪	▪	▪	▪
40 x 30	2,00	2,18	▪	▪	▪	▪
40 x 30	3,00	3,19	▪			
40 x 40	1,20	1,53	▪			▪
40 x 40	1,50	1,90	▪	▪	▪	▪
40 x 40	2,00	2,50	▪	▪	▪	▪
40 x 40	3,00	3,68	▪	▪	▪	▪

* Finishes see page 105

Please consider also the possibilities of our surface refinement centre.

Outside Ø mm	Wall thickness mm	Theoret. weight kg/m	Grade 1.4301 ASI 304 *)	Grade 1.4404 AISI 316L *)	Grade 1.4571 AISI 316Ti *)	Grade 1.4301 ASI 304 *) polished grain 240 or 320
40 x 40	4,00	4,81	▪	▪	▪	
45 x 45	2,00	2,83	▪			
45 x 45	3,00	4,16	▪			
50 x 10	1,50	1,41	▪			
50 x 20	1,50	1,65	▪		▪	▪
50 x 20	2,00	2,18	▪	▪		▪
50 x 25	2,00	2,34	▪	▪		▪
50 x 30	1,50	1,90	▪			
50 x 30	2,00	2,50	▪	▪	▪	▪
50 x 30	3,00	3,68	▪	▪	▪	
50 x 40	2,00	2,83	▪			
50 x 40	3,00	4,17	▪			
50 x 50	1,50	2,39	▪			▪
50 x 50	2,00	3,16	▪	▪	▪	▪
50 x 50	2,50	3,91	▪			
50 x 50	3,00	4,66	▪	▪	▪	▪
50 x 50	4,00	6,11	▪	▪		
50 x 50	5,00	7,51	▪		▪	
60 x 20	2,00	2,50	▪	▪		▪
60 x 30	1,50	2,14				▪
60 x 30	2,00	2,83	▪	▪	▪	▪
60 x 30	3,00	4,17	▪	▪	▪	
60 x 40	1,50	2,39	▪			▪
60 x 40	2,00	3,16	▪	▪	▪	▪
60 x 40	3,00	4,66	▪	▪	▪	▪
60 x 40	4,00	6,11	▪		▪	▪
60 x 60	2,00	3,81	▪	▪	▪	▪
60 x 60	3,00	5,63	▪	▪	▪	▪
60 x 60	4,00	7,41	▪	▪	▪	▪
60 x 60	5,00	9,14	▪	▪		
70 x 70	2,00	4,46	▪			
70 x 70	3,00	6,61	▪		▪	
70 x 70	4,00	8,71	▪		▪	
70 x 70	5,00	10,77	▪			
80 x 20	2,00	3,16	▪			
80 x 40	1,50	2,87				▪
80 x 40	2,00	3,81	▪		▪	▪
80 x 40	3,00	5,63	▪	▪	▪	
80 x 40	4,00	7,41	▪	▪	▪	

* Finishes see page 105

Please consider also the possibilities of our surface refinement centre.

Outside Ø mm	Wall thickness mm	Theoret. weight kg/m	Grade 1.4301 ASI 304 *)	Grade 1.4404 AISI 316L *)	Grade 1.4571 AISI 316Ti *)	Grade 1.4301 ASI 304 *) polished grain 240 or 320
80 x 40	5,00	9,14	▪	▪		
80 x 50	3,00	6,12	▪		▪	▪
80 x 60	2,00	4,46	▪			
80 x 60	3,00	6,61	▪		▪	
80 x 60	4,00	8,71	▪		▪	
80 x 60	5,00	9,14			▪	▪
80 x 80	2,00	5,11	▪		▪	▪
80 x 80	3,00	7,59	▪	▪	▪	▪
80 x 80	4,00	10,02	▪	▪	▪	▪
80 x 80	5,00	12,39	▪	▪		
80 x 80	6,00	14,72	▪			
100 x 20	2,00	3,81	▪			
100 x 40	2,00	4,46	▪	▪		▪
100 x 40	3,00	6,61	▪	▪		
100 x 40	4,00	8,71	▪		▪	
100 x 40	5,00	10,77	▪			
100 x 50	2,00	4,78	▪	▪		▪
100 x 50	3,00	7,10	▪	▪	▪	▪
100 x 50	4,00	9,36	▪		▪	
100 x 50	5,00	11,58	▪	▪		
100 x 60	2,00	5,11	▪		▪	
100 x 60	3,00	7,59	▪			▪
100 x 60	4,00	10,02	▪	▪		
100 x 60	5,00	12,39	▪		▪	
100 x 80	3,00	8,56	▪		▪	
100 x 80	4,00	11,32	▪		▪	
100 x 100	2,00	6,41	▪	▪		▪
100 x 100	3,00	9,54	▪		▪	▪
100 x 100	4,00	12,62	▪	▪	▪	
100 x 100	5,00	15,65	▪		▪	
100 x 100	6,00	18,63	▪		▪	
100 x 100	8,00	24,44	▪			
100 x 100	10,00	30,05	▪			
120 x 40	2,00	5,11			▪	
120 x 40	3,00	7,59	▪		▪	▪
120 x 40	4,00	10,02	▪			
120 x 60	2,00	5,76	▪			
120 x 60	3,00	8,56	▪		▪	▪
120 x 60	4,00	11,32	▪	▪		

* Finishes see page 105

Please consider also the possibilities of our surface refinement centre.

Outside Ø mm	Wall thickness mm	Theoret. weight kg/m	Grade 1.4301 ASI 304 *)	Grade 1.4404 AISI 316L *)	Grade 1.4571 AISI 316Ti *)	Grade 1.4301 ASI 304 *) polished grain 240 or 320
120 x 60	5,00	14,02	▪		▪	
120 x 60	6,00	16,68	▪			
120 x 80	3,00	9,54	▪		▪	
120 x 80	4,00	12,62	▪		▪	
120 x 80	5,00	15,65	▪		▪	
120 x 120	3,00	11,49	▪		▪	
120 x 120	4,00	15,22	▪		▪	
120 x 120	5,00	18,91	▪		▪	
120 x 120	6,00	22,54	▪			
120 x 120	8,00	29,65	▪			
140 x 80	3,00	10,52	▪			
140 x 80	4,00	13,62	▪		▪	
140 x 80	5,00	17,28	▪			
150 x 50	3,00	9,54	▪		▪	
150 x 50	4,00	12,62			▪	
150 x 100	3,00	11,98	▪		▪	
150 x 100	4,00	15,88	▪		▪	
150 x 100	5,00	19,72	▪		▪	
150 x 100	8,00	30,95	▪			
150 x 100	10,00	38,19	▪			
150 x 150	3,00	14,42	▪		▪	
150 x 150	4,00	19,13	▪		▪	
150 x 150	5,00	23,79	▪		▪	
150 x 150	6,00	28,40	▪			
150 x 150	8,00	37,46	▪			
150 x 150	10,00	46,32	▪			
160 x 80	3,00	11,49	▪			
160 x 80	4,00	15,22	▪			
160 x 80	5,00	18,91	▪		▪	
200 x 100	3,00	14,42			▪	
200 x 100	4,00	19,13	▪		▪	
200 x 100	5,00	23,79	▪		▪	
200 x 100	6,00	28,40	▪		▪	
200 x 100	8,00	37,46	▪			
200 x 200	4,00	25,64	▪			
200 x 200	5,00	31,93	▪		▪	
250 x 150	5,00	31,93	▪			

* Finishes see page 105

Please consider also the possibilities of our surface refinement centre.

CORROSION PIPES AND TUBES

round | seamless and welded

116 - 139

Lengths ahead

Great demands are made on corrosion pipes and tubes. For this reason we stock a range, which is broader and deeper than that of many other suppliers. It ranges from seamless to welded, from stainless, through higly corrosion resistant to heat-resistant. You certainly will make your strike in this offer!

Corrosion pipes and tubes | round

in random lenghts of 4 to 7m

* solution annealed, pickled or metal bright and not annealed, pickled or metal bright

Seamless corrosion pipes and tubes

Hot- (HFD) or cold-formed (CFD or CFA), pickled or metal bright surface.

Technical terms of delivery

EN 10305-1, EN 10216-5 TC1 and/or TC2, also in combination with AD 2000 leaflet W2. VdTÜV sheet 418, VdTÜV sheet 421. ASTM A 213, ASTM A 312.

Dimension standards

DIN EN ISO 1127, tolerance classes:
Cold-formed pipes D2/T3 or D3/T3 or
D4/T3. Hot-formed pipes D1/T1 or D2/T2. ASTM A 530, A 999. Cold-formed pipes (hydraulic tubes) with an outer diameter from 6 to 42 mm, DIN EN ISO 1127 D4/T3 following DIN EN 10305-1. ASTM A 269.

Welded corrosion pipes and tubes

Tubes from strip or sheet, heat-treated and pickled or blank annealed; respectively not annealed, pickled or mill finish; model type „b“ or „g“ (removed welding seam) acc. to EN 10217-7 table 2 or table 6 or DIN 11850 acc. to agreement

Technical terms of delivery

EN 10217-7 TC 1/TC 2, also in combination with AD 2000 leaflet W 2. EN 10296-2. DIN 11850 in combination with EN 10217-7 TC1, ASTM A312 and ASTM A 778.

Dimension standards

DIN EN ISO 1127, tolerance classes:
D2/T2 or D2/T3 or D3/T3 or D4/T3 DIN 11850 ASTM A 999 and ASTM A 530.

Test certificates

DIN EN 10204 3.1 or 3.2 acc. to agreement

* Classification see page 116 - 139

Outside Ø mm	Wall thick-ness mm	ASME size	The-oret. weight kg/m	Grade 1.4301 AISI 304 *)	Grade 1.4306 AISI 304L *)	Grade 1.4307 AISI 304L *)	Grade 1.4401 AISI 316 *)	Grade 1.4404 AISI 316L *)	Grade 1.4541 AISI 321 *)	Grade 1.4571 AISI 316Ti *)
4,00	0,50		0,04							▪
4,00	1,00		0,08	▪		▪				▪
5,00	1,00		0,10	▪		▪				▪
6,00	1,00		0,13	▪		▪	▪	▪	▪	▪
6,00	1,50		0,17						▪	▪
8,00	1,00		0,18	▪		▪	▪	▪	▪	▪
8,00	1,50		0,24	▪		▪				▪
8,00	2,00		0,30	▪		▪			▪	▪
10,00	1,00		0,23	▪		▪	▪	▪	▪	▪
10,00	1,50		0,32	▪		▪			▪	▪
10,00	2,00		0,40	▪		▪			▪	▪
10,00	2,50		0,47	▪		▪				
10,20	2,00		0,41				▪	▪		
12,00	1,00		0,28	▪	▪	▪	▪	▪	▪	▪
12,00	1,50		0,39	▪	▪	▪			▪	▪
12,00	2,00		0,50	▪	▪	▪			▪	▪
12,00	2,50		0,59	▪	▪	▪				
13,50	1,60		0,48						▪	▪
13,50	2,30		0,65	▪	▪	▪	▪	▪	▪	▪
13,70	3,02	1/4“ SCH 80S	0,81				▪	▪		
14,00	2,00		0,60	▪	▪	▪				▪
14,00	2,50		0,72						▪	
14,00	3,00		0,83				▪	▪		
15,00	1,00		0,35				▪	▪		
15,00	1,50		0,51	▪	▪	▪			▪	▪
15,00	2,00		0,65	▪	▪	▪			▪	▪
16,00	1,00		0,38	▪	▪	▪				▪
16,00	1,50		0,54	▪	▪	▪			▪	▪
16,00	2,00		0,70	▪	▪	▪	▪	▪	▪	▪
16,00	2,50		0,85						▪	▪
16,00	3,00		0,98						▪	▪
17,20	1,60		0,62	▪	▪	▪				▪
17,20	2,00		0,76	▪	▪	▪			▪	▪
17,20	2,30		0,86	▪	▪	▪	▪	▪	▪	▪
18,00	1,00		0,43	▪	▪	▪	▪	▪		▪
18,00	1,50		0,62	▪	▪	▪			▪	▪
18,00	2,00		0,80	▪	▪	▪			▪	▪
18,00	2,50		0,97						▪	▪
18,00	3,00		1,13						▪	▪

* Finishes see page 115

Outside Ø mm	Wall thick-ness mm	ASME size	The-oret. weight kg/m	Grade 1.4301 AISI 304 *)	Grade 1.4306 AISI 304L *)	Grade 1.4307 AISI 304L *)	Grade 1.4401 AISI 316 *)	Grade 1.4404 AISI 316L *)	Grade 1.4541 AISI 321 *)	Grade 1.4571 AISI 316Ti *)
18,00	4,00		1,40	▪	▪	▪			▪	
20,00	1,50		0,69	▪	▪	▪				▪
20,00	2,00		0,90	▪	▪	▪			▪	▪
20,00	2,50		1,10	▪	▪	▪			▪	▪
20,00	3,00		1,28	▪	▪	▪			▪	
20,00	4,00		1,60						▪	▪
20,00	5,00		1,88						▪	▪
20,00	6,00		2,10						▪	
21,30	1,60		0,79	▪	▪	▪				▪
21,30	2,00		0,97	▪	▪	▪	▪	▪	▪	▪
21,30	2,11	1/2“ SCH 10S	1,02						▪	▪
21,30	2,60		1,22	▪	▪	▪			▪	▪
21,30	2,77	1/2“ SCH 40S	1,29	▪	▪	▪	▪	▪	▪	▪
21,30	2,90		1,34							▪
21,30	3,20		1,45	▪	▪	▪				▪
21,30	3,73	1/2“ SCH 80S	1,64	▪	▪	▪	▪	▪	▪	▪
21,30	4,78	1/2“ SCH 160	1,98						▪	▪
21,30	7,47	1/2“ XXS	2,59	▪	▪	▪				
22,00	1,00		0,53							▪
22,00	1,50		0,77	▪	▪	▪			▪	▪
22,00	2,00		1,00	▪	▪	▪			▪	▪
22,00	3,00		1,43						▪	
25,00	1,50		0,88	▪	▪	▪				▪
25,00	2,00		1,15	▪	▪	▪			▪	▪
25,00	2,50		1,41	▪	▪	▪	▪	▪	▪	▪
25,00	3,00		1,65	▪	▪	▪	▪	▪	▪	▪
25,00	4,00		2,10						▪	
25,00	5,00		2,50	▪	▪	▪			▪	▪
26,70	2,11	3/4“ SCH 10S	1,30	▪	▪	▪	▪	▪	▪	
26,70	2,87	3/4“ SCH 40S	1,71	▪	▪	▪	▪	▪	▪	
26,70	3,91	3/4“ SCH 80S	2,23	▪	▪	▪	▪	▪	▪	▪
26,70	5,56	3/4“ SCH 160	2,93	▪	▪	▪				▪
26,70	7,82	3/4“ XXS	3,69	▪	▪	▪	▪	▪		
26,90	2,00		1,25	▪	▪	▪			▪	▪
26,90	2,30		1,42							▪
26,90	2,60		1,58	▪	▪	▪	▪	▪	▪	▪
26,90	3,20		1,90	▪	▪	▪			▪	▪
28,00	1,50		1,00	▪	▪	▪			▪	▪
28,00	2,00		1,30	▪	▪	▪			▪	▪

* Finishes see page 115

Outside Ø mm	Wall thick-ness mm	ASME size	The-oret. weight kg/m	Grade 1.4301 AISI 304 *)	Grade 1.4306 AISI 304L *)	Grade 1.4307 AISI 304L *)	Grade 1.4401 AISI 316 *)	Grade 1.4404 AISI 316L *)	Grade 1.4541 AISI 321 *)	Grade 1.4571 AISI 316Ti *)
28,00	2,50		1,60							▪
28,00	3,00		1,88						▪	▪
30,00	2,00		1,40	▪	▪	▪			▪	▪
30,00	2,60		1,78	▪	▪	▪				▪
30,00	3,00		2,03	▪	▪	▪	▪	▪	▪	▪
30,00	4,00		2,60				▪	▪	▪	▪
30,00	5,00		3,13	▪	▪	▪			▪	▪
32,00	2,00		1,50	▪	▪	▪				
33,40	2,77	1“ SCH 10S	2,12	▪	▪	▪	▪	▪		▪
33,40	3,38	1“ SCH 40S	2,54	▪	▪	▪	▪	▪		▪
33,40	4,55	1“ SCH 80S	3,29	▪	▪	▪	▪	▪	▪	▪
33,40	6,35	1“ SCH 160	4,30				▪	▪		
33,70	2,00		1,59	▪	▪	▪			▪	▪
33,70	2,60		2,02	▪	▪	▪	▪	▪	▪	▪
33,70	3,20		2,44	▪	▪	▪	▪	▪	▪	▪
33,70	3,60		2,71						▪	
33,70	4,05		3,01	▪	▪	▪			▪	▪
35,00	3,00		2,40							▪
36,00	2,00		1,70							▪
38,00	2,00		1,80	▪	▪	▪			▪	▪
38,00	2,60		2,30	▪	▪	▪				▪
38,00	3,00		2,63	▪	▪	▪				▪
38,00	4,00		3,41				▪	▪	▪	▪
38,00	5,00		4,13	▪	▪	▪			▪	▪
40,00	2,00		1,90	▪	▪	▪			▪	
40,00	2,50		2,35	▪	▪	▪				
40,00	3,00		2,78	▪	▪	▪				
40,00	5,00		4,38	▪	▪	▪			▪	▪
42,00	3,00		2,93				▪	▪		
42,20	2,77	1 1/4“ SCH 10S	2,73				▪	▪	▪	
42,20	3,56	1 1/4“ SCH 40S	3,44	▪	▪	▪	▪	▪	▪	▪
42,20	4,85	1 1/4“ SCH 80S	4,53	▪	▪	▪	▪	▪		▪
42,20	6,35	1 1/4“ SCH 160	5,69	▪	▪	▪	▪	▪		
42,40	2,00		2,02	▪	▪	▪			▪	▪
42,40	2,60		2,59	▪	▪	▪	▪	▪	▪	▪
42,40	3,20		3,14	▪	▪	▪	▪	▪	▪	▪
42,40	4,05		3,89	▪	▪	▪			▪	▪
44,50	2,00		2,13	▪	▪	▪				▪
44,50	2,60		2,73	▪	▪	▪				▪

* Finishes see page 115

Outside Ø mm	Wall thick-ness mm	ASME size	The-oret. weight kg/m	Grade 1.4301 AISI 304 *)	Grade 1.4306 AISI 304L *)	Grade 1.4307 AISI 304L *)	Grade 1.4401 AISI 316 *)	Grade 1.4404 AISI 316L *)	Grade 1.4541 AISI 321 *)	Grade 1.4571 AISI 316Ti *)
48,30	2,00		2,32	▪	▪	▪			▪	▪
48,30	2,60		2,98	▪	▪	▪	▪	▪	▪	▪
48,30	2,77	1 1/2“ SCH 10S	3,16				▪	▪	▪	
48,30	3,20		3,61	▪	▪	▪	▪	▪	▪	▪
48,30	3,68	1 1/2“ SCH 40S	4,11	▪	▪	▪	▪	▪	▪	▪
48,30	4,05		4,49	▪	▪	▪			▪	▪
48,30	5,08	1 1/2“ SCH 80S	5,49	▪	▪	▪	▪	▪	▪	▪
48,30	7,14	1 1/2“ SCH 160	7,35				▪	▪		
48,30	10,15	1 1/2“ XXS	9,69	▪	▪	▪				
50,00	2,00		2,40	▪	▪	▪			▪	
50,00	4,00		4,60							▪
50,00	5,00		5,63	▪	▪	▪			▪	▪
50,00	6,00		6,61	▪	▪	▪				▪
51,00	2,60		3,15	▪	▪	▪				▪
54,00	2,00		2,60	▪	▪	▪				▪
55,00	5,00		6,26	▪	▪	▪				
57,00	2,00		2,75	▪	▪	▪				▪
57,00	2,60		3,54						▪	
57,00	2,90		3,93	▪	▪	▪			▪	
57,00	3,00		4,06							▪
60,00	5,00		6,89	▪	▪	▪				▪
60,30	2,00		2,92	▪	▪	▪			▪	▪
60,30	2,60		3,76	▪	▪	▪	▪	▪	▪	▪
60,30	2,77	2“ SCH 10S	3,99	▪	▪	▪	▪	▪		
60,30	2,90		4,17	▪	▪	▪			▪	▪
60,30	3,20		4,58				▪	▪	▪	▪
60,30	3,60		5,11	▪	▪	▪				▪
60,30	3,91	2“ SCH 40S	5,52	▪	▪	▪	▪	▪	▪	▪
60,30	4,50		6,29	▪	▪	▪			▪	▪
60,30	5,54	2“ SCH 80S	7,60	▪	▪	▪	▪	▪	▪	▪
60,30	8,74	2“ SCH 160S	11,29	▪	▪	▪	▪	▪	▪	▪
70,00	2,90		4,87	▪	▪	▪				▪
70,00	5,00		8,14						▪	
73,00	3,05	2 1/2“ SCH 10S	5,34	▪	▪	▪	▪	▪		▪
73,00	5,16	2 1/2“ SCH 40S	8,77	▪	▪	▪	▪	▪	▪	▪
73,00	7,01	2 1/2“ SCH 80S	11,59	▪	▪	▪	▪	▪	▪	
73,00	9,53	2 1/2“ SCH 160	15,15				▪	▪		
73,00	14,02	2 1/2“ XXS	20,72	▪	▪	▪	▪	▪		
76,10	2,00		3,71						▪	

* Finishes see page 115

Outside Ø mm	Wall thick-ness mm	ASME size	The-oret. weight kg/m	Grade 1.4301 AISI 304 *)	Grade 1.4306 AISI 304L *)	Grade 1.4307 AISI 304L *)	Grade 1.4401 AISI 316 *)	Grade 1.4404 AISI 316L *)	Grade 1.4541 AISI 321 *)	Grade 1.4571 AISI 316Ti *)
76,10	2,60		4,79	▪	▪	▪	▪	▪		
76,10	2,90		5,32	▪	▪	▪			▪	▪
76,10	3,20		5,84						▪	
76,10	3,60		6,54	▪	▪	▪	▪	▪	▪	▪
76,10	4,50		8,07	▪	▪	▪			▪	▪
76,10	6,30		11,01						▪	▪
80,00	5,00		9,39	▪	▪	▪				▪
88,90	2,00		4,35							▪
88,90	2,60		5,62	▪	▪	▪			▪	
88,90	2,90		6,24	▪	▪	▪			▪	
88,90	3,05	3“ SCH 10S	6,56	▪	▪	▪	▪	▪		▪
88,90	3,20		6,49	▪	▪	▪			▪	▪
88,90	3,60		7,69	▪	▪	▪			▪	
88,90	4,05		8,60	▪	▪	▪			▪	▪
88,90	4,50		9,51	▪	▪	▪				▪
88,90	5,49	3“ SCH 40S	11,47	▪	▪	▪	▪	▪	▪	▪
88,90	7,62	3“ SCH 80S	15,51	▪	▪	▪	▪	▪	▪	▪
101,60	3,05	3 1/2“ SCH 10S	7,53	▪	▪	▪	▪	▪	▪	
101,60	4,05		9,89	▪	▪	▪			▪	
101,60	5,74	3 1/2“ SCH 40S	13,78	▪	▪	▪	▪	▪	▪	▪
108,00	3,00		7,89	▪	▪	▪			▪	▪
108,00	4,00		10,42	▪	▪	▪			▪	▪
108,00	5,00		12,90							▪
114,30	2,60		7,27						▪	▪
114,30	3,05	4“ SCH 10S	8,50	▪	▪	▪	▪	▪	▪	▪
114,30	3,60		9,98	▪	▪	▪			▪	▪
114,30	4,50		12,37	▪	▪	▪				▪
114,30	6,02	4“ SCH 40S	16,32	▪	▪	▪	▪	▪	▪	▪
114,30	7,11		19,08	▪	▪	▪				
114,30	8,56	4“ SCH 80S	22,66	▪	▪	▪	▪	▪	▪	▪
121,00	4,00		11,72						▪	
133,00	4,00		12,92	▪	▪	▪			▪	▪
139,70	4,00		13,59						▪	▪
141,30	3,40	5“ SCH 10S	11,74						▪	
141,30	6,55	5“ SCH 40S	22,10	▪	▪	▪	▪	▪	▪	▪
141,30	9,53	5“ SCH 80S	31,44				▪	▪	▪	▪
141,30	19,05	5“ SCH XXS	58,31	▪	▪	▪				
159,00	4,50		17,41						▪	▪
168,30	3,40	6“ SCH 10S	14,04	▪	▪	▪	▪	▪		

* Finishes see page 115

Outside Ø mm	Wall thick-ness mm	ASME size	The-oret. weight kg/m	Grade 1.4301 AISI 304 *)	Grade 1.4306 AISI 304L *)	Grade 1.4307 AISI 304L *)	Grade 1.4401 AISI 316 *)	Grade 1.4404 AISI 316L *)	Grade 1.4541 AISI 321 *)	Grade 1.4571 AISI 316Ti *)
168,30	4,50		18,46	▪	▪	▪			▪	▪
168,30	5,00		20,45	▪	▪	▪			▪	▪
168,30	7,11	6“ SCH 40S	28,70	▪	▪	▪	▪	▪	▪	▪
168,30	10,97	6“ SCH 80S	43,22	▪	▪	▪	▪	▪	▪	▪
168,30	18,26	6“ SCH 160	68,60				▪	▪		
168,30	21,95	6“ SCH XXS	80,44	▪	▪	▪				
219,10	3,76	8“ SCH 10S	20,27	▪	▪	▪	▪	▪		
219,10	6,35	8“ SCH 20	33,57	▪	▪	▪			▪	▪
219,10	8,18	8“ SCH 40S	43,20	▪	▪	▪	▪	▪	▪	▪
219,10	12,70	8“ SCH 80S	65,64	▪	▪	▪	▪	▪	▪	▪
273,00	9,27	10“ SCH 40S	61,22	▪	▪	▪	▪	▪		▪
273,00	12,70	10“ SCH 80S	82,78	▪	▪	▪	▪	▪		▪
323,90	9,53	12“ SCH 40S	75,02	▪	▪	▪	▪	▪		▪
323,90	12,70	12“ SCH 80S	98,96	▪	▪	▪	▪	▪		▪

* Finishes see page 115

Outside Ø mm	Wall thick-ness mm	ASME size	The-oret. weight kg/m	Grade 1.4539 AISI 904L *)
10,30	2,00		0,42	▪
13,70	2,24	1/4“ SCH 40S	0,64	▪
17,10	2,31	3/8“ SCH 40S	0,86	▪
21,30	2,11	1/2“ SCH 10S	1,02	▪
21,30	2,77	1/2“ SCH 40S	1,29	▪
26,70	2,11	3/4“ SCH 10S	1,30	▪
26,70	2,87	3/4“ SCH 40S	1,71	▪
26,70	3,91	3/4“ SCH 80S	2,23	▪
33,40	2,77	1“ SCH 10S	2,12	▪
33,40	3,38	1“ SCH 40S	2,54	▪
33,40	4,55	1“ SCH 80S	3,29	▪
42,20	2,77	1 1/4“ SCH 10S	2,73	▪
42,20	3,56	1 1/4“ SCH 40S	3,44	▪
48,30	2,77	1 1/2“ SCH 10S	3,16	▪
48,30	3,68	1 1/2“ SCH 40S	4,11	▪
48,30	5,08	1 1/2“ SCH 80S	5,49	▪
60,30	2,77	2“ SCH 10S	3,99	▪
60,30	3,91	2“ SCH 40S	5,52	▪
60,30	5,54	2“ SCH 80S	7,60	▪
76,10	4,00		7,22	▪
88,90	3,05	3“ SCH 10S	6,56	▪
88,90	4,00		8,50	▪
88,90	5,49	3“ SCH 40S	11,47	▪
88,90	7,62	3“ SCH 80S	15,51	▪
108,00	4,00		10,42	▪
114,30	3,05	4“ SCH 10S	8,50	▪
114,30	6,02	4“ SCH 40S	16,32	▪
114,30	8,56	4“ SCH 80S	22,66	▪
159,00	6,00		22,99	▪
168,30	7,11	6“ SCH 40S	28,70	▪
219,10	8,18	8“ SCH 40S	43,20	▪
219,10	12,70	8“ SCH 80S	65,64	▪

* Finishes see page 115

Outside Ø mm	Wall thick-ness mm	ASME size	The-oret. weight kg/m	Grade 1.4462 UNS S31803 *) Duplex	Grade 1.4501 UNS S32760 *) Superduplex
13,70	2,24	1/4“ SCH 40S	0,64	▪	
17,20	2,31	3/8“ SCH 40S	0,86	▪	
21,30	2,11	1/2“ SCH 10S	1,02	▪	
21,30	2,77	1/2“ SCH 40S	1,29	▪	▪
21,30	3,73	1/2“ SCH 80S	1,64		▪
26,70	2,11	3/4“ SCH 10S	1,30	▪	
26,70	2,87	3/4“ SCH 40S	1,71	▪	▪
26,70	3,91	3/4“ SCH 80S	2,23		▪
33,40	2,77	1“ SCH 10S	2,12	▪	
33,40	3,38	1“ SCH 40S	2,54	▪	▪
33,40	4,55	1“ SCH 80S	3,29	▪	▪
42,20	2,77	1 1/4“ SCH 10S	2,73	▪	
42,20	3,56	1 1/4“ SCH 40S	3,44	▪	▪
48,30	2,77	1 1/2“ SCH 10S	3,16	▪	
48,30	3,68	1 1/2“ SCH 40S	4,11	▪	▪
48,30	5,08	1 1/2“ SCH 80S	5,49	▪	▪
60,30	2,77	2“ SCH 10S	3,99	▪	
60,30	3,91	2“ SCH 40S	5,52	▪	▪
60,30	5,54	2“ SCH 80S	7,60	▪	▪
73,00	3,05	2 1/2“ SCH 10S	5,34	▪	
73,00	5,16	2 1/2“ SCH 40S	8,77	▪	
88,90	3,05	3“ SCH 10S	6,56	▪	▪
88,90	4,05		8,60	▪	
88,90	5,49	3“ SCH 40S	11,47	▪	▪
114,30	3,05	4“ SCH 10S	8,50	▪	
114,30	6,02	4“ SCH 40S	16,32	▪	▪
168,30	3,40	6“ SCH 10S	14,04	▪	
168,30	7,11	6“ SCH 40S	28,70	▪	▪
219,10	8,18	8“ SCH 40S	43,20	▪	

* Finishes see page 115

Outside Ø mm	Wall thick-ness mm	ASME size	The-oret. weight kg/m	Grade 1.4841 AISI 314 *)	Grade 1.4845 AISI 310S *)	Grade 1.4878 AISI 321H *)
6,00	1,00		0,13	▪		▪
6,00	1,50		0,17			▪
8,00	1,00		0,18	▪		▪
8,00	1,50		0,24	▪		
8,00	2,00		0,30			▪
10,00	1,00		0,23	▪		▪
10,00	1,50		0,32			▪
10,00	2,00		0,40			▪
10,20	2,00		0,41	▪		
12,00	1,00		0,28			▪
12,00	1,50		0,39			▪
12,00	2,00		0,50	▪		▪
13,50	1,60		0,48			▪
13,50	2,30		0,65	▪		
13,50	2,60		0,71			▪
13,70	2,24	1/4“ SCH 40S	0,64		▪	
14,00	1,50		0,47	▪		
15,00	1,50		0,51			▪
15,00	2,00		0,65	▪		▪
16,00	1,50		0,54			▪
16,00	2,00		0,70			▪
16,00	2,50		0,85			▪
16,00	3,00		0,98			▪
17,20	2,00		0,76			▪
17,20	2,30		0,86	▪		▪
17,20	2,31		0,86		▪	
18,00	1,50		0,62			▪
18,00	2,00		0,80			▪
18,00	2,50		0,97			▪
18,00	3,00		1,13			▪
18,00	4,00		1,40			▪
20,00	2,00		0,90	▪		▪
20,00	2,50		1,10			▪
20,00	3,00		1,28			▪
20,00	4,00		1,60			▪
20,00	5,00		1,88			▪
20,00	6,00		2,10			▪
21,30	2,00		0,97			▪

* Finishes see page 115

Outside Ø mm	Wall thick-ness mm	ASME size	The-oret. weight kg/m	Grade 1.4841 AISI 314 *)	Grade 1.4845 AISI 310S *)	Grade 1.4878 AISI 321H *)
21,30	2,11	1/2“ SCH 10S	1,02			▪
21,30	2,60		1,22	▪		▪
21,30	2,77	1/2“ SCH 40S	1,29		▪	▪
21,30	3,73	1/2“ SCH 80S	1,64		▪	▪
21,30	4,75	1/2“ SCH 160	1,98			▪
22,00	1,50		0,77			▪
22,00	2,00		1,00	▪		▪
22,00	3,00		1,43			▪
25,00	2,00		1,15	▪		▪
25,00	2,50		1,41			▪
25,00	3,00		1,65			▪
25,00	4,00		2,10			▪
25,00	5,00		2,50			▪
26,70	2,87	3/4“ SCH 40S	1,71		▪	▪
26,70	3,91	3/4“ SCH 80S	2,23	▪	▪	▪
26,90	2,00		1,25	▪		▪
26,90	2,60		1,58	▪		▪
26,90	3,20		1,90			▪
28,00	1,50		1,00			▪
28,00	2,00		1,30			▪
30,00	2,00		1,40	▪		▪
30,00	3,00		2,03			▪
30,00	4,00		2,60			▪
30,00	5,00		3,13			▪
33,40	3,38	1“ SCH 40S	2,54		▪	
33,40	4,55	1“ SCH 80S	3,29		▪	▪
33,70	2,00		1,59	▪		▪
33,70	2,60		2,02			▪
33,70	3,20		2,44	▪		▪
33,70	3,60		2,71			▪
33,70	4,05		3,01			▪
38,00	2,00		1,80			▪
38,00	3,00		2,63			▪
38,00	4,00		3,41			▪
38,00	5,00		4,13			▪
40,00	2,00		1,90			▪
40,00	5,00		4,38			▪
42,20	2,77	1 1/4“ SCH 10S	2,73			▪

* Finishes see page 115

Outside Ø mm	Wall thick-ness mm	ASME size	The-oret. weight kg/m	Grade 1.4841 AISI 314 *)	Grade 1.4845 AISI 310S *)	Grade 1.4878 AISI 321H *)
42,20	3,56	1 1/4“ SCH 40S	3,44		▪	▪
42,20	4,85	1 1/4“ SCH 80S	4,53		▪	
42,40	2,00		2,02			▪
42,40	2,60		2,59			▪
42,40	3,20		3,14	▪		▪
42,40	4,05		3,89			▪
48,30	2,00		2,32			▪
48,30	2,60		2,98			▪
48,30	2,77	1 1/2“ SCH 10S	3,16			▪
48,30	3,20		3,61	▪		▪
48,30	3,68	1 1/2“ SCH 40S	4,11		▪	▪
48,30	4,00		4,44	▪		
48,30	4,05		4,49			▪
48,30	5,08	1 1/2“ SCH 80S	5,49		▪	▪
50,00	2,00		2,40			▪
50,00	5,00		5,63			▪
57,00	2,60		3,54			▪
57,00	2,90		3,93			▪
60,30	2,00		2,92			▪
60,30	2,60		3,76			▪
60,30	2,90		4,17			▪
60,30	3,00		4,30	▪		
60,30	3,20		4,58			▪
60,30	3,60		5,11	▪		
60,30	3,91	2“ SCH 40S	5,52		▪	▪
60,30	4,00		5,64	▪		
60,30	4,50		6,29			▪
60,30	5,54	2“ SCH 80S	7,60		▪	▪
60,30	8,74	2“ SCH 160	11,29			▪
70,00	5,00		8,14			▪
73,00	3,05	2 1/2“ SCH 10S	5,34		▪	
73,00	5,16	2 1/2“ SCH 40S	8,77		▪	▪
73,00	7,01	2 1/2“ SCH 80S	11,59			▪
76,10	2,00		3,71			▪
76,10	2,90		5,32			▪
76,10	3,00		5,49	▪		
76,10	3,20		5,84			▪
76,10	3,60		6,54	▪		▪

* Finishes see page 115

Outside Ø mm	Wall thick-ness mm	ASME size	The-oret. weight kg/m	Grade 1.4841 AISI 314 *)	Grade 1.4845 AISI 310S *)	Grade 1.4878 AISI 321H *)
76,10	4,50		8,07		▪	▪
76,10	6,30		11,01			▪
88,90	2,60		5,62			▪
88,90	2,90		6,24			▪
88,90	3,00		6,45	▪		
88,90	3,20		6,49			▪
88,90	3,60		7,69			▪
88,90	4,00		8,50	▪		
88,90	4,05		8,60		▪	▪
88,90	5,49	3“ SCH 40S	11,47	▪	▪	▪
88,90	7,62	3“ SCH 80S	15,51			▪
101,60	3,05	3 1/2“ SCH 10S	7,53			▪
101,60	4,00		9,78	▪	▪	
101,60	4,05		9,89			▪
101,60	5,74	3 1/2“ SCH 40S	13,78		▪	▪
108,00	3,00		7,89			▪
108,00	4,00		10,42			▪
114,30	2,60		7,27			▪
114,30	3,00		8,36	▪		
114,30	3,05	4“ SCH 10S	8,50			▪
114,30	3,60		9,98			▪
114,30	4,50		12,37		▪	
114,30	6,02	4“ SCH 40S	16,32	▪	▪	▪
114,30	8,56	4“ SCH 80S	22,66			▪
121,00	4,00		11,72			▪
133,00	4,00		12,92	▪		▪
139,70	4,00		13,59	▪		▪
139,70	5,00		16,86		▪	
141,30	6,55	5“ SCH 40S	22,10		▪	▪
141,30	9,53	5“ SCH 80S	31,44			▪
159,00	4,50		17,41			▪
168,30	3,40	6“ SCH 10S	14,04			▪
168,30	4,50		18,46	▪	▪	▪
168,30	5,00		20,45			▪
168,30	7,11	6“ SCH 40S	28,70		▪	▪
168,30	10,97	6“ SCH 80S	43,22			▪
219,10	6,35	8“ SCH 20	33,57		▪	▪
219,10	8,18	8“ SCH 40S	43,20			▪
219,10	12,70	8“ SCH 80S	65,64		▪	▪

* Finishes see page 115

Outside Ø mm	Wall thickness mm	Theoret. weight kg/m	Grade 1.4301 ASI 304 *)	Grade 1.4307 AISI 304L *)	Grade 1.4541 AISI 321 *)	Grade 1.4571 AISI 316Ti *)
6,00	1,00	0,13	▪	▪	▪	▪
6,00	1,50	0,17	▪	▪	▪	▪
8,00	1,00	0,18	▪	▪	▪	▪
8,00	1,50	0,24	▪	▪	▪	▪
10,00	1,00	0,23	▪	▪	▪	▪
10,00	1,50	0,32	▪	▪	▪	▪
10,00	2,00	0,40	▪	▪	▪	▪
12,00	1,00	0,28	▪	▪	▪	▪
12,00	1,50	0,39	▪	▪	▪	▪
12,00	2,00	0,50	▪	▪	▪	▪
14,00	2,00	0,60	▪	▪	▪	▪
14,00	2,50	0,72				▪
15,00	1,50	0,51	▪	▪		▪
15,00	2,00	0,65	▪	▪	▪	▪
16,00	1,50	0,54	▪	▪		
16,00	2,00	0,70	▪	▪	▪	▪
16,00	2,50	0,85			▪	
16,00	3,00	0,98	▪	▪	▪	▪
17,20	2,00	0,76			▪	
18,00	1,50	0,62	▪	▪	▪	▪
18,00	2,00	0,80	▪	▪	▪	▪
18,00	2,50	0,97				▪
20,00	2,00	0,90	▪	▪	▪	▪
20,00	2,50	2,10	▪	▪	▪	▪
20,00	3,00	1,28	▪	▪	▪	▪
21,30	3,20	1,45				▪
22,00	1,50	0,77	▪	▪	▪	▪
22,00	2,00	1,00	▪	▪	▪	▪
25,00	2,00	1,15	▪	▪	▪	▪
25,00	2,50	1,41	▪	▪	▪	
25,00	3,00	1,65	▪	▪	▪	▪
28,00	1,50	1,00	▪	▪	▪	
28,00	2,00	1,30	▪	▪	▪	▪
30,00	2,00	1,40	▪	▪		
30,00	2,50	1,72	▪	▪	▪	
30,00	3,00	2,03	▪	▪	▪	▪
30,00	4,00	2,60	▪	▪	▪	▪
30,00	5,00	3,13				▪
35,00	2,00	1,65	▪	▪	▪	▪

* Finishes see page 115

Outside Ø mm	Wall thickness mm	Theoret. weight kg/m	Grade 1.4301 ASI 304 *)	Grade 1.4307 AISI 304L *)	Grade 1.4541 AISI 321 *)	Grade 1.4571 AISI 316Ti *)
35,00	3,00	2,40				▪
38,00	2,00	1,80	▪	▪	▪	▪
38,00	4,00	3,41			▪	
38,00	5,00	4,13	▪	▪	▪	
42,00	2,00	2,00	▪	▪		▪
42,00	3,00	2,93	▪	▪	▪	
42,40	2,60	2,59				▪
48,30	2,60	2,98				▪
57,00	2,00	2,75				▪
57,00	2,90	3,93			▪	
60,30	4,00	5,64				▪
88,90	4,50	9,51				▪

* Finishes see page 115

Outside Ø mm	Wall thickness mm	Theoret. weight kg/m	Grade 1.4301 ASI 304 *)	Grade 1.4307 AISI 304L *)	Grade 1.4541 AISI 321 *)	Grade 1.4571 AISI 316Ti *)
6,00	1,00	0,13	▪	▪	▪	▪
6,00	1,50	0,17				▪
8,00	1,00	0,18	▪	▪	▪	▪
8,00	1,50	0,24	▪	▪		▪
10,00	1,00	0,23	▪	▪	▪	▪
10,00	1,50	0,32	▪	▪	▪	▪
10,00	2,00	0,40	▪	▪	▪	▪
12,00	1,00	0,28	▪	▪	▪	▪
12,00	1,50	0,39	▪	▪	▪	▪
12,00	2,00	0,50	▪	▪	▪	▪
14,00	2,00	0,60				▪
14,00	2,50	0,72	▪	▪		
15,00	1,00	0,35	▪	▪		▪
15,00	1,50	0,51	▪	▪	▪	▪
15,00	2,00	0,65	▪	▪		▪
16,00	1,50	0,54	▪	▪	▪	
16,00	2,00	0,70	▪	▪	▪	▪
18,00	1,50	0,62	▪	▪	▪	▪
18,00	2,00	0,80	▪	▪	▪	▪
18,00	2,50	0,97	▪	▪		▪
20,00	1,00	0,48	▪	▪		
20,00	1,50	0,69	▪	▪		▪
20,00	2,00	0,90	▪	▪	▪	▪
21,30	2,00	0,97	▪	▪	▪	▪
21,30	2,60	1,22	▪	▪		▪
22,00	1,50	0,77	▪	▪		▪
22,00	2,00	1,00	▪	▪		▪
22,00	4,00	1,80	▪	▪		
25,00	1,50	0,88	▪	▪		
25,00	2,00	1,15	▪	▪	▪	▪
28,00	1,50	1,00	▪	▪	▪	
28,00	2,00	1,30	▪	▪	▪	▪
33,70	2,00	1,59				▪
42,00	2,00	2,00	▪	▪		
42,40	2,00	2,02				▪

* Finishes see page 115

Outside Ø mm	Wall thick-ness mm	ASME size	Theoret. weight kg/m	Grade 1.4301 AISI 304 *)	Grade 1.4307 AISI 304L *)	Grade 1.4404 AISI 316L *)	Grade 1.4541 AISI 321 *)	Grade 1.4571 AISI 316Ti *)
5,00	0,75		0,08	▪	▪			
8,00	1,00		0,18	▪	▪			
8,00	1,50		0,24	▪	▪			
10,00	1,00		0,23	▪	▪			▪
10,00	1,50		0,32	▪	▪			
12,00	1,00		0,28	▪	▪			▪
14,00	1,00		0,33					▪
14,00	1,50		0,47	▪	▪			▪
15,00	1,50		0,51	▪	▪			▪
16,00	1,50		0,54	▪	▪			▪
17,20	1,60		0,62	▪	▪	▪		
17,20	2,00		0,76	▪	▪	▪		
17,20	2,30		0,86	▪	▪	▪		▪
18,00	1,50		0,62	▪	▪			▪
20,00	1,00		0,48	▪	▪			▪
20,00	1,50		0,69	▪	▪	▪		▪
20,00	2,00		0,90	▪	▪			▪
21,30	1,60		0,79	▪	▪	▪		▪
21,30	2,00		0,97	▪	▪	▪	▪	▪
21,30	2,60		1,22	▪	▪	▪	▪	▪
21,34	2,11	1/2“ SCH 10S	1,02	▪	▪			
22,00	1,00		0,53	▪	▪			
22,00	1,50		0,77	▪	▪	▪		
22,00	2,00		1,00	▪	▪			
23,00	1,50		0,81	▪	▪	▪		▪
25,00	1,50		0,88	▪	▪	▪		
25,00	2,00		1,15	▪	▪	▪		
26,90	1,60		1,01	▪	▪	▪		▪
26,90	2,00		1,25	▪	▪	▪	▪	▪
26,90	2,60		1,58	▪	▪	▪	▪	▪
28,00	1,50		1,00	▪	▪	▪		▪
28,00	2,00		1,30	▪	▪	▪		
30,00	1,50		1,07	▪	▪	▪		
30,00	2,00		1,40	▪	▪	▪		▪
30,00	2,60		1,78			▪		
30,00	3,00		2,03					▪
32,00	1,50		1,15	▪	▪	▪		
32,00	2,00		1,50	▪	▪	▪		

* Finishes see page 115

Outside Ø mm	Wall thick-ness mm	ASME size	Theoret. weight kg/m	Grade 1.4301 AISI 304 *)	Grade 1.4307 AISI 304L *)	Grade 1.4404 AISI 316L *)	Grade 1.4541 AISI 321 *)	Grade 1.4571 AISI 316Ti *)
33,00	1,50		1,18	▪	▪	▪		
33,70	1,60		1,29	▪	▪	▪		▪
33,70	2,00		1,59	▪	▪	▪	▪	▪
33,70	2,60		2,02	▪	▪	▪	▪	▪
33,70	3,20		2,44	▪	▪	▪		▪
34,00	1,50		1,22	▪	▪	▪		
35,00	1,50		1,26			▪		
35,00	2,00		1,65	▪	▪	▪		▪
38,10	1,50		1,37			▪		
38,10	2,00		1,80	▪	▪	▪		
40,00	1,50		1,45	▪	▪	▪		
40,00	2,00		1,90	▪	▪	▪		▪
42,40	1,60		1,63	▪	▪	▪		▪
42,40	2,00		2,02	▪	▪	▪	▪	▪
42,40	2,60		2,59	▪	▪		▪	▪
42,40	3,00		2,96	▪	▪			
42,40	3,20		3,14	▪	▪	▪		▪
42,40	4,00		3,85	▪	▪			
43,00	1,50		1,56	▪	▪	▪		▪
44,00	1,50		1,60			▪		
44,50	2,00		2,13	▪	▪	▪		
44,50	2,60		2,73	▪	▪			
48,30	1,60		1,87	▪	▪	▪		▪
48,30	2,00		2,32	▪	▪	▪	▪	▪
48,30	2,60		2,98	▪	▪	▪	▪	▪
48,30	3,20		3,61	▪	▪	▪	▪	▪
48,30	3,60		4,03	▪	▪			
48,30	4,00		4,44	▪	▪			
50,00	1,50		1,82	▪	▪	▪		
50,00	2,00		2,40	▪	▪	▪		
50,80	1,50		1,85			▪		
50,80	2,00		2,44	▪	▪	▪		
52,00	1,50		1,90	▪	▪	▪		
52,00	2,00		2,50	▪	▪	▪		
53,00	1,50		1,93	▪	▪	▪		
54,00	2,00		2,60	▪	▪	▪		▪
57,00	2,00		2,75	▪	▪			
57,00	3,00		4,07			▪		

* Finishes see page 115

Outside Ø mm	Wall thick-ness mm	ASME size	Theoret. weight kg/m	Grade 1.4301 AISI 304 *)	Grade 1.4307 AISI 304L *)	Grade 1.4404 AISI 316L *)	Grade 1.4541 AISI 321 *)	Grade 1.4571 AISI 316Ti *)
60,30	1,60		2,35			▪		▪
60,30	2,00		2,92	▪	▪	▪	▪	▪
60,30	2,60		3,76	▪	▪	▪	▪	▪
60,30	3,00		4,30	▪	▪	▪	▪	▪
60,30	3,20		4,58	▪	▪			▪
60,30	3,60		5,11	▪	▪	▪		▪
60,30	4,00		5,64					▪
63,50	1,50		2,33	▪	▪			
63,50	2,00		3,08	▪	▪			
70,00	1,50		2,57	▪	▪			
70,00	2,00		3,41	▪	▪			▪
70,00	2,90		4,87					
70,00	3,00		5,03					▪
73,00	1,50		2,69	▪	▪	▪		
76,10	1,60		2,98	▪	▪	▪		
76,10	2,00		3,71	▪	▪	▪	▪	▪
76,10	2,30		4,25			▪		▪
76,10	2,60		4,79	▪	▪	▪	▪	▪
76,10	3,00		5,49	▪	▪	▪		▪
76,10	3,20		5,84	▪	▪			▪
76,10	3,60		6,54	▪	▪	▪		▪
76,10	4,00		7,22					▪
80,00	1,50		2,95	▪	▪			
80,00	2,00		3,91	▪	▪			
84,00	2,00		4,11	▪	▪	▪		▪
85,00	1,50		3,14	▪	▪			
85,00	2,00		4,16	▪	▪			
88,90	2,00		4,35	▪	▪	▪	▪	▪
88,90	2,30		4,99			▪		▪
88,90	2,60		5,62	▪	▪	▪	▪	▪
88,90	2,90		6,24					▪
88,90	3,00		6,45	▪	▪	▪	▪	▪
88,90	3,20		6,87	▪	▪			▪
88,90	4,00		8,50					▪
101,60	2,00		4,99	▪	▪	▪	▪	▪
101,60	3,00		7,41	▪	▪	▪		
104,00	2,00		5,11	▪	▪	▪		▪
108,00	2,00		5,31	▪	▪	▪		

* Finishes see page 115

Outside Ø mm	Wall thick-ness mm	ASME size	Theoret. weight kg/m	Grade 1.4301 AISI 304 *)	Grade 1.4307 AISI 304L *)	Grade 1.4404 AISI 316L *)	Grade 1.4541 AISI 321 *)	Grade 1.4571 AISI 316Ti *)
108,00	3,00		7,89	▪	▪	▪		
108,00	4,00		10,42			▪		
114,30	1,50		4,24			▪		
114,30	2,00		5,62	▪	▪	▪	▪	▪
114,30	2,60		7,27	▪	▪	▪	▪	▪
114,30	3,00		8,36	▪	▪	▪	▪	▪
114,30	3,20		8,90	▪	▪			
114,30	3,60		9,98	▪	▪	▪	▪	▪
114,30	4,00		11,05					▪
129,00	2,00		6,36	▪	▪			▪
133,00	2,00		6,56	▪	▪			
133,00	3,00		9,77	▪	▪			▪
133,00	4,00		12,92	▪	▪			
139,70	2,00		6,90	▪	▪		▪	▪
139,70	2,60		8,93	▪	▪	▪	▪	▪
139,70	3,00		10,27	▪	▪		▪	▪
139,70	4,00		13,59				▪	▪
154,00	2,00		7,61	▪	▪			▪
159,00	2,00		7,86	▪	▪			▪
159,00	3,00		11,72	▪	▪		▪	▪
159,00	4,00		15,52			▪		
168,30	2,00		8,33	▪	▪	▪	▪	▪
168,30	2,60		10,79	▪	▪	▪	▪	▪
168,30	3,00		12,42	▪	▪		▪	▪
168,30	4,00		16,46				▪	▪
168,30	5,00		20,45				▪	▪
204,00	2,00		10,12	▪	▪			▪
205,00	2,50		12,68					▪
206,00	3,00		15,25	▪	▪			▪
219,10	2,00		10,87	▪	▪	▪	▪	▪
219,10	2,60		14,10				▪	▪
219,10	3,00		16,23	▪	▪	▪	▪	▪
219,10	4,00		21,54	▪	▪	▪	▪	▪
219,10	5,00		26,81				▪	▪
219,10	6,30		33,57					▪
254,00	2,00		12,62	▪	▪	▪		▪
255,00	2,50		15,81					▪
256,00	3,00		19,01	▪	▪	▪		

* Finishes see page 115

Corrosion pipes and tubes | round | welded | not heat-treated | stainless

Outside Ø mm	Wall thick-ness mm	ASME size	Theoret. weight kg/m	Grade 1.4301 AISI 304 *)	Grade 1.4307 AISI 304L *)	Grade 1.4404 AISI 316L *)	Grade 1.4541 AISI 321 *)	Grade 1.4571 AISI 316Ti *)
273,00	3,00		20,28	▪	▪		▪	▪
273,00	4,00		26,94				▪	▪
273,00	5,00		33,56					▪
273,00	6,00		40,11					▪
273,00	6,30		42,07					▪
304,00	2,00		15,12	▪	▪			▪
306,00	3,00		22,76			▪		▪
323,90	3,00		24,11	▪	▪		▪	▪
323,90	4,00		32,04				▪	▪
323,90	5,00		39,93					▪
323,90	6,30		50,01					▪
355,60	3,00		26,49	▪	▪			▪
355,60	4,00		35,22					▪
406,40	3,00		30,30	▪	▪	▪		▪
406,40	4,00		40,30				▪	▪
406,40	5,00		50,26					▪
508,00	3,00		37,94					▪
508,00	4,00		50,48	▪	▪			▪
609,60	4,00		60,66					▪

Corrosion tubes | round | welded | not heat-treated| highly corrosion resistant

Outside Ø mm	Wall thick-ness mm	ASME size	Theoret. weight kg/m	Grade 1.4539 AISI 904L *)
76,10	3,00		5,49	▪
168,30	3,00		12,42	▪
273,00	4,00		26,94	▪
323,90	4,00		32,04	▪
355,60	4,00		35,22	▪

* Finishes see page 115

Outside Ø mm	Wall thickness mm	Theoret. weight kg/m	Grade 1.4301 AISI 304 *)	Grade 1.4307 AISI 304L *)	Grade 1.4404 AISI 316L *)
18,00	1,50	0,62	▪	▪	▪
22,00	1,50	0,77	▪	▪	▪
28,00	1,00	0,68	▪	▪	
28,00	1,50	1,00	▪	▪	▪
34,00	1,00	0,83	▪	▪	
34,00	1,50	1,22	▪	▪	▪
40,00	1,00	0,98	▪	▪	▪
40,00	1,50	1,45	▪	▪	▪
52,00	1,00	1,28	▪	▪	
52,00	1,50	1,90	▪	▪	▪
70,00	2,00	3,41	▪	▪	▪
85,00	2,00	4,16	▪	▪	▪
104,00	2,00	5,11	▪	▪	▪
129,00	2,00	6,36	▪	▪	▪
154,00	2,00	7,61	▪	▪	▪

* Finishes see page 115

Outside Ø mm	Wall thick-ness mm	ASME size	Theoret. weight kg/m	Grade 1.4301 AISI 304 *)	Grade 1.4307 AISI 304L *)	Grade 1.4404 AISI 316L *)	Grade 1.4541 AISI 321 *)	Grade 1.4571 AISI 316Ti *)
6,00	1,00		0,13				▪	▪
8,00	1,00		0,18	▪	▪		▪	▪
10,00	1,00		0,23	▪	▪		▪	▪
10,00	1,50		0,32	▪	▪			
12,00	1,00		0,28	▪	▪		▪	▪
12,00	1,50		0,39	▪	▪		▪	▪
14,00	1,00		0,33	▪	▪			▪
14,00	1,50		0,47	▪	▪		▪	▪
14,00	2,00		0,60					▪
15,00	1,00		0,35	▪	▪			▪
15,00	1,50		0,51	▪	▪		▪	▪
15,00	2,00		0,65					▪
16,00	1,00		0,38	▪	▪			▪
16,00	1,50		0,54				▪	▪
16,00	2,00		0,70	▪	▪			
17,20	1,60		0,62			▪		
17,20	2,00		0,76					▪
17,20	2,30		0,86					▪
18,00	1,00		0,43	▪	▪		▪	▪
18,00	1,50		0,62				▪	▪
18,00	2,00		0,80	▪	▪			▪
20,00	1,00		0,48	▪	▪			▪
20,00	1,50		0,69	▪	▪			▪
20,00	2,00		0,90	▪	▪		▪	▪
21,30	1,60		0,79			▪		▪
21,30	2,00		0,97	▪	▪	▪	▪	▪
21,30	2,11	1/2“ SCH 10S	1,02	▪	▪			
21,30	2,60		1,22	▪	▪			▪
21,30	2,77	1/2“ SCH 40S	1,29	▪	▪			
22,00	1,00		0,53	▪	▪			
25,00	1,00		0,60	▪	▪			▪
25,00	1,50		0,88					▪
25,00	2,00		1,15	▪	▪	▪	▪	▪
26,70	2,11	3/4“ SCH 10S	1,30	▪	▪			
26,70	2,87	3/4“ SCH 40S	1,71	▪	▪			
26,90	1,60		1,01					▪
26,90	2,00		1,25	▪	▪	▪	▪	▪
26,90	2,60		1,58	▪	▪		▪	▪
28,00	1,50		1,00	▪	▪			
28,00	2,00		1,30	▪	▪			▪

* Finishes see page 115

Outside Ø mm	Wall thick-ness mm	ASME size	Theoret. weight kg/m	Grade 1.4301 AISI 304 *)	Grade 1.4307 AISI 304L *)	Grade 1.4404 AISI 316L *)	Grade 1.4541 AISI 321 *)	Grade 1.4571 AISI 316Ti *)
30,00	2,00		1,40	▪	▪			
33,40	2,77	1“ SCH 10S	2,12	▪	▪			
33,40	3,38	1“ SCH 40S	2,54	▪	▪			
33,70	2,00		1,59	▪	▪	▪	▪	▪
33,70	2,60		2,02	▪	▪		▪	▪
33,70	3,20		2,44	▪	▪		▪	▪
35,00	1,50		1,26	▪	▪			▪
38,00	1,50		1,37	▪	▪		▪	
38,00	2,00		1,80	▪	▪			
40,00	1,50		1,45	▪	▪			▪
40,00	2,00		1,90	▪	▪			▪
42,20	2,77	1 1/4“ SCH 10S	2,73	▪	▪			
42,20	3,56	1 1/4“ SCH 40S	3,44	▪	▪			
42,40	1,60		1,63					▪
42,40	2,00		2,02	▪	▪	▪	▪	▪
42,40	2,60		2,59	▪	▪		▪	▪
42,40	3,20		3,14	▪	▪		▪	▪
44,50	2,00		2,13	▪	▪			▪
48,30	2,00		2,32	▪	▪	▪	▪	▪
48,30	2,60		2,98	▪	▪	▪	▪	▪
48,30	2,77	1 1/4“ SCH 10S	3,16	▪	▪			
48,30	3,20		3,61	▪	▪		▪	▪
48,30	3,60		4,03				▪	▪
50,00	2,00		2,40	▪	▪			▪
52,00	1,50		1,90					▪
53,00	1,50		1,93	▪	▪			
54,00	2,00		2,60	▪	▪		▪	▪
60,30	2,00		2,92	▪	▪	▪	▪	▪
60,30	2,60		3,76	▪	▪		▪	▪
60,30	2,77	2“ SCH 10S	3,99	▪	▪			
60,30	3,00		4,30	▪	▪		▪	▪
60,30	3,60		5,11				▪	▪
60,30	3,91	2“ SCH 40S	5,52	▪	▪			
76,10	1,60		2,98					▪
76,10	2,00		3,71	▪	▪		▪	▪
76,10	2,30		4,25			▪	▪	▪
76,10	2,60		4,79	▪	▪		▪	
76,10	3,00		5,49				▪	▪
76,10	3,60		6,54				▪	

* Finishes see page 115

Outside Ø mm	Wall thick-ness mm	ASME size	Theoret. weight kg/m	Grade 1.4301 AISI 304 *)	Grade 1.4307 AISI 304L *)	Grade 1.4404 AISI 316L *)	Grade 1.4541 AISI 321 *)	Grade 1.4571 AISI 316Ti *)
88,90	2,00		4,35	▪	▪		▪	▪
88,90	2,30		4,99			▪	▪	▪
88,90	2,60		5,62	▪	▪	▪	▪	
88,90	3,00		6,45			▪	▪	▪
88,90	3,05	3“ SCH 10S	6,56	▪	▪			
88,90	3,20		6,87	▪	▪		▪	▪
88,90	4,00		8,50				▪	▪
88,90	5,49	3“ SCH 40S	11,47	▪	▪			
101,60	2,00		4,99	▪	▪			
108,00	3,00		7,89					▪
114,30	2,00		5,62	▪	▪		▪	▪
114,30	2,60		7,27	▪	▪	▪	▪	▪
114,30	3,00		8,36			▪	▪	▪
114,30	3,05	4“ SCH 10S	8,50	▪	▪			
114,30	3,60		9,98			▪		▪
114,30	4,00		11,05				▪	▪
114,30	6,02	4“ SCH 40S	16,32	▪	▪			
168,30	3,40	6“ SCH 10S	14,04	▪	▪			
168,30	7,11	6“ SCH 40S	28,70	▪	▪			
219,10	3,76	8“ SCH 10S	20,27	▪	▪			
219,10	8,18	8“ SCH 40S	43,20	▪	▪			
323,90	4,57	12“ SCH 10S	36,54			▪		

* Finishes see page 115

HOLLOW BARS

seamless | round

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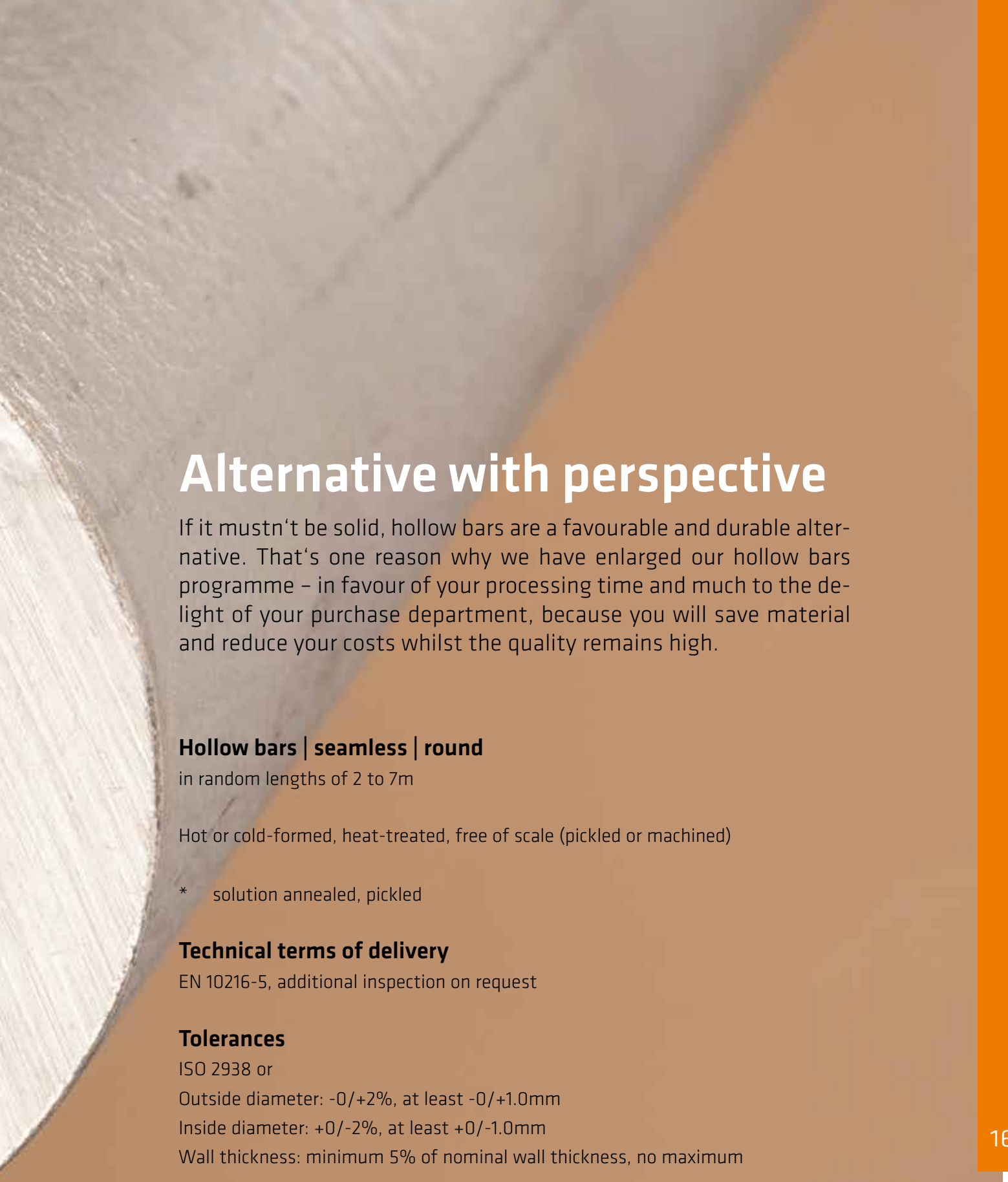

Alternative with perspective

If it mustn‘t be solid, hollow bars are a favourable and durable alternative. That‘s one reason why we have enlarged our hollow bars programme – in favour of your processing time and much to the delight of your purchase department, because you will save material and reduce your costs whilst the quality remains high.

Hollow bars | seamless | round
in random lengths of 2 to 7m

Hot or cold-formed, heat-treated, free of scale (pickled or machined)

* solution annealed, pickled

Technical terms of delivery
EN 10216-5, additional inspection on request

Tolerances
ISO 2938 or
Outside diameter: -0/+2%, at least -0/+1.0mm
Inside diameter: +0/-2%, at least +0/-1.0mm
Wall thickness: minimum 5% of nominal wall thickness, no maximum

Test certificates
EN 10204 3.1/3.2 acc. to agreement

* Classification see page 142 - 148

Nominal-Ø mm		Theoret. weight	Grade 1.4301	Grade 1.4306	Grade 1.4307	Grade 1.4401	Grade 1.4404	Grade 1.4541	Grade 1.4571
outside	inside	kg/m	AISI 304 *)	AISI 304L *)	AISI 304L *)	AISI 316 *)	AISI 316L *)	AISI 321 *)	AISI 316Ti *)
32	16	4,81	▪	▪	▪	▪	▪		▪
32	20	3,91	▪	▪	▪	▪	▪	▪	▪
36	16	6,51	▪	▪	▪	▪	▪		▪
36	20	5,61	▪	▪	▪	▪	▪	▪	▪
36	25	4,20	▪	▪	▪				▪
40	20	7,51	▪	▪	▪	▪	▪	▪	▪
40	25	6,10	▪	▪	▪	▪	▪		▪
40	28	5,11	▪	▪	▪	▪	▪	▪	▪
45	20	10,17	▪	▪	▪	▪	▪	▪	▪
45	25	8,76	▪	▪	▪				
45	28	7,77	▪	▪	▪	▪	▪	▪	▪
45	32	6,27	▪	▪	▪	▪	▪	▪	▪
50	25	11,74	▪	▪	▪	▪	▪		▪
50	28	10,74	▪	▪	▪				
50	32	9,24	▪	▪	▪	▪	▪	▪	▪
50	36	7,54	▪	▪	▪	▪	▪	▪	▪
50	40	5,63	▪	▪	▪				▪
56	20	17,13	▪	▪	▪				
56	25	15,72	▪	▪	▪				
56	28	14,72	▪	▪	▪	▪	▪	▪	▪
56	30	14,00	▪	▪	▪				
56	36	11,52	▪	▪	▪	▪	▪	▪	▪
56	40	9,62	▪	▪	▪	▪	▪	▪	▪
56	45	6,95							▪
60	40	12,52	▪	▪	▪			▪	
60	45	9,86	▪	▪	▪				▪
63	32	18,44	▪	▪	▪	▪	▪	▪	▪
63	36	16,73	▪	▪	▪	▪	▪		▪
63	40	14,83	▪	▪	▪	▪	▪	▪	▪
63	45	12,17	▪	▪	▪	▪	▪		▪
63	50	9,20	▪	▪	▪	▪	▪	▪	▪
70	50	15,02	▪	▪	▪				
71	36	23,44	▪	▪	▪	▪	▪	▪	▪
71	40	21,54	▪	▪	▪	▪	▪		▪
71	45	18,88	▪	▪	▪	▪	▪	▪	▪
71	56	11,93	▪	▪	▪	▪	▪	▪	▪
75	40	25,20	▪	▪	▪	▪	▪		▪
75	50	19,56	▪	▪	▪				
75	56	15,58	▪	▪	▪				▪

* Finishes see page 141

Nominal-Ø mm		Theoret. weight	Grade 1.4301	Grade 1.4306	Grade 1.4307	Grade 1.4401	Grade 1.4404	Grade 1.4541	Grade 1.4571
outside	inside	kg/m	AISI 304 *)	AISI 304L *)	AISI 304L *)	AISI 316 *)	AISI 316L *)	AISI 321 *)	AISI 316Ti *)
75	60	12,68	▪	▪	▪	▪	▪		▪
80	40	30,05	▪	▪	▪	▪	▪	▪	▪
80	45	27,39	▪	▪	▪	▪	▪		
80	50	24,41	▪	▪	▪	▪	▪	▪	▪
80	63	15,22	▪	▪	▪	▪	▪	▪	▪
85	45	32,55	▪	▪	▪	▪	▪	▪	▪
90	50	35,06	▪	▪	▪	▪	▪	▪	▪
90	56	31,07	▪	▪	▪	▪	▪	▪	▪
90	63	25,86	▪	▪	▪	▪	▪	▪	▪
90	68	21,76							▪
90	71	19,15	▪	▪	▪	▪	▪	▪	▪
95	50	40,85	▪	▪	▪	▪	▪		▪
100	56	42,97	▪	▪	▪	▪	▪	▪	▪
100	63	37,75	▪	▪	▪	▪	▪	▪	▪
100	71	31,04	▪	▪	▪	▪	▪	▪	▪
100	80	22,54	▪	▪	▪	▪	▪	▪	▪
106	56	50,71	▪	▪	▪	▪	▪	▪	▪
106	63	45,49	▪	▪	▪	▪	▪		▪
106	71	38,78	▪	▪	▪	▪	▪	▪	▪
106	80	30,27	▪	▪	▪	▪	▪	▪	▪
106	85	25,11							▪
106	90	19,63	▪	▪	▪				
112	63	53,68	▪	▪	▪	▪	▪		▪
112	71	46,97	▪	▪	▪	▪	▪	▪	▪
112	80	38,46	▪	▪	▪	▪	▪	▪	▪
112	90	27,82	▪	▪	▪	▪	▪	▪	▪
112	95	22,03							▪
118	63	62,32	▪	▪	▪	▪	▪	▪	▪
118	71	55,61	▪	▪	▪	▪	▪		▪
118	80	47,10	▪	▪	▪	▪	▪		▪
118	90	36,46	▪	▪	▪	▪	▪	▪	▪
125	71	66,26	▪	▪	▪	▪	▪	▪	▪
125	80	57,75	▪	▪	▪	▪	▪		▪
125	90	47,11	▪	▪	▪	▪	▪	▪	▪
125	100	35,21	▪	▪	▪	▪	▪	▪	▪
132	71	77,52	▪	▪	▪	▪	▪	▪	▪
132	80	69,01	▪	▪	▪	▪	▪	▪	▪
132	90	58,37	▪	▪	▪	▪	▪	▪	▪
132	106	38,74	▪	▪	▪	▪	▪	▪	▪

* Finishes see page 141

Nominal-Ø mm		Theoret. weight	Grade 1.4301	Grade 1.4306	Grade 1.4307	Grade 1.4401	Grade 1.4404	Grade 1.4541	Grade 1.4571
outside	inside	kg/m	AISI 304 *)	AISI 304L *)	AISI 304L *)	AISI 316 *)	AISI 316L *)	AISI 321 *)	AISI 316Ti *)
140	80	82,63	▪	▪	▪	▪	▪	▪	▪
140	90	71,99	▪	▪	▪	▪	▪		▪
140	100	60,10	▪	▪	▪	▪	▪	▪	▪
140	106	52,36	▪	▪	▪				
140	112	44,17	▪	▪	▪	▪	▪	▪	▪
150	80	100,79	▪	▪	▪	▪	▪	▪	▪
150	95	84,35	▪	▪	▪	▪	▪		▪
150	106	70,51	▪	▪	▪	▪	▪	▪	▪
150	112	62,32	▪	▪	▪	▪	▪		▪
150	125	43,04	▪	▪	▪	▪	▪	▪	▪
150	132	31,78							▪
160	90	109,96	▪	▪	▪				
160	112	81,73	▪	▪	▪	▪	▪	▪	▪
160	120	70,11	▪	▪	▪	▪	▪	▪	▪
160	132	51,18	▪	▪	▪	▪	▪	▪	▪
170	106	110,58	▪	▪	▪	▪	▪	▪	▪
170	118	93,75	▪	▪	▪	▪	▪	▪	▪
170	130	75,12	▪	▪	▪	▪	▪	▪	▪
170	140	58,22	▪	▪	▪	▪	▪	▪	▪
175	145	60,10							▪
180	125	105,01	▪	▪	▪	▪	▪	▪	▪
180	130	97,03	▪	▪	▪				▪
180	140	80,13	▪	▪	▪	▪	▪		▪
180	150	61,97	▪	▪	▪	▪	▪	▪	▪
190	106	155,65	▪	▪	▪	▪	▪		▪
190	123	131,28	▪	▪	▪	▪	▪	▪	▪
190	132	116,91	▪	▪	▪	▪	▪		▪
190	140	103,29	▪	▪	▪	▪	▪	▪	▪
190	150	85,14	▪	▪	▪	▪	▪		▪
190	160	65,73	▪	▪	▪	▪	▪	▪	▪
200	106	180,06	▪	▪	▪				
200	140	127,70	▪	▪	▪	▪	▪	▪	▪
200	150	109,55	▪	▪	▪				▪
200	160	90,14	▪	▪	▪	▪	▪	▪	▪
200	170	69,49	▪	▪	▪	▪	▪		
212	130	175,56	▪	▪	▪	▪	▪	▪	▪
212	150	140,50	▪	▪	▪	▪	▪	▪	▪
212	170	100,44	▪	▪	▪	▪	▪		▪
212	180	78,53	▪	▪	▪				

* Finishes see page 141

Nominal-Ø mm		Theoret. weight	Grade 1.4301	Grade 1.4306	Grade 1.4307	Grade 1.4401	Grade 1.4404	Grade 1.4541	Grade 1.4571
outside	inside	kg/m	AISI 304 *)	AISI 304L *)	AISI 304L *)	AISI 316 *)	AISI 316L *)	AISI 321 *)	AISI 316Ti *)
224	140	191,41	▪	▪	▪	▪	▪	▪	▪
224	160	153,85	▪	▪	▪	▪	▪		▪
224	170	133,19	▪	▪	▪				▪
224	180	111,28	▪	▪	▪	▪	▪	▪	▪
236	150	207,81	▪	▪	▪	▪	▪	▪	▪
236	190	122,67	▪	▪	▪	▪	▪	▪	▪
240	170	179,66	▪	▪	▪	▪	▪		▪
250	200	140,85	▪	▪	▪	▪	▪	▪	▪
275	200	223,01				▪	▪		
300	200	313,00	▪		▪	▪	▪		
340	200	473,26	▪		▪	▪	▪		
380	230	572,79	▪		▪	▪	▪		
400	300	438,20	▪		▪	▪	▪		
420	300	540,86	▪		▪	▪	▪		

* Finishes see page 141

Nominal-Ø mm		Theoret. weight	Grade 1.4878
outside	inside	kg/m	AISI 321H *)
32	20	3,91	▪
36	20	5,61	▪
40	20	7,51	▪
40	28	5,11	▪
45	20	10,17	▪
45	28	7,77	▪
45	32	6,27	▪
50	32	9,24	▪
50	36	7,54	▪
56	28	14,72	▪
56	36	11,52	▪
56	40	9,62	▪
60	40	12,52	▪
63	32	18,44	▪
63	40	14,83	▪
63	50	9,20	▪
71	36	23,44	▪
71	45	18,88	▪
71	56	11,93	▪
80	40	30,05	▪
80	50	24,41	▪
80	63	15,22	▪
85	45	32,55	▪
90	50	35,06	▪
90	56	31,07	▪
90	63	25,86	▪
90	71	19,15	▪
100	56	42,97	▪
100	63	37,75	▪
100	71	31,04	▪
100	80	22,54	▪
106	56	50,71	▪
106	71	38,78	▪
106	80	30,27	▪
112	71	46,97	▪
112	80	38,46	▪
112	90	27,82	▪
118	63	62,32	▪
118	90	36,46	▪

* Finishes see page 141

Nominal-Ø mm		Theoret. weight	Grade 1.4878
outside	inside	kg/m	AISI 321H *)
125	71	66,26	▪
125	90	47,11	▪
125	100	35,21	▪
132	71	77,52	▪
132	80	69,01	▪
132	90	58,37	▪
132	106	38,74	▪
140	80	82,63	▪
140	100	60,10	▪
140	112	44,17	▪
150	80	100,79	▪
150	106	70,51	▪
150	125	43,04	▪
160	112	81,73	▪
160	120	70,11	▪
160	132	51,18	▪
170	106	110,58	▪
170	118	93,75	▪
170	130	75,12	▪
170	140	58,22	▪
180	125	105,01	▪
180	130	97,03	▪
190	123	131,28	▪
190	140	103,29	▪
190	160	65,73	▪
200	140	127,70	▪
200	160	90,14	▪
212	130	175,56	▪
212	150	140,50	▪
224	140	191,41	▪
224	180	111,28	▪
236	150	207,81	▪
236	190	122,67	▪
250	200	140,85	▪

* Finishes see page 141

Nominal-Ø mm		Theoret. weight	Grade 1.4462 UNS S31803 *) Duplex
outside	inside	kg/m	
50	25	11,74	▪
56	28	14,72	▪
63	32	18,44	▪
63	40	14,83	▪
71	36	23,44	▪
71	45	18,88	▪
71	56	11,93	▪
80	40	30,05	▪
80	50	24,41	▪
90	56	31,07	▪
90	63	25,86	▪
100	56	42,97	▪
100	71	31,04	▪
106	71	38,78	▪
106	80	30,27	▪
112	90	27,82	▪
118	80	47,10	▪
125	90	47,11	▪
125	100	35,21	▪
132	90	58,37	▪
140	100	60,10	▪
140	112	44,17	▪
150	106	70,51	▪
160	112	81,73	▪
170	118	93,75	▪
170	130	75,12	▪
170	140	58,22	▪
180	125	105,01	▪
180	140	80,13	▪
190	160	65,73	▪
200	160	90,14	▪
212	130	175,56	▪
212	170	100,44	▪
236	190	122,67	▪
250	200	140,85	▪

* Finishes see page 141


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FLANGES

Always well connected

Thanks to flanges and collars, tube connections become perfect – and so is our offer for you. And this is the reason why we always have the complete range of fittings available. You have special wishes beyond? Then just call us – and your wishes will be fulfilled.

Fittings | flanges

* solution annealed, pickled or metal bright

Technical terms of delivery

DIN EN 10222-5, VdTÜV sheet 418 and 421 also in connection with AD-2000 leaflet W 2/W 9/W 1

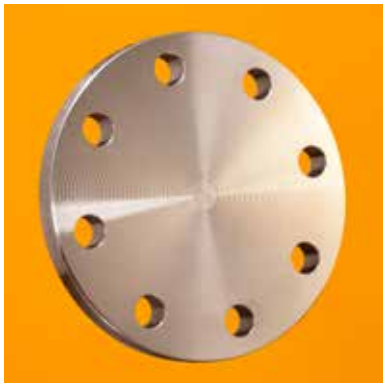
Tolerances

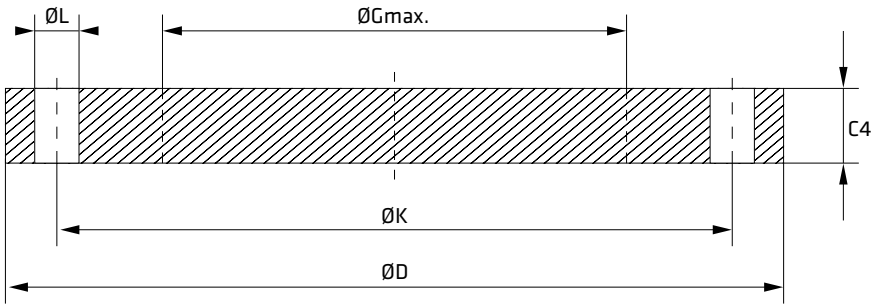
DIN EN 1092-1 and DIN 2527, 2566, 2576, 2632, 2633, 2635, 2642

Test certificates

DIN EN 10204 3.1, for welding collars only for base material (sheet or strip),
DIN EN 10204 3.1 for the base material and the final product

* Classification see page 152 - 169



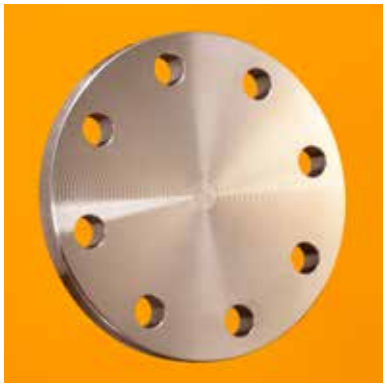


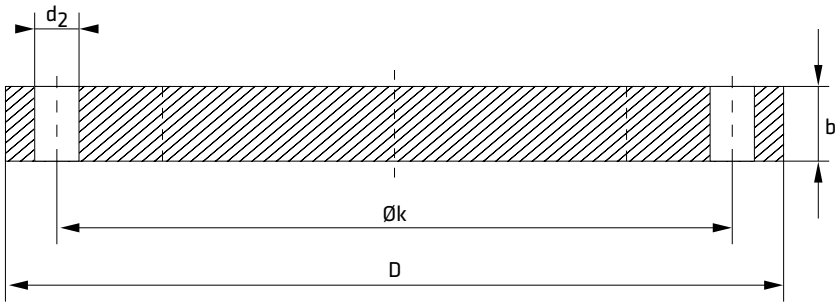
Nominal pressure/ diameter DN	PN	C4 mm	ØD mm	ØK mm	ØL mm	ØG max. mm	Number of drill holes	The-oret. weight kg/pce.	Grade 1.4541 AISI 321 *)	Grade 1.4571 AISI 316Ti *)
15	40	16	95	65	14		4	0,81	▪	▪
20	40	18	105	75	14		4	1,14	▪	▪
25	40	18	115	85	14		4	1,38	▪	▪
40	40	18	150	110	18		4	2,35	▪	
50	16	18	165	125	18		4	2,88	▪	▪
65	16	18	185	145	18	55	4	3,51	▪	▪
65	16	18	185	145	18	55	8	3,51	▪	▪
80	16	20	200	160	18	70	8	4,61	▪	▪
100	16	20	220	180	18	90	8	5,65	▪	▪
125	16	22	250	210	18	115	8	8,13	▪	▪
150	16	22	285	240	22	140	8	10,50	▪	▪
200	10	24	340	295	22	190	8	16,50	▪	▪
200	16	24	340	295	22	190	12	16,20	▪	▪
250	10	26	395	350	22	235	12	24,10	▪	▪
300	10	26	445	400	22	285	12	30,80	▪	▪

* Also available according to DIN

Nominal pressure/ diameter		C4	ØD	ØK	ØL	ØG max.	Number of drill holes	The-oret. weight	Grade 1.4462 UNS S31803 *)	Grade 1.4539 AISI 904L *)
DN	PN	mm	mm	mm	mm	mm		kg/pce.		
15	40	16	95	65	14		4	0,81	▪	▪
20	40	18	105	75	14		4	1,14	▪	▪
25	40	18	115	85	14		4	1,38	▪	▪
32	40	18	140	100	18		4	2,03	▪	▪
40	40	18	150	110	18		4	2,35	▪	▪
50	16	18	165	125	18		4	2,88	▪	▪
65	16	18	185	145	18	55	8	3,51	▪	▪
80	16	20	200	160	18	70	8	4,61	▪	▪
100	16	20	220	180	18	90	8	5,65	▪	▪
125	16	22	250	210	18	115	8	8,13	▪	▪
150	16	22	285	240	22	140	8	10,50	▪	▪
200	16	24	340	295	22	190	12	16,20	▪	▪

Blind flanges | DIN 2527 Form B | stainless

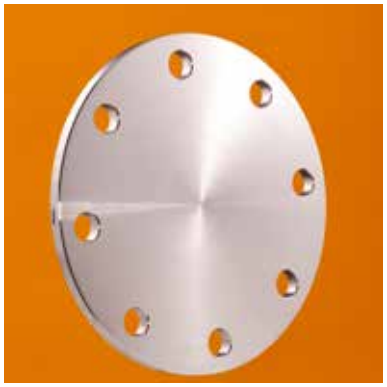


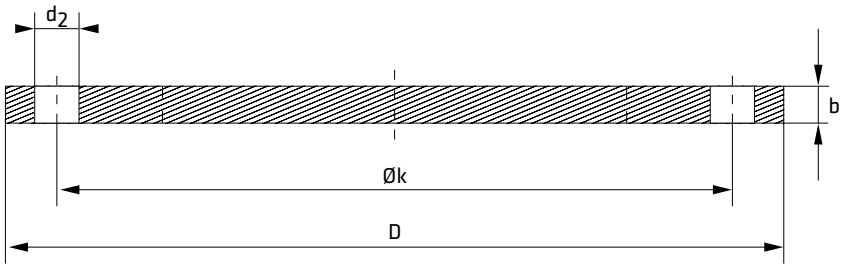


Nominal pressure/ diameter DN	PN	b mm	D mm	Øk mm	d_2 mm	Number of drill holes	Theoret. weight kg/pce.	Grade 1.4571 AISI 316Ti *)
10	16	14	90	60	14	4	0,63	▪
15	16	14	95	65	14	4	0,72	▪
20	16	16	105	75	14	4	1,01	▪
25	16	16	115	85	14	4	1,23	▪
32	16	16	140	100	18	4	1,80	▪
40	16	16	150	110	18	4	2,09	▪

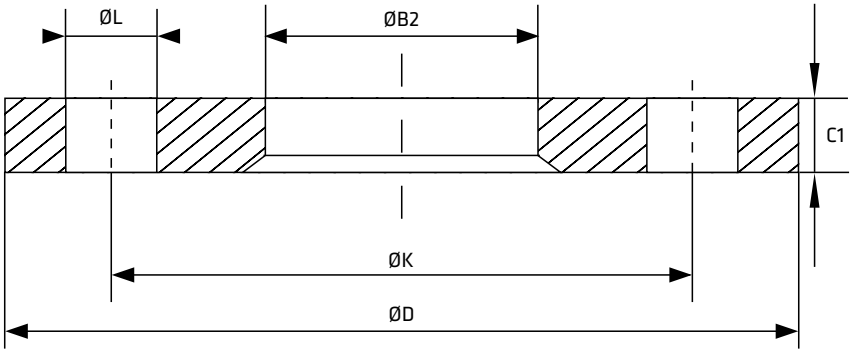
Blind flanges | DIN 2527 Form B | highly corrosion resistant

Nominal pressure/ diameter DN	PN	b mm	D mm	Øk mm	d_2 mm	Number of drill holes	Theoret. weight kg/pce.	Grade 1.4462 UNS S31803 *) Duplex	Grade 1.4539 AISI 904L *)
15	16	14	95	65	14	4	0,72	▪	▪
20	16	16	105	75	14	4	1,01	▪	▪
25	16	16	115	85	14	4	1,23	▪	▪
32	16	16	140	100	18	4	1,80	▪	▪
40	16	16	150	110	18	4	2,09	▪	▪



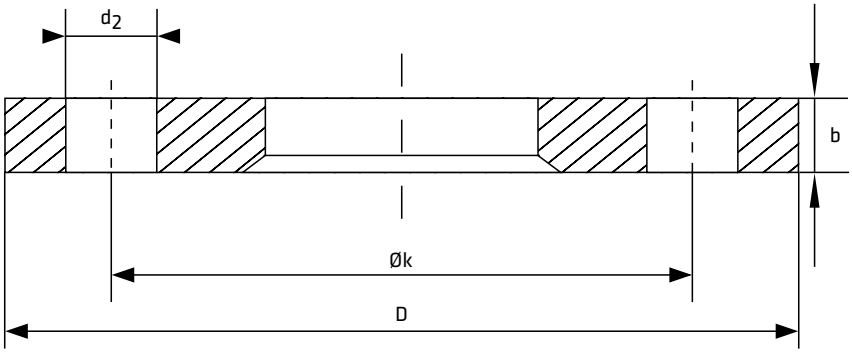


Nominal pressure/ diameter DN	PN	b mm	D mm	Øk mm	d_2 mm	Number of drill holes	Theoret. weight kg/pce.	Grade 1.4301 AISI 304 *)	Grade 1.4571 AISI 316Ti *)
100	16	10	220	180	18	8	2,83	▪	▪
125	16	12	250	210	18	8	4,60	▪	▪
150	16	12	285	240	22	8	4,68	▪	▪
200	10	12	340	295	22	8	8,25		▪
200	10	15	340	295	22	8	10,31	▪	
250	10	15	405	355	26	12	14,40	▪	▪
300	10	15	460	470	26	12	18,80	▪	▪
350	10	15	505	460	22	16	24,17		▪
400	10	15	565	515	26	16	28,50		▪
500	10	20	670	620	26	20	53,57		▪

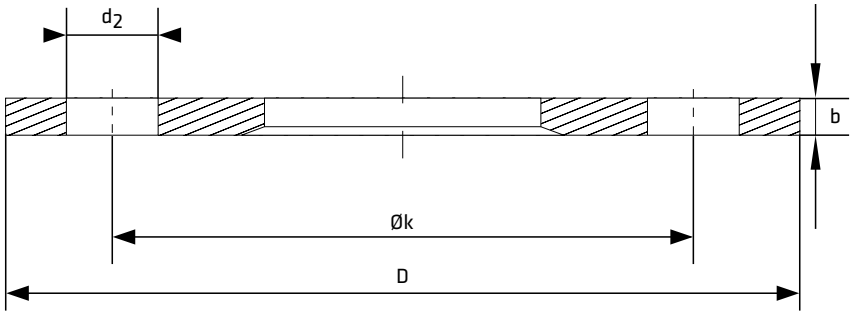


Nominal pressure/ diameter DN	PN	Pipe size mm	C1 mm	ØD mm	ØK mm	ØL mm	ØB2 mm	Number of drill holes	Theoret. weight kg/pce.	Grade 1.4301 AISI 304 *)	Grade 1.4541 AISI 321 *)	Grade 1.4571 AISI 316Ti *)
10	40	17,2	14	90	60	14	21	4	0,59			▪
15	40	21,3	14	95	65	14	25	4	0,65	▪	▪	▪
20	40	26,9	16	105	75	14	31	4	0,90	▪	▪	▪
25	40	33,7	16	114	85	14	38	4	1,08	▪	▪	▪
32	40	42,4	18	140	100	18	47	4	1,77	▪	▪	▪
40	40	48,3	18	150	110	18	53	4	2,02	▪	▪	▪
50	16	60,3	20	165	125	18	65	4	2,65	▪	▪	▪
65	16	76,1	22	185	145	18	81	4	3,05	▪	▪	▪
65	16	76,1	20	185	145	18	81	8	2,95		▪	▪
80	16	88,9	20	200	160	18	94	8	3,48	▪	▪	▪
100	16	114,3	22	220	180	18	120	8	4,20	▪	▪	▪
125	16	139,7	22	250	210	18	145	8	5,21	▪	▪	▪
150	16	168,3	24	285	240	22	174	8	6,89	▪	▪	▪
200	10	219,1	24	340	295	22	226	8	9,31	▪	▪	▪
250	10	273,0	26	395	350	22	281	12	13,50	▪	▪	▪
250	16	273,0	29	405	355	26	281	12	13,50			▪
300	10	323,9	26	445	400	22	333	12	18,00	▪	▪	▪
350	10	355,6	30	505	460	22	365	16	19,40			▪
400	10	406,4	32	565	515	26	416	16	26,40	▪	▪	▪
500	10	508,0	38	670	620	26	519	20	38,50	▪	▪	

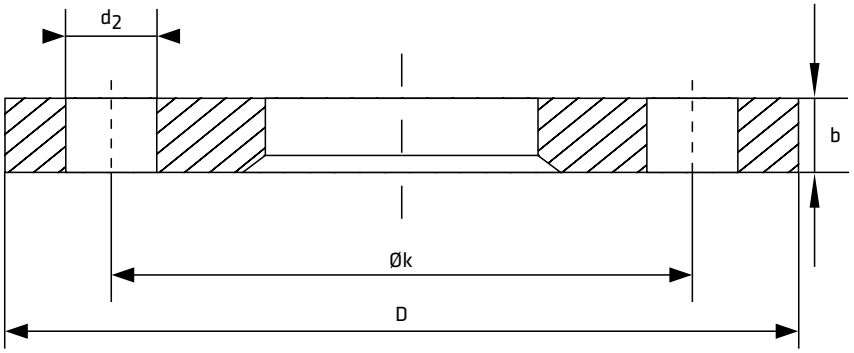
* Auch nach DIN lieferbar



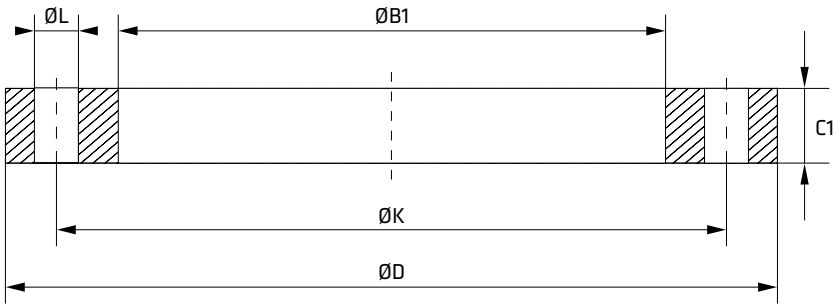
Nominal pressure/ diameter		Pipe size	b	D	Øk	d_2	Number of drill holes	Theoret. weight	Grade 1.4541 AISI 321 *)	Grade 1.4571 AISI 316Ti *)
DN	PN	mm	mm	mm	mm	mm		kg/pce.		
10	10	17,2	14	90	60	14	4	0,60	▪	▪
15	10	21,3	14	95	65	14	4	0,69	▪	▪
20	10	26,9	14	105	75	14	4	0,80	▪	▪
25	10	33,7	16	115	85	14	4	1,11	▪	▪
32	10	42,4	16	140	100	18	4	1,64	▪	▪
40	10	48,3	16	150	110	18	4	1,86	▪	▪
50	10	60,3	16	165	125	18	4	2,20	▪	▪
65	10	76,1	16	185	145	18	4	2,62	▪	▪
80	10	88,9	18	200	160	18	8	3,32	▪	▪
100	10	114,3	18	220	180	18	8	3,67	▪	▪
125	10	139,7	18	250	210	18	8	4,54	▪	▪
150	10	168,3	18	285	240	22	8	5,60	▪	▪
200	10	219,1	20	340	295	22	8	7,46	▪	▪
250	10	273,0	22	395	350	22	12	10,30	▪	▪



Nominal pressure/ diameter DN	PN	Pipe size mm	b mm	D mm	Øk mm	d_2 mm	Number of drill holes	Theoret. weight kg/pce.	Grade 1.4301 AISI 304 *)	Grade 1.4571 AISI 316Ti *)
50	10	60,3	10	165	125	18	4	1,42	▪	▪
65	10	76,1	10	185	145	18	4	1,74	▪	▪
80	10	88,9	10	200	160	18	8	1,95	▪	▪
100	10	114,3	10	220	180	18	8	2,15	▪	▪
125	10	139,7	12	250	210	18	8	3,05	▪	▪
150	10	168,3	12	285	240	22	8	3,94	▪	▪
200	10	219,1	12	340	295	22	8	4,48	▪	▪
250	10	273,0	15	395	350	22	12	6,95	▪	▪
300	10	323,9	15	445	400	22	12	9,19	▪	▪
350	10	355,6	15	505	460	22	16	11,24	▪	▪
400	10	406,4	15	565	515	26	16	11,70	▪	▪
500	10	508,0	20	670	620	26	20	22,00	▪	▪

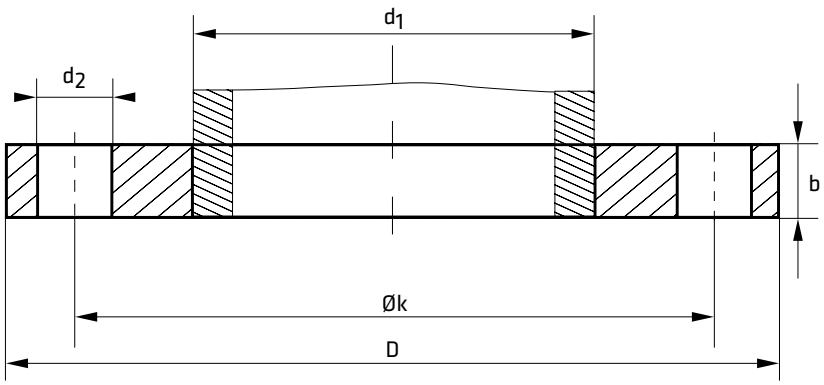


Nominal pressure/ diameter DN	PN	Pipe size mm	b mm	D mm	Øk mm	d_2 mm	Number of drill holes	Theoret. weight kg/pce.	Aluminium bright metal GK AL SU 12 CU	Aluminium coated RAL 7001
10	10	17,2	12	90	60	14	4	0,21	▪	▪
15	10	21,3	12	95	65	14	4	0,24	▪	▪
20	10	26,9	12	105	75	14	4	0,28	▪	▪
25	10	33,7	12	115	85	14	4	0,38	▪	▪
32	10	42,4	16	140	100	18	4	0,56	▪	▪
40	10	48,3	16	150	110	18	4	0,64	▪	▪
50	10	54,0	16	165	125	18	4	0,75	▪	▪
50	10	60,3	16	165	125	18	4	0,75	▪	▪
65	10	76,1	16	185	145	18	4	0,90	▪	▪
80	10	84,0	18	200	160	18	8	1,10	▪	▪
80	10	88,9	18	200	160	18	8	1,10	▪	▪
100	10	104,0	18	220	180	18	8	1,23	▪	▪
100	10	114,3	18	220	180	18	8	1,23	▪	▪
125	10	129,0	18	250	210	18	8	1,55	▪	▪
125	10	139,7	18	250	210	18	8	1,55	▪	▪
150	10	154,0	18	285	240	22	8	1,88	▪	▪
150	10	168,3	18	285	240	22	8	1,88	▪	▪
200	10	204,0	20	340	295	22	8	2,70	▪	▪
200	10	219,1	20	340	295	22	8	2,70	▪	▪
250	10	254,0	22	395	350	22	12	3,65	▪	▪
250	10	273,0	22	395	350	22	12	3,65	▪	▪
300	10	304,0	22	445	400	22	12	4,30	▪	▪
300	10	323,9	22	445	400	22	12	4,30	▪	▪
350	10	355,6	22	505	460	22	16	5,20	▪	▪
400	10	406,4	25	565	515	26	16	7,17	▪	▪
500	10	508,0	28	670	620	26	20	9,70	▪	▪
600	10	610,0	30	780	725	30	20	14,00		▪

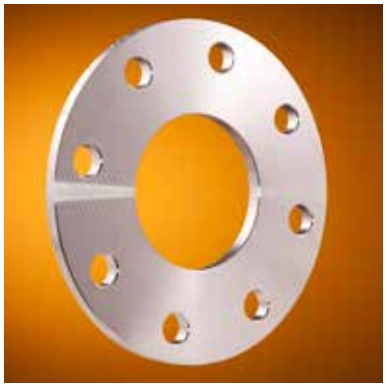


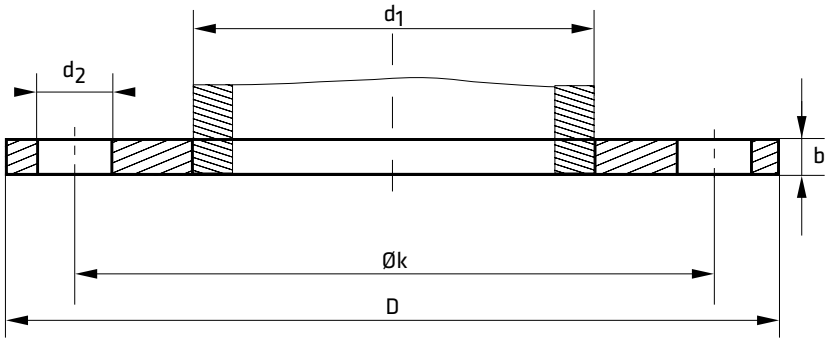
Nominal pressure/ diameter DN	PN	Pipe size mm	C1 mm	ØD mm	ØK mm	ØL mm	ØB1 mm	Number of drill holes	Theoret. weight kg/pce.	Grade 1.4301 AISI 304 *)	Grade 1.4541 AISI 321 *)	Grade 1.4571 AISI 316Ti *)
15	40	21,3	14	95	65	14	22,0	4	0,67	▪		▪
20	40	26,9	16	105	75	14	27,5	4	0,94	▪		▪
25	40	33,7	16	115	85	14	34,5	4	1,11	▪		▪
32	40	42,4	18	140	100	18	43,5	4	1,82	▪		▪
40	40	48,3	18	150	110	18	49,5	4	2,08	▪		▪
50	16	60,3	20	165	125	18	61,5	4	2,73	▪		▪
65	16	76,1	20	185	145	18	77,5	4	3,16	▪		▪
65	16	76,1	20	185	145	18	77,5	8	3,16			▪
80	16	88,9	20	200	160	18	90,5	8	3,60	▪	▪	▪
100	16	114,3	22	220	180	18	116,0	8	4,39	▪		▪
125	16	139,7	22	250	210	18	141,5	8	5,41	▪	▪	▪
150	16	168,3	24	285	240	22	170,5	8	7,14	▪		▪
200	10	219,1	24	340	295	22	221,5	8	9,27	▪		▪
250	10	273,0	26	395	350	22	276,5	12	11,80	▪	▪	▪
300	10	323,9	26	445	400	22	327,5	12	13,60	▪		▪
350	10	355,6	30	505	460	22	359,5	16	20,40	▪		▪
400	10	406,4	32	565	515	26	411,0	16	27,50	▪		▪
500	10	508,0	38	670	620	26	513,5	20	40,20	▪		▪

* Auch nach DIN lieferbar



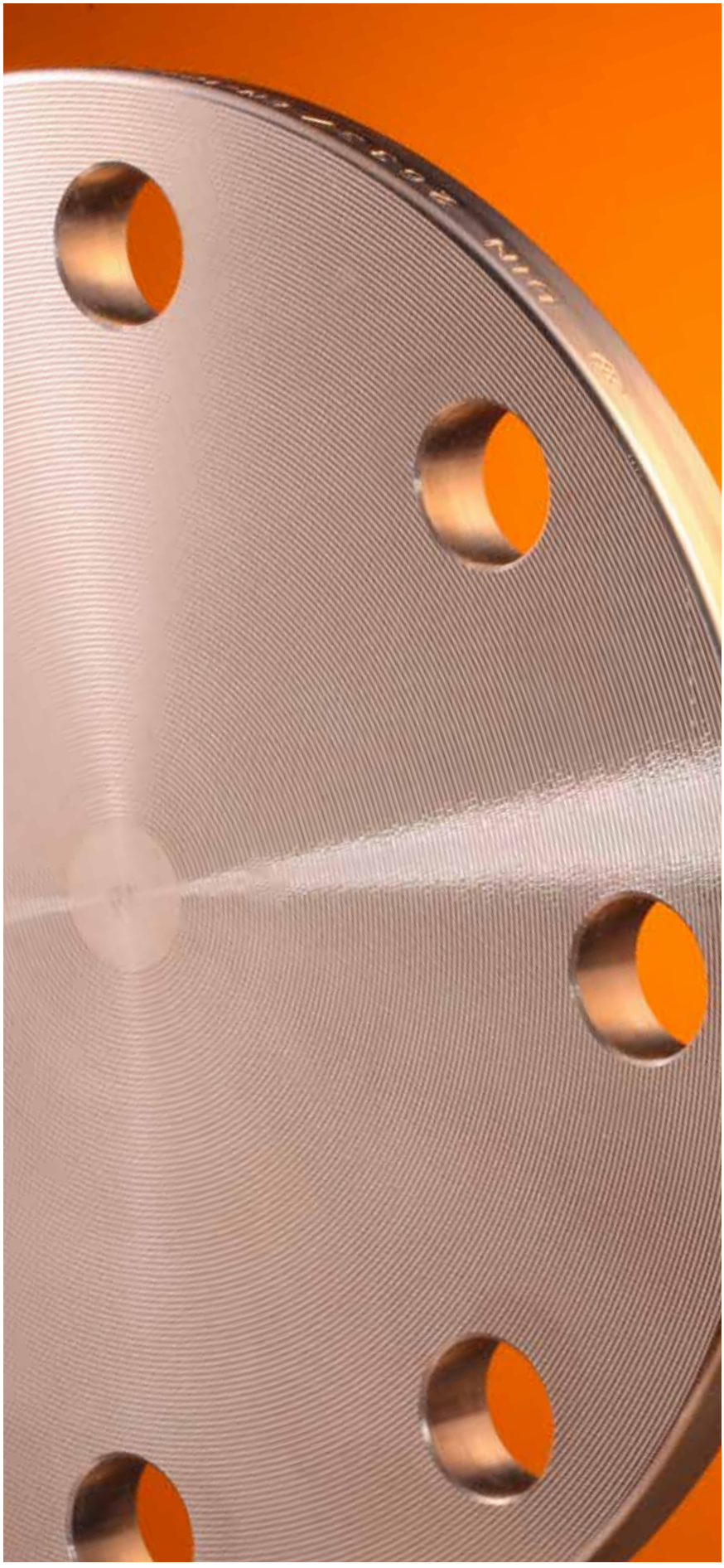
Nominal pressure/ diameter DN	PN	Pipe size d_1 mm	b mm	D mm	Øk mm	d_2 mm	Number of drill holes	Theoret. weight kg/pce.	Grade 1.4541 AISI 321 *)	Grade 1.4571 AISI 316Ti *)
15	10	21,3	14	95	65	14	4	0,67	▪	▪
20	10	26,9	16	105	75	14	4	0,94	▪	▪
25	10	33,7	16	115	85	14	4	1,11	▪	▪
32	10	42,4	16	140	100	18	4	1,62	▪	▪
40	10	48,3	16	150	110	18	4	1,86	▪	▪
100	10	108,0	20	220	180	18	8	4,20	▪	▪
125	10	133,0	22	250	210	18	8	5,71	▪	▪
150	10	159,0	22	285	240	22	8	6,72	▪	▪
150	10	168,3	22	285	240	22	8	6,72	▪	▪
200	10	219,1	24	340	295	22	8	9,31	▪	▪

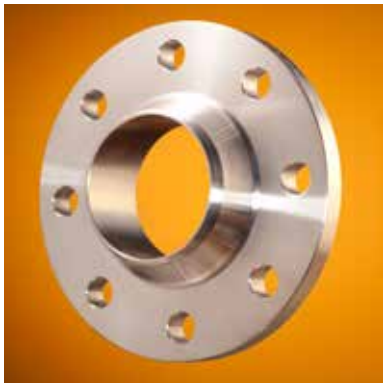


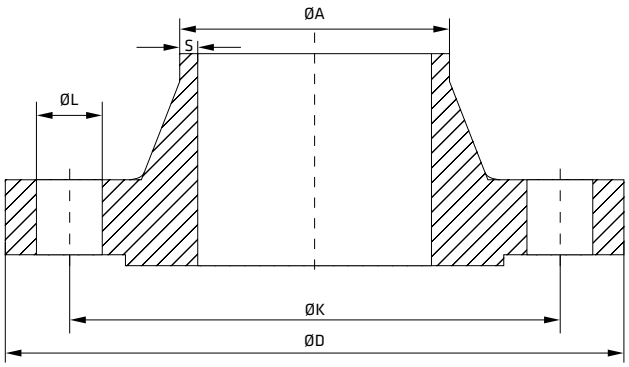


Nominal pressure/ diameter DN	PN	Pipe size d_1 mm	b mm	D mm	Øk mm	d_2 mm	Number of drill holes	Theoret. weight kg/pce.	Grade 1.4301 AISI 304 *)	Grade 1.4571 AISI 316Ti *)
50	10	60,3	10	165	125	18	4	1,37	▪	▪
65	10	76,1	10	185	145	18	4	1,67	▪	▪
80	10	88,9	10	200	160	18	8	1,89	▪	▪
100	10	114,3	10	220	180	18	8	2,02	▪	▪
125	10	139,7	10	250	210	18	8	2,48		▪
125	10	139,7	12	250	210	18	8	2,98	▪	▪
150	10	168,3	10	285	240	22	8	2,98		▪
150	10	168,3	12	285	240	22	8	3,58	▪	▪
200	10	219,1	12	340	295	22	8	4,66	▪	▪
250	10	273,0	12	395	350	22	12	5,49		▪
250	10	273,0	15	395	350	22	12	6,86	▪	
300	10	323,9	12	445	400	22	12	6,36		▪
300	10	323,9	15	445	400	22	12	7,96	▪	▪
350	10	355,6	12	505	460	22	16	8,82		▪
350	10	355,6	15	505	460	22	16	11,04	▪	▪
400	10	406,4	12	565	515	26	16	10,46		▪
400	10	406,4	15	565	515	26	16	13,08	▪	▪
500	10	508,0	15	670	620	26	20	16,22		▪
500	10	508,0	20	670	620	26	20	21,63	▪	▪

* Auch nach DIN lieferbar



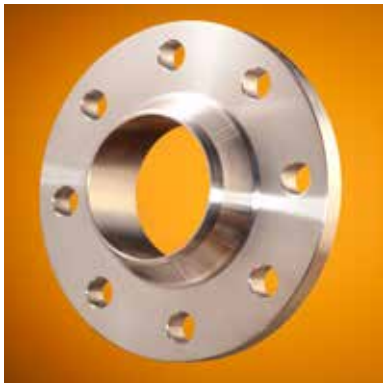


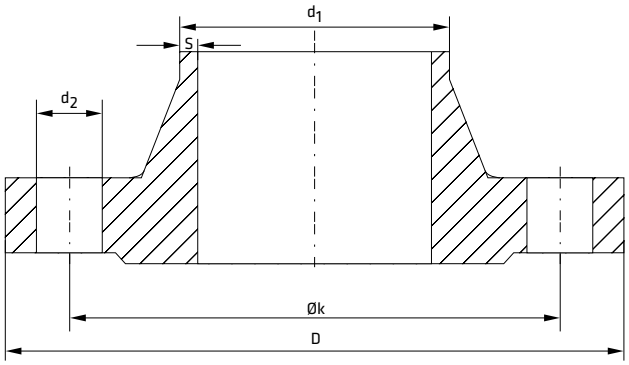


Nominal pressure/ diameter DN	PN	Pipe size ØA mm	S mm	ØD mm	ØK mm	ØL mm	Number of drill holes	Theoret. weight kg/pce.	Grade 1.4301 AISI 304 *)	Grade 1.4541 AISI 321 *)	Grade 1.4571 AISI 316Ti *)
10	40	17,2	2,00	90	60	14	4	0,68			▪
15	40	21,3	2,00	95	65	14	4	0,77	▪	▪	▪
20	40	26,9	2,30	105	75	14	4	1,09	▪	▪	▪
25	40	33,7	2,60	115	85	14	4	1,30	▪	▪	▪
32	40	42,4	2,60	140	100	18	4	1,91	▪	▪	▪
40	40	48,3	2,60	150	110	18	4	2,15	▪	▪	▪
50	16	60,3	2,90	165	125	18	4	2,53	▪	▪	▪
50	40	60,3	2,90	165	125	18	4	2,85			▪
65	16	76,1	2,90	185	145	18	4	3,03	▪	▪	▪
65	16	76,1	2,90	185	145	18	8	3,03	▪	▪	▪
65	40	76,1	2,90	185	145	18	8	3,68			▪
80	16	88,9	3,20	200	160	18	8	3,92	▪	▪	▪
80	40	88,9	3,20	200	160	18	8	4,78			▪
100	16	114,3	3,60	220	180	18	8	4,62	▪	▪	▪
100	40	114,3	3,60	235	190	22	8	6,46			▪
125	16	139,7	4,00	250	210	18	8	6,30	▪	▪	▪
125	40	139,7	4,00	270	220	26	8	8,86			▪
150	16	168,3	4,50	285	240	22	8	7,81	▪	▪	▪
150	40	168,3	4,50	300	250	26	8	11,70			▪
200	10	219,1	6,30	340	295	22	8	11,50	▪	▪	▪
200	16	219,1	6,30	340	295	22	12	11,60		▪	▪
200	40	219,1	6,30	375	320	30	12	21,00			▪
250	10	273,0	6,30	395	350	22	12	15,80	▪	▪	▪
250	16	273,0	6,30	405	355	26	26	16,70			▪
300	10	323,9	7,10	445	400	22	12	18,30	▪	▪	▪
300	16	323,9	7,10	460	410	26	26	22,10			▪
350	10	355,6	7,10	505	460	22	16	25,30	▪	▪	▪
400	10	406,4	7,10	565	515	26	16	30,60	▪	▪	▪
500	10	508,0	7,10	670	620	26	20	40,50			▪

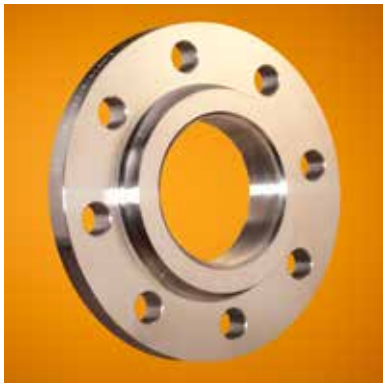
Nominal pressure/ diameter DN	PN	Pipe size ØA mm	S mm	ØD mm	ØK mm	ØL mm	Number of drill holes	Theoret. weight kg/pce.	Grade 1.4462 UNS S31803 *) Duplex	Grade 1.4539 AISI 904L *)
15	40	21,34	2,11	95	65	14	4	1,00	▪	▪
15	40	21,34	2,77	95	65	14	4	1,02	▪	▪
20	40	26,67	2,87	105	75	14	4	1,05	▪	▪
25	40	33,40	2,77	115	85	14	4	1,31	▪	▪
25	40	33,40	3,38	115	85	14	4	1,32	▪	▪
32	40	42,16	2,77	140	100	18	4	1,95	▪	▪
32	40	42,16	3,56	140	100	18	4	1,92	▪	▪
40	40	48,26	2,77	150	110	18	4	2,16	▪	▪
40	40	48,26	3,68	150	110	18	4	2,20	▪	▪
50	16	60,30	2,77	165	125	18	4	2,52	▪	▪
50	16	60,30	3,91	165	125	18	4	2,58	▪	▪
50	16	60,30	5,54	165	125	18	4	2,62	▪	▪
65	16	73,03	3,05	185	145	18	8	3,03	▪	▪
65	16	73,03	5,16	185	145	18	8	3,20	▪	▪
65	16	76,10	4,00	185	145	18	8	3,16	▪	▪
80	16	88,90	3,05	200	160	18	8	4,00	▪	▪
80	16	88,90	4,00	200	160	18	8	4,00	▪	▪
80	16	88,90	5,49	200	160	18	8	4,92	▪	▪
100	16	114,30	3,05	220	180	18	8	4,54	▪	▪
100	16	114,30	6,02	220	180	18	8	4,95	▪	▪
125	16	139,70	6,55	250	210	18	8	6,75	▪	▪
125	16	141,30	6,55	250	210	18	8	6,95	▪	▪
150	16	168,30	7,11	285	240	22	8	8,37	▪	▪
200	16	219,10	8,18	340	295	22	12	12,19	▪	▪

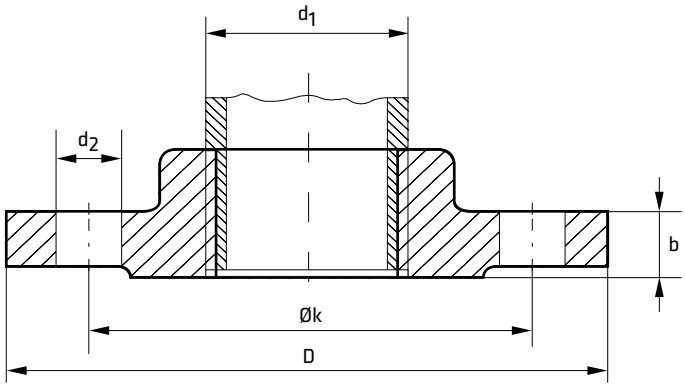
* Auch nach DIN lieferbar



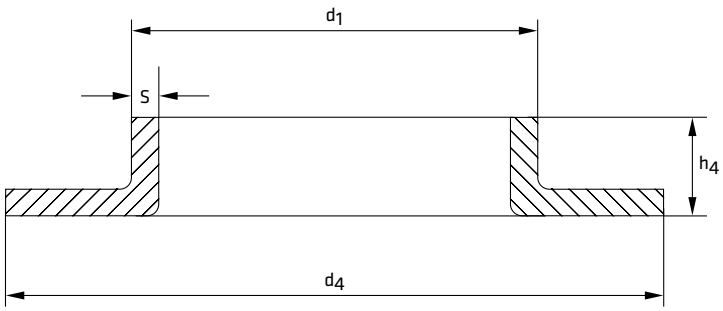


Nominal pressure/ diameter DN	PN	Pipe size d_1 mm	S mm	D mm	Øk mm	d_2 mm	Number of drill holes	Theoret. weight kg/pce.	Grade 1.4571 AISI 316Ti *)
10	16	17,2	1,8	90	60	14	4	0,58	▪
15	16	21,3	2,0	95	65	14	4	0,65	▪
20	16	26,9	2,0	105	75	14	4	0,95	▪
25	16	33,7	2,6	115	85	14	4	1,14	▪
32	16	42,4	2,6	140	100	18	4	1,69	▪
40	16	48,3	2,6	150	110	18	4	1,86	▪
100	16	108,0	3,6	220	180	18	8	4,62	▪
125	16	133,0	4,0	250	210	18	8	6,30	▪
150	16	159,0	4,5	285	240	22	8	7,75	▪





Nominal pressure/ diameter DN	PN	Whitworth Rohrgewinde DIN 2999	d_1 mm	D mm	b mm	Øk mm	d_2 mm	Number of drill holes	Theoret. weight kg/pce.	Grade 1.4571 AISI 316Ti *)
15	10 / 16	R 1/2“	21,3	95	14	65	14	4	0,61	▪
20	10 / 16	R 3/4“	26,9	105	16	75	14	4	0,91	▪
25	10 / 16	R 1“	33,7	115	16	85	14	4	1,10	▪
32	10 / 16	R 1 1/4“	42,4	140	16	100	18	4	1,60	▪
40	10 / 16	R 1 1/2“	48,3	150	16	110	18	4	1,78	▪
50	10 / 16	R 2“	60,3	165	18	125	18	4	2,43	▪
65	10 / 16	R 2 1/2“	76,1	185	18	145	18	4	3,18	▪
80	10 / 16	R 3“	88,9	200	20	160	18	8	4,12	▪
100	10 / 16	R 4“	114,3	220	20	180	18	8	4,47	▪



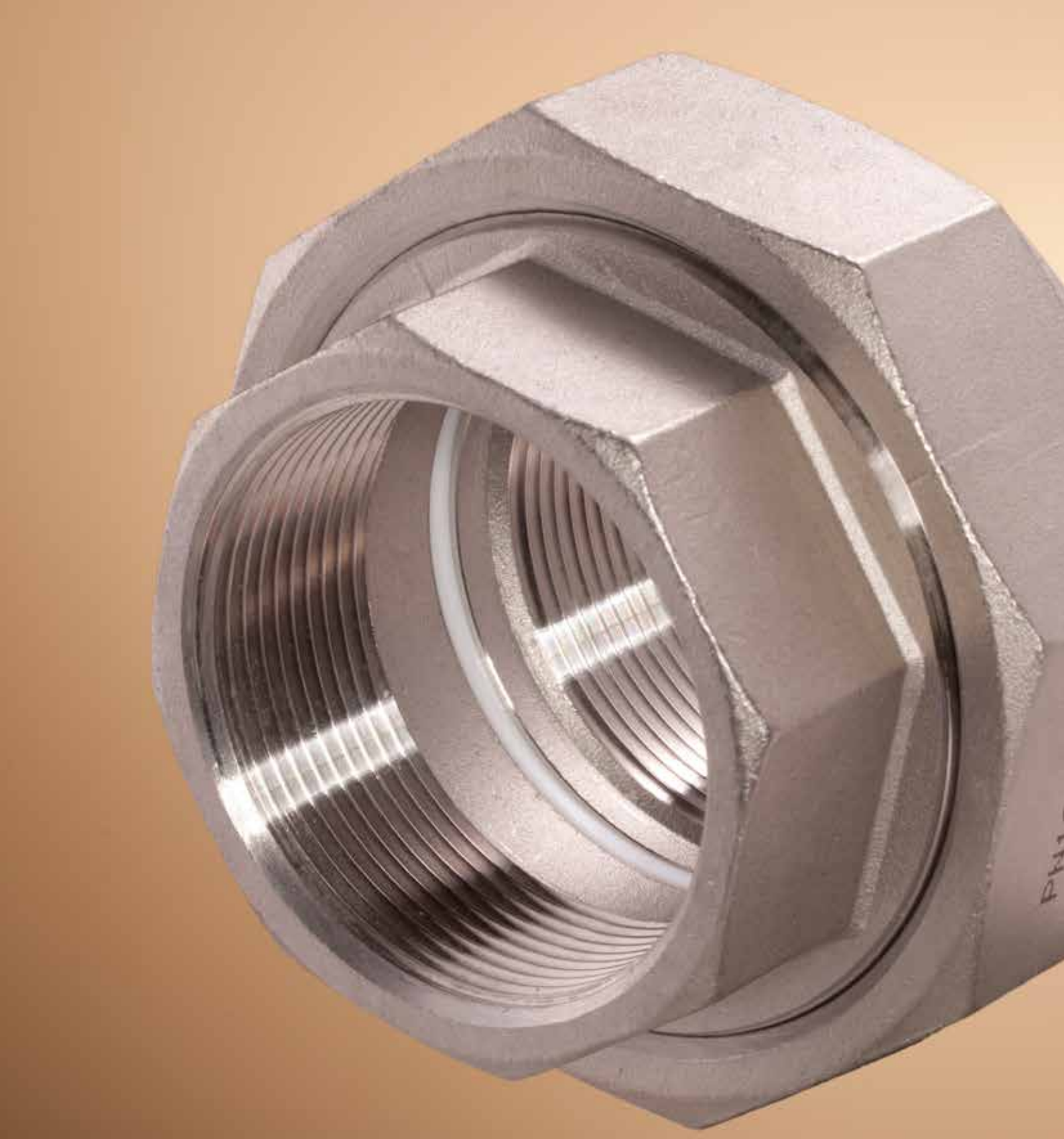
Pipe size mm	S mm	h_4 mm	d_1 mm	d_4 mm	The-oret. weight kg/pce.	Grade 1.4541 AISI 321 *)	Grade 1.4571 AISI 316Ti *)
17,2	1,8	9	17,2	40	0,02	▪	
17,2	2,0	9	17,2	40	0,02		▪
18,0	1,5	9	18,0	45	0,03	▪	▪
21,3	2,0	9	21,3	45	0,04	▪	▪
23,0	1,5	12	23,0	58	0,05		▪
26,9	2,0	12	26,9	58	0,06	▪	▪
28,0	1,5	15	28,0	68	0,07		▪
33,7	2,0	15	33,7	68	0,09	▪	▪
33,7	2,6	15	33,7	68	0,11	▪	▪
35,0	1,5	15	35,0	78	0,09		▪
42,4	2,0	15	42,4	78	0,11	▪	▪
42,4	2,5	15	42,4	78	0,12	▪	▪
48,3	2,0	17	48,3	88	0,14	▪	▪
48,3	2,6	17	48,3	88	0,16	▪	▪
54,0	2,0	21	54,0	102	0,19		▪
60,3	2,0	23	60,3	102	0,19	▪	▪
60,3	2,5	23	60,3	102	0,25		▪
60,3	2,6	23	60,3	102	0,25		
60,3	3,0	20	60,3	102	0,24	▪	▪
70,0	2,0	23	70,0	122	0,26		▪
76,1	2,0	23	76,1	122	0,25	▪	
76,1	2,6	23	76,1	122	0,30	▪	▪
76,1	3,0	23	76,1	122	0,34		▪
84,0	2,0	23	84,0	138	0,27		▪
88,9	2,0	23	88,9	138	0,26	▪	
88,9	2,6	23	88,9	138	0,37	▪	▪
88,9	3,0	23	88,9	138	0,40	▪	▪
104,0	2,0	27	104,0	158	0,43		▪
108,0	3,0	28	108,0	158	0,56		▪
114,3	2,0	28	114,3	160	0,40	▪	
114,3	2,6	28	114,3	160	0,47	▪	▪

Welding collars | similar to DIN 2642 | stainless

Pipe size mm	S mm	h_4 mm	d_1 mm	d_4 mm	Theoret. weight kg/pce.	Grade 1.4541 AISI 321 *)	Grade 1.4571 AISI 316Ti *)
114,3	3,0	28	114,3	160	0,51		▪
129,0	2,0	30	129,0	188	0,55		▪
133,0	3,0	30	133,0	188	0,72		▪
139,7	2,6	30	139,7	188	0,52	▪	▪
139,7	3,0	30	139,7	188	0,66		▪
154,0	2,0	31	154,0	212	0,54		▪
159,0	3,0	30	159,0	212	0,52		▪
168,3	2,5	30	168,3	212	0,61		▪
168,3	2,6	30	168,3	212	0,64	▪	
168,3	3,0	30	168,3	212	0,75	▪	▪
204,0	2,0	30	204,0	270	0,77		▪
219,1	3,0	30	219,1	270	1,08	▪	▪
254,0	2,0	30	254,0	320	0,98		▪
273,0	3,0	30	273,0	320	1,34	▪	▪
273,0	4,0	30	273,0	320	1,43		▪
306,0	3,0	35	306,0	370	1,51		▪
323,9	3,0	35	323,9	370	1,35	▪	▪
323,9	4,0	35	323,9	370	1,80		▪
355,6	3,0	35	355,6	430	1,88	▪	▪
355,6	4,0	35	355,6	430	2,51		▪
406,4	3,0	37	406,4	482	2,15	▪	▪
406,4	4,0	37	406,4	482	2,86	▪	▪
508,0	3,0	37	508,0	585	2,77		▪
508,0	4,0	37	508,0	585	3,70	▪	▪
609,6	4,0	45	609,6	685	4,75		▪

Welding collars | similar to DIN 2642 | highly corrosion resistant

Pipe size mm	S mm	h_4 mm	d_1 mm	d_4 mm	Theoret. weight kg/pce.	Grade 1.4539 AISI 904L *)
26,9	3,0	12	26,9	58	0,07	▪
42,4	3,0	15	42,4	78	0,14	▪
60,3	3,0	20	60,3	102	0,24	▪
219,1	2,6	30	219,1	270	0,82	▪
273,0	3,0	30	273,0	320	1,34	▪
323,9	3,0	35	323,9	370	1,35	▪



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Fittings | Threaded fittings

* solution annealed, pickled or metal bright

Technical terms of delivery

DIN EN 10088-3, DIN EN 10216-5, DIN EN 10217-7 for the base material and respectively for the final product, also in combination with AD-2000 leaflet W 2/W 9/ W 10 acc. to agreement

Tolerances

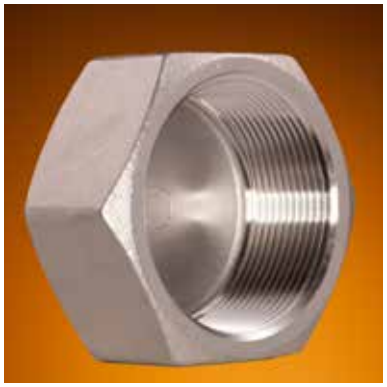
DIN EN 10241 and similar[1)] DIN 2982, 2986, 2987

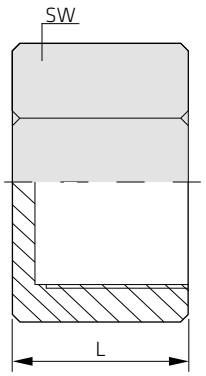
Test certificates

DIN EN 10204 3.1 for the base material and the final product

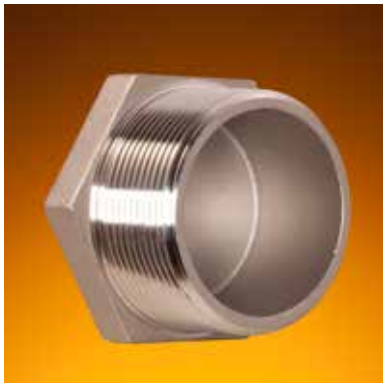
[1)] Dimensions and finishes may vary due to production. Coordination evtl. necessary.

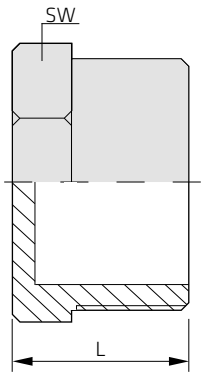
* Classification see page 172 - 190



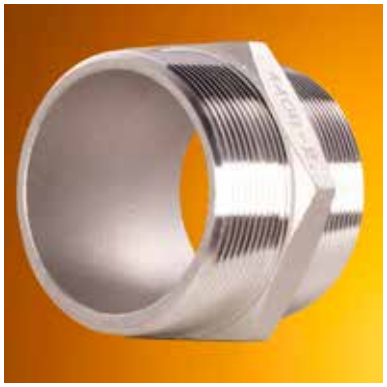


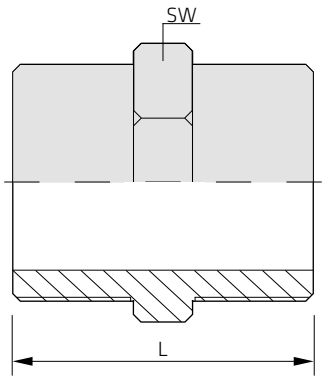
INCH	Nominal diameter	L mm	SW mm	Theoret. weight kg/pce.	Grade 1.4408 AISI 316
1/4“	8	17	18	0,03	▪
3/8“	10	19	21	0,04	▪
1/2“	15	20	27	0,05	▪
3/4“	20	24	30	0,08	▪
1“	25	25	38	0,14	▪
1 1/4“	32	28	50	0,20	▪
1 1/2“	40	28	55	0,23	▪
2“	50	34	70	0,44	▪



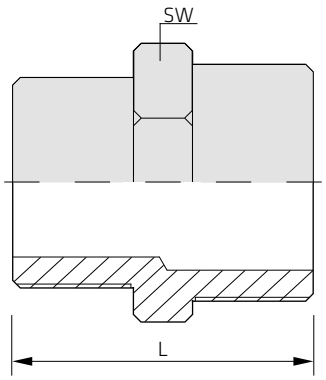


INCH	Nominal diameter	L mm	SW mm	Theoret. weight kg/pce.	Grade 1.4408 AISI 316
1/4“	8	17,5	16	0,02	▪
3/8“	10	18,0	20	0,04	▪
1/2“	15	25,0	24	0,07	▪
3/4“	20	26,0	30	0,11	▪
1“	25	29,0	38	0,15	▪
1 1/4“	32	35,0	46	0,26	▪
1 1/2“	40	38,0	52	0,37	▪
2“	50	39,0	65	0,50	▪

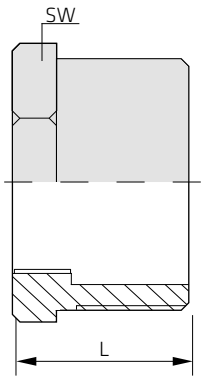




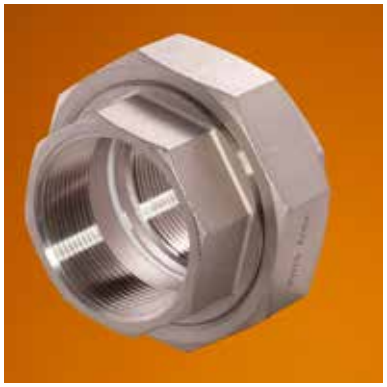
INCH	Nominal diameter	L mm	SW mm	Theoret. weight kg/pce.	Grade 1.4408 AISI 316
1/4“	8	27,8	16,0	0,02	▪
3/8“	10	28,0	19,0	0,04	▪
1/2“	15	34,0	21,6	0,06	▪
3/4“	20	40,0	30,0	0,09	▪
1“	25	46,0	36,0	0,14	▪
1 1/4“	32	52,5	46,0	0,23	▪
1 1/2“	40	54,0	50,0	0,29	▪
2“	50	62,0	64,5	0,46	▪

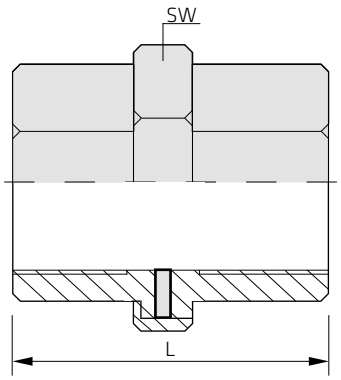


INCH	Nominal diameter	L mm	SW mm	Theoret. weight kg/pce.	Grade 1.4408 AISI 316
1/4“ x 1/8“	8 x 6	34,0	18,0	0,03	▪
3/8“ x 1/4“	10 x 8	35,5	21,0	0,05	▪
1/2“ x 3/8“	15 x 10	41,0	26,0	0,07	▪
3/4“ x 1/2“	20 x 15	46,0	30,0	0,11	▪
1“ x 3/4“	25 x 20	50,0	37,0	0,17	▪
1 1/4“ x 1“	32 x 25	54,0	46,0	0,25	▪
1 1/2“ x 1 1/4“	40 x 32	59,0	51,5	0,37	▪
2“ x 1“	50 x 25	57,0	63,0	0,43	▪
2“ x 1 1/2“	50 x 40	65,4	64,0	0,52	▪

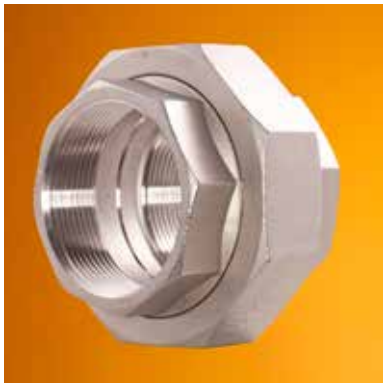


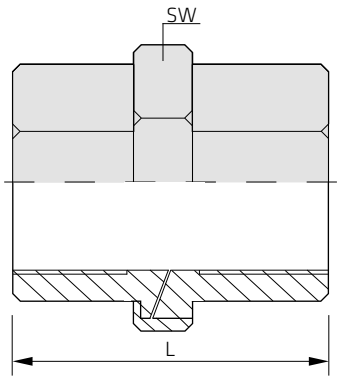
INCH	Nominal diameter	L mm	SW mm	Theoret. weight kg/pce.	Grade 1.4408 AISI 316
1/4“ x 1/8“	8 x 6	15,2	16	0,01	▪
3/8“ x 1/4“	10 x 8	16,5	18	0,02	▪
1/2“ x 3/8“	15 x 10	22,0	26	0,03	▪
3/4“ x 1/2“	20 x 15	24,0	30	0,05	▪
1“ x 3/4“	25 x 20	27,0	35	0,09	▪
1 1/4“ x 1“	32 x 25	30,0	45	0,14	▪
1 1/2“ x 1 1/4“	40 x 32	38,0	52	0,17	▪
2“ x 1“	50 x 25	37,0	63	0,45	▪
2“ x 1 1/2“	50 x 40	37,0	63	0,33	▪



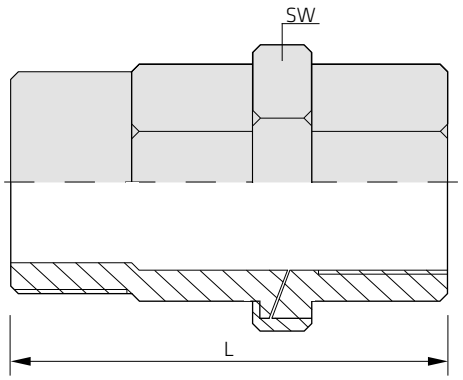


INCH	Nominal diameter	L mm	SW mm	Theoret. weight kg/pce.	Grade 1.4408 AISI 316
1/4“	8	34,0	30	0,15	▪
3/8“	10	37,0	35	0,19	▪
1/2“	15	40,5	41	0,19	▪
3/4“	20	43,0	48	0,40	▪
1“	25	50,5	54	0,48	▪
1 1/4“	32	54,5	65	0,63	▪
1 1/2“	40	58,5	72	0,81	▪
2“	50	65,5	88	1,16	▪

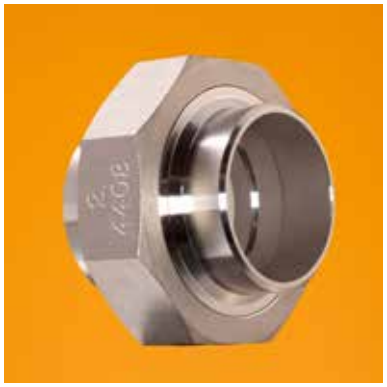


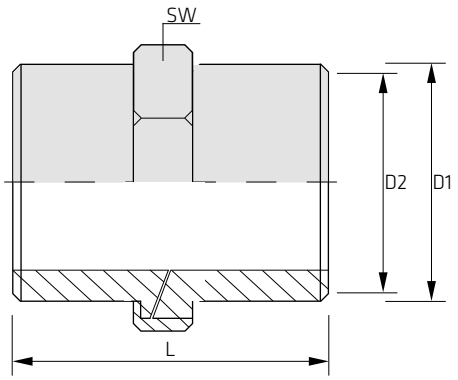


INCH	Nominal diameter	L mm	SW mm	Theoret. weight kg/pce.	Grade 1.4408 AISI 316
1/4“	8	34,0	30	0,15	▪
3/8“	10	37,0	35	0,20	▪
1/2“	15	40,5	41	0,19	▪
3/4“	20	43,0	48	0,28	▪
1“	25	50,5	54	0,42	▪
1 1/4“	32	54,5	65	0,62	▪
1 1/2“	40	58,5	72	0,82	▪
2“	50	65,5	88	1,22	▪

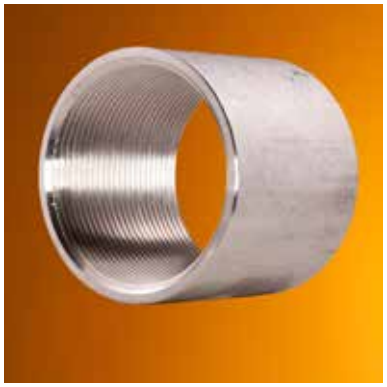


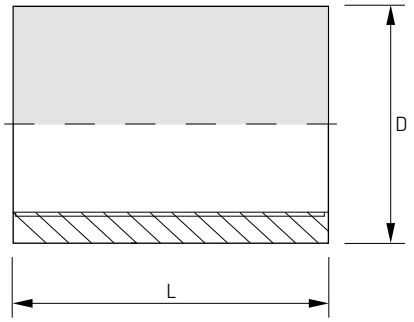
INCH	Nominal diameter	L mm	SW mm	Theoret. weight kg/pce.	Grade 1.4408 AISI 316
1/4“	8	45,0	30	0,15	▪
3/8“	10	48,5	35	0,20	▪
1/2“	15	55,5	41	0,23	▪
3/4“	20	59,0	48	0,36	▪
1“	25	69,0	54	0,40	▪
1 1/4“	32	75,5	65	0,77	▪
1 1/2“	40	79,5	72	0,94	▪
2“	50	91,0	88	1,41	▪



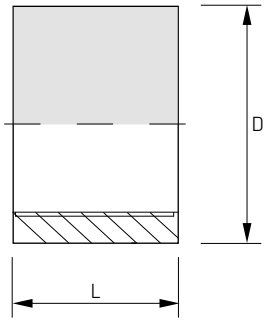


INCH	Nominal diameter	L mm	SW mm	D1 mm	D2 mm	Theoret. weight kg/pce.	Grade 1.4408 AISI 316
3/8“	10	38,0	35	17,2	12,7	0,20	▪
1/2“	15	42,0	42	21,3	16,7	0,23	▪
3/4“	20	50,4	47	26,9	21,5	0,28	▪
1“	25	48,0	53	33,7	26,5	0,41	▪
1 1/4“	32	59,0	71	42,4	35,8	0,62	▪
1 1/2“	40	64,0	78	48,3	42,0	0,79	▪
2“	50	69,0	92	60,3	53,3	1,18	▪

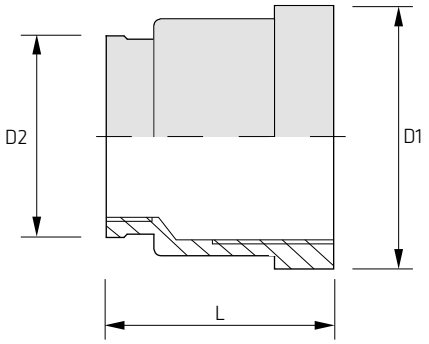




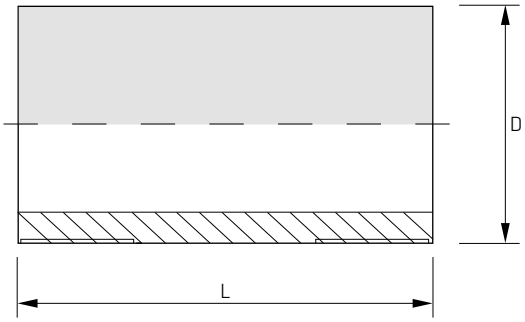
INCH	Nominal diameter	L mm	D mm	Theoret. weight kg/pce.	Grade 1.4571 AISI 316Ti *)
1/4“	8	26	19,5	0,03	▪
3/8“	10	27	22,3	0,04	▪
1/2“	15	34	27,7	0,04	▪
3/4“	20	36	33,6	0,10	▪
1“	25	43	39,5	0,12	▪
1 1/4“	32	48	48,3	0,15	▪
1 1/2“	40	48	54,6	0,35	▪
2“	50	56	66,3	0,45	▪



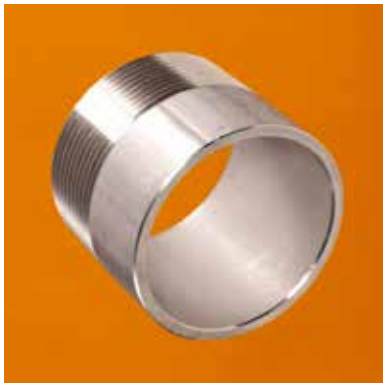
INCH	Nominal diameter	L mm	D mm	Theoret. weight kg/pce.	Grade 1.4571 AISI 316Ti *)
1/4“	8	12	19,5	0,02	▪
3/8“	10	13	22,3	0,02	▪
1/2“	15	15	27,7	0,03	▪
3/4“	20	17	33,6	0,03	▪
1“	25	20	39,5	0,06	▪
1 1/4“	32	22	48,3	0,12	▪
1 1/2“	40	22	54,6	0,20	▪
2“	50	26	66,3	0,25	▪

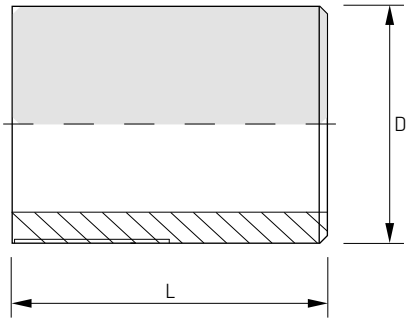


INCH	Nominal diameter	L mm	D1 mm	D2 mm	Theoret. weight kg/pce.	Grade 1.4408 AISI 316
3/4“ x 1/2“	20 x 15	37	37	28,1	0,10	▪
1“ x 1/2“	25 x 15	42	43	29,4	0,15	▪
1“ x 3/4“	25 x 20	42	43	32,0	0,16	▪

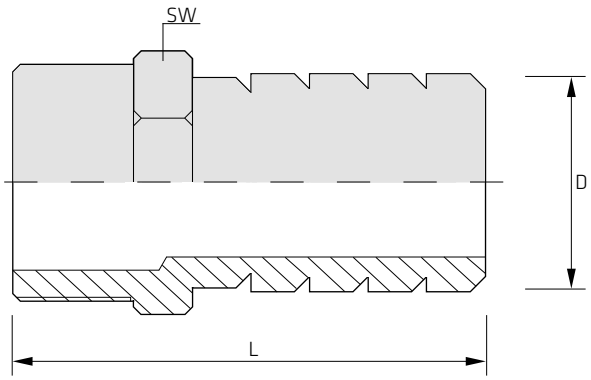


INCH	Nominal diameter	L mm	D mm	Theoret. weight kg/pce.	Grade 1.4571 AISI 316Ti *)
1/4“	8	40	13,5	0,04	▪
3/8“	10	40	17,2	0,04	▪
1/2“	15	60	21,3	0,06	▪
3/4“	20	60	26,9	0,15	▪
1“	25	60	33,7	0,16	▪
1 1/4“	32	80	42,4	0,27	▪
1 1/2“	40	80	48,3	0,35	▪
2“	50	100	60,3	0,50	▪

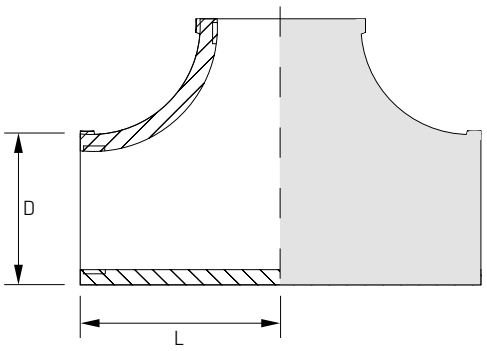




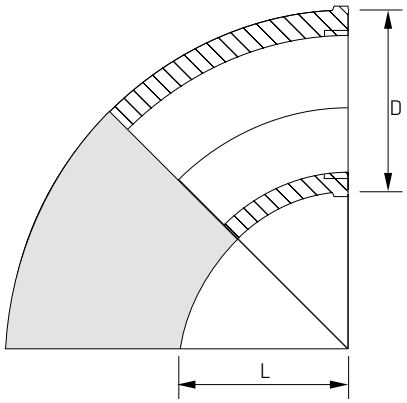
INCH	Nominal diameter	L mm	D mm	Theoret. weight kg/pce.	Grade 1.4571 AISI 316Ti *)
1/4“	8	30	13,5	0,03	▪
3/8“	10	30	17,2	0,03	▪
1/2“	15	35	21,3	0,04	▪
3/4“	20	40	26,9	0,05	▪
1“	25	40	33,7	0,08	▪
1 1/4“	32	50	42,4	0,25	▪
1 1/2“	40	50	48,3	0,30	▪
2“	50	50	60,3	0,35	▪



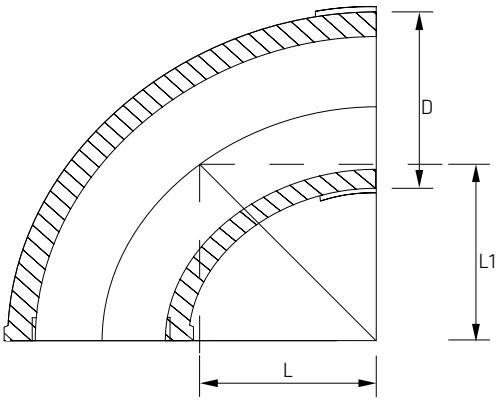
INCH	Nominal diameter	L mm	D mm	SW mm	Theoret. weight kg/pce.	Grade 1.4408 AISI 316
1/4“	8	47	17	12,7	0,03	▪
3/8“	10	55	20	12,7	0,04	▪
1/2“	15	64	24	19,0	0,05	▪
3/4“	20	68	31	25,4	0,15	▪
1“	25	71	39	27,0	0,25	▪
1 1/4“	32	80	46	33,0	0,37	▪
1 1/2“	40	95	52	39,5	0,49	▪
2“	50	105	62	52,0	0,72	▪



INCH	Nominal diameter	L mm	D mm	Theoret. weight kg/pce.	Grade 1.4408 AISI 316
1/4“	8	19,5	19,0	0,08	▪
3/8“	10	23,5	22,5	0,08	▪
1/2“	15	27,5	27,5	0,13	▪
3/4“	20	32,5	33,0	0,22	▪
1“	25	38,5	40,5	0,32	▪
1 1/4“	32	45,5	50,0	0,52	▪
1 1/2“	40	48,5	56,5	0,69	▪
2“	50	57,5	70,0	0,98	▪

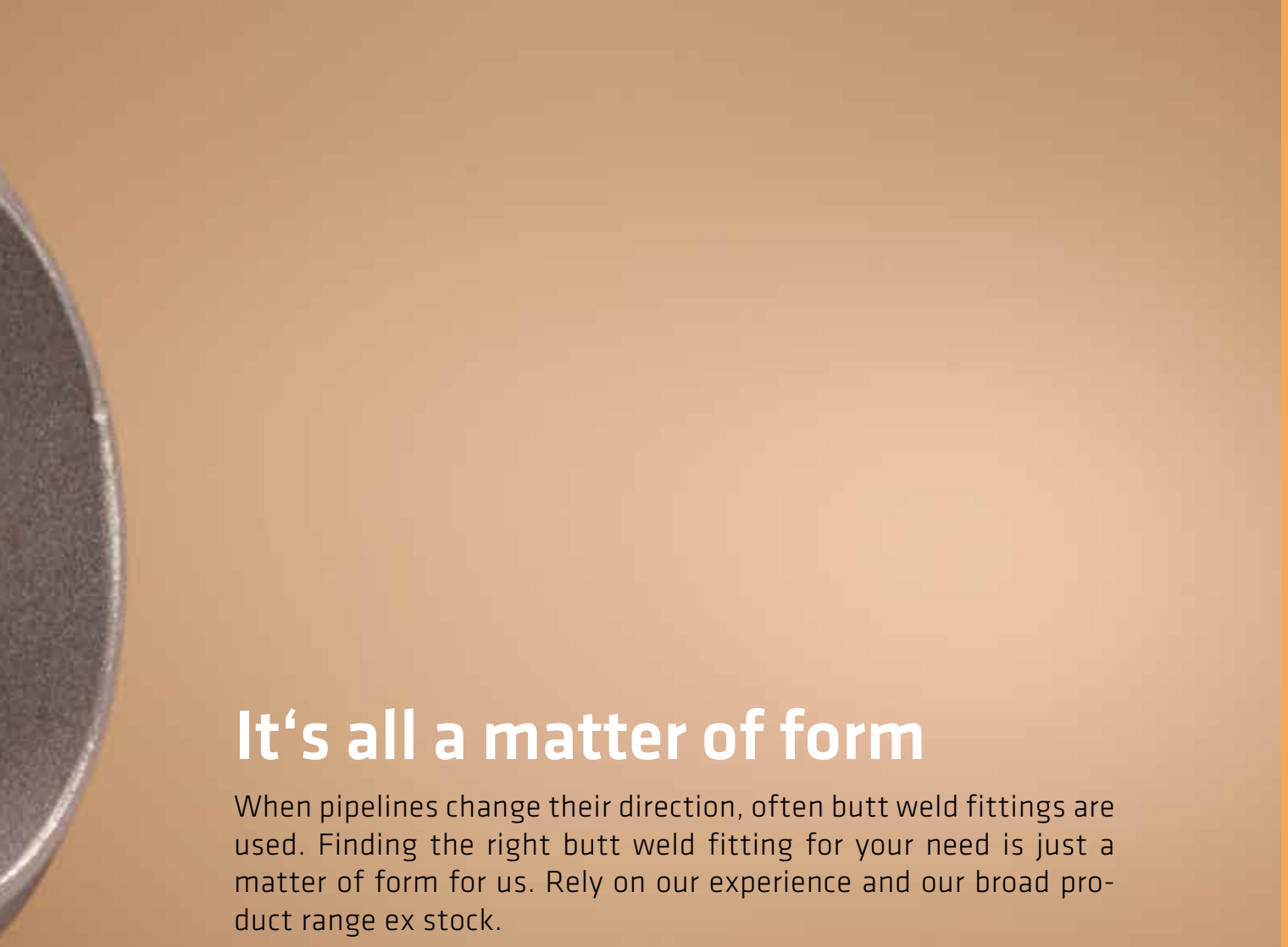


INCH	Nominal diameter	L mm	D mm	Theoret. weight kg/pce.	Grade 1.4408 AISI 316
1/4“	8	19,5	19,0	0,03	▪
3/8“	10	23,5	22,5	0,05	▪
1/2“	15	27,5	27,5	0,08	▪
3/4“	20	32,5	33,0	0,15	▪
1“	25	38,5	40,5	0,24	▪
1 1/4“	32	45,5	50,0	0,37	▪
1 1/2“	40	48,5	56,5	0,61	▪
2“	50	57,5	70,0	0,82	▪



INCH	Nominal diameter	L mm	L1 mm	D mm	Theoret. weight kg/pce.	Grade 1.4408 AISI 316
1/4“	8	27,5	19,5	19,0	0,05	▪
3/8“	10	29,5	23,5	22,5	0,08	▪
1/2“	15	35,5	27,5	27,0	0,11	▪
3/4“	20	40,5	32,5	32,5	0,17	▪
1“	25	46,5	38,5	40,0	0,33	▪
1 1/4“	32	54,5	45,5	50,0	0,49	▪
1 1/2“	40	57,5	48,5	56,5	0,63	▪
2“	50	70,5	57,5	69,0	0,90	▪

BUTT WELD FITTINGS



It‘s all a matter of form

When pipelines change their direction, often butt weld fittings are used. Finding the right butt weld fitting for your need is just a matter of form for us. Rely on our experience and our broad product range ex stock.

Fittings | butt weld fittings

* solution annealed, pickled or metal bright

Technical terms of delivery

DIN EN 10253-4 and DIN 2609, DIN EN 10217-7, DIN EN 10216-5 also in connection with AD-2000 leaflet W 2/W 9/W 10 for the base material used and the final product; VdTÜV sheet 1252 acc. to agreement

Tolerances

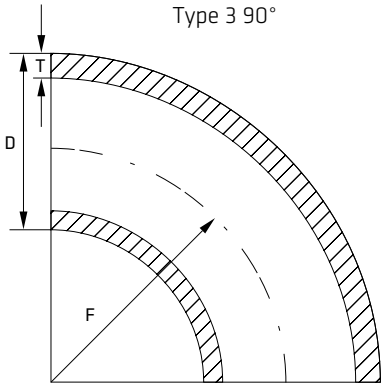
DIN EN 10253-4, DIN EN 1092-1 and DIN 2605, 2609, 2615, 2616 and similar[1)]
DIN 28011

Test certificates

DIN EN 10204 3.1 for the base material and the final product

[1)] Dimensions and finishes may vary due to production. Coordination evtl. necessary.

* Classification see page 192 - 209

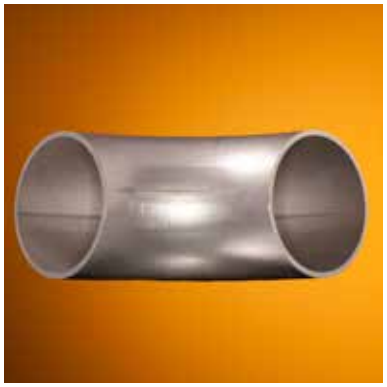


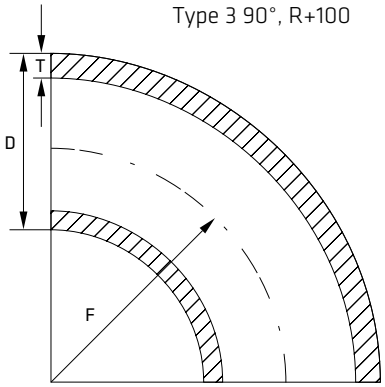
Outside Ø mm	Wall thick-ness mm	D mm	T mm	F mm	The-oret. weight kg/pce.	Grade 1.4571 AISI 316Ti *)
12,00	1,50	12,00	1,50	15,0	0,02	▪
15,00	1,50	15,00	1,50	27,5	0,02	▪
17,20	2,30	17,20	2,30	27,5	0,04	▪
21,30	2,00	21,30	2,00	28,0	0,04	▪
21,30	2,60	21,30	2,60	28,0	0,06	▪
26,90	2,00	26,90	2,00	29,0	0,06	▪
26,90	2,60	26,90	2,60	29,0	0,08	▪
33,70	2,00	33,70	2,00	38,0	0,10	▪
33,70	2,60	33,70	2,60	38,0	0,12	▪
33,70	3,20	33,70	3,20	38,0	0,14	▪
42,40	2,60	42,40	2,60	48,0	0,19	▪
42,40	3,20	42,40	3,20	48,0	0,23	▪
48,30	2,60	48,30	2,00	57,0	0,26	▪
48,30	3,20	48,30	2,90	57,0	0,32	▪
60,30	2,00	60,30	2,00	76,0	0,34	▪
60,30	2,90	60,30	2,90	76,0	0,49	▪
60,30	3,60	60,30	3,60	76,0	0,62	▪
76,10	2,90	76,10	2,90	95,0	0,88	▪
76,10	3,60	76,10	3,60	95,0	0,98	▪
88,90	2,60	88,90	2,60	114,0	1,02	▪
88,90	3,20	88,90	3,20	114,0	1,15	▪
88,90	4,00	88,90	4,00	114,0	1,57	▪
114,30	3,60	114,30	3,60	152,0	2,35	▪
139,70	4,00	139,70	4,00	190,0	4,09	▪
168,30	4,50	168,30	4,50	229,0	7,00	▪

Cutting service for 45° elbows from DN 15 up to DN 300, length acc. to EN 10253 or cut in the middle from 90° elbow.

Outside Ø mm	Wall thick-ness mm	D mm	T mm	F mm	The-oret. weight kg/pce.	Grade 1.4462 UNS S31803 *) Duplex	Grade 1.4539 AISI 904L *)
21,34	2,11	21,34	2,11	28,0	0,04	▪	▪
21,34	2,77	21,34	2,77	28,0	0,08	▪	▪
26,67	2,11	26,67	2,11	29,0	0,06	▪	▪
26,67	2,87	26,67	2,87	29,0	0,08	▪	▪
33,40	2,77	33,40	2,77	38,0	0,12	▪	▪
33,40	3,38	33,40	3,38	38,0	0,16	▪	▪
42,16	2,77	42,16	2,77	48,0	0,19	▪	▪
42,16	3,56	42,16	3,56	48,0	0,27	▪	▪
48,26	2,77	48,26	2,77	57,0	0,28	▪	▪
48,26	3,68	48,26	3,68	57,0	0,37	▪	▪
60,33	2,77	60,33	2,77	76,0	0,49	▪	▪
60,33	3,91	60,33	3,91	76,0	0,70	▪	▪
73,03	3,05	73,03	3,05	95,0	0,80	▪	▪
73,03	5,16	73,03	5,16	95,0	1,30	▪	▪
76,10	4,00	76,10	4,00	95,0	1,18	▪	▪
88,90	3,05	88,90	3,05	114,0	1,20	▪	▪
88,90	5,49	88,90	5,49	114,0	2,14	▪	▪
88,90	7,62	88,90	7,62	114,0	2,75		▪
114,30	3,05	114,30	3,05	152,0	2,00	▪	▪
114,30	6,02	114,30	6,02	152,0	4,00	▪	▪
114,30	8,56	114,3	8,56	152,0	5,35		▪
168,30	7,11	168,30	7,11	229,0	10,25	▪	▪
219,10	8,18	219,10	8,18	305,0	22,40	▪	▪

Cutting service for 45° elbows from DN 15 up to DN 300, length acc. to EN 10253 or cut in the middle from 90° elbow.





Outside Ø mm	Wall thick-ness mm	D mm	T mm	F mm	The-oret. weight kg/pce.	Grade 1.4301 AISI 304 *)	Grade 1.4541 AISI 321 *)	Grade 1.4571 AISI 316Ti *)
17,2	1,6	17,2	1,6	27,5	0,03		▪	▪
18,0	1,5	18,0	1,5	22,5	0,02			▪
21,3	1,6	21,3	1,6	28,0	0,03			▪[1)]
21,3	2,0	21,3	2,0	28,0	0,06		▪	▪[1)]
21,3	2,6	21,3	2,6	28,0	0,06		▪	▪
23,0	1,5	23,0	1,5	25,0	0,04			▪
26,9	2,0	26,9	2,0	29,0	0,06		▪	▪[1)]
26,9	2,6	26,9	2,6	29,0	0,08		▪	▪
28,0	1,5	28,0	1,5	32,5	0,06			▪
30,0	2,0	30,0	2,0	33,5	0,07		▪	
33,7	2,0	33,7	2,0	38,0	0,10		▪	▪[1)]
33,7	2,6	33,7	2,6	38,0	0,12		▪	▪
33,7	3,2	33,7	3,2	38,0	0,14		▪	▪
35,0	1,5	35,0	1,5	45,0	0,10			▪
40,0	2,0	40,0	2,0	45,0	0,13		▪	
42,4	2,0	42,4	2,0	48,0	0,16		▪	▪[1)]
42,4	2,6	42,4	2,6	48,0	0,19		▪	▪
42,4	3,2	42,4	3,2	48,0	0,23		▪	▪
43,0	1,5	43,0	1,5	47,5	0,15			▪
48,3	2,0	48,3	2,0	57,0	0,22		▪	▪[1)]
48,3	2,6	48,3	2,6	57,0	0,26		▪	▪
48,3	3,2	48,3	3,2	57,0	0,32		▪	▪
54,0	2,0	54,0	2,0	70,0	0,31		▪	▪
60,3	2,0	60,3	2,0	76,0	0,34	▪	▪	▪[1)]
60,3	2,6	60,3	2,6	76,0	0,44		▪	▪
60,3	2,9	60,3	2,9	76,0	0,49	▪	▪	▪
60,3	3,6	60,3	3,6	76,0	0,62			▪

1) with AD2000 W2

Cutting service for 45° elbows from DN 15 up to DN 300, length acc. to EN 10253 or cut in the middle from 90° elbow.

Outside Ø mm	Wall thick-ness mm	D mm	T mm	F mm	The-oret. weight kg/pce.	Grade 1.4301 AISI 304 *)	Grade 1.4541 AISI 321 *)	Grade 1.4571 AISI 316Ti *)
70,0	2,0	70,0	2,0	92,0	0,47		▪	▪
76,1	2,0	76,1	2,0	95,0	0,62	▪	▪	▪
76,1	2,3	76,1	2,3	95,0	0,72		▪	▪[1)]
76,1	2,6	76,1	2,6	95,0	0,77			▪
76,1	2,9	76,1	2,9	95,0	0,88	▪	▪	
76,1	3,2	76,1	3,2	95,0	0,97			▪
84,0	2,0	84,0	2,0	120,0	0,77			▪
88,9	2,0	88,9	2,0	114,0	0,81	▪	▪	▪
88,9	2,3	88,9	2,3	114,0	0,94		▪	▪[1)]
88,9	2,6	88,9	2,6	114,0	1,02	▪	▪	▪
88,9	3,0	88,9	3,0	114,0	1,15	▪	▪	▪
88,9	3,2	88,9	3,2	114,0	1,22		▪	
101,6	3,0	101,6	3,0	133,0	1,56	▪		
104,0	2,0	104,0	2,0	150,0	1,20			▪
108,0	3,0	108,0	3,0	142,5	1,25			▪
114,3	2,0	114,3	2,0	152,0	1,35	▪	▪	▪
114,3	2,6	114,3	2,6	152,0	1,60	▪	▪	▪[1)]
114,3	2,9	114,3	2,9	152,0	1,95	▪	▪	▪
114,3	3,0	114,3	3,0	152,0	2,00			▪
114,3	3,6	114,3	3,6	152,0	2,50		▪	▪
129,0	2,0	129,0	2,0	187,5	1,87			▪
133,0	3,0	133,0	3,0	181,0	2,00			▪
139,7	2,0	139,7	2,0	190,0	2,06	▪		▪
139,7	2,6	139,7	2,6	190,0	2,56	▪	▪	▪[1)]
139,7	2,9	139,7	2,9	190,0	2,85	▪		
139,7	3,0	139,7	3,0	190,0	3,08		▪	▪
154,0	2,0	154,0	2,0	225,0	2,68			▪
159,0	3,0	159,0	3,0	216,0	3,00			▪
168,3	2,0	168,3	2,0	229,0	3,75	▪		▪
168,3	2,6	168,3	2,6	229,0	3,88	▪	▪	▪[1)]
168,3	3,0	168,3	3,0	229,0	4,47	▪	▪	▪
168,3	4,0	168,3	4,0	229,0	5,90			▪
204,0	2,0	204,0	2,0	300,0	4,75			▪
219,1	2,0	219,1	2,0	305,0	5,21	▪		▪
219,1	2,6	219,1	2,6	305,0	6,29			▪
219,1	3,0	219,1	3,0	305,0	7,52	▪	▪	▪[1)]
219,1	4,0	219,1	4,0	305,0	10,38			▪
254,0	2,0	254,0	2,0	375,0	7,41			▪

1) with AD2000 W2

Cutting service for 45° elbows from DN 15 up to DN 300, length acc. to EN 10253 or cut in the middle from 90° elbow.

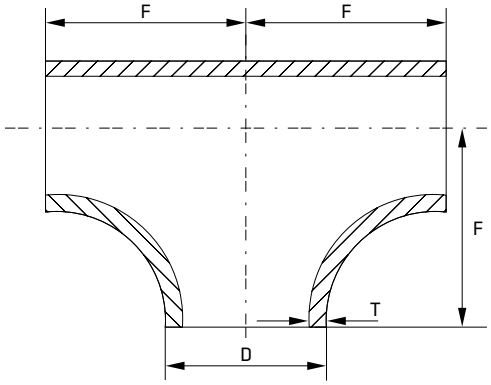
Outside Ø mm	Wall thick-ness mm	D mm	T mm	F mm	The-oret. weight kg/pce.	Grade 1.4301 AISI 304 *)	Grade 1.4541 AISI 321 *)	Grade 1.4571 AISI 316Ti *)
273,0	3,0	273,0	3,0	381,0	12,00	▪	▪	▪[1)]
273,0	4,0	273,0	4,0	381,0	16,30			▪
306,0	3,0	306,0	3,0	450,0	16,05			▪
323,9	3,0	323,9	3,0	487,0	17,31	▪	▪	▪
323,9	4,0	323,9	4,0	487,0	23,00			▪
355,6	3,0	355,6	3,0	533,0	22,30	▪	▪	▪
406,4	3,0	406,4	3,0	610,0	29,02	▪	▪	▪
406,4	4,0	406,4	4,0	610,0	38,10			▪
508,0	3,0	508,0	3,0	762,0	35,75			▪
508,0	4,0	508,0	4,0	762,0	59,28			▪
609,6	4,0	609,6	4,0	914,0	87,65			▪

1) with AD2000 W2

Cutting service for 45° elbows from DN 15 up to DN 300, length acc. to EN 10253 or cut in the middle from 90° elbow.

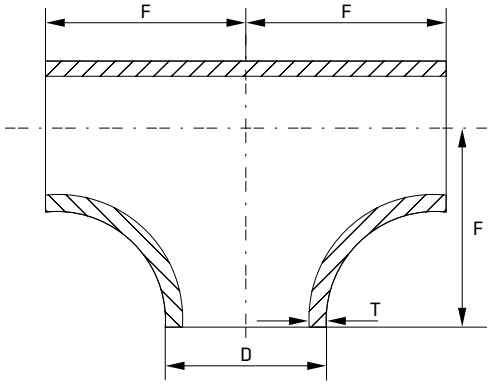
Outside Ø mm	Wall thick-ness mm	D mm	T mm	F mm	The-oret. weight kg/pce.	Grade 1.4539 AISI 904L *)
76,1	3,0	76,1	3,0	95,0	0,92	▪
139,7	3,0	139,7	3,0	190,0	3,08	▪
219,1	4,0	219,1	4,0	305,0	10,38	▪
273,0	4,0	273,0	4,0	381,0	16,30	▪
323,9	4,0	323,9	4,0	487,0	23,00	▪

Cutting service for 45° elbows from DN 15 up to DN 300, length acc. to EN 10253 or cut in the middle from 90° elbow.

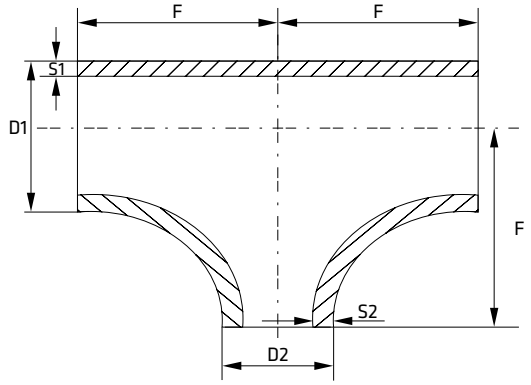


Outside Ø mm	Wall thick-ness mm	D mm	T mm	F mm	The-oret. weight kg/pce.	Grade 1.4571 AISI 316Ti *)
17,20	2,30	17,20	2,30	20	0,06	▪
21,30	1,60	21,30	1,60	25	0,08	▪
21,30	2,00	21,30	2,00	25	0,09	▪
21,30	2,90	21,30	2,90	25	0,12	▪
26,90	2,00	26,90	2,00	29	0,15	▪
33,70	2,00	33,70	2,00	38	0,22	▪
33,70	2,60	33,70	2,60	38	0,29	▪
42,40	2,00	42,40	2,00	48	0,34	▪
42,40	2,60	42,40	2,60	48	0,42	▪
48,30	2,00	48,30	2,00	57	0,47	▪
48,30	2,60	48,30	2,60	57	0,59	▪
60,30	2,00	60,30	2,00	64	0,64	▪
60,30	2,90	60,30	2,90	64	0,90	▪
76,10	2,90	76,10	2,90	76	1,35	▪
88,90	3,20	88,90	3,20	86	1,95	▪
114,30	3,60	114,30	3,60	105	3,30	▪

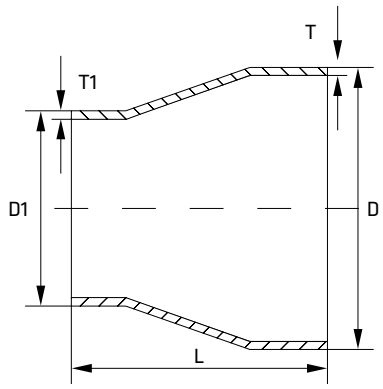
Outside Ø mm	Wall thick-ness mm	D mm	T mm	F mm	The-oret. weight kg/pce.	Grade 1.4462 UNS S31803 *) Duplex	Grade 1.4539 AISI 904L *)
21,34	2,11	21,34	2,11	25	0,10	▪	▪
21,34	2,77	21,34	2,77	25	0,08	▪	▪
26,67	2,11	26,67	2,11	29	0,13	▪	▪
26,67	2,87	26,67	2,87	29	0,18	▪	▪
33,40	2,77	33,40	2,77	38	0,24	▪	▪
33,40	3,38	33,40	3,38	38	0,28	▪	▪
33,40	4,55	33,40	4,55	38	0,47		▪
42,16	2,77	42,16	2,77	48	0,46	▪	▪
42,16	3,56	42,16	3,56	48	0,41	▪	▪
48,26	2,77	48,26	2,77	57	0,65	▪	▪
48,26	3,68	48,26	3,68	57	1,70	▪	▪
60,33	2,77	60,33	2,77	64	0,63	▪	▪
60,33	3,91	60,33	3,91	64	1,20	▪	▪
60,33	5,54	60,33	5,54	64	2,10	▪	▪
73,03	3,05	73,03	3,05	76	1,01	▪	▪
73,03	5,16	73,03	5,16	76	2,40	▪	▪
76,10	4,00	76,10	4,00	76	1,73	▪	▪
88,90	3,05	88,90	3,05	86	1,80	▪	▪
88,90	5,49	88,90	5,49	86	1,90	▪	▪
88,90	7,62	88,90	7,62	86	4,90		▪
114,30	3,05	114,30	3,05	105	2,70	▪	▪
114,30	6,02	114,30	6,02	105	4,13	▪	▪
168,30	7,11	168,30	7,11	143	9,73	▪	▪
219,10	8,18	219,10	8,18	178	23,20	▪	▪

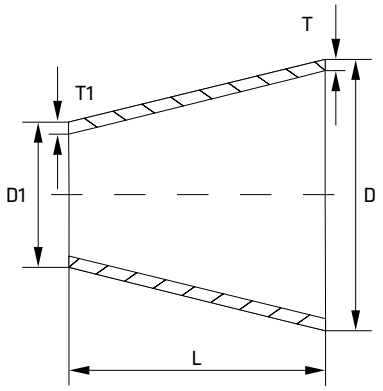


Outside Ø mm	Wall thick-ness mm	D mm	T mm	F mm	The-oret. weight kg/pce.	Grade 1.4541 AISI 321 *)	Grade 1.4571 AISI 316Ti *)
21,3	2,0	21,3	2,0	25	0,08	▪	▪
26,9	2,0	26,9	2,0	29	0,10	▪	▪
33,7	2,0	33,7	2,0	38	0,22	▪	▪
33,7	2,6	33,7	2,6	38	0,26		▪
42,4	2,0	42,4	2,0	48	0,34	▪	▪
42,4	2,6	42,4	2,6	48	0,42		▪
48,3	2,0	48,3	2,0	57	0,47	▪	▪
48,3	2,6	48,3	2,6	57	0,59		▪
54,0	2,0	54,0	2,0	61	0,48		▪
60,3	2,0	60,3	2,0	64	0,64	▪	▪
60,3	2,9	60,3	2,9	64	0,83		▪
70,0	2,0	70,0	2,0	76	0,70		▪
76,1	2,3	76,1	2,3	76	1,10	▪	▪
76,1	2,9	76,1	2,9	76	1,29		▪
84,0	2,0	84,0	2,0	82	0,94		▪
88,9	2,3	88,9	2,3	86	1,45	▪	▪
88,9	3,0	88,9	3,0	86	1,85		▪
104,0	2,0	104,0	2,0	98	1,39		▪
114,3	2,6	114,3	2,6	105	2,40	▪	▪
114,3	3,0	114,3	3,0	105	2,67		▪
129,0	2,0	129,0	2,0	115	2,24		▪
139,7	2,6	139,7	2,6	124	3,40	▪	▪
139,7	3,0	139,7	3,0	124	3,80		▪
154,0	2,0	154,0	2,0	143	4,50		▪
168,3	2,6	168,3	2,6	143	4,80	▪	▪
168,3	3,0	168,3	3,0	143	5,40		▪
219,1	3,0	219,1	3,0	178	7,50	▪	▪
219,1	4,0	219,1	4,0	178	12,70		▪
273,0	3,0	273,0	3,0	216	10,60		▪
323,9	3,0	323,9	3,0	254	15,00		▪



Outside Ø mm	Reduction Ø mm	D1 mm	S1 mm	D2 mm	S2 mm	F mm	Theoret. weight kg/pce.	Grade 1.4571 AISI 316Ti *)
33,7 x 2,0	26,9 x 1,6	33,7	2,0	26,9	1,6	38	0,22	▪
60,3 x 2,0	33,7 x 2,0	60,3	2,0	33,7	2,0	50	0,50	▪

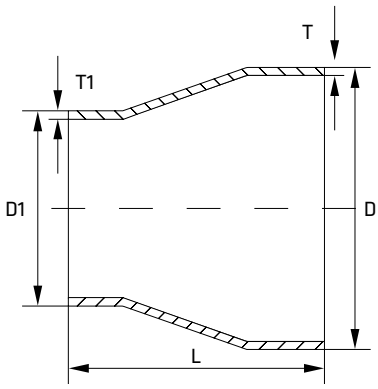


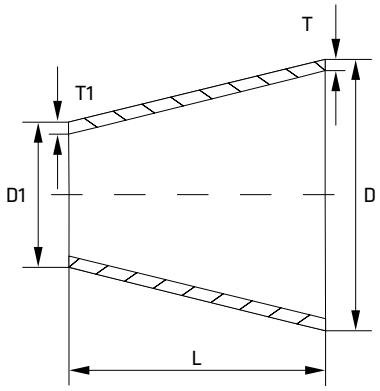


Size mm	Size mm	D mm	T mm	D1 mm	T1 mm	L mm	Theoret. weight kg/pce.	Grade 1.4571 AISI 316Ti *)
21,30 x 2,00	17,20 x 1,80	21,30	2,00	17,20	1,80	38	0,03	▪
26,90 x 2,00	21,30 x 2,00	26,90	2,00	21,30	2,00	38	0,06	▪
26,90 x 2,30	17,20 x 1,80	26,90	2,30	17,20	1,80	38	0,07	▪
33,70 x 2,00	21,30 x 1,60	33,70	2,00	21,30	1,60	51	0,08	▪
33,70 x 2,00	21,30 x 2,00	33,70	2,00	21,30	2,00	51	0,08	▪
33,70 x 2,00	26,90 x 2,00	33,70	2,00	26,90	2,00	51	0,08	▪
33,70 x 2,60	21,30 x 2,00	33,70	2,60	21,30	2,00	51	0,08	▪
33,70 x 2,60	21,30 x 2,30	33,70	2,60	21,30	2,30	51	0,10	▪
33,70 x 2,60	26,90 x 2,00	33,70	2,60	26,90	2,00	51	0,09	▪
33,70 x 2,60	26,90 x 2,30	33,70	2,60	26,90	2,30	51	0,10	▪
42,40 x 2,00	21,30 x 2,00	42,40	2,00	21,30	2,00	51	0,12	▪
42,40 x 2,00	26,90 x 2,00	42,40	2,00	26,90	2,00	51	0,12	▪
42,40 x 2,00	33,70 x 2,00	42,40	2,00	33,70	2,00	51	0,12	▪
42,40 x 2,60	21,30 x 2,00	42,40	2,60	21,30	2,00	51	0,15	▪
42,40 x 2,60	26,90 x 2,30	42,40	2,60	26,90	2,30	51	0,13	▪
42,40 x 2,60	33,70 x 2,60	42,40	2,60	33,70	2,60	51	0,13	▪
42,40 x 3,60	33,70 x 3,60	42,40	3,60	33,70	3,60	51	0,19	▪
48,30 x 2,00	33,70 x 2,00	48,30	2,00	33,70	2,00	64	0,18	▪
48,30 x 2,60	21,30 x 2,00	48,30	2,60	21,30	2,00	64	0,25	▪
48,30 x 2,60	26,90 x 2,30	48,30	2,60	26,90	2,30	64	0,17	▪
48,30 x 2,60	33,70 x 2,60	48,30	2,60	33,70	2,60	64	0,21	▪
48,30 x 2,60	42,40 x 2,60	48,30	2,60	42,40	2,60	64	0,21	▪
60,30 x 2,00	26,90 x 1,60	60,30	2,00	26,90	1,60	76	0,30	▪
60,30 x 2,00	33,70 x 2,00	60,30	2,00	33,70	2,00	76	0,30	▪
60,30 x 2,00	42,40 x 2,00	60,30	2,00	42,40	2,00	76	0,32	▪
60,30 x 2,00	48,30 x 2,00	60,30	2,00	48,30	2,00	76	0,30	▪
60,30 x 2,90	21,30 x 2,00	60,30	2,90	21,30	2,00	76	0,37	▪
60,30 x 2,90	26,90 x 2,30	60,30	2,90	26,90	2,30	76	0,37	▪
60,30 x 2,90	33,70 x 2,60	60,30	2,90	33,70	2,60	76	0,37	▪
60,30 x 2,90	42,40 x 2,60	60,30	2,90	42,40	2,60	76	0,34	▪

Size mm	Size mm	D mm	T mm	D1 mm	T1 mm	L mm	The-oret. weight kg/pce.	Grade 1.4571 AISI 316Ti *)
60,30 x 2,90	48,30 x 2,60	60,30	2,90	48,30	2,60	76	0,34	▪
76,10 x 2,90	33,70 x 2,60	76,10	2,90	33,70	2,60	89	0,53	▪
76,10 x 2,90	42,40 x 2,60	76,10	2,90	42,40	2,60	89	0,53	▪
76,10 x 2,90	48,30 x 2,60	76,10	2,90	48,30	2,60	89	0,50	▪
76,10 x 2,90	60,30 x 2,90	76,10	2,90	60,30	2,90	89	0,47	▪
88,90 x 3,20	33,70 x 2,60	88,90	3,20	33,70	2,60	89	0,74	▪
88,90 x 3,20	42,40 x 2,60	88,90	3,20	42,40	2,60	89	0,70	▪
88,90 x 3,20	48,30 x 2,60	88,90	3,20	48,30	2,60	89	0,68	▪
88,90 x 3,20	60,30 x 2,90	88,90	3,20	60,30	2,90	89	0,64	▪
88,90 x 3,20	76,10 x 2,90	88,90	3,20	76,10	2,90	89	0,64	▪
114,30 x 3,60	48,30 x 2,60	114,30	3,60	48,30	2,60	102	1,18	▪
114,30 x 3,60	60,30 x 2,90	114,30	3,60	60,30	2,90	102	1,10	▪
114,30 x 3,60	76,10 x 2,90	114,30	3,60	76,10	2,90	102	1,10	▪
114,30 x 3,60	88,90 x 3,20	114,30	3,60	88,90	3,20	102	1,00	▪
139,70 x 4,00	88,90 x 3,20	139,70	4,00	88,90	3,20	127	2,00	▪
139,70 x 4,00	114,30 x 3,60	139,70	4,00	114,30	3,60	127	1,80	▪
168,30 x 4,50	114,30 x 3,60	168,30	4,50	114,30	3,60	140	2,86	▪

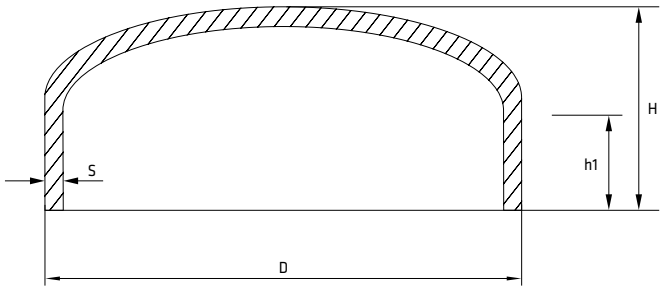
Size mm	Size mm	D mm	T mm	D1 mm	T1 mm	L mm	The-oret. weight kg/pce.	Grade 1.4462 UNS S31803 *)	Grade 1.4539 AISI 904L *)
33,40 x 3,38	21,34 x 2,77	33,40	3,38	21,34	2,77	51	0,13	▪	▪
33,40 x 3,38	26,67 x 2,87	33,40	3,38	26,67	2,87	51	0,13	▪	▪
42,16 x 2,77	21,34 x 2,11	42,16	2,77	21,34	2,11	51	0,16		▪
42,16 x 2,77	26,67 x 2,11	42,16	2,77	26,67	2,11	51	0,16		▪
42,16 x 2,77	33,40 x 2,77	42,16	2,77	33,40	2,77	51	0,15		▪
42,16 x 3,56	21,34 x 2,87	42,16	3,56	21,34	2,87	51	0,19		▪
42,16 x 3,56	26,67 x 2,87	42,16	3,56	26,67	2,87	51	0,21		▪
42,16 x 3,56	33,40 x 3,38	42,16	3,56	33,40	3,38	51	0,19		▪
48,26 x 2,77	26,67 x 2,11	48,26	2,77	26,67	2,11	64	0,22	▪	▪
48,26 x 2,77	33,40 x 2,77	48,26	2,77	33,40	2,77	64	0,22	▪	▪
48,26 x 2,77	42,16 x 2,77	48,26	2,77	42,16	2,77	64	0,28	▪	▪
48,26 x 3,68	26,67 x 2,87	48,26	3,68	26,67	2,87	64	0,28	▪	▪
48,26 x 3,68	33,40 x 3,38	48,26	3,68	33,40	3,38	64	0,28	▪	▪
48,26 x 3,68	42,16 x 3,56	48,26	3,68	42,16	3,56	64	0,28	▪	▪
60,33 x 2,77	33,40 x 2,77	60,33	2,77	33,40	2,77	76	0,35		▪
60,33 x 2,77	42,16 x 2,77	60,33	2,77	42,16	2,77	76	0,32	▪	▪
60,33 x 2,77	48,26 x 2,77	60,33	2,77	48,26	2,77	76	0,32	▪	▪
60,33 x 3,91	33,40 x 3,38	60,33	3,91	33,40	3,38	76	0,48	▪	▪
60,33 x 3,91	42,16 x 3,56	60,33	3,91	42,16	3,56	76	0,45	▪	▪
60,33 x 3,91	48,26 x 3,68	60,33	3,91	48,26	3,68	76	0,45	▪	▪
73,03 x 3,05	48,26 x 2,77	73,03	3,05	48,26	2,77	89	0,52	▪	▪
73,03 x 3,05	60,33 x 2,77	73,03	3,05	60,33	2,77	89	0,50	▪	
76,10 x 4,00	60,30 x 4,00	76,10	4,00	60,30	4,00	89	0,78		▪
88,90 x 3,00	73,10 x 3,00	88,90	3,00	73,10	3,00	89	0,52	▪	▪
88,90 x 3,05	48,26 x 2,77	88,90	3,05	48,26	2,77	89	0,70	▪	▪
88,90 x 3,05	60,33 x 2,77	88,90	3,05	60,33	2,77	89	0,60	▪	▪
88,90 x 5,49	48,26 x 3,68	88,90	5,49	48,26	3,68	89	1,20	▪	▪
88,90 x 5,49	60,33 x 3,91	88,90	5,49	60,33	3,91	89	1,06	▪	▪
88,90 x 5,49	73,03 x 5,16	88,90	5,49	73,03	5,16	89	1,06	▪	▪
114,30 x 3,05	60,33 x 2,77	114,30	3,05	60,33	2,77	102	0,98	▪	▪
114,30 x 3,05	73,03 x 3,05	114,30	3,05	73,03	3,05	102	0,95	▪	▪
114,30 x 3,05	88,90 x 3,05	114,30	3,05	88,90	3,05	102	0,90	▪	▪
114,30 x 4,00	88,90 x 4,00	114,30	4,00	88,90	4,00	102	1,10		▪
114,30 x 6,02	60,33 x 3,91	114,30	6,02	60,33	3,91	102	1,90	▪	▪
114,30 x 6,02	73,03 x 5,16	114,30	6,02	73,03	5,16	102	1,85		▪
114,30 x 6,02	88,90 x 5,49	114,30	6,02	88,90	5,49	102	1,75	▪	▪
168,26 x 7,11	88,90 x 5,49	168,26	7,11	88,90	5,49	140	3,55	▪	▪
168,26 x 7,11	114,30 x 6,02	168,26	7,11	114,30	6,02	140	4,50	▪	▪
219,10 x 8,18	114,30 x 6,02	219,10	8,18	114,30	6,02	152	7,60	▪	▪
219,10 x 8,18	168,26 x 7,11	219,10	8,18	168,26	7,11	152	6,80	▪	▪



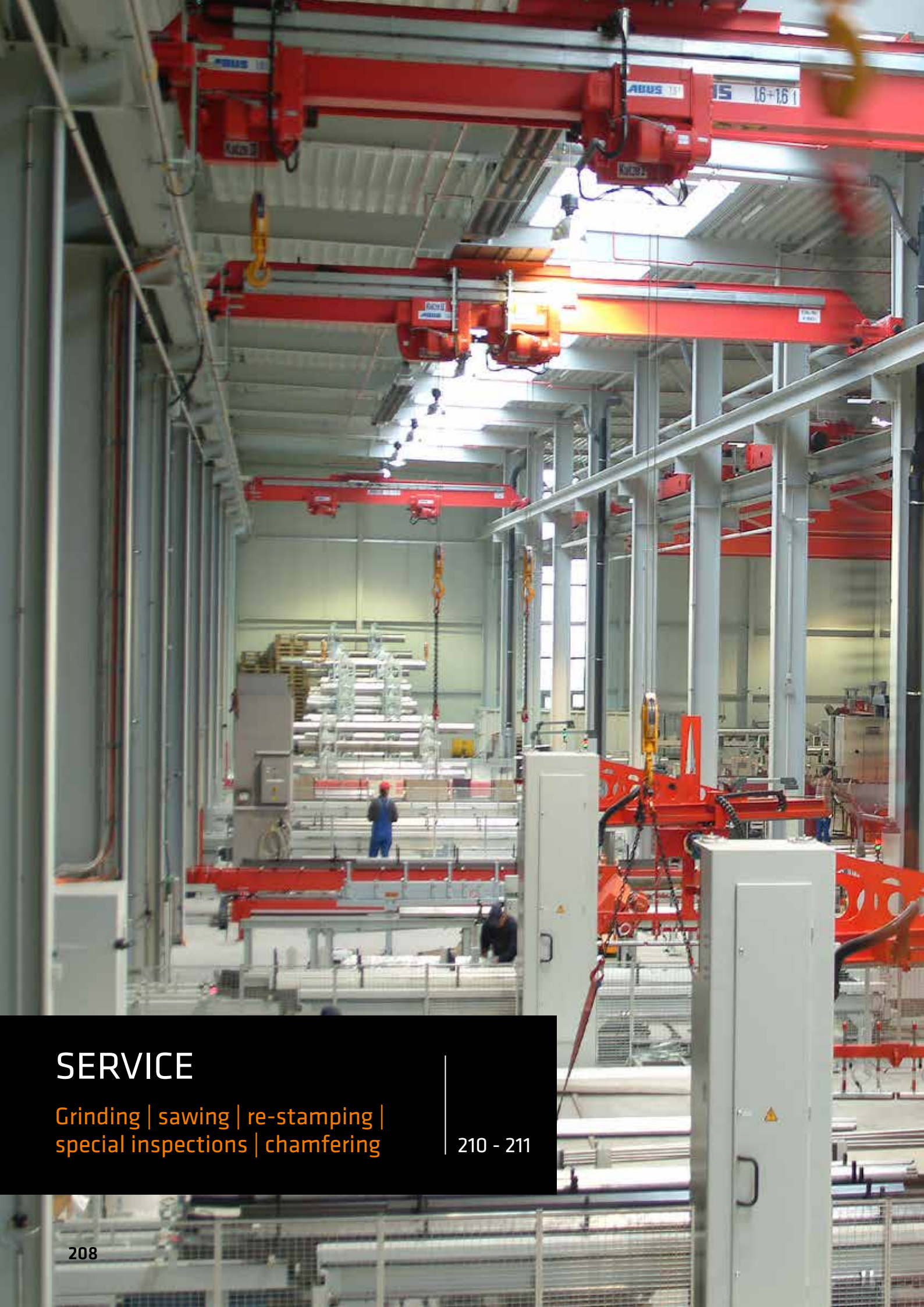


Size mm	Size mm	D mm	T mm	D1 mm	T1 mm	L mm	Theoret. weight kg/pce.	Grade 1.4541 AISI 321 *)	Grade 1.4571 AISI 316Ti *)
21,3 x 2,0	17,2 x 1,8	21,3	2,0	17,2	1,8	38	0,05		▪
26,9 x 1,6	17,2 x 1,6	26,9	1,6	17,2	1,6	38	0,05	▪	▪
26,9 x 1,6	21,3 x 1,6	26,9	1,6	21,3	1,6	38	0,04	▪	▪
26,9 x 2,0	21,3 x 2,0	26,9	2,0	21,3	2,0	38	0,06		▪
33,7 x 2,0	17,2 x 1,6	33,7	2,0	17,2	1,6	51	0,10	▪	▪
33,7 x 2,0	21,3 x 1,6	33,7	2,0	21,3	1,6	51	0,08	▪	▪
33,7 x 2,0	21,3 x 2,0	33,7	2,0	21,3	2,0	51	0,10		▪
33,7 x 2,0	26,9 x 1,6	33,7	2,0	26,9	1,6	51	0,08		▪
33,7 x 2,0	26,9 x 2,0	33,7	2,0	26,9	2,0	51	0,07	▪	▪
33,7 x 2,6	21,3 x 2,0	33,7	2,6	21,3	2,0	51	0,10		▪
42,4 x 2,0	21,3 x 1,6	42,4	2,0	21,3	1,6	51	0,12	▪	▪
42,4 x 2,0	26,9 x 1,6	42,4	2,0	26,9	1,6	51	0,12	▪	▪
42,4 x 2,0	33,7 x 2,0	42,4	2,0	33,7	2,0	51	0,12	▪	▪
42,4 x 3,6	33,7 x 3,6	42,4	3,6	33,7	3,6	51	0,19		▪
48,3 x 2,0	21,3 x 1,6	48,3	2,0	21,3	1,6	64	0,17	▪	▪
48,3 x 2,0	21,3 x 2,0	48,3	2,0	21,3	2,0	64	0,17		▪
48,3 x 2,0	26,9 x 1,6	48,3	2,0	26,9	1,6	64	0,17	▪	▪
48,3 x 2,0	26,9 x 2,0	48,3	2,0	26,9	2,0	64	0,17	▪	▪
48,3 x 2,0	33,7 x 2,0	48,3	2,0	33,7	2,0	64	0,16	▪	▪
48,3 x 2,0	42,4 x 2,0	48,3	2,0	42,4	2,0	64	0,16	▪	▪
48,3 x 2,6	26,9 x 2,0	48,3	2,6	26,9	2,0	64	0,17		▪
48,3 x 2,6	33,7 x 2,6	48,3	2,6	33,7	2,6	64	0,21		▪
60,3 x 2,0	21,3 x 1,6	60,3	2,0	21,3	1,6	76	0,29	▪	▪
60,3 x 2,0	21,3 x 2,0	60,3	2,0	21,3	2,0	76	0,30		▪
60,3 x 2,0	26,9 x 1,6	60,3	2,0	26,9	1,6	76	0,20	▪	▪
60,3 x 2,0	26,9 x 2,0	60,3	2,0	26,9	2,0	76	0,23	▪	
60,3 x 2,0	33,7 x 2,0	60,3	2,0	33,7	2,0	76	0,25	▪	▪
60,3 x 2,0	42,4 x 2,0	60,3	2,0	42,4	2,0	76	0,23	▪	▪
60,3 x 2,0	48,3 x 2,0	60,3	2,0	48,3	2,0	76	0,23	▪	▪

Size mm	Size mm	D mm	T mm	D1 mm	T1 mm	L mm	The-oret. weight kg/pce.	Grade 1.4541 AISI 321 *)	Grade 1.4571 AISI 316Ti *)
60,3 x 2,6	33,7 x 2,6	60,3	2,6	33,7	2,6	76	0,24		▪
76,1 x 2,3	33,7 x 2,0	76,1	2,3	33,7	2,0	89	0,42	▪	▪
76,1 x 2,3	42,4 x 2,0	76,1	2,3	42,4	2,0	89	0,42	▪	▪
76,1 x 2,3	48,3 x 2,0	76,1	2,3	48,3	2,0	89	0,40	▪	▪
76,1 x 2,3	60,3 x 2,0	76,1	2,3	60,3	2,0	89	0,39	▪	▪
88,9 x 2,3	33,7 x 2,0	88,9	2,3	33,7	2,0	89	0,45	▪	▪
88,9 x 2,3	42,4 x 2,0	88,9	2,3	42,4	2,0	89	0,50	▪	▪
88,9 x 2,3	48,3 x 2,0	88,9	2,3	48,3	2,0	89	0,49	▪	▪
88,9 x 2,3	60,3 x 2,0	88,9	2,3	60,3	2,0	89	0,46	▪	▪
88,9 x 2,3	76,1 x 2,3	88,9	2,3	76,1	2,3	89	0,46	▪	▪
114,3 x 2,6	33,7 x 2,0	114,3	2,6	33,7	2,0	102	0,85	▪	▪
114,3 x 2,6	42,4 x 2,0	114,3	2,6	42,4	2,0	102	0,85	▪	
114,3 x 2,6	48,3 x 2,0	114,3	2,6	48,3	2,0	102	0,85	▪	▪
114,3 x 2,6	60,3 x 2,0	114,3	2,6	60,3	2,0	102	0,80	▪	▪
114,3 x 2,6	76,1 x 2,3	114,3	2,6	76,1	2,3	102	0,78	▪	▪
114,3 x 2,6	88,9 x 2,3	114,3	2,6	88,9	2,3	102	0,72	▪	▪
114,3 x 2,6	88,9 x 2,6	114,3	2,6	88,9	2,6	102	0,82		▪
114,3 x 3,6	88,9 x 3,2	114,3	3,6	88,9	3,2	102	1,00		▪
139,7 x 2,6	60,3 x 2,0	139,7	2,6	60,3	2,0	127	1,40	▪	▪
139,7 x 2,6	76,1 x 2,3	139,7	2,6	76,1	2,3	127	1,40	▪	▪
139,7 x 2,6	88,9 x 2,3	139,7	2,6	88,9	2,3	127	1,35	▪	▪
139,7 x 2,6	114,3 x 2,6	139,7	2,6	114,3	2,6	127	1,30	▪	▪
139,7 x 2,9	88,9 x 2,3	139,7	2,9	88,9	2,3	127	1,50	▪	
139,7 x 2,9	114,3 x 2,6	139,7	2,9	114,3	2,6	127	1,40	▪	
168,3 x 2,6	60,3 x 2,0	168,3	2,6	60,3	2,0	140	1,90	▪	▪
168,3 x 2,6	76,1 x 2,3	168,3	2,6	76,1	2,3	140	1,80	▪	▪
168,3 x 2,6	88,9 x 2,3	168,3	2,6	88,9	2,3	140	1,75	▪	▪
168,3 x 2,6	114,3 x 2,6	168,3	2,6	114,3	2,6	140	1,70	▪	▪
168,3 x 2,6	139,7 x 2,6	168,3	2,6	139,7	2,6	140	1,70	▪	▪
219,1 x 2,9	114,3 x 2,6	219,1	2,9	114,3	2,6	152	2,25		▪
219,1 x 2,9	139,7 x 2,6	219,1	2,9	139,7	2,6	152	2,35		▪
219,1 x 2,9	168,3 x 2,6	219,1	2,9	168,3	2,6	152	2,25		▪
273,0 x 3,0	168,3 x 3,0	273,0	3,0	168,3	3,0	178	3,80		▪
273,0 x 3,0	219,1 x 3,0	273,0	3,0	219,1	3,0	178	3,60		▪
323,9 x 3,0	219,1 x 3,0	323,9	3,0	219,1	3,0	203	5,50		▪
323,9 x 3,0	273,0 x 3,0	323,9	3,0	273,0	3,0	203	5,00		▪



Outside Ø mm	Wall thick-ness mm	D mm	S mm	H mm	h1 mm	The-oret. weight kg/pce.	Grade 1.4571 AISI 316Ti *)
21,3	2,0	21,3	2,0	15	10	0,02	▪
26,9	2,0	26,9	2,0	17	11	0,02	▪
33,7	2,0	33,7	2,0	18	10	0,04	▪
42,4	2,0	42,4	2,0	20	11	0,05	▪
48,3	2,0	48,3	2,0	20	10	0,06	▪
60,3	2,0	60,3	2,0	25	12	0,09	▪
76,1	2,5	76,1	2,5	27	11	0,17	▪
88,9	3,0	88,9	3,0	39	20	0,31	▪
114,3	3,0	114,3	3,0	44	20	0,48	▪
139,7	3,0	139,7	3,0	49	20	0,67	▪
168,3	3,0	168,3	3,0	54	20	0,90	▪
219,1	3,0	219,1	3,0	64	20	1,48	▪
273,0	3,0	273,0	3,0	74	20	2,24	▪
323,9	3,0	323,9	3,0	84	20	3,09	▪
406,4	4,0	406,4	4,0	86	41	6,50	▪
508,0	4,0	508,0	4,0	157	51	9,80	▪



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Grinding | sawing | re-stamping |
special inspections | chamfering

210 - 211


BUS 3,2+3,2t

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Our services include the areas:

Cutting
- Cut ready for assembly
- Mitre cuts and double-mitre cuts from 30° to 150°
- Bundle cuts
- Fix lengths
- Coplanar cuts
- Precision cuttings with tight tolerances

Processing
- DIN 2559 and DIN EN ISO 9692-1 or ANSI B 16.25 welded joint preparation on seamless and welded round pipes and tubes
- Conic Whitworth thread for 1/2‘‘ up to 2‘‘ male threads
- Adapted wall thicknesses to seamless and welded round tubes, flanges, concentric reducers, caps and welding collars

Refinement
- Grinding, polishing, mirror polishing, brushing. From matt- to mirror-finished. On flat and circular grinding machines.
- Glass bead blasting

Testing
- Incoming goods inspection
- US testing of the wall thickness
- Spectrometer tests
- Ferrite testing
- Certifications
- Special inspections
- TÜV authorisation for re-stamping

Packing
- In wooden boxes and crates
- Seamless and welded round pipes and tubes with plastic caps
- In foil or bubble wrap
- Customer-specific markings and labelling
- Refined surfaces covered with laser film

Our quality claim is above the normal standard. It starts with the grade of our products and it includes our whole company. For this reason we implemented a comprehensive quality management system many years ago for which we have received the DIN EN ISO 9001 certificate.

International grade comparison

Grade	DIN/DIN EN	ASME/AISI [1]	UNS [2]	SS [3]	AFNOR [4]	BS [5]
1.4006	X12 Cr 13	410	S41000	2302	Z 10 C 13	410 S 21
1.4021	X20 Cr 13	420	S42000	2303	Z 20 C 13	420 S 37
1.4028	X30 Cr 13	420F	S42020	2304	Z 30 C 13	420 S 45
1.4034	X46 Cr 13	420	S42000	(2304)	Z 40 C 14	(420 S 45)
1.4057	X17 CrNi 16-2	431	S43100	2321	Z 15 Cn 16.02	431 S 29
1.4104	X14 CrMoS 17	430F	S43020	2383	Z 13 CF 17	(441 S 29)
1.4112	X90 CrMoV 18	440B	S44003			
1.4122	X39 CrMo 17-1	440B	S44003			
1.4301	X5 CrNi 18-10	304	S30400	2332	Z 6 CN 18.09	304 S 15
1.4305	X8 CrNiS 18-9	303	S30300	2346	Z 8 CNF 18.09	303 S 31
1.4306	X2 CrNi 19-11	304L	S30403	2352	Z 2 CN 18.10	304 S 11
1.4307	X2 CrNi 18-9	304L	S30403	2352	Z 3 CN 18.10	304 S 11
1.4313	X3 CrNiMo 13-4	CA 6-NM		2384	Z 4 CND 13.04 M	425 C 11
1.4401	X5 CrNiMo 17-12-2	316	S31600	2347	Z 7 CND 17.12.02	316 S 31
1.4404	X2 CrNiMo 17-12-2	316L	S31603	2348	Z 3 CND 18.12.02	316 S 11
1.4408	GX5 CrNiMo 19-11-2	316				
1.4410	X2 CrNiMoN 25-7-4	F53	S32750	2328	Z 3 CND 25.07 Az	
1.4418	X4 CrNiMo 16-5-1			2387	Z 6 CND 16.05.01	
1.4435	X2 CrNiMo 18-14-3	316L	S31603	2353	Z 3 CND 18.14.03	316 S 11
1.4438	X2 CrNiMo 18-15-4	317L	S31703	2367	Z 3 CND 19.15.04	317 S 12
1.4439	X2 CrNiMoN 17-13-5	317LMN				
1.4460	X3 CrNiMoN 27-5-2	329	S32900	2324	Z 5 CND 27.05.Az	
1.4462	X2 CrNiMoN 22-5-3		S31803	2377	(Z 5 CNDU 21.08)	
1.4501	X2 CrNiMoCuWN 25-7-4	F55	S32760		Z 3 CND 25.06 Az	
1.4529	X1 NiCrMoCuN 25-20-7		N08926			
1.4539	X1 NiCrMoCu 25-20-5	904L	N08904	2562	Z 1 NCDU 25.20	
1.4541	X6 CrNiTi 18-10	321	S32100	2337	Z 6 CNT 18.10	321 S 31
1.4542	X5 CrNiCuNb 16-4	630	S17400		Z 7 CNU 15.05	
1.4563	X1 NiCrMoCu 31-27-4		N08028	2584	Z 2 NCDU 31.27	
1.4571	X6 CrNiMoTi 17-12-2	316Ti	S31635	2350	Z 6 CNDT 17.12	320 S 31
1.4713	X10 CrAlSi 7				Z 8 CA 7	
1.4742	X10 CrAlSi 18				Z 10 CAS 18	
1.4762	X10 CrAlSi 25	446	(S44600)	(2320)	Z 10 CAS 18	
1.4828	X15 CrNiSi 20-12	309	(S30900)		Z 15 CNS 20.10	309 S 24
1.4841	X15 CrNiSi 25-21	314	S31400		Z 12 CNS 25.20	314 S 25
1.4845	X8 CrNiSi 25-21	310S/310H	S31008	2361	Z 12 CN 25.20	310 S 24
1.4876	X10 NiCrAlTi 32-21	B163			Z 8 NC 32.21	3076 NA 15 H
1.4878	X8 CrNiTi 18-10	321H	S32100	2337	Z 6 CNT 18.12	321 S 51
1.4923	X22 CrMoV 12-1					

The German grades and their (international) counterparts meet different standards, so that some of them cannot be compared to each other. The interchangeability of the compared grades has to be decided individually.

[1] AISI = American Iron and Steel Institute
ASME = American Society for Mechanical Engineers
[2] UNS = Unified Numbering Systems
[3] SS = Swedish Standard
[4] AFNOR = Association Française de Normalisation
[5] BS = British Standard

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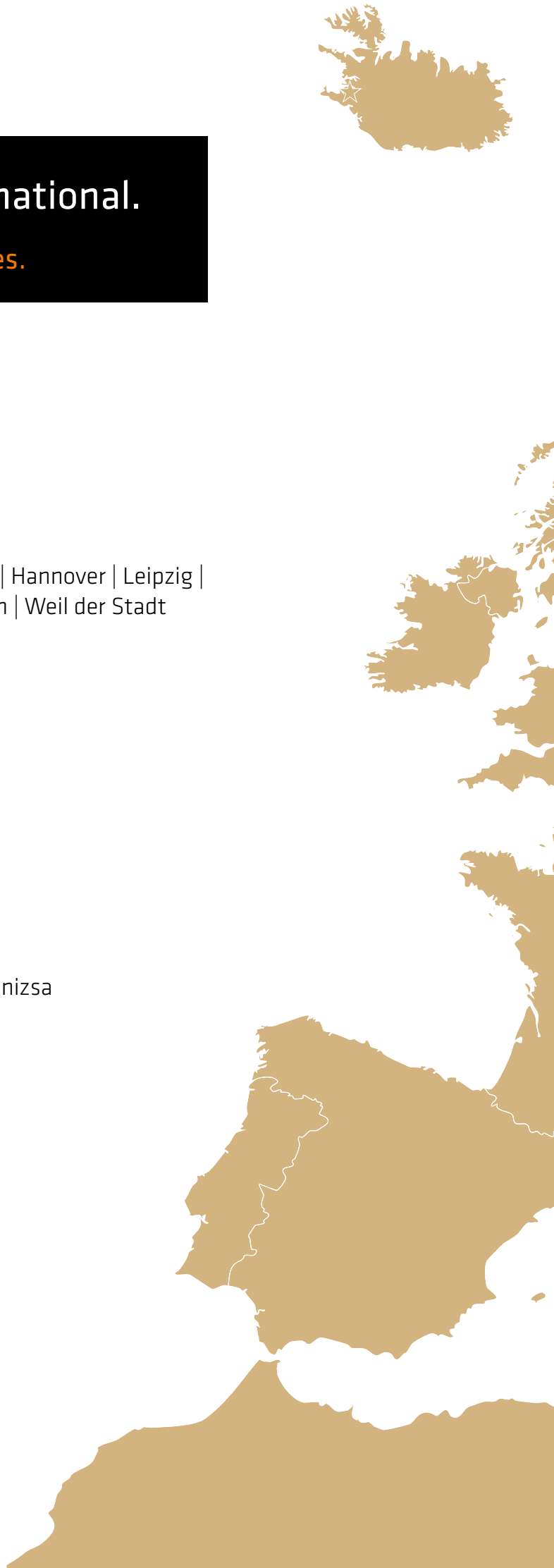

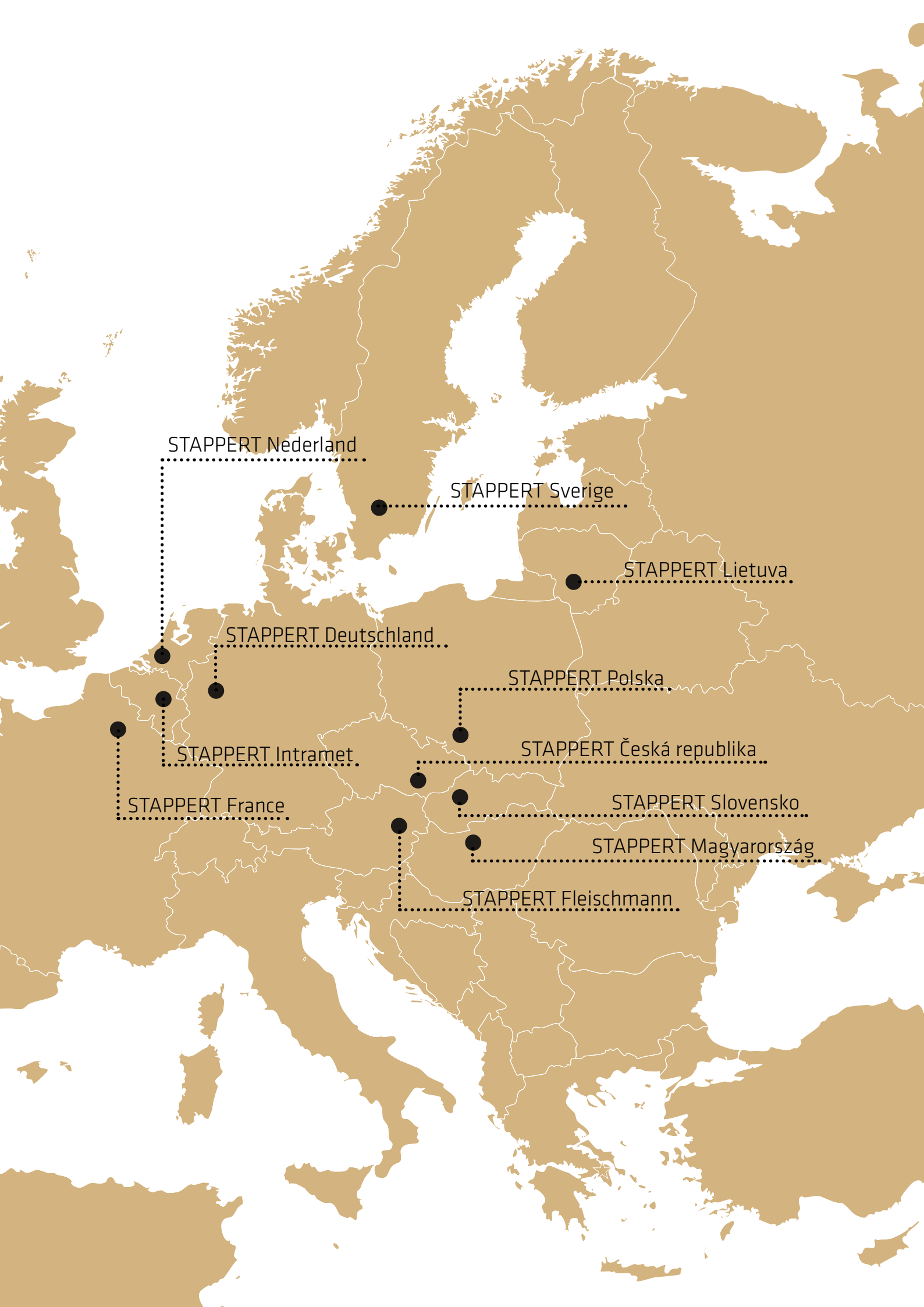
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STAPPERT | ČESKÁ REPUBLIKA

STAPPERT Česká republika spol. s r.o.
Otmarov 57
66457 Měnín
CZECH REPUBLIC
T +420 544423911
F +420 547230363
ceskarepublika@stappert.biz
www.stappert.biz/ceskarepublika

Praha
U Elektry 650/2
19800 Praha 9-Hloubětín
CZECH REPUBLIC
T +420 266610308
F +420 266610386
ceskarepublika@stappert.biz
www.stappert.biz/ceskarepublika

STAPPERT brand

STAPPERT Deutschland GmbH
Willstätterstraße 13
40549 Düsseldorf
GERMANY
T +49 211 5279-0
F +49 211 5279-177
deutschland@stappert.biz
www.stappert.biz/deutschland

STAPPERT Fleischmann GmbH
Gewerbepark B17/I/Objekt 1
2524 Teesdorf
AUSTRIA
T +43 2253 90313-0
F +43 2253 90313-600
fleischmann@stappert.biz
www.stappert.biz/fleischmann

STAPPERT France S.A.S.
13, Rue Charlemagne-BP 21
02201 Soissons Cedex
FRANCE
T +33 3 23 73 50 00
F +33 3 23 73 50 10
france@stappert.biz
www.stappert.biz/france

STAPPERT Intramet SA
Rue du Parc Industriel, 5
4480 Engis
BELGIUM
T +32 4 275 82 11
F +32 4 275 82 90
intramet@stappert.biz
www.stappert.biz/intramet

UAB STAPPERT Lietuva
R. Kalantos g.49B
52303 Kaunas
LITHUANIA
T +370 37 473509
F +370 37 373281
lietuva@stappert.biz
www.stappert.biz/lietuva

STAPPERT Magyarország Kft.
Rétifarkas utca 1.
1172 Budapest
HUNGARY
T +36 1 4342424
F +36 1 4342442
magyarorszag@stappert.biz
www.stappert.biz/magyarorszag

STAPPERT Nederland BV
Bagijnhof 60 2e
3311 KE Dordrecht
THE NETHERLANDS
T +31 78 6117150
F +31 78 6117160
nederland@stappert.biz
www.stappert.biz/nederland

STAPPERT Polska Sp. z o.o.
ul. A. Gaudiego 18
44-109 Gliwice
POLAND
Tel. +48 32 3447300
Fax +48 32 3447375
polska@stappert.biz
www.stappert.biz/polska

STAPPERT Slovensko a.s.
Šimonovská 37
97271 Nováky
SLOVAKIA
T +421 46 51834-20
F +421 46 51834-30
slovensko@stappert.biz
www.stappert.biz/slovensko

STAPPERT Sverige AB
Gamla Slätthultsvägen 3
34334 Älmhult
SWEDEN
T +46 476 48550
F +46 476 48560
sverige@stappert.biz
www.stappert.biz/sverige

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