Precision feeler gage and calibrated shim steel




h+s - your partner for precision

h+s offers an extensive range of precision feeler gages and shim steel which covers all product and application needs. All products can be supplied quickly and reliably from our large stock, small quantities as well as bulk quantities.
For products not shown in our range please contact our special order service.
Laser cut shims can be manufactured according to your drawings or CAD-files in all available thickness between 0.01 and 4.00 mm.

Rolled to precise thickness tolerances

The thickness tolerance of h+s precision shim foil meets the International Standard T3 (Stainless steel with width 12.7 mm and 600 mm according to DIN EN 10 258).
These tolerances are even closer than required by DIN 1544 / DIN EN 10 140. The technical information table on page 10 gives information on absolute permissible deviation on thickness.

High tensile strength due to high quality alloys

Our precision products are manufactured of High Carbon Steels 1.1274 (1095) and 1.2003 (1075), Stainless steels 1.4034 (420) and 1.4310 (AISI 301) as well as Brass 2.0321 (UNS 27 200). These alloys were carefully selected to obtain a high tensile strength.

More than 500 products available from stock

A close contact to our customers gives us an insight into their needs. As a result we stock now many non-standard thickness between 0.10 and 0.30 mm in stainless steel AISI 301. We also offer hardened stainless steel 1.4034 in thicknesses between 1.00 and 3.00 mm.
h+s supplies more than 60 different thicknesses from 0.003 mm (0.00012") and 4.0 mm (0.157") in the following manner:

- Up to 0.06 mm in steps of 0.005 mm
- Up to 0.30 mm in steps of 0.01 mm
- Up to 1.00 mm in steps of 0.05 mm
- Up to 2.00 mm in steps of 0.10 mm
- Additionally 2.50, 3.00 and 4.00 mm (3.50 mm upon request)



Quality inspection

- During manufacturing continuous inspection ensures our close tolerances are met all times.
- Product information and product batch are marked on the h+s label. The material can be traced back to the cast. In addition to that most strips are marked with thickness and production batch.

Individual sizes according to your needs

We can supply you with strips and flat sheets in all widths up to 300 mm (partly up to 600 mm) in carbon steel, stainless steels and brass. Should you require a product not shown in our range please contact our special order service. With our expertise we can meet your special requirements for non-standard products.

Laser cut parts made from precision shim foils

h+s offers a service to supply product manufactured from precision foil. Laser cut parts can be manufactured to your drawings or CAD-files. Parts can be supplied in all alloys from 0.01 to 5.00 mm. Examples are shown on page 9.

Competitive prices for precision high quality products

Compare our products!
h+s precision foils offer a good value at high quality and precision. Please ask for availability and price if you need a larger amount in one size.




PRECISION FEELER GAGE STOCK AND SHIM STOCK

Available Sizes: Box or coil precision feeler gauge steel or meter

• Carbon steel 1.1274
• Brass 2.0321
• Stainless steel 1.4310
– Not available

Quantity:	1 m	2 m	5 m	10 m	5 m	5 m	5 m	1 m	5 m	5 m	5 m	5 m	1 m	1 m	5 m
Width:	12.7	12.7	12.7	12.7	6	25	50	300 - 305	12.7	50	100	150	300 - 305	600 - 625	150
	C-steel	C-steel	C-steel	C-steel	C-steel	C-steel	C-steel	C-steel	CrNi-Steel	CrNi-Steel	CrNi-Steel	CrNi-Steel	CrNi-Steel	CrNi-Steel	Brass
Thickness:	1.1274	1.1274	1.1274	1.1274	1.1274	1.1274	1.1274	1.1274	1.4310	1.4310	1.4310	1.4310	1.4310	1.4310	2.0321
0.003	-	-	-	-	-	-	-	-	-	u.request*	-	-	-	-	-
0.005	•	•	•	•	-	-	-	-	•	•	-	-	-	-	-
0.01	•	•	•	•	-	•	-	-	•	•	•	-	•	-	•
0.015	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-
0.02	•	•	•	•	-	•	-	-	•	•	•	-	•	-	-
0.025	-	-	-	-	-	-	-	-	-	-	-	•	-	-	•
0.03	•	•	•	•	-	•	•	-	•	-	•	-	•	-	-
0.035	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-
0.04	•	•	•	•	-	•	•	-	•	-	•	-	•	-	-
0.045	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-
0.05	•	•	•	•	•	•	•	-	•	•	•	•	•	•	•
0.055	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-
0.06	•	•	•	•	-	•	•	-	•	-	•	-	•	-	-
0.07	•	•	•	•	-	•	•	-	•	-	•	-	•	-	-
0.075	-	-	-	-	-	-	-	-	-	-	-	•	-	-	•
0.08	•	•	•	•	•	•	•	-	•	-	•	-	•	-	-
0.09	•	•	•	•	-	•	•	-	•	-	•	-	•	-	-
0.10	•	•	•	•	•	•	•	u.request*	•	•	•	•	•	•	•
0.11	-	-	-	-	-	-	-	-	•	-	•	-	-	-	-
0.12	•	•	•	•	•	-	•	-	-	-	•	-	•	-	-
0.13	-	-	-	-	-	-	-	-	•	-	•	-	-	-	-
0.14	-	-	•	-	-	-	-	-	-	-	-	-	u.request*	-	-
0.15	•	•	•	•	•	•	•	u.request*	•	•	•	•	•	•	•
0.16	-	-	•	-	-	-	-	-	•	-	•	-	-	-	-
0.17	-	-	-	-	-	-	-	-	•	-	•	-	-	-	-
0.18	•	•	•	•	•	-	•	-	•	-	-	-	-	-	-
0.19	-	-	-	-	-	-	-	-	•	-	•	-	-	-	-
0.20	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
0.21	-	-	-	-	-	-	-	-	•	-	u.request*	-	-	-	-
0.22	-	-	-	-	-	-	-	-	•	-	•	-	-	-	-
0.23	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-
0.24	-	-	•	-	-	-	-	-	•	-	•	-	-	-	-
0.25	•	•	•	•	•	•	•	u.request*	•	•	•	•	•	•	•
0.26	-	-	•	-	-	-	-	-	•	-	•	-	-	-	-
0.27	-	-	•	-	-	-	-	-	•	-	u.request*	-	-	-	-
0.28	-	-	•	-	-	-	-	-	•	-	•	-	-	-	-
0.29	-	-	-	-	-	-	-	-	•	-	u.request*	-	-	-	-
0.30	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
0.35	•	•	•	•	-	-	•	-	-	-	•	-	u.request*	-	-
0.40	•	•	•	•	•	•	•	•	•	•	•	•	u.request*	•	•
0.45	•	•	•	•	-	-	•	-	•	-	•	-	-	-	-
0.50	•	•	•	•	•	•	•	•	•	•	•	•	u.request*	•	•
0.55	•	•	•	•	-	-	-	-	-	-	•	-	-	-	-
0.60	•	•	•	•	-	•	•	•	•	•	•	•	-	-	•
0.65	•	•	•	•	-	-	-	-	-	-	•	-	-	-	-
0.70	•	•	•	•	-	•	•	•	•	•	•	•	-	-	•
0.75	•	•	•	•	-	-	-	-	-	-	•	-	-	-	-
0.80	•	•	•	•	-	•	•	•	•	•	•	•	-	-	•
0.85	•	•	•	•	-	-	-	-	-	-	•	-	-	-	-
0.90	•	•	•	•	-	•	•	-	•	•	•	•	-	-	•
0.95	•	•	•	•	-	-	-	-	-	-	•	-	-	-	-
1.00	•	•	•	•	-	•	•	•	•	•	•	•	-	-	•
1.10	•	•	•	•	-	-	-	-	-	-	-	-	-	-	-
1.20	•	•	•	•	-	-	-	-	-	-	-	-	-	-	-
1.30	•	•	•	•	-	-	-	-	-	-	-	-	-	-	-
1.40	•	•	•	•	-	-	-	-	-	-	-	-	-	-	-
1.50	•	•	•	•	-	-	-	-	-	-	-	-	-	-	-
1.60	•	•	•	•	-	-	-	-	-	-	-	-	-	-	-
1.70	•	•	•	•	-	-	-	-	-	-	-	-	-	-	-
1.80	•	•	•	•	-	-	-	-	-	-	-	-	-	-	-
1.90	•	•	•	•	-	-	-	-	-	-	-	-	-	-	-
2.00	•	•	•	•	-	-	-	-	-	-	-	-	-	-	-

*please contact us for availability and sizes




FLAT SHEETS AND ASSORTMENTS

Available Sizes: Package or piece

• Carbon Steel 1.1274
• Stainless Steel 1.4310
• Carbon Steel 1.2003
• Brass 2.0321
• Stainless Steel 1.4034
– Not available

Quantity:	10 pieces	10 pieces	1 piece	1 piece	5 pieces	5 pieces	1 piece	1 piece	1 piece	5 pieces
Size:	25 x 300	50 x 300	320 x 1000	320 x 1000	100 x 500	150 x 500	250 x 1000	ca. 300 x 1000	ca. 600 x 1000	150 x 500
	C-Steel	C-Steel	C-Steel	Cr-Steel	CrNi-Steel	CrNi-Steel	CrNi-Steel	CrNi-Steel	CrNi-Steel	Brass
Thickness:	1.1274	1.1274	1.2003	1.4034	1.4310	1.4310	1.4310	1.4310	1.4310	2.0321
0.003	-	-	-	-	-	-	-	-	-	-
0.005	-	-	-	-	-	-	-	-	-	-
0.01	•	•	-	-	•	-	-	-	-	•
0.015	-	-	-	-	•	-	-	-	-	-
0.02	•	•	-	-	•	-	-	-	-	-
0.025	-	-	-	-	-	•	-	-	-	•
0.03	•	•	-	-	•	-	-	-	-	-
0.035	-	-	-	-	•	-	-	-	-	-
0.04	•	•	-	-	•	-	-	-	-	-
0.045	-	-	-	-	•	-	-	-	-	-
0.05	•	•	-	-	•	•	-	-	-	•
0.055	-	-	-	-	•	-	-	-	-	-
0.06	•	•	-	-	•	-	-	-	-	-
0.07	•	•	-	-	•	-	-	-	-	-
0.075	-	-	-	-	-	•	-	-	-	•
0.08	•	•	-	-	•	-	-	-	-	-
0.09	•	•	-	-	•	-	-	-	-	-
0.10	•	•	-	-	•	•	-	•	-	•
0.11	-	-	-	-	•	-	-	-	-	-
0.12	-	•	-	-	•	-	-	•	-	-
0.13	-	-	-	-	•	-	-	-	-	-
0.14	-	-	-	-	-	-	-	u.request*	-	-
0.15	•	•	-	-	•	•	-	•	•	•
0.16	-	-	-	-	•	-	-	-	-	-
0.17	-	-	-	-	•	-	-	-	-	-
0.18	-	•	-	-	-	-	-	-	•	-
0.19	-	-	-	-	•	-	-	-	-	-
0.20	•	•	-	-	•	•	-	•	•	•
0.21	-	-	-	-	u.request*	-	-	-	-	-
0.22	-	-	-	-	•	-	-	-	-	-
0.23	-	-	-	-	•	-	-	-	-	-
0.24	-	-	-	-	•	-	-	-	-	-
0.25	•	•	-	-	•	•	•	-	•	•
0.26	-	-	-	-	•	-	-	-	-	-
0.27	-	-	-	-	u.request*	-	-	-	-	-
0.28	-	-	-	-	•	-	-	-	-	-
0.29	-	-	-	-	u.request*	-	-	-	-	-
0.30	•	•	-	-	•	•	•	-	•	•
0.35	-	•	-	-	•	-	-	-	-	-
0.40	•	•	-	-	•	•	•	-	•	•
0.45	-	•	-	-	•	-	-	-	-	-
0.50	•	•	-	-	•	•	•	-	•	•
0.55	-	-	-	-	•	-	•	-	-	-
0.60	•	•	-	-	•	•	•	-	•	•
0.65	-	-	-	-	•	-	-	-	-	-
0.70	•	•	-	-	•	•	•	-	•	•
0.75	-	-	-	-	•	-	•	-	-	-
0.80	•	•	-	-	•	•	•	-	•	•
0.85	-	-	-	-	•	-	-	-	-	-
0.90	•	•	-	-	•	•	•	-	-	•
0.95	-	-	-	-	•	-	•	-	-	-
1.00	•	•	•	•	•	•	•	-	•	•
1.10	-	-	-	-	•	-	•	-	-	-
1.20	u.request*	u.request*	•	-	•	•	•	-	-	-
1.30	-	-	-	-	•	-	•	-	-	-
1.40	-	-	-	-	•	-	•	-	-	-
1.50	u.request*	u.request*	•	•	•	•	•	-	-	-
1.60	-	-	-	-	•	-	•	-	-	-
1.70	-	-	-	-	•	-	•	-	-	-
1.80	u.request*	u.request*	•	-	•	•	•	-	-	-
1.90	-	-	-	-	•	-	•	-	-	-
2.00	u.request*	u.request*	•	•	•	•	•	-	-	-
2.50	u.request*	u.request*	•	•	-	-	•	-	-	-
3.00	u.request*	u.request*	•	•	-	-	•	-	-	-
3.50	-	-	u.request*	-	-	-	-	-	-	-
4.00	-	-	•	-	-	-	-	-	-	-

*please contact us for availability and sizes

ASSORTMENTS

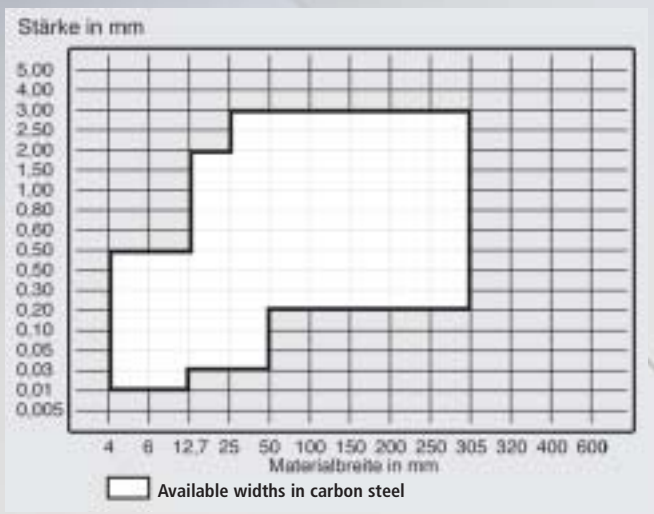
Item	Size in mm	Sheets	Contents: 1 Sheet	
Assortment 25	25 x 300	21	0.01 – 1.00 mm	•
Assortment 50/1	50 x 300	25	0.01 – 1.00 mm	•
Assortment 50/2	50 x 300	23	like 50/1 without 0.01/0.02 mm	•
Assortment 50/3	50 x 300	11	0.02/0.03/0.05/0.10/0.15/0.20/0.25/0.30/0.40/0.50/1.00 mm	•
Assortment 100/1	100 x 500	9	0.02/0.05/0.10/0.15/0.20/0.30/0.40/0.50/1.00 mm	•
Assortment 100/2	100 x 500	11	0.02/0.05/0.10/0.15/0.20/0.25/0.30/0.35/0.40/0.45/0.50 mm	•
Assortment 100/3	100 x 500	11	0.50/0.55/0.60/0.65/0.70/0.75/0.80/0.85/0.90/0.95/1.00 mm	•
Assortment 150	150 x 500	10	0.025 – 0.50 mm	•
Assortment 150 MS	150 x 500	10	0.025 – 0.50 mm	•

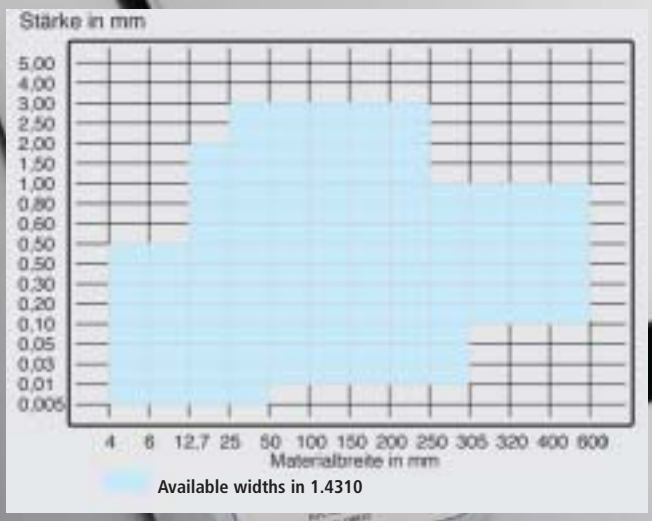
SPECIAL WIDTHS

Strip steel can be slit to your requested width.
We supply carbon steel and brass in every width up-to 300 mm. Stainless steel strips are generally available up-to 300 mm. Wider strips up-to 600 mm can be produced in thicknesses from 0.10 to 1.00 mm in 1.4310 (AISI 301).
Rounded or deburred edges are available upon request.

The minimum length is 50 meters depending on availability, thicknesses above 0.50 mm are also available in shorter lengths.

Small pieces in your requested width can be cut by a spring steel cutting shear.





FLAT SHEETS

We can supply individually cut flat sheets in many thickness up-to 3.00 mm. These parts can be processed by wire eroding cut in a stack.
We also cut-to-length spring steel up-to 5000 mm.

Complicated parts and parts with narrow tolerances should be cut by Laser.




LASER CUT PARTS

Due to high tensile strength of our strip steels laser cutting is an ideal method to manufacture precise parts. With our equipment we are able to offer a service for special products in small batches like:

- Feeler gage blades and adjustment gages in many different thicknesses

- Shim foils to adjust measuring devices in micrometer range from 0.01 to 0.075 mm
- Shims from 0.10 to 0.30 mm for the assembling of tool machines

- Assortments of shims for die manufacturing from 0.10 to 2.0 mm thickness

- Shims up-to 4000 mm length and 0.10 to 5.00 mm thickness to set up heavy machines

- Discs made from spring steel with 600 mm diameter
- Springs, fixtures and machine parts of higher strength and wear resistance

Laser parts can be cut from h+s precision foils as thin as 0.01 mm. Between a thickness of 0.05 and 1.0 mm stainless steel parts can be up-to 600 mm width.
Hardened and tempered carbon steel is a low-cost alternative to stainless steel in thicknesses between 0.10 and 4.0 mm.
Parts made from hardened stainless knife steel 1.4034 are available from 1.0 to 3.0 mm thickness.




THICKNESS TOLERANCES AND TENSILE STRENGTHS

	Tolerance T 3	Tolerance EN 10258	Tolerance EN 10258 P	Carbon Steel 1.1274	Carbon Steel 1.2003	Cr-Steel 1.4034	Stainless Steel 1.4310	Brass 2.0321
Thickness in mm:	+/- mm	+/- mm for Width 12.7 mm in 1.4310	+/- mm for Width 600 mm in 1.4310	N/mm^2	N/mm^2	N/mm^2	N/mm^2	N/mm^2
0.003	0.001	-	-	-	-	-	1500	-
0.005	0.001	0.001 (T3)	-	-	-	-	1900	-
0.01	0.002	0.002 (T3)	-	2000-2200	-	-	1850-2100	540 - 610
0.015	0.002	-	-	-	-	-	1850-2100	-
0.02	0.002	0.002 (T3)	-	2000-2200	-	-	1850-2100	-
0.025	0.002	-	-	-	-	-	1850-2100	540-610
0.03	0.002	0.0023 (T2)	-	2000-2200	-	-	1600-1800	-
0.035	0.003	-	-	-	-	-	1400-1600	-
0.04	0.003	0.002 (T3)	-	2000-2200	-	-	1600-1800	-
0.045	0.003	-	-	-	-	-	1600-1800	-
0.05	0.003	0.003 (T3)	0.008	2000-2200	-	-	1600-1800	540-610
0.055	0.003	-	-	-	-	-	1400-1600	-
0.06	0.003	0.003 (T3)	-	2000-2200	-	-	1600-1800	-
0.07	0.004	0.004 (T3)	-	2000-2200	-	-	1600-1800	-
0.075	0.004	-	-	-	-	-	1600-1800	540-610
0.08	0.004	0.004 (T3)	-	2000-2200	-	-	1600-1800	-
0.09	0.004	0.004 (T3)	-	2000-2200	-	-	1600-1800	-
0.10	0.004	0.004 (T3)	0.010	2000-2200	-	-	1600-1800	540-610
0.11	0.004	0.004 (T3)	-	-	-	-	1500-1800	-
0.12	0.004	-	-	2000-2200	-	-	1600-1800	-
0.13	0.005	0.005 (T3)	-	-	-	-	1500-1800	-
0.14	0.005	-	-	2000-2200	-	-	1400-1600	-
0.15	0.005	0.008 (P)	0.012	2000-2200	-	-	1600-1800	450-600
0.16	0.005	0.005 (T3)	-	2000-2200	-	-	1500-1800	-
0.17	0.005	0.005 (T3)	-	-	-	-	1500-1800	-
0.18	0.005	0.008 (P)	0.012	2000-2200	-	-	1600-1800	-
0.19	0.005	0.005 (T3)	-	-	-	-	1500-1800	-
0.20	0.006	0.008 (P)	0.012	1800-2000	-	-	1600-1800	450-600
0.21	0.006	0.006 (T3)	-	-	-	-	1500-1800	-
0.22	0.006	0.006 (T3)	-	-	-	-	1500-1800	-
0.23	0.006	0.006 (T3)	-	-	-	-	1300-1500	-
0.24	0.006	0.007 (T3)	-	1600-1800	-	-	1500-1800	-
0.25	0.007	0.007 (T3)	0.015	1800-2000	-	-	1600-1800	450-600
0.26	0.007	0.007 (T3)	-	1600-1800	-	-	1500-1800	-
0.27	0.007	0.007 (T3)	-	1600-1800	-	-	1500-1800	-
0.28	0.007	0.007 (T3)	-	1600-1800	-	-	1500-1800	-
0.29	0.007	0.007 (T3)	-	-	-	-	1500-1800	-
0.30	0.007	0.010 (P)	0.015	1800-2000	-	-	1600-1800	450-600
0.35	0.008	-	-	1800-2000	-	-	1600-1800	-
0.40	0.009	0.012 (P)	0.018	1600-1800	-	-	1600-1800	450-600
0.45	0.009	-	-	1600-1800	-	-	1600-1800	-
0.50	0.010	0.014 (P)	0.020	1600-1800	-	-	1600-1800	450-600
0.55	0.010	-	-	1600-1800	-	-	1600-1800	-
0.60	0.010	0.015 (P)	0.025	1600-1800	-	-	1600-1800	> 610
0.65	0.012	-	-	1400-1600	-	-	1600-1800	-
0.70	0.012	0.015 (P)	0.025	1400-1600	-	-	1600-1800	> 610
0.75	0.012	-	-	1400-1600	-	-	1600-1800	-
0.80	0.013	0.015 (P)	0.025	1400-1600	-	-	1600-1800	> 610
0.85	0.013	-	-	1400-1600	-	-	1600-1800	-
0.90	0.013	0.015 (P)	-	1400-1600	-	-	1600-1800	> 610
0.95	0.013	-	-	1400-1600	-	-	1600-1800	-
1.00	0.013	0.020 (P)	0.030	1400-1600	1550-1750	1650-1850	1600-1800	> 610
1.10	0.017	-	-	1400-1600	-	-	1600-1800	-
1.20	0.017	-	-	1400-1600	1550-1750	-	1600-1800	-
1.30	0.020	-	-	1400-1600	-	-	1500-1700	-
1.40	0.020	-	-	1400-1600	-	-	1500-1700	-
1.50	0.020	-	-	1400-1600	1550-1750	1650-1850	1400-1600	-
1.60	0.023	-	-	1400-1600	-	-	1400-1600	-
1.70	0.023	-	-	1400-1600	-	-	1300-1500	-
1.80	0.023	-	-	1400-1600	1550-1750	-	1300-1500	-
1.90	0.023	-	-	1400-1600	-	-	1250-1450	-
2.00	0.025	-	-	1400-1600	1550-1750	1650-1850	1200-1400	-
2.50	0.030	-	-	-	1550-1750	1650-1850	1200-1400	-
3.00	0.030	-	-	-	1550-1750	1650-1850	1050-1250	-
3.50	0.034	-	-	-	u.request*	-	-	-
4.00	0.030	-	-	-	1550-1750	-	-	-

*please contact us for further information on availability and tensile strength




MATERIAL INFORMATION

Material code		1.1274	1.2003	1.4034 (1.2083)	1.4310	2.0321
	DIN	DIN Ck 101	DIN 75 Cr 1	DIN X 46 Cr 13	DIN X12 CrNi17 7	CuZn 37
	AISI ASTM	1095 G 10950	1075 G 10780	420 S 42000	301 S 30100	 C 27200
Dimensions	Widths	6 – 305 mm	320 mm	320 mm	12.7 – 600 mm	150 mm
	Thickness	0.01 – 2.00 mm	1.00 – 4.00 mm	1.00 – 3.00 mm	0.003 – 3.00 mm	0.01 – 1.00 mm
	Width tolerance	B 2	-	EN 10258 R	EN 10258 R	DIN 1791
	Thickness tolerance	T 3	T 3	T 3	T 3 (partly EN 10258)	T 3
Surface		white polished	unpolished	brush polished	bright (IIIa or f acc. DIN 17440)	bright
Edges		widths 6 and 12.7 mm: - up to 0.09 mm cut edges - from 0.10 mm rounded edges Other widths: cut edges	natural edge	cut edges	cut edges	cut edges
Straightness		normal	normal	normal	SR	DIN 1791
Flatness		specially exactly	specially exactly	specially exactly	Wave height max. 1 mm	DIN 1791
Condition		hardened and tempered (H+A)	hardened and tempered (H+A)	hardened and tempered (H+A)	temper rolled – full hard K 1	full-hard (F 54, H 170 nach DIN 17670)
Tensile strength		See table on page 10				
Analyse		C: max. 1.05 % Si: 0.15-0.30 % Mn: 0.30-0.45 % P: max. 0.02 % S: max. 0.02 % Cr: ca. 0.01 %	C: 0.70-0.80 % Si: 0.25-0.50 % Mn: 0.60-0.80 % P: max. 0.03 % S: max. 0.03 % Cr: 0.30-0.40 %	C: 0.40-0.50 % Si: 0.30 % Mn: 0.35 % P: max. 0.045 % S: max. 0.03 % Cr: 13.5 % Ni: - Mo: -	C: max. 0.15 % Si: max. 1.5 % Mn: max. 2.0 % P: max. 0.045 % S: max. 0.03 % Cr: 16-18 % Ni: 7-9 % Mo: max. 0.80 %	Cu: 62-64 % Pb: max. 0.1 % Zn: balance Si: -

Hardened and tempered High Carbon Steel 1.1274

Due to a carbon content of more than 1 % this alloy is ideal for feeler gauge stock, shims and springs where corrosion problems are not expected. This material is magnetic. Available in thicknesses between 0.01 and 2.0 mm.

Hardened and tempered Tool Steel 1.2003

A small amount of Chromium leads to a higher wear resistance and better hardening for large widths. This alloy is also suitable for small tools due to a Rockwell hardness of 47 – 51 HRc. This magnetic alloy is our standard Carbon steel for thicknesses between 1.0 and 4.0 mm.

Hardened and tempered Stainless Tool Steel 1.4034 (1.2083)

This Steel is corrosion resistant at wet air, steam and water, but not resistant against chloride ions and acids. Compared to 1.4310 (AISI 301) this alloy has a lower corrosion resistance.
This alloy has advantages in better wear resistance and low inner stress. It is ideal for gages, tools, machine knifes in the food industry and scalpels. The alloys 1.4034 and 1.2083 have little differences in the carbon content. This alloy is magnetic. Available in thicknesses between 1.0 and 3.0 mm.

Temper rolled Stainless Steel 1.4310

This Steel has a good corrosion resistance due to a content of 17 % Chromium and 7 % Nickel. A high tensile strength is obtained by cold rolling. Compared to Alloy 1.4301 (AISI 304) a much higher tensile strength of more than 2000 N/mm² can be reached. Because of this, 1.4310 is suitable for stainless feeler gage stock, precision foils, stainless springs and parts of higher strength. This alloy is little magnetic and can not be hold by magnetic tables of grinding machines. Available in more than 60 thicknesses between 0.003 and 3.0 mm.

Temper rolled Brass 2.0321

With a composition of 63 % Copper and 37 % Zinc this Brass is the standard alloy for temper rolled brass. It is not magnetic.
Available from 0.01 to 1.00 mm.

We can also supply Carbon steels like Ck 75 (1.1248) and Ck 85 (1.1269) as well as Stainless Steels like 1.4301 (AISI 304) and 1.4404 (AISI 316L). Please ask for availability and price if you need these or similar alloys.