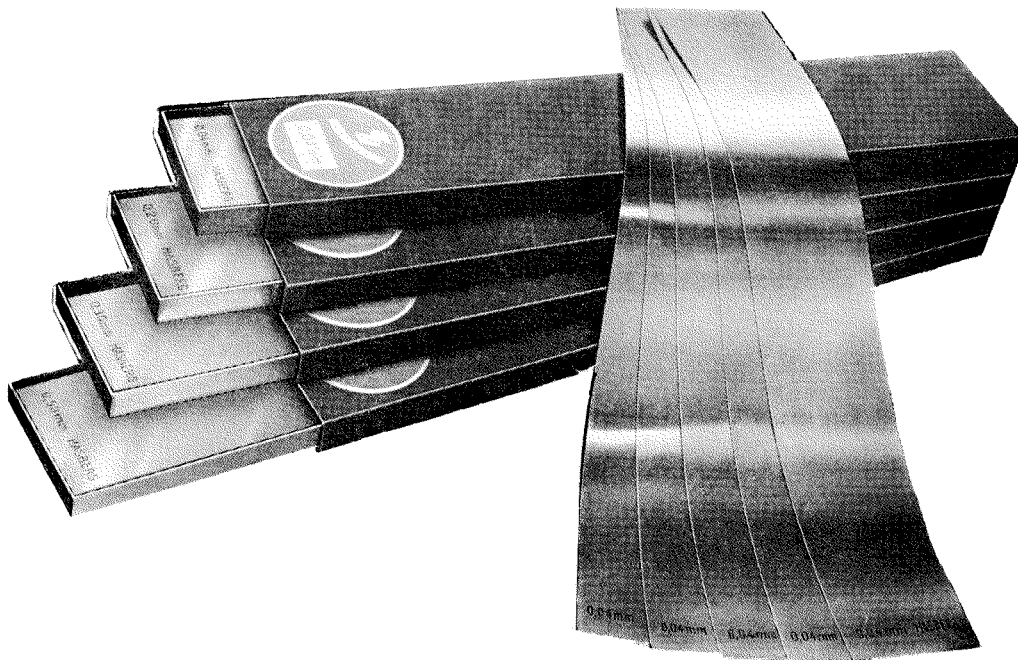




HASBERG

Precision Thickness Gauge Strip
and Calibrated Shim Foils
0,005 – 2,00 mm thick



of
high-grade carbon steel

Ck 101 (AISI 1095), hardened, 6 – 12,7 – 25 and 50 mm wide

high-grade stainless steel

X5CrNi18 9 (AISI 304) resp. X12CrNi17 7 (AISI 301), cold-rolled to spring grade hardness, 100 and 150 mm wide

closely toleranced brass foil

CuZn37 (C 27400), hard, 150 mm wide

Extremely close thickness
tolerances T 3

HASBERG PRODUCTS ARE IMPORTED EXCLUSIVELY IN THE USA BY MARYLAND METRICS



HASBERG

PRECISION THICKNESS
GAGE STRIPS & SHEETS

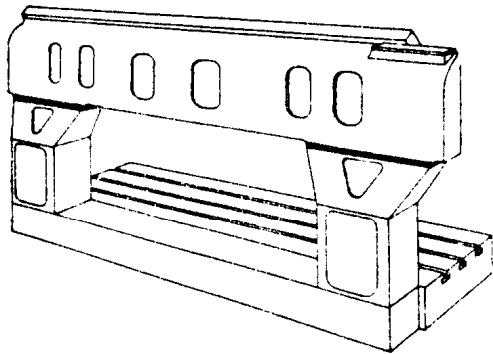
STAINLESS & BRASS
GAGE STRIPS & SHEETS

CALIBRATED SHIM SHEETS
FROM 0.005 mm TO 2.00 mm

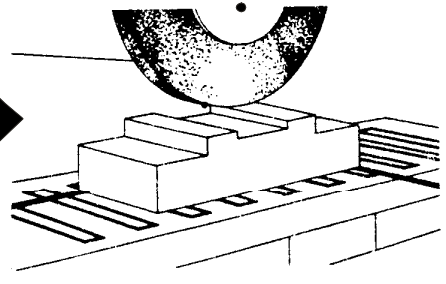
AVAILABLE IN MANY DIFFERENT TYPES

HASBERG Precision Thickness Gage Strip is an indispensable aid in production, assembly and quality control work. It is an essential element of a properly equipped tool room.

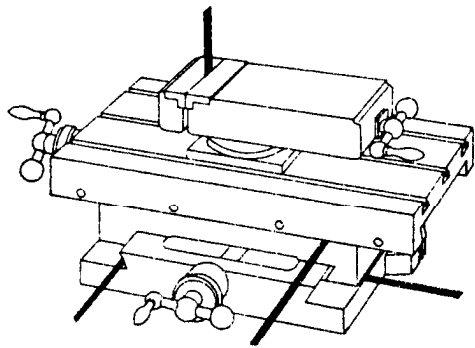
HASBERG Precision Thickness Gage strip is used as a shim as well as a feeler gage in aligning and adjusting machine components in production and assembly work, in jig and tool manufacturing, in tolerance measuring operations of every description, in checking fits such as dovetail guides, in scraping and shaving work and assembling precision parts, in adjusting inking and printing rollers, in aligning profiling templates for profile grinders, in checking valve clearances and spark plug gaps, and in an infinity of other uses.



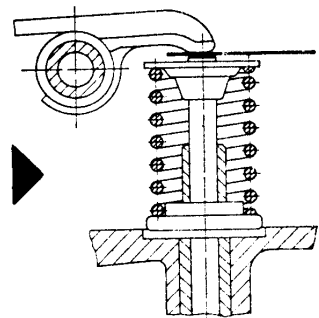
◀ as shims and liners in assembling operations



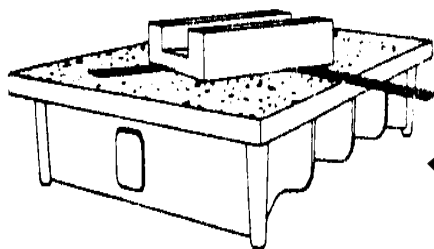
▶ for aligning the workpiece on surface grinders, milling cutters and planers



◀ for checking dovetail guides and fits



▶ for adjusting the valve clearance



◀ as check foil in shaving or scraping precision parts

NON-STANDARD & SPECIAL PRODUCTS

Non-standard and special shapes, sizes and custom designs are also available in all 3 materials: steel, stainless steel, and brass. Please contact us for a quotation.

THE 'HASBERG' NAME ASSURES ACCURACY

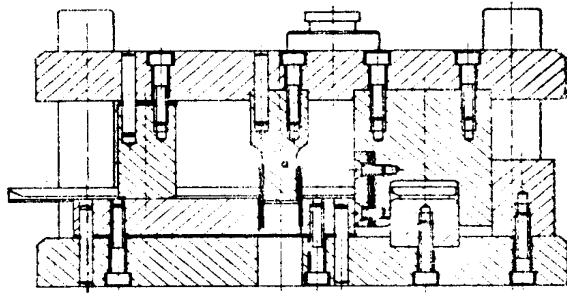
For most applications, the 12.7 mm (1/2") width of HASBERG Precision Thickness Gage Strip in the dispenser case will be used. The quality, accuracy and finish of the strip is assured by modern production methods. Top quality thickness gage type steel (European steel grade Ck101 ~ to AISI 1095) with a tensile strength of approx. 1600 - 2300 N/mm² is cold rolled, hardened and polished to obtain surfaces of extreme flatness and most importantly to meet the tight tolerances required by the T3 international standards (see chart: Thickness Gage Tolerances). The size (thickness) number is indelibly etched at close intervals to prevent any mixups and the need for constant checking! Storage cases of plastic with stacking edges and a dispensing slot for all thicknesses are designed to protect the sensitive material from dirt and rust and to simplify storage. Thicker sizes are supplied in special cases featuring an angular design for easier dispensing, but more importantly ensuring perfectly safe storage of this very springlike steel strip. No risk of an accident caused by a jumping steel strip.

ALSO AVAILABLE IN STAINLESS STEEL & BRASS

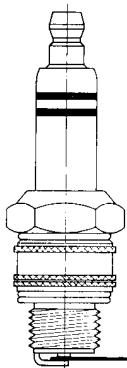
Where the standard width of 12.7 mm is insufficient, we also supply Precision Thickness Gage Strip in widths of 6 mm (0.24"), 25 mm (0.98"), and 50 mm (1.97") in cases containing a 5 meter (16.4') lengths. Available also are the Precision Calibrated Shim Foil sheets 50 x 300 mm (1.97" x 11.8") packaged 10 sheets per plastic box, or packaged in several different assortments.

For special applications, Stainless Steel (European grade X5CrNi18 9 ~ to AISI 304 and also X12CrNi17 7 ~ to AISI 301) Thickness Gage Strips and Sheets of 100 mm and 150 mm (3.94" & 5.91") width are produced. This Stainless steel has a tensile strength of about 1600 - 1800 N/mm², and is cold rolled and polished to spring grade hardness, and its edges are trimmed. Stainless strip is packaged in lengths of 5 meters per case. Stainless sheets of 500 mm (19.7") length are packaged in slide boxes of 5 sheets of one size, or packaged in assortments of 1 sheet per size.

Brass; hardened (European grade CuZn37 [C27400] is also available in sheets of 150 mm wide.



▲
for measuring the clearance of cutting tools and as a liner following sharpening work



◀ for checking the electrode gap of spark plugs

THICKNESS GAGE TOLERANCES

Thickness mm	+/-
0.005	0.001
0.01 to 0.03	0.002
0.04 to 0.06	0.003
0.07 to 0.12	0.004
0.15 & 0.18	0.005
0.20 & 0.22	0.006
0.25 & 0.30	0.007
0.35	0.008
0.40 & 0.45	0.009
0.50 & 0.60	0.010
0.70	0.012
0.80 to 1.00	0.013
1.50 to 2.00	0.025



MARYLAND METRICS

Phones: (800)638-1830 (410)358-3130 FAXes: (800) USA-9-FAX = [800-872-9329] (410)358-3142

HASBERG PRECISION THICKNESS GAGE (FEELER GAGE) STRIP IN ROLLS

THICKNESS mm	THICKNESS - (inch equivalent) decimal	12.7mm (1/2") WIDE 1M	Price per Roll	12.7mm (1/2") WIDE 2M	Price per Roll	12.7mm (1/2") WIDE 5M	Price per Roll	12.7mm (1/2") WIDE 10M	Price per Roll	6mm WIDE 5M	Price per Roll	25mm WIDE 5M	Price per Roll	50mm WIDE 5M	Price per Roll	100mm WIDE 5M ALL STAINLESS	Price per Roll	150mm WIDE 5M ALL STAINLESS	Price per Roll
0.005	-(0.00002)	-G5A*	\$38.56	-G5B*	\$59.75	-G5C*	\$108.32	-G5D*	\$202.25										
0.01	-(0.00039)	-01A	\$31.94	-01B	\$49.57	-01C	\$89.82	-01D	\$167.82										
0.02	-(0.00079)	-02A	\$21.31	-02B	\$33.07	-02C	\$59.88	-02D	\$112.06										
0.025	-(0.00098)																		
0.03	-(0.00118)	-03A	\$8.19	-03B	\$12.63	-03C	\$22.75	-03D	\$43.32										
0.04	-(0.00158)	-04A	\$8.29	-04B	\$12.63	-04C	\$22.75	-04D	\$43.32										
0.05	-(0.00197)	-05A	\$8.29	-05B	\$12.63	-05C	\$22.75	-05D	\$43.32	-05E	\$22.75	-05F	\$44.82	-05G	\$64.75	-05H*	\$96.94	-05J*	\$144.75
0.06	-(0.00236)	-06A	\$5.50	-06B	\$8.32	-06C	\$15.13	-06D	\$28.19										
0.07	-(0.00276)	-07A	\$5.50	-07B	\$8.32	-07C	\$15.13	-07D	\$28.19										
0.075	-(0.00295)																		
0.08	-(0.00315)	-08A	\$5.50	-08B	\$8.32	-08C	\$15.13	-08D	\$28.19	-08E	\$15.13	-08F	\$30.57	-08G	\$44.19				
0.09	-(0.00354)	-09A	\$5.50	-09B	\$8.32	-09C	\$15.13	-09D	\$28.19										
0.10	-(0.00394)	-10A	\$5.63	-10B	\$8.57	-10C	\$15.57	-10D	\$29.00	-10E	\$15.57	-10F	\$31.44	-10G	\$45.63	-10H*	\$91.32	-10J*	\$137.38
0.12	-(0.00472)	-12A	\$5.63	-12B	\$8.57	-12C	\$15.57	-12D	\$29.00	-12E	\$15.57	-12F	\$31.44	-12G	\$45.63				
0.15	-(0.00591)	-15A	\$5.63	-15B	\$8.57	-15C	\$15.57	-15D	\$29.00	-15E	\$15.57	-15F	\$31.44	-15G	\$45.63	-15H*	\$91.32	-15J*	\$137.38
0.18	-(0.00709)	-18A	\$5.63	-18B	\$8.57	-18C	\$15.57	-18D	\$29.00										
0.20	-(0.00787)	-20A	\$5.63	-20B	\$8.57	-20C	\$15.57	-20D	\$29.00	-20E	\$15.57	-20F	\$31.44	-20G	\$45.63	-20H*	\$114.32	-20J*	\$171.56
0.22	-(0.00866)																		
0.25	-(0.00984)	-25A	\$5.63	-25B	\$8.57	-25C	\$15.57	-25D	\$29.00	-25E	\$15.57	-25F	\$31.44	-25G	\$45.63				
0.30	-(0.01181)	-30A	\$5.63	-30B	\$8.57	-30C	\$15.57	-30D	\$29.00	-30E	\$15.57	-30F	\$31.44	-30G	\$45.63	-30H*	\$114.32	-30J*	\$171.56
0.35	-(0.01378)	-35A	\$6.13	-35B	\$9.63	-35C	\$17.38	-35D	\$32.32										
0.40	-(0.01575)	-40A	\$6.13	-40B	\$9.63	-40C	\$17.38	-40D	\$32.32	-40E	\$17.38	-40F	\$34.82	-40G	\$50.19	-40H*	\$128.75	-40J*	\$193.69
0.45	-(0.01772)	-45A	\$6.13	-45B	\$9.63	-45C	\$17.38	-45D	\$32.32										
0.50	-(0.01969)	-50A	\$6.13	-50B	\$9.63	-50C	\$17.38	-50D	\$32.32	-50E	\$17.38	-50F	\$34.82	-50G	\$50.19	-50H*	\$148.19	-50J*	\$226.00
0.60	-(0.02362)	-60A	\$8.10	-60B	\$15.57	-60C	\$28.38	-60D	\$53.00										
0.70	-(0.02756)	-70A	\$8.10	-70B	\$15.57	-70C	\$28.38	-70D	\$53.00										
0.80	-(0.03150)	-80A	\$8.10	-80B	\$15.57	-80C	\$28.38	-80D	\$53.00										
0.90	-(0.03543)	-90A	\$8.10	-90B	\$15.57	-90C	\$28.38	-90D	\$53.00										
1.0	-(0.03937)	-A0A	\$8.10	-A0B	\$15.57	-A0C	\$28.38	-A0D	\$53.00										

HASBERG PRECISION THICKNESS GAGE (FEELER GAGE) IN ROLLS & SHEETS

Prices are subject to change.

THICKNESS mm	THICKNESS - (inch equivalent) decimal	150mm WIDE 5m ALL BRASS	Price per Roll	50x 300mm SHEETS STAINLESS*	Price per Package	100x 500mm SHEETS ALL STAINLESS	Price per Package	150x 500mm SHEETS ALL STAINLESS	Price per Package	150x 500mm SHEETS ALL BRASS	Price per Package
0.005	-(0.00002)										
0.01	-(0.00039)			-01K*	\$113.56						
0.02	-(0.00079)			-02K*	\$62.38	-02L*	\$86.50				
0.025	-(0.00098)	-B5N**	\$177.50					-B5M*	\$96.94	-B5P**	\$95.82
0.03	-(0.00118)			-03K	\$44.82						
0.04	-(0.00158)			-04K	\$44.82						
0.05	-(0.00197)	-05N**	\$143.06	-05K	\$44.82	-05L*	\$52.38	-05M*	\$78.19	-05P**	\$77.25
0.06	-(0.00236)			-06K	\$30.56						
0.07	-(0.00276)			-07K	\$30.56						
0.075	-(0.00295)	-F5N**	\$143.06					-F5M*	\$78.19	-F5P**	\$77.25
0.08	-(0.00315)			-08K	\$30.56						
0.09	-(0.00354)			-09K	\$30.56						
0.10	-(0.00394)	-10N**	\$135.75	-10K	\$31.44	-10L*	\$49.25	-10M*	\$74.13	-10P**	\$73.25
0.12	-(0.00472)			-12K	\$31.44						
0.15	-(0.00591)	-15N**	\$135.75	-15K	\$31.44	-15L*	\$49.25	-15M*	\$74.13	-15P**	\$73.25
0.18	-(0.00709)			-18K	\$31.44						
0.20	-(0.00787)	-20N**	\$169.56	-20K	\$31.44	-20L*	\$61.75	-20M*	\$92.63	-20P**	\$91.57
0.22	-(0.00866)										
0.25	-(0.00984)	-25N**	\$169.56	-25K	\$31.44			-25M*	\$92.63	-25P**	\$91.57
0.30	-(0.01181)	-30N**	\$169.56	-30K	\$31.44	-30L*	\$61.75	-30M*	\$92.63	-30P**	\$91.57
0.35	-(0.01378)			-35K	\$34.82						
0.40	-(0.01575)	-40N**	\$191.38	-40K	\$34.82	-40L*	\$69.63	-40M*	\$104.56	-40P**	\$103.25
0.45	-(0.01772)			-45K	\$34.82						
0.50	-(0.01969)	-50N**	\$223.32	-50K	\$34.82	-50L*	\$80.00	-50M*	\$122.00	-50P**	\$120.56
0.60	-(0.02362)			-60K	\$56.13						
0.70	-(0.02756)			-70K	\$56.13						
0.80	-(0.03150)			-80K	\$56.13						
0.90	-(0.03543)			-90K	\$56.13						
1.0	-(0.03937)			-A0K	\$56.13						
1.5	-(0.05906)			10 SHEETS PER PKG.		-A0L*	\$132.38				
2.0	-(0.07874)					-B0L*	\$158.32				
						-C0L*	\$185.25				

ASSORTMENTS:

	Dash No.	Price per package
50x300 mm, 1 sheet of each size 0.01-1.00 mm	-ASA	\$107.25
50x300 mm, 1 sheet of each size 0.03-1.00 mm	-ASB	\$89.63
50x300 mm, 1 sheet each of sizes 0.02, 0.03, 0.10, 0.15, 0.20, 0.25, 0.30, 0.35, 0.40, 0.50, 1.00 mm	-ASC	\$43.50
100x500 mm, 1 sheet of each size 0.02-1.00 mm SS*	-ASN	\$128.57
100x500 mm, 1 sheet of each size 1.50+2.00 mm SS*	-ASP	\$68.75
150x500 mm, 1 sheet of each size 0.025-0.50 mm SS*	-ASR	\$181.19
150x500 mm, 1 sheet of each size 0.025-0.50 mm BR**	-ASM	\$179.06

NOTE: SS* = Stainless Steel BR** = Brass

How to order: R376 + DASH NUMBER
Example: R376-25C for a steel strip 0.25 mm thick, 12.7 mm wide in a 5 meter roll.

MARYLAND METRICS also offers over 1,200,000 other METRIC Sized items including Fasteners, Hand Tools, Cutting Tools, Measuring Tools, Hydraulic & Pneumatic Fittings & Tubing, Oil Seals, O-rings, Bearings, Mechanical Power Transmission Equipment, Workholding Components, Metal Shapes, Plumbing Fittings, Electrical - Lamps, Fuses, Conduit Fittings & Cable.

Note: To convert inches to mm (inches x 25.4 = mm)
To convert mm to inches (mm / 25.4 = inches)

filename: HASBV4P4.CDR

SECTION: MEAS.TOOL1

PAGE: 4

VERSION: ff12f

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