

37006

Protractors

ATORN®

Type
With 0 - 180° scale and locking screw.

Quality
Standard steel, chrome-plated, scale dazzle-free and with matt-chrome finish.



37006

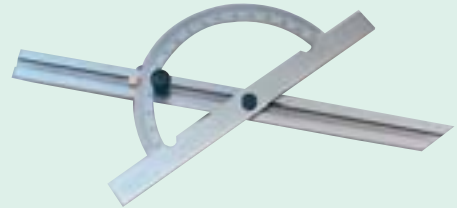
Arc Ø mm	Blade length mm	37006 ...
80	120	101
120	150	102
150	200	103
200	300	104

37008

Universal Bevel Protractors

Type
With 10 - 170° graduations, laterally adjustable length blade locks in position, end of blade with 45° bevel.

Quality
Standard steel, chrome-plated, scale dazzle-free and with matt-chrome finish.



37008

Arc Ø mm	Blade length mm	37008 ...
100	150	101
150	300	102
200	400	103
300	600	105

37012 - 37019

Precision Universal Bevel Protractor, Set

37012
Type
With fine adjustment device, protractor head graduated in 4 x 90°, vernier reading 1/12° = 5arc minutes, parallaxfree reading by opposition positioned verniers (therefore almost no reading errors), hardened measuring edges. With 3 exchangeable measuring blades (lengths 150, 200, 300 m), which can be slid over full length, panorama reading glass and additional measuring blade included. In case.

Application
For all angle measurements on workpieces, devices, machines, etc. Can also be used as straight edge, mitre square, or T-square.

Quality
Stainless steel.

37018
Acute angle attachment
Length of measuring blade 75 mm, for measuring even the smallest angles starting at 0°. Also suitable for cat.-no. 37030.

37019
Prism base
Base with ground prism bottom. For vertical clamping of the protractor and for measuring direct on the test plate. Also suitable for cat.-no. 37030.



37012

37018

37019

	Set	Angle attachment	Prism base
Blade length mm	37012 ...	37018 ...	37019 ...
150 - 300	201	101	101

37030

Digital Universal Protractors

ATORN®

Type
With wear-resistant, capacitive measuring system, fine adjustment device and large LC-display (8,5 mm). Reading in degrees and minutes (10° 24 min.) or to decimal degrees (10, 40°). Resolution 1 min. or 0,01°, measuring divergences +/- 1 digit. Measuring ranges (reversible) 1 x 360°, 2 x 180°, 4 x 90°. Interface Opto RS 232. Easiest adjustment or zero-setting on any flat surface. Zero-setting

(RESET) in any position. Exchangeable measuring blade. In case, battery 3,0 V, type CR 2032 included.

Quality
Stainless steel, measuring edges hardened.

Note:
Connecting cable see cat.-no. 35200.
Spare batteries see cat.-no. 39900 102.
Suitable acute angle attachment and prism base see cat.-no. 37018 - 37019.

Blade length mm	Opto RS 232	37030 ...
150	x	101
200	x	102
300	x	103



37030

• Bevel protractors • Square gauge • Thickness Gauges • Foil Gauge Strips

37046 - 37047

Protractors -EAC-



37046

Type

With round scale, display reading with 10 scale graduations through one window on a colored scale blade, therefore easy reading of measurement values, head graduation 4 x 90°, direct reading 5 min., maximum deviation of reading: +/- 5 min., in case. Swiss made.

Quality

Stainless steel, hardened.

37047 101-102
Measuring rules

37047 103
Addit. Rule
For acute angles.

37047 104
Cast-iron stand
With hardened steel base.

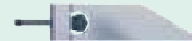
37046



37047 101-102



37047 103



37047 104



Measuring range Degrees	Measuring rule length mm	Protractor		Accessories	
		37046	...	37047	...
15 - 180	200			101	
15 - 180	300			102	
-	200				101
-	300				102
0 - 15	-				103
-	-				104

37048

Digital Bevel Protractors

Type

Measuring range 0 - 360°, resolution 0,05°, accuracy +/- 0,1°, repeatability +/- 0,05°. Strong magnets on both leg edges. With locking screw and hold function. Zero-setting (ZERO) in any position. LC-display can be turned upside down to facilitate reading when the device is also upside down. On/off-switch and automatic shutdown for increased battery life. Battery 3,0 V, CR 2032, included.

Note:

Spare batteries see cat.-no. 39900 102.

Leg length mm	37048	...
100		101
200		102
300		103



37048



37100 - 37101

Precision Square Gauges

37100

Magnetic precision square gauges

Type

With centre punch and 360° graduation, 90° V-base. Accuracy +/- 0,5°.

Application

For determining the centre point, milling, grinding, pipe installation, installation of control instruments, evening out of heating systems, welding, etc.

37101

Wooden case for precision square gauges (cat.-no. 37100 101).

Note:

Accessories and spare parts such as spare glasses, centre punch, and magnifying glasses available on request.

	Accuracy	Weight approx. g	37100	...	37101	...
Square gauge	+/- 0,5°	800			101	
Wooden case	-	-				101

37100



37103

Digital Bevel Protractors

Type

Recessed magnets on both sides. Measuring range 360° (4 x 90°). Resolution 0,05°. Accuracy +/- 0,1°, repeatability 0,1°. Zero-setting in any position. Battery 9 V, for approx. 250 h of operating time.

Note:

Spare batteries see cat.-no. 39900 405.

L x W x D mm	37103	...
60 x 60 x 35		101



37103



37305 - 37308

Thickness Gauges, Sets

Type
Replaceable. Dimensions in mm and inch on each thickness gauge.
Quality
Hardened spring steel.

37305

Type
Conical shape. Nickel-plated top blade with locking screw.

Application

In engine production and for measuring light slots.

37305 102

From 0,05 - 0,30 mm, in increments of 0,05 mm, and from 0,40 - 1,00 mm, in increments of 0,10 mm.

37305 103

From 0,05 - 1,00 mm in increments of 0,05 mm.

37305 104

37305 1040,05 mm and from 0,10 - 2,00 mm in increments of 0,10 mm.

37308

Type

Cylindrical shape, width 13 mm. Loose, on ring.

Application

For setting the valve clearance in hard-to-reach places etc.

37308 102

From 0,05 - 0,30 mm, in increments of 0,05 mm, and from 0,40 - 1,00 mm, in increments of 0,10 mm.

37308 103

From 0,05 - 1,00 mm in increments of 0,05 mm.

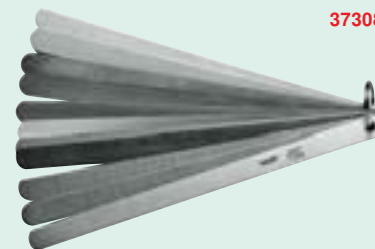
37308 104

From 0,10 - 2,00 mm in increments of 0,10 mm.

37305



37308



No. of blades pcs.	from - to mm	from - to inch	Blade Length mm	conically		cylindrical	
				37305	...	37308	...
13	0,05 - 1,00	.002 - .040	100				
20	0,05 - 1,00	.002 - .040	100		102		
21	0,05 - 2,00	.002 - .080	100		103		
13	0,05 - 1,00	.002 - .040	100		104		
13	0,05 - 1,00	.002 - .040	200				102
20	0,05 - 1,00	.002 - .040	200				103
20	0,10 - 2,00	.002 - .080	200				104

37310 - 37313

Foil Gauge Strips

Type
Precision gauge strip, easy to roll out of plastic dispensing box. The individual boxes can be combined into a block and stacked to save space. They also protect the material from dirt, accuracy tolerance +/- 10%.

Application

For the setting of tools, adjustment of equipment, balancing of tolerances, levelling of machinery, etc.

37310

Unalloyed steel (SM-strip steel). Tensile strength 490 - 640 N/mm². **Foil size 150 x 2500 mm.**

37311

Stainless steel (material no. 1.4301, 18 Cr 9 Ni). Tensile strength 1300 - 1500 N/mm². **Foil size 150 x 2500 mm.**

37312

Brass (Ms 63). Tensile strength 440 - 540 N/mm². **Foil size 150 x 2500 mm.**

37313

Workshop assortment

Brass (Ms 63), tensile strength 440 - 540 N/mm².

Contents: 1 ea. box 0,025 / 0,050 / 0,075 and 0,100 mm thickness, foil size 150x 1200 mm.

37313



37312



Thickness of foil mm	Unalloyed steel		Stainless		Brass		Workshop assortment	
	37310	...	37311	...	37312	...	37313	...
0,025		101		101		101		
0,050		102		102		102		
0,075		103		103		103		
0,100		104		104		104		
0,150		105		105		105		
0,200		106		106		106		
0,250		107		107		107		
0,300		108		108		108		
0,400		109		109		109		
0,500		110		110		110		
0,025 - 0,100								101

37315 - 37316 Thickness Gauge Stocks

37315
Type
 Stock easy to extract, marked every 10 cm (starting at 0,04 mm), length 5 m, width 13 mm, up to 0,75 mm in box, above on roll.

37316
Thickness gauge holder
 for thickness gauge stocks.

Thickness gauge stocks

Stock thickness mm	37315	...
0,01	100	
0,02	101	
0,03	102	
0,04	103	
0,05	104	
0,06	105	
0,07	106	
0,08	107	
0,10	108	
0,15	109	
0,20	110	
0,25	111	
0,30	112	
0,35	113	
0,40	114	
0,50	115	
0,60	116	
0,70	117	
0,80	118	
0,90	119	
1,00	120	

Thickness gauge holder		
	37316	...
		101



37315



37316

37325 Brass Thickness Gauge

Type
 Non-magnetic, tapered blades, replaceable, in sheath.

Contents: 13 blades from 0,05 - 1,0 mm. From 0,05 mm - 0,3 in increments of 0,05, starting at 0,3 - 1 mm in increments of 0,1 mm.


Application
 For testing gaps or clearances in slideways, bearings, automobile valves, etc.

Blade length mm	37325	...
100	103	



37325

37406 - 37430 Grinding Gauges

37406
HARTNER

Twist drill grinding gauge
 In plastic case.

Application
 For checking the point angle, step length and lip angle to centre line, checks 80° / 90° / 118° and 130°, for all common materials.

37430
Universal grinding gauge
Type
 with steel square and mitre square, all angles milled.
Application
 For checking the point angle of twist drills (118°) and the profile of the cutting edge of thread chasers 60° (metric) and 55° (Ww).

HARTNER				
	37406	...	37430	...
				101



37406



37430

37505 - 37508

Screw Pitch Gauges

Type

High precision thanks to milled teeth.

Application

For measuring the pitch of internal and external threads.

37505

For metric thread,

Thread angle 60°,

24 pitches 0,25 - 6 mm, 0,25 / 0,3 / 0,35 / 0,4 / 0,45 / 0,5 / 0,6 / 0,7 / 0,75 / 0,8 / 0,9 / 1,0 / 1,25 / 1,5 / 1,75 / 2,0 / 2,5 / 3,0 / 3,5 / 4,0 / 4,5 / 5,0 / 5,5 / 6,0 mm.

37506

For Whitworth threads,

Thread angle 55°,

28 pitches, 4 - 62 tpi, 4 / 4,5 / 5 / 6 / 7 / 8 / 9 / 10 / 11 / 12 / 13 / 14 / 16 / 18 / 19 / 20 / 22 / 24 / 25 / 26 / 28 / 30 / 32 / 36 / 40 / 48 / 60 / 62 turns.

37507

Combined for metric and Whitworth threads,

52 pitches, same as cat.-no. 37505 in combination with 37506.

37508

For Whitworth pipe threads,

Thread angle 55°,

6 pitches, 8- 28 tpi, 8 / 10 / 11 / 14 / 19 / 28 tpi.



37505



37506



37507



37508

37505	...	37506	...	37507	...	37508	...
101		101		101		101	

37515 - 37530

Screw Cutter's Gauges

37515

Combined screw cutter's gauge

Application

For flat, trapezoidal, and V-tooth threads 55° and 60°.

37530

Combined lathe tool and screw cutter's gauge

Type

With clearance angle bevel square, clearance angle can be set from 0 - 30° with the bevel square, cutouts for trapezoidal, Whitworth and metric threads and for angles 40 - 80°.

Application

For checking the clearance and lip angles of turning tools and thread chasers.



37515	...	37530	...
101		101	



37515



37530

37605 - 37610

Nozzle Gauges (Taper Gauges)

37605

Type

Hardened, round taper plug, with protection sleeve, taper 1:10, vernier 1:10. **Reading: Direct reading 0,1 mm, with vernier 10.**

Application

Mainly for use in garages and engine workshops.

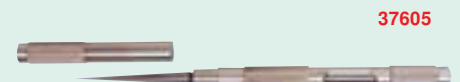
37610

Type

With steel pins, plastic covered.

Application

For measuring all kinds of nozzles. Can also be used as a limit gauge for small holes.



37605



37610

Measuring range mm	Number of gauges	37605	...	37610	...
0 - 5,0	-	102			
0,45 - 1,5	20				101
1,50 - 3,0	16				102

37620

Boring Hole Gauges

Type
 Round, tapered, precision ground. Handle knurled.
Application
 For measuring cylindrical holes.

Quality
 Hardened steel, with matt-chrome finish.

37620



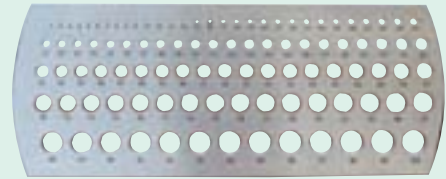
Measuring range mm	Reading mm	37620 ...
1,0 - 6,0	0,1	101
4,0 - 15,0	0,1	102

37630

Millimeter Drill and Wire Gauge

Type
 hardened, ground. No. of holes: 100
Application
 for measuring wires, twist drills, balls, etc.

37630



Measuring range mm	Pitch mm	37630 ...
0,1 - 10	0,1	102

37700

Digital Weld Seam Gauges

Type
 Hardened and ground. On-off switch, display of mm or inch, display of measurement value with large LC-display.
Application
 For measuring flat and fillet welds.
 With angles 60°, 70°, 80° and 90° for measuring the V-seam of flat weld seams.

Quality
 Stainless steel.
Note:
 Spare batteries see cat.-no. 39900 101.

37700



Measuring range mm	Reading mm	37700 ...
0 - 20	0,01	101

37701 - 37710

Weld Seam Gauges

Quality
 Stainless steel.

37710
 Fillet weld gauge DPB
Type
 Contact on one side only, avoiding errors due to shrinkage of angle, 3 scales, various methods of measurements, **direct reading 0,1 mm**, in leather case.
Application
 For quick and simple checking of weld dimensions.

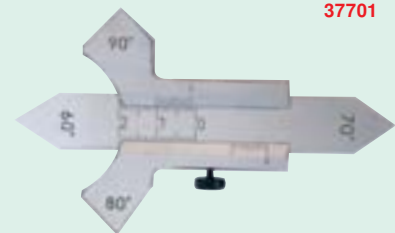
37701

37701
Type
 Measuring range 20mm, graduation 0,1mm, slide with clamping screw. In leather case.

Application
 For measuring flat and fillet welds. Angles 60, 70, 80 and 90° can be found on the gauge in order to check the V-seam.

37705
Type
 Sheaf-type, 12 blades 3 / 3,5 / 4 / 4,5 / 5 / 5,5 / 6 / 6,5 / 7 / 8 / 10 / 12 mm, on ring.

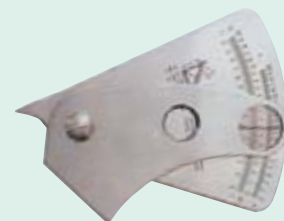
Application
 For measuring welds on right angles.



37705



37710



37701 ...	37705 ...	37710 ...
101	101	101

37805 - 37806

Radius Gauges (Concave and Convex Gauges)

Type

With locking screw.

Contents:

Size 1 (1 - 7 mm) 17 blades: from 1 - 3 mm in increments of 0,25 mm, starting at 3 - 7 mm in increments of 0,5 mm.

Size 2 (7,5 - 15 mm) 16 blades: in increments of 0,5 mm.

Size 3 (15,5 - 25 mm) 15 blades: from 15,5 - 20 mm in increments of 0,5 mm, starting at 20 - 25 mm in increments of 1 mm.

Application

for checking concave or convex arcs of circles.

37805 - 37806



Size	Standard steel		Stainless	
	37805	...	37806	...
1	101		101	
2	102		102	
3	103		103	

37905

Thread Tables FILETOR

Type

Dust-proof and dirt-proof, plastic housing 110 x 60 x 30 mm. Thread tables for types of threads: ISO metric, ISO fine thread, UNC, UNF, UNEF, Ww, BSF, GAS, BA, PG.

Application

All specifications needed to determine a screw thread can be read off directly, with standardized terminology - including a core drill Ø.

37905



	37905	...
		101

37912

ISO Tolerance Key TOLERATOR

Type

Dust-proof, plastic housing 110 x 60 x 30 mm. Multi-language print (English, French, German, Italian, Spanish).

Application

Direct display of all tolerance values in compliance with ISO recommendation R 286 - 1962. Contains complete listing of all ISO tolerances used throughout the world, up to 500 mm nominal size = over 6400 tolerance pairs.

37912



	37912	...
		101

37930

TORX®-Selector



GEDORE

Application

For determining the internal and external TORX® screw profiles even in hard-to-reach places. For the sizes E 4 - E 16 and T 10 - T 60.

37930



	37930	...
		301

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