37006 Goniometer

ATORN®

Design
- With 0–180° degree division and locking screw

Quality
Chrome-plated carbon steel, anti-glare scale, brushed chromium-plated.

37006

Degree arc Ø mm	Rail length mm	37006	...
80	120		101
120	150		102
150	200		103
200	300		104

37007 Protractor

HHW

Design
- With 0–180° degree division
- Scale interval 1°
- Lasered scaling, mm graduation

Quality
Hard-coded aluminium (HRC63). Scratch-resistant, black anodised surface.

NEW

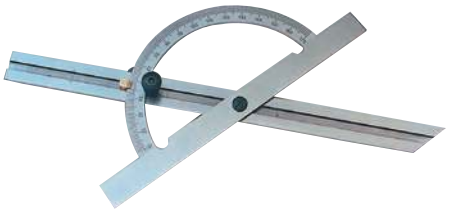
37007

Degree arc Ø mm	Rail length mm	37007	...
80	120		101
120	150		102
150	200		103
200	300		104
300	500		105

37008 Universal adjustable square

Design
- With 10–170° degree division
- Longitudinally adjustable and lockable rail
- Rail end bevelled 45°

Quality
Chrome-plated carbon steel, anti-glare scale, brushed chromium-plated.



37008

Degree arc Ø mm	Rail length mm	37008	...
100	150		101
150	300		102
200	400		103
300	600		105

37013 - 37019 Precision universal goniometer set

37013
Design
- **With fine adjustment**
- Division of the base plate 4 x 90°
- Reading precision 1/12° = 5 arc minutes
- **Parallax-free reading thanks to adjacent vernier scale** (as a result, reading errors are largely eliminated)
- Hardened measuring edges
- **With 3 replaceable measuring rails (length 150, 200, 300 mm)** that can be moved over the full length
- **Complete with panoramic magnifying glass and supplementary angle**
- **In case**

Applications
To measure angles of workpieces, devices, machines, etc., as well as ruler, cross and mitre angles.

Quality
Stainless steel.

37018
Angle stop
- Measuring arm length 75 mm
- To measure the smallest angle from 0°
- **Also suitable for art. no. 37030**

37019
Prism base
- With prismatic base
- Finely ground on all sides
- For vertical clamping of the angle sensor for measurements directly on the levelling plate
- **Also suitable for art. no. 37030**

37013

37018

37019

Rail length mm	Set 37013	...	Angle stop 37018	...	Prism base 37019	...
150 - 300		101				
-				101		101

Goniometers | Angle gauges | Feeler gauges | Foil tapes

37030 Digital universal goniometer

Typ B Typ C Typ D

ATORN®

Design
- With wear-resistant, capacitive measuring system
- **With fine adjustment**
- Large LC display (8.5 mm)
- Reading in degrees and minutes (10° 24 min.) or alternatively in decimal degrees (10, 40°)
- **Resolution 1 min. or 0.01°**
- **Measurement uncertainty of +/- 1 digit**
- Measuring ranges (switchable): 1 x 360°, 2 x 180°, 4 x 90°
- **Data output Opto RS 232**
- Easy adjustment or zero setting on any flat surface
- Zero setting (RESET) possible in any position
- Replaceable measuring rail
- Supplied in a case, incl. 3 V battery (type CR 2032)

Quality
Rust-free, measuring edges hardened.

Note:
Connection cable, see art. no. 35200.
Replacement batteries, see art. no. 39900 102.

Matching angle stop and prism foot see art. no. 37018–37019.

37030

Rail length mm	Data output Opto RS 232	37030 ...
150	x	101
200	x	102
300	x	103

37100 - 37101 Precision angle gauge

37100
Magnetic precision angle gauge
Design
- Made of aluminium and stainless steel
- With a centre punch and 360° graduation, on 90° V-base
- With laser-scaled dial
- Accuracy +/- 0.5°

Applications
For searching for the centre point, cutting, grinding, pipe installation, assembly of control devices, levelling heating systems, welding, frame setting, etc.

37101
Wooden case for precision angle gauge (art. no. 37100 101).

37100

	Accuracy	Weight approx. g	37100	...	37101	...
Angle gauge	+/- 0.5°	800		101		
Wooden case	-	-				101

= The specified prices are unit prices. Only sold in the specified packing units. Always specify number of units in order information.

37305 - 37308 Feeler gauge sets

Design
- Interchangeable
- Dimensions in mm and inches on every gauge blade

Quality
Hardened spring steel.

37305
Design
Conical leaf shape. Nickel-plated cover with locking screw.
Applications
In the motor industry and for measuring light gaps.

37305 102
Increasing from 0.05–0.30 mm in increments of 0.05 mm and increasing from 0.40–1.00 mm in increments of 0.10 mm.

37305 103
Increasing from 0.05–1.00 mm in increments of 0.05 mm.

37305 104
0.05 mm and increasing from 0.10–2.00 mm in increments of 0.10 mm.

37308
Design
Cylindrical leaf shape, 13 mm wide. Loose, held together by a ring.
Applications
To adjust valve clearance in inaccessible places, etc.

37308 102
Increasing from 0.05–0.30 mm in increments of 0.05 mm and increasing from 0.40–1.00 mm in increments of 0.10 mm.

37308 103
Increasing from 0.05–1.00 mm in increments of 0.05 mm.

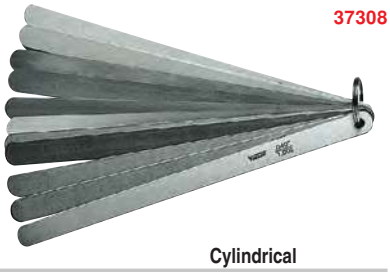
37308 104
Increasing from 0.10–2.00 mm in increments of 0.10 mm.

37308 105
Increasing from 0.05–0.30 mm in increments of 0.05 mm and increasing from 0.40–1.00 mm in increments of 0.10 mm.

37308 106
Increasing from 0.05–1.00 mm in increments of 0.05 mm.

37305

37308



Conical

Number of blades Pieces	Blade length mm	from–to mm	from–to inch	37305	...
13	100	0.05–1.00	.002–.040		102
20	100	0.05–1.00	.002–.040		103
21	100	0.05–2.00	.002–.080		104

Cylindrical

Number of blades Pieces	Blade length mm	from–to mm	from–to inch	37308	...
13	200	0.05–1.00	.002–.040		102
20	200	0.05–1.00	.002–.040		103
20	200	0.10–2.00	.002–.080		104
13	300	0.05–1.00	.002–.040		105
20	300	0.05–1.00	.002–.040		106

37310 - 37313 Foil tapes

Design
- Precision gauge strip
- Convenient unrolling in plastic box (easy to remove), the individual boxes can be connected to a block, stacked to save space and protect the material against dirt
- Accuracy tolerance of +/-10%

Applications
For setting up tools, adjusting devices, compensating for tolerances, aligning machines, etc.

37310
Design
- **Unalloyed steel** (SM steel strip)
- Tensile strength 490–640 N/mm²
- **Foil size 150 x 2500 mm**

37311
Design
- **Stainless steel** (material number 1.4301, 18 Cr 9 Ni)
- Tensile strength 1300–1500 N/mm²
- **Foil size 150 x 2500 mm**

37312
Design
- **Brass** (Ms 63)
- Tensile strength 440–540 N/mm²
- **Foil size 150 x 2500 mm**

37313
Workshop assortment
Design
- **Brass (Ms 63)**
- Tensile strength 440–540 N/mm²

Contents:
- 1 box each of 0.025/0.050/0.075 and 0.100 mm thickness
- **Foil size 150 x 1200 mm**

37312

37313

Foil thickness mm	Unalloyed steel 37310	...	Stainless steel 37311	...	Brass 37312	...	Workshop assortment 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							58.50	101

Feeler gauge strips | Feeler gauges | Grinding gauges | Twist-drill gauges

37315 Feeler gauge strips

Design
- Carbon steel, hardened
- Width: 12.7 mm
- Length: 5 m
- In plastic box

Note:
From thickness 0.08 mm, marked with dimensions.

37315

Thickness mm	37315 ...
0.01	200
0.02	201
0.03	202
0.04	203
0.05	204
0.06	205
0.07	206
0.08	207

Thickness mm	37315 ...
0.09	208
0.10	209
0.12	210
0.15	211
0.18	212
0.20	213
0.25	214
0.30	215

Thickness mm	37315 ...
0.35	216
0.40	217
0.45	218
0.50	219
0.55	220
0.60	221
0.65	222
0.70	223

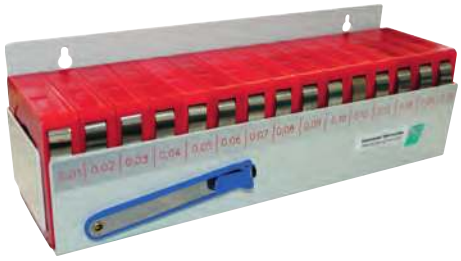
Thickness mm	37315 ...
0.75	224
0.80	225
0.85	226
0.90	227
0.95	228
1.00	229

37317 Feeler gauge strip assortments

Design
- **15 pieces,** in wall mounting incl. mounting for feeler gauge strip and fastening material

- Wall mounting made of sheet steel, painted
- Gauge strips made of carbon steel, hardened
- With size labelling

37317



Dimensions mm	Graduation mm	37317 ...
330 x 100 x 110	0.01–0.25	101
330 x 210 x 220	0.30–1.00	102

37318 Feeler gauge strips (INOX)

Design
- Stainless steel
- Width: 12.7 mm
- Length: 5 m
- In plastic box

Note:
From thickness 0.08 mm, marked with dimensions.

NEW

37318

Thickness mm	37318 ...
0.01	101
0.02	102
0.03	103
0.04	104

Thickness mm	37318 ...
0.05	105
0.06	106
0.07	107
0.08	108

Thickness mm	37318 ...
0.09	109
0.10	110
0.12	111
0.15	112

Thickness mm	37318 ...
0.18	113
0.20	114
0.25	115

37319 Feeler gauge strip assortment (INOX)

Design
- **15 pieces,** in wall mounting incl. mounting for feeler gauge strip and fastening material

- Wall mounting made of sheet steel, painted
- Gauge strips made of stainless steel
- With size labelling

NEW

37319

Dimensions mm	Graduation mm	37319 ...
330 x 100 x 110	0.01–0.25	101

37325 Brass feeler gauges

Design
- Non-magnetic
- Blades conical, replaceable
- In sheath

Contents:
13 blades from 0.05–1.0 mm.
Increasing from 0.05 mm to 0.3 mm in increments of 0.05 mm, increasing from 0.3–1 mm in increments of 0.1 mm.

Applications
To check gaps or the play on slide guides, bearings, Schrader valves, etc.

37325

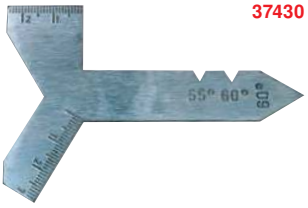
Blade length mm	37325 ...
100	103

37430 Universal grinding gauge

Design
- With square and hexagonal angle
- Every angle milled

Applications
To check the tip angle on twist drills (118°) and the cutting profile on threading tools 60° (metric) and 55° (Ww).

37430



	37430 ...
	101

37431 Twist drill gauge

Design
- Lasered scaling, mm graduation

Quality
Hard-coded aluminium (HRC63).
Scratch-resistant, black anodised surface.

NEW

With thread table on the rear

37431

	37431 ...
	101

Thread gauges | Threading tool gauges | Nozzle gauges | Millimetre hole gauges | Wedge gauges | Welding seam gauges | Radius gauges

37505 - 37508 Thread gauges

Design
High accuracy thanks to machined teeth

Applications
To measure the pitch of female and male threads.

37505
For metric threads,
flank 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 thread,
flank angle 55°,
28 pitches, 4–62 tpi/inch,
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 threads.

37507
Combined for metric and Whitworth thread, 52 pitches, such as art. no. 37505 and 37506 together.

37508
For Whitworth pipe thread,
thread angle 55°,
6 pitches, 8–28 tpi/inch, 8/10/11/14/19/28.

37505

37506

37507

37508

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

37515 - 37530 Thread-cutting gauges

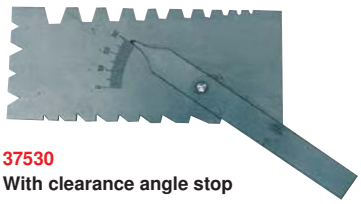
37515
Combined threading tool gauge
Applications
For flat, trapezoidal and triangular threads 55° and 60°.

37530
Combined turning and threading tool gauge
Design
- With clearance angle stop
- Clearance angle adjustment of 0–30° by means of the stop
- Recesses for trapezoidal, Whitworth and metric threads and 40–80° angles

Applications
For checking clearance and wedge angles for turning tools and thread cutting tools.

37515

37530



37530
With clearance angle stop

	37515	...	37530	...
		101		101

37605 - 37610 Nozzle gauges (hole gauges)

37605
Design
- Hardened, round plug gauge
- With protective cap
- Cone 1:10, vernier scale 1:10
- **Reading: Direct reading 0.1 mm, with 10-part vernier scale**

Applications
Mainly for engine and automotive workshops.

37610
Design
- With steel pins
- Mounted in plastic

Applications
For measuring all types of nozzles. Can also be used as a tolerance gauge for small holes.

37605

37610

Measuring range mm	Number of measuring pins	37605	...	37610	...
0–5.0	–		102		
0.45–1.5	20				101
1.50 - 3.0	16				102

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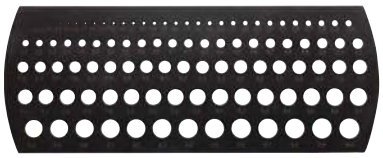
37630 Millimetre hole gauge

Design
- Steel, nitrided

Applications
For measuring wires, twist drills, balls, etc.

37630



Measuring range mm	Pitch mm	Number of holes	37630 ...
0.1 - 10	0.1	100	201

37632 Wedge gauges

Design
- Knurled handle

Applications
For measuring gap dimensions.

37632 101-102
Design
- Special steel
- Ground on all sides
- Brushed chromium-plated
- Lasered scale

37632 103
Design
- ABS plastic
- CNC divided scale

NEW

37632 101

37632 102

37632 103

Measuring range mm	Material	Dimensions mm	Weight g	37632 ...
0.5–7	Special steel	124 x 8 x 8	39	101
0.5–11	Special steel	153 x 12 x 8	62	102
0.5–11	ABS plastic	155 x 12 x 8	17	103

37701 - 37710 Welding seam gauges

Quality
Stainless steel.

37701
Design
- Measuring range 20 mm
- Reading 0.1 mm
- Slide with clamping screw
- In leather bag

Applications
For measuring flat and corner welding seams.
For checking the V-seam, 60, 70, 80 and 90° angles are attached to the gauge.

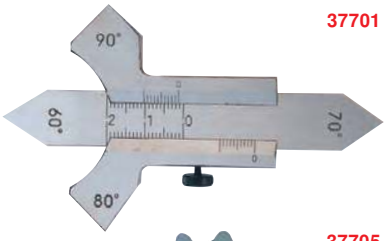
37705
Design
- Fan-like
- 12 blades 3/3.5/4/4.5/5/5.5/6/6.5/7/ 8/10/12 mm, held together by a ring

Applications
For measuring welding seams on corners welded at right angles.

37710
Wedge seam measuring gauge DPB
Design
- Contact on one side only, which means that measuring errors due to angular shrinkage are largely eliminated
- 3 measuring scales, various measuring options
- **Direct reading 0.1 mm**
- In leather bag

Applications
For easy and rapid checking of the welding seam dimensions.

37701



37705

37710

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

37805 - 37806 Radius gauges (concave and convex gauges)

Design
- With locking screw

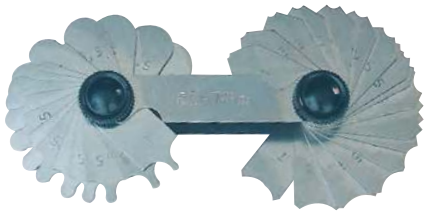
Applications
To check raised or hollow curves that form parts of a circle.

Contents:
Size 1 (1–7 mm) 17 sheets: increasing from 1–3 mm in increments of 0.25 mm, and from 3–7 mm in increments of 0.5 mm.

Size 2 (7.5–15 mm) 16 sheets: increasing in increments of 0.5 mm.

Size 3 (15.5–25 mm) 15 sheets: increasing from 15.5–20 mm in increments of 0.5 mm, and from 20–25 mm in increments of 1 mm.

37805 - 37806



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

Thread indicators | ISO tolerance keys | TORX® profile gauges | Inclinometers | Spirit levels

37905 Thread indicator FILETOR

Design
- Dust and dirt-proof
- Plastic housing 110 x 60 x 30 mm
- Thread display for the following thread types: ISO metric, ISO fine thread, UNC, UNF, UNEF, Ww, BSF, GAS, BA, PG.

Applications
For direct reading of all information necessary to identify a thread with standardised terminology, including core hole Ø.

37905

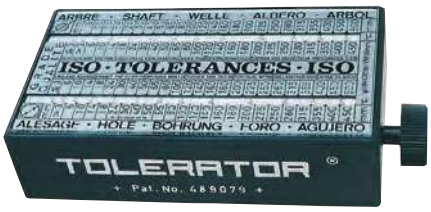
	37905 ...
	101

37912 ISO tolerance key TOLERATOR

Design
- Dust-proof
- Plastic housing 110 x 60 x 30 mm
- Multilingual inscription (French, English, German, Italian, Spanish).

Applications
For direct reading of all tolerance values according to ISO recommendation R 286-1962, contains the complete list of all ISO tolerances used in Germany and abroad up to a nominal size of 500 mm = over 6400 tolerance value pairs.

37912



	37912 ...
	101

37930 TORX® profile gauge

GEDORE
WERKZEUGE FÜRS LEBEN

Applications
For identifying the female and male TORX® screw profiles even in confined spaces. For the sizes E 4–E 16 and T 10–T 60.

37930

	37930 ...
	301

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