

**37006**

**Bevel protractors**

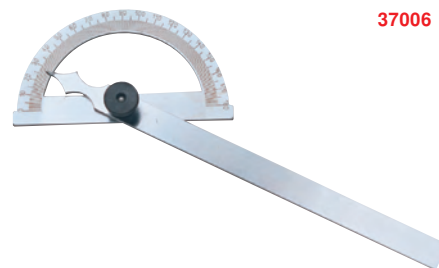


**Type**

- With degree graduation 0-180° and locking screw

**Quality**

Normal steel chrome-plated,  
Scale glare-free matt-chrome-plated.



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 degree graduation 10-170°
- Rail with quantifiable longitudinal adjustment
- End of rail cut at a 45° angle

**Quality**

Normal steel chrome-plated,  
Scale glare-free matt chrome-plated.



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 precision adjustment**
- Division of base plate 4 x 90°
- Scanning precision 1/12° = 5 minutes of arc
- **Parallax-free graduation with opposing vernier** (causing graduation errors to be eliminated almost entirely)
- Hardened measuring edges
- **With 3 interchangeable measuring rails (length 150, 200, 300 mm)**, moveable down the full length
- **Complete with panorama magnifier and additional bracket**
- **In the case**

**Use**

For the measuring of angles on workpieces, fixtures, machines etc. and as ruler, crosswise and mitre angles.

**Quality**

Stainless steel.

**37018**

**Acute angle attachment**

- Length of measuring leg 75 mm
- For the measuring of the smallest angle above 0°
- **Also suitable for cat.-no. 37030**

**37019**

**Prism base**

- With prismatic bottom
- Finely ground on all sides
- For perpendicular clamping of angle blade for measurements directly on the straightening plate
- **Also suitable for cat.-no. 37030**



37012

37018

37019

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

**37030**

**Digital Universal Protractors**



**Type**

- With wear-resistant, capacitive measuring system
- **With precision adjustment**
- Large LC display (8.5 mm)
- Graduation in degrees and minutes (10° 24 min.) or changeable into decimal degrees (10, 40°)
- **Resolution 1 min. or 0.01°**
- **Measuring uncertainty +/- 1 digit**

- Measuring ranges (changeable):  
1 x 360°, 2 x 180°, 4 x 90°

**- Interface Opto RS 232**

- Simplest adjustment or zeroing on every flat surface
- Zeroing (RESET) possible in every position
- Measuring rail interchangeable
- Delivery in the case, incl. battery 3 V (type CR 2032)

**Quality**

Stainless steel, measuring edges hardened.

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



**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.**

37030



**Bevel protractors | Square gauges | Thickness gauges | Foil gauge strips | Thickness gauge stocks**

**37048 Digital bevel protractors**

**Type**  
 - Powerful magnets on both leg edges  
 - With locking screw and HOLD function  
 - Zeroising (ZERO) possible in every position  
 - LC display changeable for clear graduation if the device is placed on its head

- Can be switched on and off with automatic shutdown for long battery service life.  
 Delivery incl. battery 3 V (type CR 2032).

**Note:**  
 Spare batteries see cat.-no. 39900 102.



37048

Blade length mm	Measuring range	Resolution	Precision	Pepeatability precision	37048	...
100	0 - 360°	0.05°	+/- 0.1°	+/- 0.05°		101
200	0 - 360°	0.05°	+/- 0.1°	+/- 0.05°		102
300	0 - 360°	0.05°	+/- 0.1°	+/- 0.05°		103

**37100 - 37101 Precision square gauges**

**37100**  
 Magnetic precision square gauges

**37101**  
 Wooden case for precision square gauges (cat.-no. 37100 101).

**Type**  
 With centre punch and 360° graduation, 90° V-base. Accuracy +/- 0.5°.

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

	Precision	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  
 - Zeroising possible in every position  
 - 9 V battery for approx. 250 hrs service life

**Note:**  
 Spare batteries see cat.-no. 39900 405.

L x W x D mm	Measuring range	Resolution	Precision	Repeatability precision	37103	...
60 x 60 x 35	360° (4 x 90°)	0.05°	+/- 0.1°	0.1°		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.

**Use**  
 In engine production and for measuring light slots.

**37305 102**  
 From 0.05-0.30 mm rising in increments of 0.05 mm, from 0.40-1.00 mm in increments of 0.10 mm.

**37305 103**  
 Rising from 0.05-1.00 mm in 0.05 mm increments.

**37305 104**  
 0.05 mm and from 0.10-2.00 mm rising in 0.10 mm increments.

**37308**  
**Type**  
 Cylindrical shape, width 13 mm. Loose, on ring.

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

**37308 102**  
 Rising from 0.05-0.30 mm in 0.05 mm increments and from 0.40-1.00 mm rising in 0.10 mm increments.

**37308 103**  
 Rising from 0.05-1.00 mm in 0.05 mm increments.

**37308 104**  
 Rising from 0.10-2.00 mm in 0.10 mm increments.

**37308 105**  
 Rising from 0.05-0.30 mm in 0.05 mm increments and from 0.40-1.00 mm rising in 0.10 mm increments.

**37308 106**  
 Rising from 0.05-1.00 mm in 0.05 mm increments.



37305



37308

Number of blades pcs.	Blade length mm	from - to mm	from - to inch	conically		cylindrical	
				37305	...	37308	...
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		
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 <b>NEW</b>
20	300	0.05 - 1.00	.002 - .040				106 <b>NEW</b>

## 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%.

### Use

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/mm<sup>2</sup>. **Foil size 150 x 2500 mm.**

### 37311

**Stainless steel**  
(Material no. 1.4301, 18 Cr 9 Ni). Tensile strength 1300 - 1500 N/mm<sup>2</sup>. **Foil size 150 x 2500 mm.**

### 37312

**Brass** (Ms 63). Tensile strength 440 - 540 N/mm<sup>2</sup>. **Foil size 150 x 2500 mm.**

### 37313

**Workshop assortment**  
**Brass** (Ms 63), tensile strength 440 - 540 N/mm<sup>2</sup>.  
**Contents:**  
1 box each 0.025 / 0.050 / 0.075 and 0.100 mm thickness, **foil size 150x 1200mm.**



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 Thickness Gauge Stocks



### Type

- Carbon steel, hardened
- Width 13 mm
- Length 5 m
- In plastic box



37315

Thickness mm	37315	...	Thickness mm	37315	...	Thickness mm	37315	...	Thickness mm	37315	...
0.01		200	0.09		208	0.35		216	0.75	#	224
0.02		201	0.10		209	0.40		217	0.80		225
0.03		202	0.12		210	0.45		218	0.85	#	226
0.04		203	0.15		211	0.50		219	0.90		227
0.05		204	0.18		212	0.55	#	220	0.95	#	228
0.06		205	0.20		213	0.60		221	1.00		229
0.07		206	0.25		214	0.65	#	222			
0.08		207	0.30		215	0.70		223			

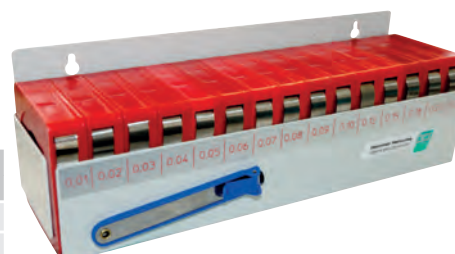
## 37317 Thickness gauge stocks - assortment



### Type

**15-part**, in wall bracket including holder for thickness gauge stock and retaining material.

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



37317



**Thickness gauges | Grinding gauges | Screw Pitch gauges | Screw cutter's gauges |  
Nozzle gauges | Millimetre drill and wire gauge | Weld seam gauges**

**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.

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



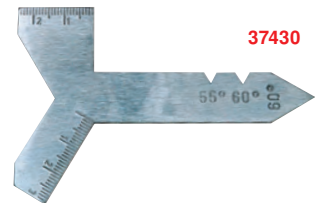
37325

Blade length mm	37325	...
100		103

**37430 Universal grinding gauge**

**Type**  
With steel square and mitre square, all angles milled.

**Use**  
For checking the point angle of twist drills (118°) and the profile of the cutting edge of thread chasers 60° (metric) and 55° (Ww).



37430

	37430	...
		101

**37505 - 37508 Screw Pitch Gauges**

**Type**  
High precision thanks to milled teeth.  
**Use**  
For measuring the pitch of internal and external threads.

**37508**  
For Whitworth pipe threads,  
**Thread angle 55°**, 6 pitches, 8- 28 tpi, 8 / 10 / 11 / 14 / 19 / 28 tpi.



37505

**37505**  
For metric threads,  
**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

**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

**37507**  
**Combined for metric and Whitworth threads**,  
52 pitches, same as cat.-no. 37505 in combination with 37506.



37508

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

**37515 - 37530 Screw Cutter's Gauges**

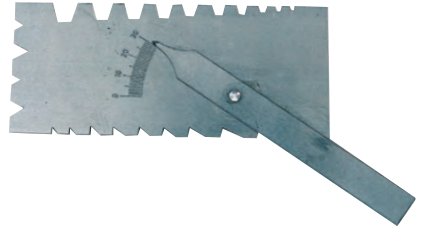
**37515**  
**Combined screw cutter's gauge**  
**Use**  
For flat, trapezoidal, and V-tooth threads 55° and 60°.

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



37515

**37530**  
**Combined lathe tool and screw cutter's gauge**  
**Type**  
With relief angle stop, relief angle adjustment from 0- 30° with help of stop, recessed inserts for trapezoidal, Whitworth and metric threads as well as angles 40 - 80°.



37530

	37515	...	37530	...
		101		101





## 37605 - 37610 Nozzle Gauges (taper gauges)

**37605**

**Type**

Hardened, round taper plug, with protective sleeve, 1:10 vernier, 1:10 taper. **Graduation: Direct reading 0.1 mm, with vernier 10.**

**Use**

Mainly for use in garages and engine workshops.

**37610**

**Type**

With steel pins, plastic covered.

**Use**

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	

## 37630 Millimeter Drill and Wire Gauge

**Type**

Hardened, ground. No. of holes: 100.

**Use**

For measuring wires, twist drills, balls, etc.

Measuring range mm	Pitch mm	37630	...
0.1 - 10	0.1		102



**37630**

## 37700 Digital Weld Seam Gauges

**Type**

Hardened and ground. Can be switched on and off, changeover between mm/inch graduation, indication of measuring values with large LC display.

**Use**

For measuring flat and fillet welds.

With angles 60°, 70°, 80° and 90° for measuring the V-seam of flat weld seams.

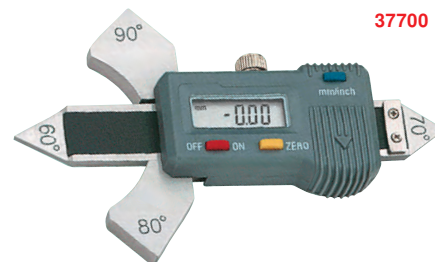
**Quality**

Stainless steel.

**Note:**

Spare batteries see cat.-no. 39900 101.

Measuring range mm	Reading mm	37700	...
0 - 20	0.01		101



**37700**

## 37701 - 37710 Weld Seam Gauges

**Quality**

Stainless steel.

**37701**

**Type**

Measuring range 20 mm, graduation 0.1 mm, slide with clamping screw. In leather case.

**Use**

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.

**Use**

For measuring welds on right angles.

**37710**

**Fillet weld gauge DPB**

**Type**

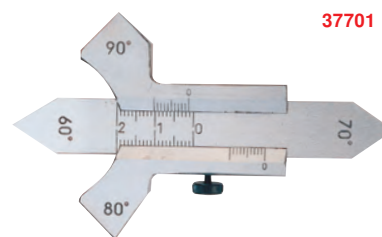
Contact on one side only, avoiding errors due to shrinkage of angle, 3 scales, various methods of measurements, **direct reading 0.1 mm**, in leather case.

**Use**

For quick and simple checking of weld dimensions.



**37705**



**37701**



**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, from 3 - 7 mm in increments of 0.5 mm.  
**Size 2** (7.5 - 15 mm) 16 blades: Rising in 0.5 mm increments

**Size 3** (15.5 - 25 mm) 15 blades: from 15.5 - 20 mm in increments of 0.5 mm, from 20 - 25 mm in increments of 1 mm.

**Use**  
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**  
- Protected against dust and dirt  
- Plastic housing 110 x 60 x 30 mm  
- Thread indicator for the following types of thread: ISO metric, ISO fine threads, UNC, UNF, UNEF, Ww, BSF, GAS, BA, PG.

**Use**  
For direct scanning of all details needed to determine a thread size with standard-compliant terminology – as well as a core hole Ø.

37905



	37905	...
		101

**37912      ISO Tolerance Key TOLERATOR**

**Type**  
- Dust-protected  
- Plastic housing 110 x 60 x 30 mm  
- Multilingual label (French, English, German, Italian, Spanish).

**Use**  
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® profile gauge**



**Use**  
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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**Performance requires quality.**

For example, with the video measurement microscope from ATORN.

- Universal implementation possibilities
- With motorised zoom lens 0.7x to 4.5x
- Intuitive software operation via touch screen PC

