



# Test Equipment

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## Precision Feeler Gauge Sets

tolerance acc. to T3 (DIN 2275)

- high tolerance accuracy for precise measurements
- hardened spring steel, conical shaped blades, 100 mm length
- nickel plated case, riveted
- sizes in mm on each blade



ART NO	quantity of blades	mm	compilation	CC
400101-2	8	0.05 – 0.50	0.05 / 0.10 / 0.15 / 0.20 / 0.25 / 0.30 / 0.40 / 0.50 mm	on request
400105-2	13	0.05 – 1.00	0.05 / 0.10 / 0.15 / 0.20 / 0.25 / 0.30 / 0.40 / 0.50 / 0.60 / 0.70 / 0.80 / 0.90 / 1.00 mm	on request
400107-2	20	0.05 – 1.00	0.05 / 0.10 / 0.15 / 0.20 / 0.25 / 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 mm	on request

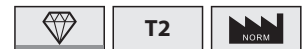
## Feeler Gauge Sets

tolerance acc. to T2

- for standard purposes, like thickness measuring between narrow slots and for automotive- and engine industry
- hardened spring steel, conical shaped blades, 100 mm length
- nickel plated case with lock nut, sizes in mm and inch on each blade
- thickness tolerance in relation to the metric sizes



Other sets are available on request!



ART NO	quantity of blades	mm / inch	compilation	CC
411000	8	0.03 – 0.10 .0012 – .004	0.03 / 0.04 / 0.05 / 0.06 / 0.07 / 0.08 / 0.09 / 0.10 mm .0012 / .0016 / .002 / .0024 / .0028 / .003 / .0035 / .004 inch	on request
411001	8	0.05 – 0.50 .002 – .02	0.05 / 0.10 / 0.15 / 0.20 / 0.25 / 0.30 / 0.40 / 0.50 mm .002 / .004 / .006 / .008 / .010 / .012 / .016 / .020 inch	on request
411003	10	0.05 – 0.80 .002 – .032	0.05 / 0.10 / 0.15 / 0.20 / 0.30 / 0.40 / 0.50 / 0.60 / 0.70 / 0.80 mm .002 / .004 / .006 / .008 / .012 / .016 / .020 / .024 / .028 / .032 inch	on request
411004	10	0.03 – 0.50 .0012 – .02	0.03 / 0.04 / 0.05 / 0.10 / 0.15 / 0.20 / 0.25 / 0.30 / 0.40 / 0.50 mm .0012 / .0016 / .002 / .004 / .006 / .008 / .010 / .012 / .016 / .02 inch	on request
412002	10	0.038 – 0.630 .0015 – .025	0.038 / 0.05 / 0.08 / 0.10 / 0.15 / 0.20 / 0.25 / 0.30 / 0.38 / 0.63 mm .0015 / .002 / .003 / .004 / .006 / .008 / .010 / .012 / .015 / .025 inch	on request
411005	13	0.05 – 1.00 .002 – .04	0.05 / 0.10 / 0.15 / 0.20 / 0.25 / 0.30 / 0.40 / 0.50 / 0.60 / 0.70 / 0.80 / 0.90 / 1.00 mm .002 / .004 / .006 / .008 / .010 / .012 / .016 / .020 / .024 / .028 / .032 / .036 / .040 inch	on request
412005	13	0.05 – 0.88 .002 – .035	0.05 / 0.08 / 0.10 / 0.12 / 0.15 / 0.20 / 0.25 / 0.30 / 0.38 / 0.50 / 0.63 / 0.75 / 0.88 mm .002 / .003 / .004 / .005 / .006 / .008 / .010 / .012 / .015 / .020 / .025 / .030 / .035 inch	on request
411007	20	0.05 – 1.00 .002 – .040	0.05 / 0.10 / 0.15 / 0.20 / 0.25 / 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 mm .002 / .004 / .006 / .008 / .010 / .012 / .014 / .016 / .018 / .020 / .022 / .024 / .026 / .028 / .030 / .032 / .034 / .036 / .038 / .040 inch	on request
411008	21	0.10 – 0.50	0.10 / 0.12 / 0.14 / 0.16 / 0.18 / 0.20 / 0.22 / 0.24 / 0.26 / 0.28 / 0.30 / 0.32 / 0.34 / 0.36 / 0.38 / 0.40 / 0.42 / 0.44 / 0.46 / 0.48 / 0.50 mm	on request
411009	21	0.05 – 2.00	0.05 / 0.10 / 0.20 / 0.30 / 0.40 / 0.50 / 0.60 / 0.70 / 0.80 / 0.90 / 1.00 / 1.10 / 1.20 / 1.30 / 1.40 / 1.50 / 1.60 / 1.70 / 1.80 / 1.90 / 2.00 mm	on request
411010	26	0.03 – 1.00	0.03 / 0.04 / 0.05 / 0.06 / 0.07 / 0.08 / 0.09 / 0.10 / 0.15 / 0.20 / 0.25 / 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 mm	on request
411011	32	0.03 – 1.00 .0012 – .040	0.03 / 0.04 / 0.05 / 0.06 / 0.07 / 0.08 / 0.09 / 0.10 / 0.13 / 0.15 / 0.18 / 0.20 / 0.23 / 0.25 / 0.28 / 0.30 / 0.33 / 0.35 / 0.38 / 0.40 / 0.45 / 0.50 / 0.55 / 0.60 / 0.63 / 0.65 / 0.70 / 0.75 / 0.80 / 0.85 / 0.90 / 0.95 / 1.00 mm .001 / .0015 / .002 / .0025 / .0028 / .003 / .0035 / .004 / .005 / .006 / .007 / .008 / .009 / .010 / .011 / .012 / .013 / .014 / .015 / .016 / .018 / .020 / .022 / .024 / .025 / .026 / .028 / .030 / .032 / .034 / .035 / .040 inch	on request
411012	14	0.03 – 1.00	0.03 / 0.05 / 0.10 / 0.15 / 0.20 / 0.25 / 0.30 / 0.40 / 0.50 / 0.60 / 0.70 / 0.80 / 0.90 / 1.00 mm	on request

# Feeler Gauge Sets

## Feeler Gauge Sets, stainless steel

tolerance acc. to T2

- stainless steel made


- blades made from stainless steel, hard rolled out
- conical shaped blades, 100 mm length
- nickel plated case with lock nut
- sizes in mm and inch on each blade
- thickness tolerance in relation to the metric sizes



INOX

T2

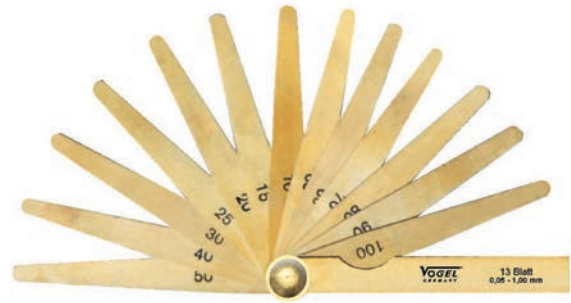



ART N°	quantity of blades	 mm / inch	compilation	CC
413105	13	0.05 – 1 .002 – .04	0.05 / 0.1 / 0.15 / 0.2 / 0.25 / 0.3 / 0.4 / 0.5 / 0.6 / 0.7 / 0.8 / 0.9 / 1 mm .002 / .004 / .006 / .008 / .01 / .012 / .016 / .02 / .024 / .028 / .032 / .036 / .04 inch	on request
413107	20	0.05 – 1 .002 – .04	0.05 / 0.1 / 0.15 / 0.2 / 0.25 / 0.3 / 0.35 / 0.4 / 0.45 / 0.5 / 0.55 / 0.6 / 0.65 / 0.7 / 0.75 / 0.8 / 0.85 / 0.9 / 0.95 / 1 mm .002 / .004 / .006 / .008 / .01 / .012 / .014 / .016 / .018 / .02 / .022 / .024 / .026 / .028 / .03 / .032 / .034 / .036 / .038 / .04 inch	on request

## Feeler Gauge Sets, made from brass

- anti-magnetic gauge, for electrical services

- blades made from brass
- conical shaped blades, 100 mm length
- brass case with lock nut
- sizes in mm on each blade



ART N°	quantity of blades	cover blade	 mm	compilation	CC
414105	13	brass	0.05 – 1	0.05 / 0.1 / 0.15 / 0.2 / 0.25 / 0.3 / 0.4 / 0.5 / 0.6 / 0.7 / 0.8 / 0.9 / 1 mm	on request
414107	20	brass	0.05 – 1	0.05 / 0.1 / 0.15 / 0.2 / 0.25 / 0.3 / 0.35 / 0.4 / 0.45 / 0.5 / 0.55 / 0.6 / 0.65 / 0.7 / 0.75 / 0.8 / 0.85 / 0.9 / 0.95 / 1 mm	on request

## PERMISSIBLE TOLERANCES FOR SPRING BAND STEEL, HARDENED

nominal thickness mm	T2 (A2) +/- mm	T3 (A3) +/- mm	nominal thickness mm	T2 (A2) +/- mm	T3 (A3) +/- mm	nominal thickness mm	T2 (A2) +/- mm	T3 (A3) +/- mm
0.03 / 0.04 / 0.05 / 0.06	0.004	0.003	0.3	0.009	0.007	1.1	0.024	0.017
0.07 / 0.08 / 0.09 / 0.1	0.005	0.004	0.35	0.011	0.007	1.2	0.024	0.018
0.11 / 0.12 / 0.13	0.005	—	0.4 / 0.45	0.012	0.008	1.3	0.028	0.019
0.14 / 0.15	0.006	0.005	0.5 / 0.55	0.014	0.009	1.4	0.028	0.021
0.16 / 0.18	0.007	—	0.6 / 0.65	0.014	0.009	1.5	0.028	0.022
0.2	0.008	0.006	0.7 / 0.75	0.017	0.012	1.6	0.033	0.023
0.22 / 0.24	0.008	—	0.8 / 0.85	0.019	0.013	1.7	0.033	0.024
0.25	0.009	0.006	0.9 / 0.95	0.022	0.014	1.8	0.033	0.026
0.28	0.009	—	1	0.024	0.016	1.9	0.035	0.027
						2	0.035	0.028

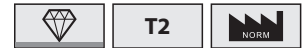


## Valve Regulation Gauge Sets

tolerance acc.to T2

- for adjusting of valves

- blades made from hardened spring steel
- cylindrical shaped blades, 75 mm length, 9 mm width
- fixed by a brass rivet
- sizes in mm and inch on each blade
- delivery bulk packed or in foil
- thickness tolerance in relation to the metric sizes



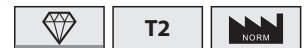
ART <sup>NO</sup> singly packed	quantity of blades	mm / inch	compilation
415106	6	0.10 – 0.40 .004 – .016	0.10 / 0.15 / 0.20 / 0.25 / 0.30 / 0.40 mm .004 / .006 / .008 / .010 / .012 / .016 inch
415107	7	0.10 – 0.50 .004 – .02	0.10 / 0.15 / 0.20 / 0.25 / 0.30 / 0.40 / 0.50 mm .004 / .006 / .008 / .010 / .012 / .016 / .020 inch

## Piston Feeler Gauge Sets

tolerance acc.to T2

- on a metal ring
- for adjusting of valves at narrow spaces and difficult to reach positions, etc.

- blades made from hardened spring steel
- cylindrical shaped blades, 13 mm width
- thickness tolerance in relation to the metric sizes



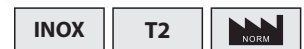
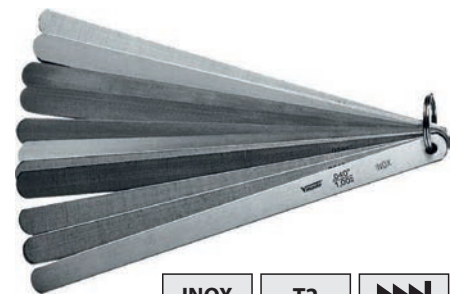
ART <sup>NO</sup> 8 blades 0.05 – 0.50 mm .002 – .02 inch	ART <sup>NO</sup> 13 blades 0.05 – 1.00 mm .002 – .04 inch	ART <sup>NO</sup> 20 blades 0.05 – 1.00 mm .002 – .04 inch	ART <sup>NO</sup> 20 blades 0.10 – 2.00 mm .004 – .08 inch	length of blades mm
436151	436155	436157	436158	150
436201	436205	436207	436208	200
436301	436305	436307	436308	300
436501	436505	436507	436508	500
436991	436995	436997	436998	1000

## Piston Feeler Gauge Sets, stainless steel

tolerance acc.to T2

- on a metal ring
- for adjusting of valves at narrow spaces and to reach difficult positions, etc.

- blades made from stainless steel, hard rolled out
- cylindrical shaped blades, 13 mm width
- thickness tolerance in relation to the metric sizes



ART <sup>NO</sup> 8 blades 0.05 – 0.50 mm .002 – .020 inch	ART <sup>NO</sup> 13 blades 0.05 – 1.00 mm .002 – .040 inch	ART <sup>NO</sup> 20 blades 0.05 – 1.00 mm .002 – .040 inch	length of blades mm
437151	437155	437157	150
437201	437205	437207	200
437301	437305	437307	300



# Feeler Gauge Foils

## Feeler Gauge Spare Blades

• When ordering, please specify blade thickness!



ART <sup>NO</sup> spring steel	steel thickness up to max. mm / inch	ART <sup>NO</sup> brass	brass thickness up to max. mm / inch	conical shape	cylindrical shape	length of blade mm
421110	2 / .08	424110	1 / .04	✓	—	100
431150	2 / .08	—	—	—	✓	150
431200	2 / .08	—	—	—	✓	200
431300	2 / .08	—	—	—	✓	300
431500	2 / .08	—	—	—	✓	500

## Thickness Gauge Foils

tolerance acc. to T2

Other sizes available on request

- 5 meter, rolled
- for automotive and engine industry and as levelling foil

- hardened spring steel or stainless steel, hard rolled out
- sizes in mm and inch on each blade
- rolled in a rugged plastic box
- From thickness 1.10 mm – 2.00 mm → only available in string of 1 m length
- from 0.65 mm rolled, without box



ART <sup>NO</sup> spring steel	ART <sup>NO</sup> stainless steel	mm / inch	length m	ART <sup>NO</sup> spring steel	ART <sup>NO</sup> stainless steel	mm / inch	length m
455001	456001	0.01 / .0004	5	455055	—	0.55 / .022	5
455002	456002	0.02 / .0008	5	455060	—	0.6 / .024	5
455003	456003	0.03 / .0012	5	455065	—	0.65 / .026	5
455004	—	0.04 / .0016	5	455070	—	0.7 / .028	5
455005	456005	0.05 / .002	5	455075	—	0.75 / .03	5
455006	—	0.06 / .0024	5	455080	—	0.8 / .032	5
455007	—	0.07 / .0028	5	455085	—	0.85 / .034	5
455008	—	0.08 / .003	5	455090	—	0.9 / .036	5
455009	—	0.09 / .0035	5	455095	—	0.95 / .038	5
455010	456010	0.1 / .004	5	455100	456100	1 / .04	5
455012	—	0.12 / .005	5	457110	—	1.1	1
455015	456015	0.15 / .006	5	457120	—	1.2	1
455018	—	0.18 / .007	5	457130	—	1.3	1
455020	456020	0.2 / .008	5	457140	—	1.4	1
455025	456025	0.25 / .01	5	457150	—	1.5	1
455030	456030	0.3 / .012	5	457160	—	1.6	1
455035	—	0.35 / .014	5	457170	—	1.7	1
455040	456040	0.4 / .016	5	457180	—	1.8	1
455045	—	0.45 / .018	5	457190	—	1.9	1
455050	456050	0.5 / .02	5	457200	—	2	1

## Holder for Feeler Gauge Blades



ART <sup>NO</sup>	size
458010	125 x 17 mm

## RECORD • Thickness Gauge Foils

DIN EN 10140:2006

- for adjusting, levelling etc.
- rolled in a rugged plastic box
- different material in different widths and different lengths available

brass: CuZn37 (MS63)  
stainless steel: 1.4301  
strength: 1300 – 1500 N/mm<sup>2</sup>



DIN

ART N <sup>o</sup> steel length x width 2500 x 150 mm	ART N <sup>o</sup> brass length x width 2500 x 150 mm	ART N <sup>o</sup> stainless steel length x width 2500 x 25 mm	ART N <sup>o</sup> stainless steel length x width 2500 x 50 mm	ART N <sup>o</sup> stainless steel length x width 2500 x 150 mm	mm
—	462010	463010	464010	465010	0.01
—	462020	463020	464020	465020	0.02
452025	462025	463025	464025	465025	0.025
—	462030	463030	464030	465030	0.03
—	462040	463040	464040	465040	0.04
452050	462050	463050	464050	465050	0.05
—	462060	463060	464060	465060	0.06
—	462070	463070	464070	465070	0.07
452075	462075	463075	464075	465075	0.075
—	462080	463080	464080	465080	0.08
—	462090	463090	464090	465090	0.09
452100	462100	463100	464100	465100	0.1
—	—	463120	464120	465120	0.12
452150	462150	463150	464150	465150	0.15
—	—	463180	464180	465180	0.18
452200	462200	463200	464200	465200	0.2
—	—	463220	464220	465220	0.22
452250	462250	463250	464250	465250	0.25
452300	462300	463300	464300	465300	0.3
—	—	463350	464350	465350	0.35
452400	462400	463400	464400	465400	0.4
—	—	463450	464450	465450	0.45
452500	462500	463500	464500	465500	0.5
—	—	—	—	465600	0.60 (rolled)
—	—	—	—	465700	0.70 (rolled)
—	—	—	—	465800	0.80 (rolled)
—	—	—	—	465999	1.00 (rolled)

## RECORD • Thickness Gauge Foils

DIN EN 10140:2006

- for adjusting, levelling etc.
- stripes in a case with 10 or 5 blades
- different material in different widths and different lengths available



DIN

ART N <sup>o</sup> stainless steel length x width 300 x 50 mm / 10 blades	ART N <sup>o</sup> stainless steel length x width 500 x 150 mm / 5 blades	mm	ART N <sup>o</sup> stainless steel length x width 300 x 50 mm / 10 blades	ART N <sup>o</sup> stainless steel length x width 500 x 150 mm / 5 blades	mm
466010	467010	0.01	466100	467100	0.1
466015	—	0.015	466120	467120	0.12
466020	467020	0.02	466150	467150	0.15
466025	467025	0.025	466180	467180	0.18
466030	467030	0.03	466200	467200	0.2
466040	467040	0.04	466220	467220	0.22
466050	467050	0.05	466250	467250	0.25
466060	467060	0.06	466300	467300	0.3
466070	467070	0.07	466350	467350	0.35
466075	467075	0.075	466400	467400	0.4
466080	467080	0.08	466450	467450	0.45
466090	467090	0.09	466500	467500	0.5

# Other Measuring Devices

## Screw Pitch Gauges

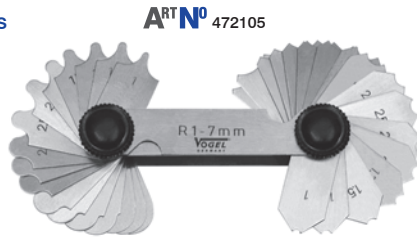
- for internal and external measurements of threads
- fine cutted threads



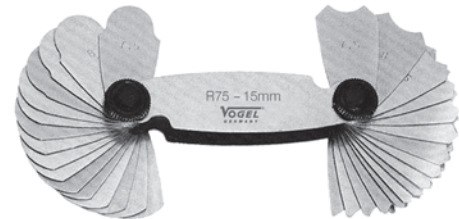
ART N°	quantity of blades	mm / inch	thread type	graduation
471009	24	0.25 – 6 mm	metr. 60°	6 / 5.5 / 5 / 4.5 / 4 / 3.5 / 3 / 2.5 / 2 / 1.75 / 1.5 / 1.25   1 / 0.9 / 0.8 / 0.75 / 0.7 / 0.6 / 0.5 / 0.45 / 0.4 / 0.35 / 0.3 / 0.25
471010	20	0.4 – 7 mm	metr. 60° SI	7 / 6.5 / 6 / 5.5 / 5 / 4.5 / 4 / 3.5 / 3 / 2.5   2 / 1.75 / 1.5 / 1.25 / 1 / 0.8 / 0.75 / 0.7 / 0.5 / 0.4
471011	20	4 – 30 Gang / t.p.i.	whitw. 55°	4 / 4.5 / 5 / 6 / 7 / 8 / 9 / 10 / 11 / 12   13 / 14 / 16 / 18 / 19 / 22 / 24 / 26 / 28 / 30
471012	28	4 – 62 Gang / t.p.i.	whitw. 55°	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
471013	48	4 – 62 mm / 0.4 – 7	whitw. / metr. SI	combined   Art. no.: 471012 + 471010
471014	52	4 – 62 / 0.25 – 6	whitw. / metr.	combined   Art. no.: 471012 + 471009
471015	6	8 – 28 Gang / t.p.i.	whitw. 55°	Tube   8 / 10 / 11 / 14 / 19 / 28
471016	58	4 – 62 / 0.25 – 6 / 8 – 28	whitw. / metr.	combined   Art. no.: 471014 + 471015
471017	14	10 – 40 Gang / t.p.i.	US 60° SAE	10 / 11 / 12 / 13 / 14 / 16 / 18   20 / 24 / 27 / 28 / 32 / 36 / 40
471018	30	6 – 60 Gang / t.p.i.	US 60° SAE	6 / 7 / 8 / 9 / 10 / 11 / 11.5 / 13 / 14 / 15 / 16 / 18 / 20 / 22 / 24   26 / 28 / 30 / 32 / 34 / 36 / 38 / 40 / 42 / 44 / 46 / 48 / 50 / 56 / 60
471019	30	4 – 42 Gang / t.p.i.	US 60° SAE	4 / 4.5 / 5 / 5.5 / 6 / 7 / 8 / 9 / 10 / 11 / 11.5 / 12 / 13 / 14 / 15   16 / 18 / 20 / 22 / 24 / 26 / 27 / 28 / 30 / 32 / 34 / 36 / 38 / 40 / 42
471020	52	4 – 84 Gang / t.p.i.	US 60° SAE	4 / 4.5 / 5 / 5.5 / 6 / 7 / 8 / 9 / 10 / 11 / 11.5 / 12 / 13 / 14 / 15 / 16 / 18 / 20 / 22 / 24 / 25 / 26 / 27 / 28 / 30 / 32   34 / 36 / 38 / 40 / 42 / 44 / 46 / 48 / 50 / 52 / 54 / 56 / 58 / 60 / 62 / 64 / 66 / 68 / 70 / 72 / 74 / 76 / 78 / 80 / 82 / 84
471021	22	4 – 64 Gang / t.p.i.	US 60° UNC	4 / 4.5 / 5 / 6 / 7 / 8 / 9 / 10 / 11 / 12 / 13   14 / 16 / 18 / 20 / 22 / 24 / 32 / 40 / 48 / 56 / 64
471022	16	12 – 80 Gang / t.p.i.	US 60° UNF	12 / 14 / 16 / 18 / 20 / 24 / 28 / 32   36 / 40 / 44 / 48 / 56 / 64 / 72 / 80

## Radius Gauges

- for testing of raised and recessed curves
- concave and convex shaped blades
- fine cutted forms



ART N° 472106 + 472107

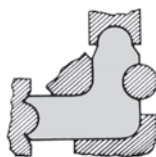


ART N° carbon steel	ART N° stainless steel	quantity of blades	mm	composition mm
472105	472115	34	1 – 7	1 / 1.25 / 1.5 / 1.75 / 2 / 2.25 / 2.5 / 2.75 / 3 / 3.5 / 4 / 4.5 / 5 / 5.5 / 6 / 6.5 / 7
472106	472116	32	7.5 – 15	7.5 / 8 / 8.5 / 9 / 9.5 / 10 / 10.5 / 11 / 11.5 / 12 / 12.5 / 13 / 13.5 / 14 / 14.5 / 15
472107	472117	30	15.5 – 25	15.5 / 16 / 16.5 / 17 / 17.5 / 18 / 18.5 / 19 / 19.5 / 20 / 21 / 22 / 23 / 24 / 25

## Radius Gauge Set

- matt chrome finish
- for testing of raised and recessed curves

- concave and convex shaped blades
- each blade with 5 measuring points

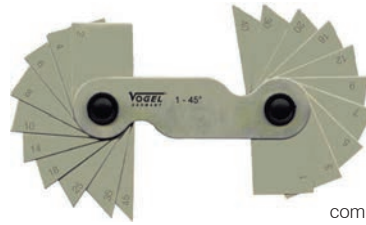


ART N°	quantity of blades	mm	composition mm
472109	26	0.5 – 13	0.5 / 1 / 1.5 / 2 / 2.5 / 3 / 3.5 / 4 / 4.5 / 5 / 5.5 / 6 / 6.5 / 7 / 7.5 / 8 / 8.5 / 9 / 9.5 / 10 / 10.5 / 11 / 11.5 / 12 / 12.5 / 13



## Angle Gauge

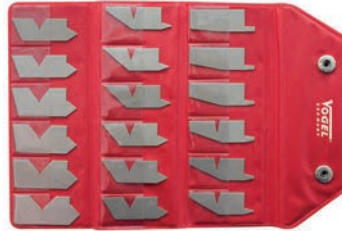
- angles 1° – 45°
- fine machined edges



ART N°	quantity of blades		compilation
472000	20	1 – 45	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 / 9 / 10 / 12 / 14 / 16 / 18 / 20 / 25 / 30 / 35 / 40 / 45

## Angle Gauge Set

- stainless steel
- angles 5° – 90°
- each blade with several angles



ART N°	quantity of blades		compilation
472020	18	5 – 90	5 / 10 / 15 / 20 / 25 / 30 / 35 / 40 / 45 / 50 / 55 / 60 / 65 / 70 / 75 / 80 / 85 / 90

## Angle Thread Cutting Gauge

- suitable for craftsmen and industry
- angles 55° whitworth or 60° metric



ART N° 472001



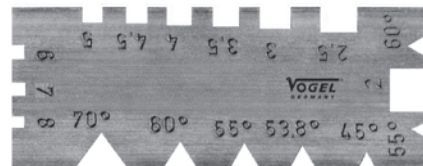
ART N° 472002



ART N°		whitworth	ART N°		mm
472001		55°	472002		60°

## Combined Angle Thread Cutting Gauge

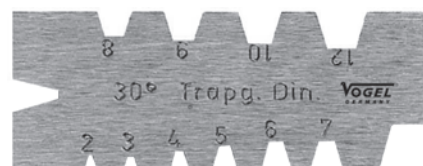
- suitable for craftsmen and industry
- fine machined edges



ART N°	angles threads	flat threads threads/inch (t.p.i.)
472003	45 / 53.8 / 55 / 60 / 70	2 / 2.5 / 3 / 3.5 / 4 / 4.50 / 5 / 6 / 7 / 8

## Trapez Thread Cutting Gauge

- suitable for craftsmen and industry
- fine machined edges



ART N°	trapez thread	trapez pitch mm
472004	30	2 / 3 / 4 / 5 / 6 / 7 / 8 / 9 / 10 / 12

# Other Measuring Devices

## Combined Turning and Thread Cutting Gauge

- suitable for craftsmen and industry
- with trapez- and flat threads



ART NO	trapez threads mm	flat threads threads/inch (t.p.i.)	angles
472005	2 / 3 / 4 / 5 / 6 / 7 / 8 / 9 / 10 / 12	2 / 2.5 / 3 / 3.5 / 4 / 4.5 / 5 / 6 / 7 / 8	55 + 60

## Combined Turning and Thread Cutting Gauge

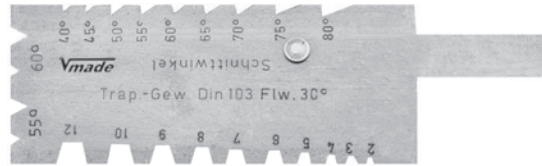
- suitable for craftsmen and industry
- with trapez- and saw cutting angles



ART NO	trapez threads mm	saw cutting angles	angles
472006	2 / 3 / 4 / 5 / 6 / 7 / 8 / 9 / 10 / 12	40 / 45 / 50 / 55 / 60 / 65 / 70 / 75 / 80	55 + 60

## Combined Turning and Thread Cutting Gauge

- suitable for craftsmen and industry
- with trapez- and saw cutting angles, with adjusting angle pointer



ART NO	trapez threads mm	saw cutting angles	adjusting angle	angles
472007	2 / 3 / 4 / 5 / 6 / 7 / 8 / 9 / 10 / 12	40 / 45 / 50 / 55 / 60 / 65 / 70 / 75 / 80	0 – 30	55 + 60

## ACME Thread Cutting Gauge

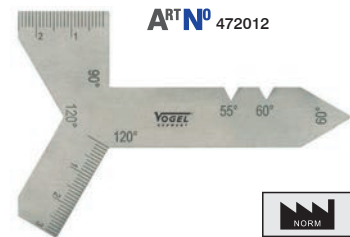
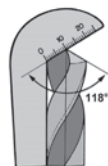
- suitable for craftsmen and industry
- SAE 60° / Ww-BSF 55.0° / 14.5° ACME / 47.5° BA



ART NO	SAE	whitworth BSF	ACME	B.A.
472008	60	55	14.5	47.5

## Twist Drill Grinding Gauges

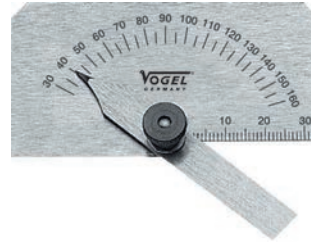
- suitable for craftsmen and industry
- with 118° angle cut (art. no.: 472011)
- with 55° / 60° / 90° / 120° angle cut (art. no.: 472012)



ART NO	angle cut	up to drill-ø mm
472011	118°	50
472012	55 / 60 / 90° / 120	60

## Universal Twist Drill Drinding Gauge

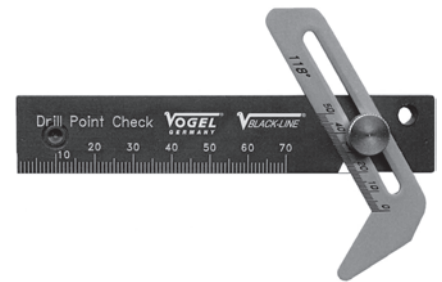
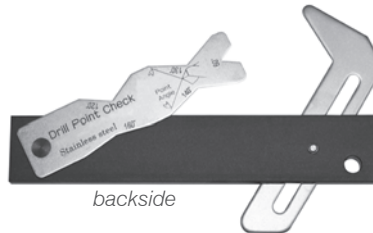
- suitable for craftsmen and industry
- with adjustable angle pointer



ART N°	angle cut °	up to drill-ø mm
472013	30 – 160	60

## Universal Twist Drill Grinding Gauge

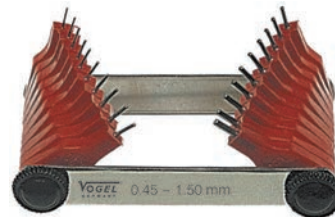
- suitable for craftsmen and industry
- special steel, hardened, ground and burnished
- with angle finder at the rear side



ART N°	mm	angle settings °	up to drill-ø mm
472018	0 – 70	60° / 118° / 120° / 130° / 140° / 160°	100

## Jet Gauges

- suitable for craftsmen and industry
- with hardened steel pins, in plastic holders mounted



ART N°	quantity of pins	mm	composition mm
472201	20	0.45 – 1.5	0.45 / 0.5 / 0.55 / 0.6 / 0.65 / 0.7 / 0.75 / 0.8 / 0.85 / 0.9 / 0.95 / 1 1.05 / 1.1 / 1.15 / 1.2 / 1.25 / 1.3 / 1.4 / 1.5
472202	16	1.5 – 3	1.5 / 1.6 / 1.7 / 1.8 / 1.9 / 2 / 2.1 / 2.2 / 2.3 / 2.4 / 2.5 / 2.6 2.7 / 2.8 / 2.9 / 3

## Precision Jet Gauges

- Product for highest demands
- measuring pin hardened, fine ground
- nickel plated housing



ART N°	mm	mm	taper mm	mm
472219	0 – 3	0.1	1 : 10	Ø 6.5 x 118
472220	0 – 5	0.1	1 : 10	Ø 9 x 176



# Other Measuring Devices

## Taper Gauges

- flat version
- art.-no. 472370 – 472372: made of special steel, hardened
- art.-no. 472373: made of technical ABS plastic
- useful gauge, especially for the inspection of gap size, generators, motors, turbines, engines, etc.

- laser engraved graduation
- with knurled handle



ART N°	cm	mm	mm	version
472370	0 – 7	0.1	124 x 8 x 8	steel
472372	0 – 11	0.1	153 x 8 x 12	steel
472373	5 – 11	0.1	155 x 8 x 12	ABS plastic

## Hole Gauge

- flat version
- rear side with rounded edges

- special steel, hardened and fine ground
- laser engraved graduation

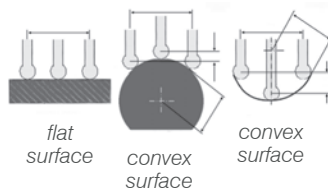


ART N°	cm	mm	mm
472320	1 – 15	0.1	178 x 12 x 2

## Electr. Digital Arc Test Set

- ideal device for tooling

- USB data output
- aluminium housing with sturdy plastic cover
- large LCD display with clear reading, digit height 10 mm
- stem and spindle stainless, hardened and lapped
- exchangeable probe tips, M2.5
- different sized probes for arc measurements
- measured value display in percent and radius display
- autom. power off, zero setting at any position
- Hold function, reading mm/inch, switchable
- incl. 1x 3 V battery (type CR2032, art. no.: 90112), with operation manual

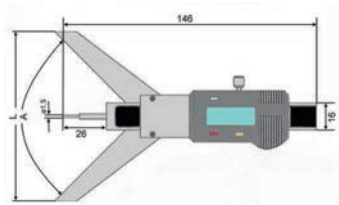
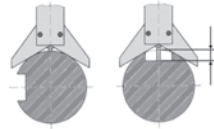


ART N°	linearly mm / inch	radius mm	mm / inch	mm	linearly mm	radius mm
472120	12.7 / 0.5	5 – 700	0.01 / 0.0005	0.01	< 0.02	< 0.02

# Other Measuring Devices and Welding Gauges

## Electr. Digital Keyway Calipers

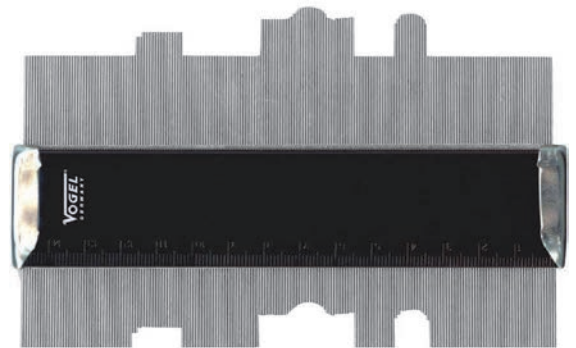
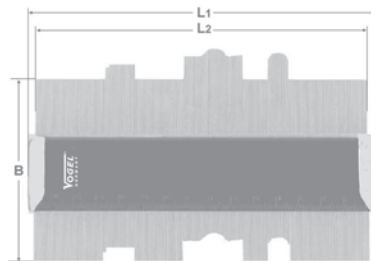
- for measurements of groove depth, etc.
- mechanical parts in stainless steel, hardened
- LCD display with clear reading, digit height 8 mm
- zero setting at any position
- reading switchable in mm/inch
- incl. 1x 1.5 V battery (type LR44, art.-no.: 2020192/B),
- with operation manual



ART NO	mm / inch	mm / inch	mm	A	L mm	for shaft-ø mm
473315	50 / 2	0.01 / 0.0005	0.03	90	100	5 – 140
473316	50 / 2	0.01 / 0.0005	0.03	120	100	5 – 200

## Profile Gauges

- especially use for taking-off and transferring all existing shapes
- with pins made of carbon steel



ART NO	mm	B mm	L2 mm	L1 mm	thickness mm
474501	150 x 40	80	148	154	20
474502	300 x 75	150	293	305	33

## Welding Gauge

- fan shape
- for measuring right angled welds
- stainless steel



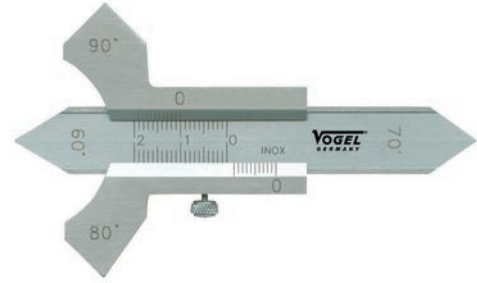
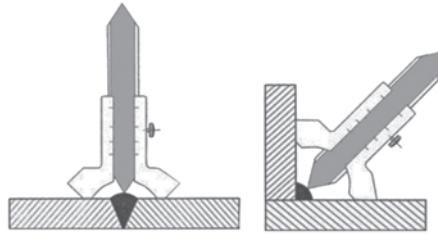
ART NO	quantity of blades	mm	compilation mm
474401	12	3 – 12	3 / 3.5 / 4 / 4.5 / 5 / 5.5 / 6 / 6.5 / 7 / 8 / 10 / 12





# Welding Gauges

## Precision Welding Gauge

- with vernier reading
- for measurements of flat welding seams and in corners etc.

- stainless steel hardened and fine ground
- scale matt chromed
- with fixing screw

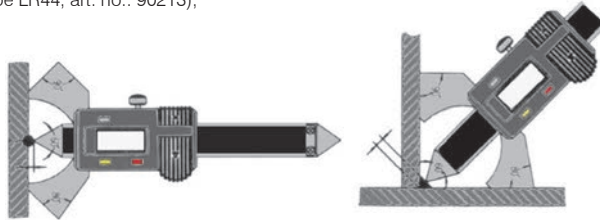







<b>ART N°</b>	 mm	 mm	angle	 mm	
474403	0 – 20	0.1	60 / 70 / 80 / 90	98 x 59 x 5.2	on request

## Electr. Digital Welding Gauge

- with data output RS 232 C

- stainless steel, hardened and ground
- LCD display with clear reading, zero-setting at any position
- On/Off button, reading switchable mm/inch
- incl. 1x 1.5 V battery (type LR44, art. no.: 90213), with operation manual

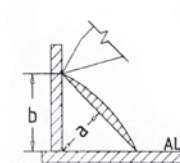


<b>ART N°</b>	 mm / inch	 mm / inch	 max.	angle	 mm	
474410	0 – 20 / 0 – 0.8	0.01 / 0.0005	0.03	60 / 70 / 80 / 90	100 x 62 x 14	on request

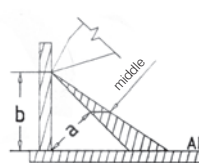
## Precision Welding Gauge

- with reading window

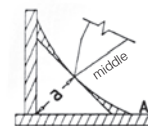
- stainless steel, hardened and fine ground
- reading through a window by a reference line



Read b from scale B.  
When measuring b,  
read a from scale C.



Permissible „a“  
with unequal legs.  
Rest on the  
long arm (AL)



Read a from  
scale A.

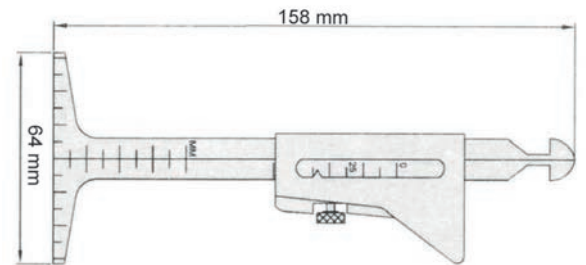
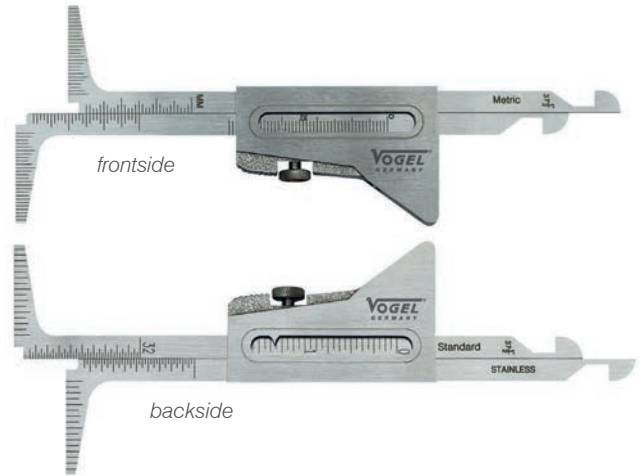
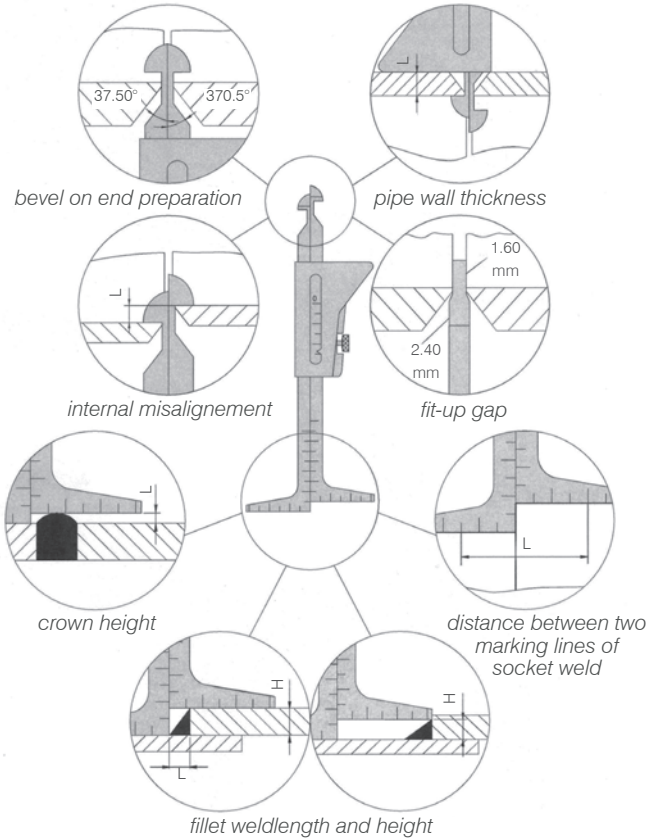




<b>ART N°</b>	 mm	 mm	
474404	0,1	108 x 81.5 x 3.2	on request



## Pipe Welding Gauge / Edge Offset Gauge

- with opposite movable measuring jaws
- for pipe welds up to 35.0 mm wall thickness
- stainless steel, hardened, polished surfaces
- reading scale in mm and inch, laser engraved graduation
- with reading window, with fixing screw



<b>ART<sup>NO</sup></b>			
474409	35	1	158 x 64 x 7

## Measuring Tool Set

- selection of need-based compilations

<b>ART<sup>NO</sup></b> SET	pieces	consisting of	article
479901	4	<b>Welding Gauge</b> stainless steel, fan shape, quantity of blades 12, 3 – 12 mm  <b>Precision Welding Gauge</b> stainless steel, hardened and fine ground, with vernier reading, scale matt chromed, with fixing screw  <b>Precision Welding Gauge</b> stainless steel, hardened and fine ground, reading through a indow by a reference line  <b>Pipe Welding Gauge / Edge Offset Gauge</b> with opposite movable measuring jaws, for pipe welds up to 35.0 mm wall thickness, stainless, hardened, reading 1.0 mm	474401 474403 474404 474409

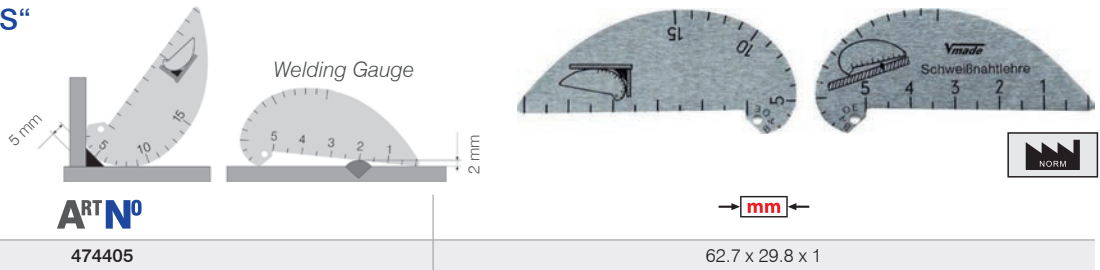
**ART<sup>NO</sup>** 479901



# Welding Gauges

## Welding Gauge "S"

- for craft
- made from aluminium



ART NO

474405

62.7 x 29.8 x 1

Other tolerances on request  
available: 37090-xxx

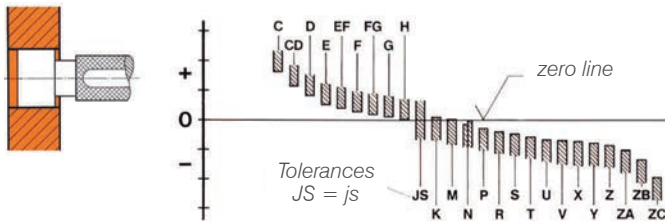
## Limit Plug Gauges

DIN EN ISO 1938-1

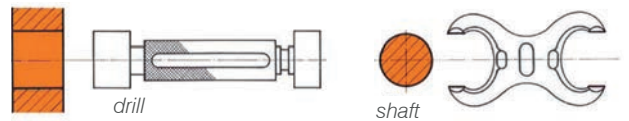
- designed acc. to DIN 2245 / 2246 / 2247
- special steel, finely ground and lapped
- with „Go“ and „No-Go“ side



### Dimensions for bores and shafts



### Dimensions for bores and shafts



ART NO tolerance H7	size- $\phi$ mm	CC
37080-0010	1	on request
37080-0012	1.2	on request
37080-0015	1.5	on request
37080-0018	1.8	on request
37080-0020	2	on request
37080-0022	2.2	on request
37080-0025	2.5	on request
37080-0028	2.8	on request
37080-0030	3	on request
37080-0035	3.5	on request
37080-0040	4	on request
37080-0045	4.5	on request
37080-0050	5	on request
37080-0060	6	on request
37080-0070	7	on request
37080-0080	8	on request
37080-0090	9	on request
37080-0100	10	on request
37080-0110	11	on request
37080-0120	12	on request
37080-0130	13	on request
37080-0140	14	on request
37080-0150	15	on request
37080-0160	16	on request
37080-0170	17	on request
37080-0180	18	on request
37080-0190	19	on request
37080-0200	20	on request
37080-0210	21	on request
37080-0220	22	on request
37080-0230	23	on request
37080-0240	24	on request
37080-0250	25	on request
37080-0260	26	on request
37080-0270	27	on request
37080-0280	28	on request

ART NO tolerance H7	size- $\phi$ mm	CC
37080-0300	30	on request
37080-0320	32	on request
37080-0330	33	on request
37080-0340	34	on request
37080-0350	35	on request
37080-0360	36	on request
37080-0370	37	on request
37080-0380	38	on request
37080-0400	40	on request
37080-0420	42	on request
37080-0440	44	on request
37080-0450	45	on request
37080-0460	46	on request
37080-0470	47	on request
37080-0480	48	on request
37080-0500	50	on request
37080-0520	52	on request
37080-0550	55	on request
37080-0580	58	on request
37080-0600	60	on request
37080-0620	62	on request
37080-0650	65	on request
37080-0680	68	on request
37080-0700	70	on request
37080-0720	72	on request
37080-0750	75	on request
37080-0780	78	on request
37080-0800	80	on request
37080-0820	82	on request
37080-0850	85	on request
37080-0880	88	on request
37080-0900	90	on request
37080-0920	92	on request
37080-0950	95	on request
37080-0980	98	on request
37080-1000	100	on request

Limit Thread Plug Gauge Set  
Limit Thread Ring Gauge Set  
Limit Plug Gauge Set

- acc. to DIN tolerances
- special steel, hardened, fine ground



ART NO	plug gauge set	ring gauge set	„Go“	„No-Go“	contents mm	CC
390801	✓	—	✓	✓	M 3 / M 4 / M 5 / M 6 / M 8 / M 10 / M 12	on request
390805	—	✓	✓	—	M 3 / M 4 / M 5 / M 6 / M 8 / M 10 / M 12	on request
390806	—	✓	—	✓	M 3 / M 4 / M 5 / M 6 / M 8 / M 10 / M 12	on request
370801	✓	—	✓	✓	3H7 / 4H7 / 5H7 / 6H7 / 8H7 / 10H7 / 12H7	on request

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# Setting Ring Gauges

## Setting Ring Gauges, acc. to DIN 2250 C, DIN ISO 286/1

- special steel, hardened, finely ground and lapped

Other tolerances  
available on request!



ART NO setting ring	ø mm	CC
370770-0010	1.00	on request
370770-0012	1.20	on request
370770-0015	1.50	on request
370770-0018	1.80	on request
370770-0020	2.00	on request
370770-0022	2.20	on request
370770-0025	2.50	on request
370770-0028	2.80	on request
370770-0030	3.00	on request
370770-0035	3.50	on request
370770-0040	4.00	on request
370770-0045	4.50	on request
370770-0050	5.00	on request
370770-0060	6.00	on request
370770-0070	7.00	on request
370770-0080	8.00	on request
370770-0090	9.00	on request
370770-0100	10.00	on request
370770-0110	11.00	on request
370770-0120	12.00	on request
370770-0130	13.00	on request
370770-0140	14.00	on request
370770-0150	15.00	on request
370770-0160	16.00	on request
370770-0170	17.00	on request
370770-0180	18.00	on request
370770-0190	19.00	on request
370770-0200	20.00	on request
370770-0210	21.00	on request
370770-0220	22.00	on request
370770-0230	23.00	on request
370770-0240	24.00	on request
370770-0250	25.00	on request
370770-0260	26.00	on request
370770-0270	27.00	on request
370770-0280	28.00	on request
370770-0300	30.00	on request
370770-0320	32.00	on request
370770-0330	33.00	on request
370770-0340	34.00	on request
370770-0350	35.00	on request
370770-0360	36.00	on request
370770-0370	37.00	on request
370770-0380	38.00	on request
370770-0400	40.00	on request
370770-0420	42.00	on request
370770-0440	44.00	on request
370770-0450	45.00	on request
370770-0460	46.00	on request
370770-0470	47.00	on request
370770-0480	48.00	on request
370770-0500	50.00	on request

ART NO setting ring	ø mm	CC
370770-0520	52.00	on request
370770-0550	55.00	on request
370770-0580	58.00	on request
370770-0600	60.00	on request
370770-0620	62.00	on request
370770-0650	65.00	on request
370770-0680	68.00	on request
370770-0700	70.00	on request
370770-0720	72.00	on request
370770-0750	75.00	on request
370770-0780	78.00	on request
370770-0800	80.00	on request
370770-0820	82.00	on request
370770-0850	85.00	on request
370770-0880	88.00	on request
370770-0900	90.00	on request
370770-0920	92.00	on request
370770-0950	95.00	on request
370770-0980	98.00	on request
370770-1000	100.00	on request
370770-1050	105.00	on request
370770-1100	110.00	on request
370770-1150	115.00	on request
370770-1200	120.00	on request
370770-1250	125.00	on request
370770-1300	130.00	on request
370770-1350	135.00	on request
370770-1400	140.00	on request
370770-1450	145.00	on request
370770-1500	150.00	on request
370770-1550	155.00	on request
370770-1600	160.00	on request
370770-1650	165.00	on request
370770-1700	170.00	on request
370770-1750	175.00	on request
370770-1800	180.00	on request
370770-1850	185.00	on request
370770-1900	190.00	on request
370770-1950	195.00	on request
370770-2000	200.00	on request
370770-2100	210.00	on request
370770-2200	220.00	on request
370770-2400	240.00	on request
370770-2500	250.00	on request
370770-2600	260.00	on request
370770-2800	280.00	on request
370770-3000	300.00	on request
370770-3200	320.00	on request
370770-3400	340.00	on request
370770-3600	360.00	on request
370770-3800	380.00	on request
370770-4000	400.00	on request

# Setting Ring Gauges

## Limit Thread Plug Gauges

DIN 13

- metric ISO-threads

- special steel, hardened and finely ground
- „Go“ and „No-Go“ thread plug gauge

Other sizes or types are available on request!



ART N°	tolerance class	thread-ø mm	CC
390101	5H	1 x 0.25	on request
390102	5H	1.1 x 0.25	on request
390103	5H	1.2 x 0.25	on request
390104	5H	1.4 x 0.3	on request
390105	6H	1.6 x 0.35	on request
390106	6H	1.8 x 0.35	on request
390107	6H	2 x 0.4	on request
390108	6H	2.2 x 0.45	on request
390109	6H	2.5 x 0.45	on request
390110	6H	3 x 0.5	on request
390111	6H	3.5 x 0.6	on request
390112	6H	4 x 0.7	on request
390113	6H	4.5 x 0.75	on request
390114	6H	5 x 0.8	on request
390115	6H	6 x 1	on request
—	—	—	—

ART N°	tolerance class	thread-ø mm	CC
390116	6H	7 x 1	on request
390117	6H	8 x 1.25	on request
390118	6H	9 x 1.25	on request
390119	6H	10 x 1.5	on request
390120	6H	12 x 1.75	on request
390121	6H	14 x 2	on request
390122	6H	16 x 2	on request
390123	6H	18 x 2.5	on request
390124	6H	20 x 2.5	on request
390125	6H	22 x 2.5	on request
390126	6H	24 x 3	on request
390127	6H	27 x 3	on request
390128	6H	30 x 3.5	on request
390129	6H	33 x 3.5	on request
390130	6H	36 x 4	on request
390131	6H	39 x 4	on request

## „Go“ or „No-Go“ Thread Ring Gauges

DIN 13

- metric ISO-threads

- special steel, hardened and finely ground

type B „Go“ thread ring gauge

type C „No-Go“ thread ring gauge



type B



type C



ART N° type B	ART N° type C	tolerance class	thread-ø mm	CC
390201	390301	6h	1 x 0.25	on request
390202	390302	6h	1.1 x 0.25	on request
390203	390303	6h	1.2 x 0.25	on request
390204	390304	6h	1.4 x 0.3	on request
390205	390305	6g	1.6 x 0.35	on request
390206	390306	6g	1.8 x 0.35	on request
390207	390307	6g	2 x 0.4	on request
390208	390308	6g	2.2 x 0.45	on request
390209	390309	6g	2.5 x 0.45	on request
390210	390310	6g	3 x 0.5	on request
390211	390311	6g	3.5 x 0.6	on request
390212	390312	6g	4 x 0.7	on request
390213	390313	6g	4.5 x 0.75	on request
390214	390314	6g	5 x 0.8	on request
390215	390315	6g	6 x 1	on request
390216	390316	6g	7 x 1	on request
390217	390317	6g	8 x 1.25	on request
390218	390318	6g	9 x 1.25	on request
390219	390319	6g	10 x 1.5	on request
—	—	—	—	—

ART N° type B	ART N° type C	tolerance class	thread-ø mm	CC
390220	390320	6g	12 x 1.75	on request
390221	390321	6g	14 x 2	on request
390222	390322	6g	16 x 2	on request
390223	390323	6g	18 x 2.5	on request
390224	390324	6g	20 x 2.5	on request
390225	390325	6g	22 x 2.5	on request
390226	390326	6g	24 x 3	on request
390227	390327	6g	27 x 3	on request
390228	390328	6g	30 x 3.5	on request
390229	390329	6g	33 x 3.5	on request
390230	390330	6g	36 x 4	on request
390231	390331	6g	39 x 4	on request
390232	390332	6g	42 x 4.5	on request
390233	390333	6g	45 x 4.5	on request
390234	390334	6g	48 x 5	on request
390235	390335	6g	52 x 5	on request
390236	390336	6g	56 x 5.5	on request
390237	390337	6g	60 x 5.5	on request
390238	390338	6g	64 x 6	on request
390239	390339	6g	68 x 6	on request

# Precision Measuring Steel Pins and Holder

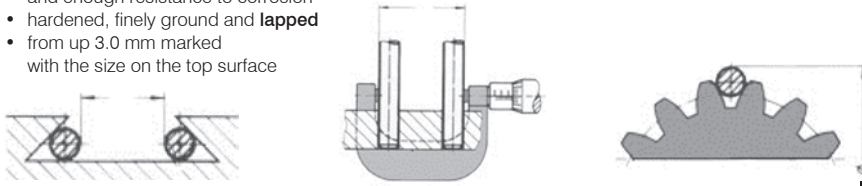
## Cylindrical Measuring Pins in a Set


DIN 2269

Other sizes available  
on request!



- Product for highest demands
- special chrome-steel with high wearing quality and enough resistance to corrosion
- hardened, finely ground and **lapped**
- from up 3.0 mm marked with the size on the top surface



ART N°	contents pcs.	size-ø mm	steps mm	 ± mm	length mm	CC
380210	21	0.1 – 0.3	0.01	0.0005	30	on request
380211	21	0.3 – 0.5	0.01	0.0005	30	on request
380212	51	0.5 – 1	0.01	0.0005	30	on request
380213	19	0.1 – 1	0.05	0.0005	30	on request
380301	21	0.1 – 0.3	0.01	0.001	40	on request
380302	21	0.3 – 0.5	0.01	0.001	40	on request
380303	51	0.5 – 1	0.01	0.001	40	on request
380304	19	0.1 – 1	0.05	0.001	40	on request
380307	21	1 – 2	0.05	0.001	70	on request
380308	21	2 – 3	0.05	0.001	70	on request
380309	21	3 – 4	0.05	0.001	70	on request
380310	21	4 – 5	0.05	0.001	70	on request
380311	21	5 – 6	0.05	0.001	70	on request
380312	21	6 – 7	0.05	0.001	70	on request
380313	21	7 – 8	0.05	0.001	70	on request
380314	21	8 – 9	0.05	0.001	70	on request
380315	21	9 – 1	0.05	0.001	70	on request
380316	100	10.01 – 11	0.01	0.002	50	on request
380317	100	11.01 – 12	0.01	0.002	50	on request
380318	100	12.01 – 13	0.01	0.002	50	on request
380319	100	13.01 – 14	0.01	0.002	50	on request
380320	100	14.01 – 15	0.01	0.002	50	on request
380321	100	15.01 – 16	0.01	0.002	50	on request
380323	100	16.01 – 17	0.01	0.002	50	on request
380324	100	17.01 – 18	0.01	0.002	50	on request
380325	100	18.01 – 19	0.01	0.002	50	on request
380326	100	19.01 – 2	0.01	0.002	50	on request
380350	101	1 – 2	0.01	0.001	70	on request
380351	101	2 – 3	0.01	0.001	70	on request
380352	101	3 – 4	0.01	0.001	70	on request
380353	101	4 – 5	0.01	0.001	70	on request
380354	101	5 – 6	0.01	0.001	70	on request
380355	101	6 – 7	0.01	0.001	70	on request
380356	101	7 – 8	0.01	0.001	70	on request
380357	101	8 – 9	0.01	0.001	70	on request
380358	101	9 – 10	0.01	0.001	70	on request
380341	41	1 – 5	0.10	0.001	70	on request
380342	91	1 – 10	0.10	0.001	70	on request
380343	91	0.5 – 5	0.05	0.001	40 / 70	on request
380344	100	5.05 – 10	0.05	0.001	70	on request
380345	100	10.05 – 15	0.05	0.002	50	on request
380346	100	15.05 – 20	0.05	0.002	50	on request

## Pin Holder

- with marking "G" (Go) + "A" (No-Go)



ART N°	for pin-ø mm	ART N°	for pin-ø mm	ART N°	for pin-ø mm
381001	1 – 2	381003	4 – 6	381005	8 – 10
381002	2 – 4	381004	6 – 8	—	—

# Precision Measuring Steel Pins and Holder

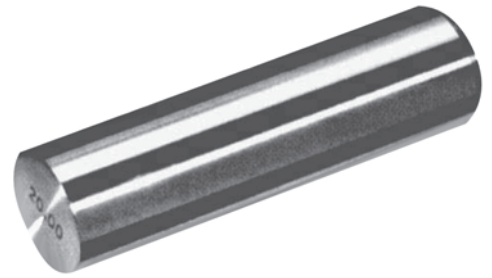
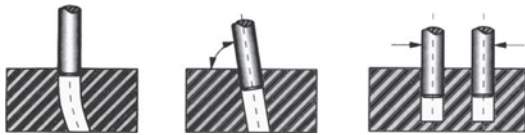
## Singly Cylindrical Measuring Pins

DIN 2269

- for inspection and measuring of bores, bore distances, or as setting-gauge for measuring instruments
- for inspection of internal- and external-tooth system and many other application
- special chrome steel with high wearing quality and enough resistance to corrosion, hardened, finely ground and lapped

### Option

- alloy steel handle, available at extra charge (when order the handle, specify the diameter also, please!)



Other sizes available on request!  
Price depending on size value.



ART N°	size- $\phi$ mm	$\begin{matrix} \text{max.} \\ \text{mm} \\ \pm \text{ mm} \end{matrix}$	length mm	CC
3805010...	0.10 – 1.00	0.0005	30	on request
3805011...	0.10 – 0.99	0.0010	40	on request
3805012...	1.00 – 3.00	0.0010	40	on request
3805013...	1.00 – 3.00	0.0010	70	on request
3805014...	3.01 – 6.00	0.0010	70	on request
3805015...	6.01 – 10.20	0.0010	70	on request

ART N°	size- $\phi$ mm	$\begin{matrix} \text{max.} \\ \text{mm} \\ \pm \text{ mm} \end{matrix}$	length mm	CC
3805030...	10.00 – 12.00	0.0020	50	on request
3805031...	12.01 – 14.00	0.0020	50	on request
3805032...	14.01 – 16.00	0.0020	50	on request
3805033...	16.01 – 18.00	0.0020	50	on request
3805034...	18.01 – 20.05	0.0020	50	on request
—	—	—	—	—

## Repair Service

Benefit from our many years of experience in the repair of measuring tools and the procurement of spare parts and accessories. By having the measuring tools checked by us or our calibration laboratory, you save time, money and unnecessary transport when troubleshooting errors.

Repair, adjustment and testing / calibration from a single source ensure that your measuring tools are in perfect condition.

### Overview of services:

- ✓ Visual and functional test
- ✓ Dismantling and cleaning
- ✓ Replacement of the defect parts
- ✓ Assembly with function test
- ✓ Calibration if desired

Any questions?

**We are happy to help.**





# Parallel Gauge Blocks

## Parallel Gauge Blocks, individual

DIN EN ISO 3650

### • product for highest demands

- from specially alloyed, particularly cured and relaxed special steel or of zirconia ceramic (best ceramic grade)
- ceramic gauge blocks are particularly suitable for the measurement chamber and test room
- each gauge block is marked with an identification number



### Option

- gauge blocks made of tungsten carbide available on request

DIN EN ISO

size = nominal size mm	ART N <sup>o</sup> steel	ART N <sup>o</sup> ceramic	ART N <sup>o</sup> steel	ART N <sup>o</sup> ceramic
	tolerance class 0	tolerance class 0	tolerance class 1	tolerance class 1
0.5	350200-00050	350201-00050	350210-00050	350211-00050
1	350200-001000	350201-001000	350210-001000	350211-001000
1.0005	350200-0010005	350201-0010005	350210-0010005	350211-0010005
1.001	350200-001001	350201-001001	350210-001001	350211-001001
1.002	350200-001002	350201-001002	350210-001002	350211-001002
1.003	350200-001003	350201-001003	350210-001003	350211-001003
1.004	350200-001004	350201-001004	350210-001004	350211-001004
1.005	350200-001005	350201-001005	350210-001005	350211-001005
1.006	350200-001006	350201-001006	350210-001006	350211-001006
1.007	350200-001007	350201-001007	350210-001007	350211-001007
1.008	350200-001008	350201-001008	350210-001008	350211-001008
1.009	350200-001009	350201-001009	350210-001009	350211-001009
1.01	350200-00101	350201-00101	350210-00101	350211-00101
1.02	350200-00102	350201-00102	350210-00102	350211-00102
1.03	350200-00103	350201-00103	350210-00103	350211-00103
1.04	350200-00104	350201-00104	350210-00104	350211-00104
1.05	350200-00105	350201-00105	350210-00105	350211-00105
1.06	350200-00106	350201-00106	350210-00106	350211-00106
1.07	350200-00107	350201-00107	350210-00107	350211-00107
1.08	350200-00108	350201-00108	350210-00108	350211-00108
1.09	350200-00109	350201-00109	350210-00109	350211-00109
1.1	350200-00110	350201-00110	350210-00110	350211-00110
1.11	350200-00111	350201-00111	350210-00111	350211-00111
1.12	350200-00112	350201-00112	350210-00112	350211-00112
1.13	350200-00113	350201-00113	350210-00113	350211-00113
1.14	350200-00114	350201-00114	350210-00114	350211-00114
1.15	350200-00115	350201-00115	350210-00115	350211-00115
1.16	350200-00116	350201-00116	350210-00116	350211-00116
1.17	350200-00117	350201-00117	350210-00117	350211-00117
1.18	350200-00118	350201-00118	350210-00118	350211-00118
1.19	350200-00119	350201-00119	350210-00119	350211-00119
1.2	350200-00120	350201-00120	350210-00120	350211-00120
1.21	350200-00121	350201-00121	350210-00121	350211-00121
1.22	350200-00122	350201-00122	350210-00122	350211-00122
1.23	350200-00123	350201-00123	350210-00123	350211-00123
1.24	350200-00124	350201-00124	350210-00124	350211-00124
1.25	350200-00125	350201-00125	350210-00125	350211-00125
1.26	350200-00126	350201-00126	350210-00126	350211-00126
1.27	350200-00127	350201-00127	350210-00127	350211-00127
1.28	350200-00128	350201-00128	350210-00128	350211-00128
1.29	350200-00129	350201-00129	350210-00129	350211-00129
1.3	350200-00130	350201-00130	350210-00130	350211-00130
1.31	350200-00131	350201-00131	350210-00131	350211-00131
1.32	350200-00132	350201-00132	350210-00132	350211-00132
1.33	350200-00133	350201-00133	350210-00133	350211-00133
1.34	350200-00134	350201-00134	350210-00134	350211-00134
1.35	350200-00135	350201-00135	350210-00135	350211-00135
1.36	350200-00136	350201-00136	350210-00136	350211-00136
1.37	350200-00137	350201-00137	350210-00137	350211-00137
1.38	350200-00138	350201-00138	350210-00138	350211-00138
1.39	350200-00139	350201-00139	350210-00139	350211-00139
1.4	350200-00140	350201-00140	350210-00140	350211-00140
1.41	350200-00141	350201-00141	350210-00141	350211-00141
1.42	350200-00142	350201-00142	350210-00142	350211-00142
1.43	350200-00143	350201-00143	350210-00143	350211-00143
1.44	350200-00144	350201-00144	350210-00144	350211-00144
1.45	350200-00145	350201-00145	350210-00145	350211-00145
1.46	350200-00146	350201-00146	350210-00146	350211-00146
1.47	350200-00147	350201-00147	350210-00147	350211-00147

# Parallel Gauge Blocks

size = nominal size mm	ART N° steel	ART N° ceramic	ART N° steel	ART N° ceramic
	tolerance class 0	tolerance class 0	tolerance class 1	tolerance class 1
1.48	350200-00148	350201-00148	350210-00148	350211-00148
1.49	350200-00149	350201-00149	350210-00149	350211-00149
1.5	350200-00150	350201-00150	350210-00150	350211-00150
1.6	350200-00160	350201-00160	350210-00160	350211-00160
1.7	350200-00170	350201-00170	350210-00170	350211-00170
1.8	350200-00180	350201-00180	350210-00180	350211-00180
1.9	350200-00190	350201-00190	350210-00190	350211-00190
2	350200-00200	350201-00200	350210-00200	350211-00200
2.5	350200-00250	350201-00250	350210-00250	350211-00250
3	350200-00300	350201-00300	350210-00300	350211-00300
3.5	350200-00350	350201-00350	350210-00350	350211-00350
4	350200-00400	350201-00400	350210-00400	350211-00400
4.5	350200-00450	350201-00450	350210-00450	350211-00450
5	350200-00500	350201-00500	350210-00500	350211-00500
5.5	350200-00550	350201-00550	350210-00550	350211-00550
6	350200-00600	350201-00600	350210-00600	350211-00600
6.5	350200-00650	350201-00650	350210-00650	350211-00650
7	350200-00700	350201-00700	350210-00700	350211-00700
7.5	350200-00750	350201-00750	350210-00750	350211-00750
8	350200-00800	350201-00800	350210-00800	350211-00800
8.5	350200-00850	350201-00850	350210-00850	350211-00850
9	350200-00900	350201-00900	350210-00900	350211-00900
9.5	350200-00950	350201-00950	350210-00950	350211-00950
10	350200-01000	350201-01000	350210-01000	350211-01000
10.5	350200-01050	350201-01050	350210-01050	350211-01050
11	350200-01100	350201-01100	350210-01100	350211-01100
11.5	350200-01150	350201-01150	350210-01150	350211-01150
12	350200-01200	350201-01200	350210-01200	350211-01200
12.5	350200-01250	350201-01250	350210-01250	350211-01250
13	350200-01300	350201-01300	350210-01300	350211-01300
13.5	350200-01350	350201-01350	350210-01350	350211-01350
14	350200-01400	350201-01400	350210-01400	350211-01400
14.5	350200-01450	350201-01450	350210-01450	350211-01450
15	350200-01500	350201-01500	350210-01500	350211-01500
15.5	350200-01550	350201-01550	350210-01550	350211-01550
16	350200-01600	350201-01600	350210-01600	350211-01600
16.5	350200-01650	350201-01650	350210-01650	350211-01650
17	350200-01700	350201-01700	350210-01700	350211-01700
17.5	350200-01750	350201-01750	350210-01750	350211-01750
18	350200-01800	350201-01800	350210-01800	350211-01800
18.5	350200-01850	350201-01850	350210-01850	350211-01850
19	350200-01900	350201-01900	350210-01900	350211-01900
19.5	350200-01950	350201-01950	350210-01950	350211-01950
20	350200-02000	350201-02000	350210-02000	350211-02000
21	350200-02100	350201-02100	350210-02100	350211-02100
22	350200-02200	350201-02200	350210-02200	350211-02200
23	350200-02300	350201-02300	350210-02300	350211-02300
24	350200-02400	350201-02400	350210-02400	350211-02400
25	350200-02500	350201-02500	350210-02500	350211-02500
30	350200-03000	350201-03000	350210-03000	350211-03000
40	350200-04000	350201-04000	350210-04000	350211-04000
41.3	350200-04130	350201-04130	350210-04130	350211-04130
50	350200-05000	350201-05000	350210-05000	350211-05000
60	350200-06000	350201-06000	350210-06000	350211-06000
70	350200-07000	350201-07000	350210-07000	350211-07000
80	350200-08000	350201-08000	350210-08000	350211-08000
90	350200-09000	350201-09000	350210-09000	350211-09000
100	350200-10000	350201-10000	350210-10000	350211-10000



# Parallel Gauge Block Sets

## Parallel Gauge Block Set

DIN EN ISO 3650

- for standard use in workshop area and at the machine
- made of specially alloyed, particularly cured and relaxed special steel
- each gauge block is marked with an identification number
- calibration certificate available by extra charge



ART NO	tolerance class	quantity per set	pcs.	nominal size mm	steps mm	CC
351001	0	32	1	1.005	—	on request
351011	1		9	1.01 – 1.09	0.01	on request
351021	2		9	1.1 – 1.9	0.1	on request
			9	1 – 9	1	
			4	10 / 20 / 30 / 50	—	
351002	0	47	1	1.005	—	on request
351012	1		19	1.01 – 1.19	0.01	on request
351022	2		8	1.2 – 1.9	0.1	on request
			9	1 – 9	1	on request
		10	10 – 100	10		
351003	0	87	9	1.001 – 1.009	0.001	on request
351013	1		49	1.01 – 1.49	0.01	on request
351023	2		19	0.5 – 9.5	0.5	on request
			10	10 – 100	10	
351004	0	103	1	1.005	—	on request
351014	1		49	1.01 – 1.49	0.01	on request
351024	2		4	0.5 – 24.5	0.5	on request
				25 – 100	25	on request

## Rectangular Gauge Block Set

DIN EN ISO 3650

- suitable for use in measurement and test room
- made of specially alloyed, particularly cured and relaxed special steel
- each gauge block is marked with an identification number
- calibration certificate available by extra charge



ART NO	tolerance class	quantity per set	nominal size mm	CC
350181	1	8	125 / 150 / 175 / 200 / 250 / 300 / 400 / 500	on request
350183	0	5	600 / 700 / 800 / 900 / 1000	on request
350184	1	5	600 / 700 / 800 / 900 / 1000	on request

# Parallel Gauge Block Sets

## Ceramic Parallel Gauge Block Set

DIN EN ISO 3650

- suitable for use in measurement and test room
- made of zirconia ceramic, best ceramic quality
- up to 50-fold higher wear resistance than steel
- high thermal stability
- high resistance to knocks and drops
- does not burr easily and high corrosion resistant
- each gauge block is marked with an identification number
- calibration certificate available by extra charge

Other set combinations available on request!



DIN EN ISO

ART N°	tolerance class	quantity per set	pcs.	nominal size mm	steps mm	CC
350031	0	32	1	1.005	—	on request
350041	1		9	1.01 – 1.09	0.01	on request
			9	1.1 – 1.9	0.1	
			4	1 – 9	1	
				10 / 20 / 30 / 50	—	
350032	0	47	1	1.005	—	on request
350042	1		19	1.01 – 1.19	0.01	on request
			8	1.2 – 1.9	0.1	
			9	1 – 9	1	
			10	10 – 100	10	

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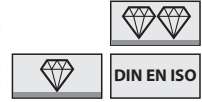


# Parallel Gauge Block Sets

## Inspection Gauge Block Set, for Micrometers

DIN EN ISO 3650

- for review and adjustment of micrometer acc. to VDI/VDE/DGQ 2618, page 5
- with optical plane face glass and gloves
- each gauge block is marked with an identification number
- calibration certificate **without** optical plane glass calibration by extra charge



ART N°	tolerance class	quantity per set	nominal size mm	
350130 steel	1	10	2.5 / 5.1 / 7.7 / 10.3 / 12.9 / 15 / 17.6 / 20.2 / 22.8 / 25	on request

## Inspection Gauge Block Set, for Micrometers

DIN EN ISO 3650

- for review and adjustment of micrometer acc. to VDI/VDE/DGQ 2618, page 5 / 10.1
- each gauge block is marked with an identification number
- calibration certificate by extra charge

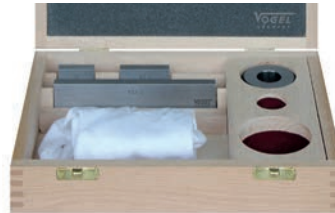


ART N°	for micrometer sizes	tolerance class	quantity per set	nominal size mm	
350176 steel	0 – 25	1	5	5.1 / 10.3 / 15 / 20.2 / 25	on request
350177	0 – 100	1	8	5.1 / 10.3 / 15 / 20.2 / 25 / 50 / 75 / 100	on request

## Inspection Gauge Block Set, for Calipers

DIN EN ISO 3650

- for review and adjustment of pocket calipers acc. to VDI/VDE/DGQ 2618, page 5
- with hardened steel setting ring and protective gloves
- each gauge block is marked with an identification number
- calibration certificate without setting ring certificate by extra charge

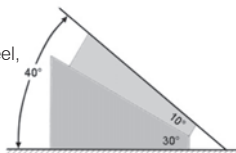


ART N°	tolerance class	ø mm	nominal size mm	
350139 steel	1	20	30 / 41.3 / 131.4	on request
350148	1	4 and 25	30 / 41.3 / 131.4	on request
350149	1	4 and 25	30 / 41.3 / 131.4 / 243.5	on request

## Angle Gauge Block Set

- workshop quality, for standard purposes
- for fast, easy and accurate determination of angular dimensions

- hardened and relieved special steel, high grade of abrasion resistance
- measuring faces fine ground
- angle accuracy of measuring faces +/- 60°



ART N°	tolerance class	quantity per set	angle sizes in °	L x H	
352012	1	12	0,25 / 0,5 / 1 / 2 / 3 / 4 / 5 / 10 / 15 / 20 / 25 / 30°	75 x 6.5	on request

# Control Plates, Granite Plates and Accessories

## Maintenance Spray

- cleans, maintains and lubricates measuring tools, loosens caked-on section and conserves degreased mechanical connections
- acid and resin-free, compatible to environment, FCKW-free
- displaces humidity in electrical and electronical areas



<b>ART N°</b>	contents ml	→ mm ←
350320	500	260 x ø 64

## Granite Measuring and Control Plate

DIN 876

- particularly well selected material of highest quality, entirely faultless
- diamond lapped measuring surfaces, acc. to DIN 876
- extreme hard and wear resistant and acid resistant
- T-Slots acc. to DIN 650, made of steel, **on request**
- calibration certificate available on request



Other sizes or special designed plates are available on request!

### grade of accuracy:

should be selected according to the intended purpose

<b>grade 00</b>	extra fine diamond lapped for the inspection room
<b>grade 0</b>	fine diamond lapped for control purposes
<b>grade I</b>	diamond lapped for workshop use

Option: T-slot, with extra charge

**DIN**

<b>ART N°</b>	accuracy ± μm	<b>ART N°</b>	accuracy ± μm	<b>ART N°</b>	accuracy ± μm	→ mm ←
grade 00		grade 0		grade 1		
260199	2	260229	4	260259	12	250 x 250 x 50
260200	3	260230	6	260260	13	300 x 300 x 50
260201	3	260231	6	260261	14	400 x 250 x 60
260202	3	260232	6	260262	14	400 x 400 x 60
260203	3	260233	6	260263	15	500 x 500 x 80
260204	3	260234	7	260264	16	630 x 400 x 80
260205	3	260235	7	260265	16	630 x 630 x 80
260206	4	260236	7	260266	18	800 x 500 x 100
260207	4	260237	8	260267	20	1000 x 630 x 100
260208	4	260238	8	260268	20	1000 x 630 x 150
260209	4	260239	8	260269	20	1000 x 1000 x 100
260210	4	260240	8	260270	20	1000 x 1000 x 150
260211	4.4	260241	8.8	260271	22	1200 x 800 x 150
260212	4.4	260242	8.8	260272	22	1200 x 800 x 200
260213	5	260243	10	260273	25	1500 x 1000 x 150
260214	5	260244	10	260274	25	1500 x 1000 x 200
260215	6	260245	12	260275	30	2000 x 1000 x 200
260216	6	260246	12	260276	30	2000 x 1000 x 250

# Control Plates, Granite Plates and Accessories









## Safety Stands

SUVA-design

- solid angular steel construction, powder coated, grey (RAL 7001)
- for a working height of approx. 900 – 1000 mm adjustable
- with protective device against misalign
- 3-point support M24 x 80 mm
- 4 foot-mounted M16 pins with ø 80 mm diameter plate, stainless steel
- single packed on an Euro-pallet

Cabinets etc.  
on request!



ART NO	suitable for plate size mm	stand mm
 260901	630 x 400	—
 260902	630 x 630	—
 260903	800 x 500	800 x 500
 260904	1000 x 630	1000 x 630
 260905	1000 x 1000	1000 x 1000
 260906	1200 x 800	1200 x 800
 260907	1500 x 1000	1500 x 1000
 260908	2000 x 1000	2000 x 1000

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# Control Plates, Granite Plates and Accessories

## Levelling Jack

- for granite plates up to 1000 x 630 mm
- large adjusting range
- support in the ball joint

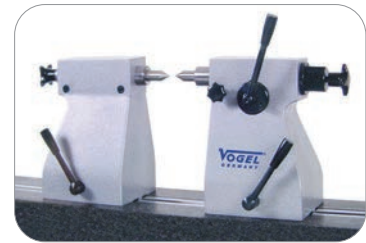


ART N°	quantity / singly	description	 mm
269074	1	table adjustment	60 – 130 mm

## Tailstock Pairs

Grade/0

- made of dense, aged and stress relieved special cast iron with high wear resistance
- one tailstock with stationary and one with axially adjustable tail spindle
- spindles and dead centres are hardened and precision ground
- sliding blocks with a nominal size of 14 mm
- tailstocks can be fixed to the T-slot with the help of an excentric adjusting device







### Option (special construction)

*tailstocks with hand wheel, adjustment suitable for heavy work pieces. Height adjustment possible through ground screw-thread with hand wheel (fine adjustment).*

### Notes

- hand wheel, adjustable by means of an adjustable tail pressure
- tail stocks can be delivered with or without hardened and precision ground 90° prisms (as option, with extra charge!)
- the prisms are needed for excentrically shanks or for measuring of extra large shanks, which exceed over the length of the tail stock pair

Grade/00 and Grade/I available on request!

ART N°	center height mm	inside tape MT	total length mm	grade/0
269060-0	100	2	290	±0,008 mm
 269061-0	150	2	360	±0,008 mm
 269062-0	200	2	390	±0,008 mm
 269063-0	250	3	490	±0,008 mm
 269064-0	300	3	570	±0,008 mm






## Granite Master Squares 90°, triangular

DIN 876/00 with regard to the flatness of the measuring surface  
DIN 875-2/00 with regard to angularity

- particularly well selected material of highest quality, entirely faultless
- 2 diamond lapped measuring surfaces acc. to grade 00
- 90° angle machined
- extreme hard and wear-resistant, acid-resistant
- calibration certificate available on request
- incl. test certificate



DIN

ART N°	 max. ± μm		angle length mm	width mm
	flatness	angularity		
grade 00				
260500	2.4 / 2.3	2	200 x 150	50
260501	2.6 / 2.4	2.5	300 x 200	50
260502	2.8 / 2.5	3	400 x 250	60
 260503	3 / 2.6	3.5	500 x 300	80
 260504	3.3 / 2.8	4	630 x 400	80
 260505	3.6 / 3	5	800 x 500	100
 260506	4 / 3.2	6	1000 x 600	100



# Control Plates, Granite Plates and Accessories

## Precision Gauge Blocks

DIN 876/00

- particularly well selected material of highest quality
- 2 diamond lapped measuring surfaces acc. to grade 00

- entirely faultless, from up 800 mm length with transport lugs
- calibration certificate available on request
- from 800 mm length with threaded core, without eyelet hook
- incl. test certificate



example



DIN

ART N <sup>o</sup> grade 00	parallelism ± μm	→ mm ←
260530	3	630 x 50 x 100
260531	4	800 x 50 x 120
260532	4	1000 x 60 x 150
260533	5	1200 x 60 x 180
260534	6	1500 x 70 x 200
260535	6	2000 x 80 x 250

## Precision Pair of Parallels

DIN 876/00

- particularly well selected material of highest quality
- 2 measuring surfaces parallel machined as a pair acc. to grade 00

- entirely faultless
- calibration certificate available on request
- incl. test certificate



DIN

ART N <sup>o</sup> grade 00	parallelism ± μm	→ mm ←
260550	2	100 x 15 x 25
260551	2	150 x 20 x 30
260552	2	200 x 25 x 40
260553	2	250 x 30 x 50
260554	3	300 x 40 x 70
260555	3	400 x 50 x 100

## Maintenance Set for Granite Plates

- consisting of cleaner and care oil

- environmentally friendly
- cleaner protects, maintains and extends the life of granite surfaces
- care oil ensures easy sliding of workpieces and works for wear reducing

Other volumes  
are available, on request!



ART N <sup>o</sup>	cleaner content ltr.	care oil content ltr.
260299	0.5	0.5

# Control Plates, Granite Plates and Accessories

## Granite Master Squares 90°, chimney shape

DIN 876/00 with regard to the flatness of the measuring surface  
DIN 875-2/00 with regard to angularity

- particularly well selected material of highest quality acc. to grade 00
- entirely faultless, extreme hard and wear-resistant, acid-resistant
- base and 2 small measuring surfaces
- calibration certificate available on request
- incl. test certificate



DIN

ART N <sup>o</sup>	 max. ± μm		 mm
	grade 00	parallellism	
260520	2.6	2.5	300 x 100 x 80
260521	3	3.5	500 x 150 x 120
260522	3.6	5	800 x 220 x 150
260523	4	6	1000 x 250 x 200

## Granite Master Squares 90°, square shape

DIN 876/00 with regard to the flatness of the measuring surface  
DIN 875-2/00 with regard to angularity

- particularly well selected material of highest quality
- measuring surfaces acc. to grade 00
- entirely faultless, extreme hard and wear-resistant, acid-resistant
- measuring surfaces absolut plane and rectangular finely ground quality
- calibration certificate available on request
- incl. test certificate

Other sizes are available on request!



DIN

ART N <sup>o</sup>	 max. ± μm		 mm
	grade 00	squareness	
260580	2.4	2	200 x 200 x 25
260582	2.6	2.5	300 x 300 x 30
260584	3.5	3.5	500 x 500 x 50

# Control Plates, Steel Plates and Accessories

## Straightening Plates

- solid or ribbed construction
- special wear resistant steel casting
- surfaces and four sides fine planed
- against extra charge the plates can be also supplied with bores, holes or T-slots



ART N° solid	→ mm ←
261400	200 x 200 x 40
261401	300 x 300 x 50
261402	400 x 400 x 50
261403	500 x 500 x 60
261404	600 x 600 x 70
261405	700 x 700 x 80
261406	800 x 800 x 100
261407	1000 x 800 x 100
261408	1000 x 1000 x 110
261409	1200 x 800 x 80
261410	1200 x 1000 x 110
261411	1500 x 1000 x 120
261412	2000 x 1000 x 120

ART N° ribbed	→ mm ←	rib height mm
261500	200 x 200 x 20	40
261501	300 x 300 x 20	40
261502	400 x 400 x 20	40
261503	500 x 500 x 40	40
261504	600 x 600 x 40	40
261505	700 x 700 x 40	40
261506	800 x 800 x 40	40
261507	1000 x 800 x 40	60
261508	1000 x 1000 x 40	60
261509	1200 x 800 x 60	60
261510	1200 x 1000 x 60	60
261511	1500 x 1000 x 60	60
261512	2000 x 1000 x 60	60

## Stands

- suitable for straightening plates
- solid steel construction
- for a working height of approx 800 mm
- quantity of legs 4 pcs.

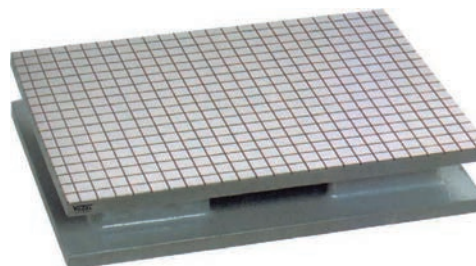


ART N°	for straightening plate size mm
269102	400 x 400
269103	500 x 500
269104	600 x 600
269105	700 x 700
269106	800 x 800
269107	1000 x 800
269108	1000 x 1000
269109	1200 x 800
269110	1200 x 1000
269111	1500 x 1000
269112	2000 x 1000

## Lapping and Control Plate

DIN 876/1

- for lapping, flatness measuring and as base line
- special high-density cast iron
- top and bottom surfaces finest ground
- upper surface is additionally squared, with dust grooves



ART N°	→ mm ←	evenness mm	ART N° transport box
262101	360 x 260 x 65	0.014	2699036

# Control Plates, Steel Plates and Accessories

## Control-, Surface- and Testing Plates

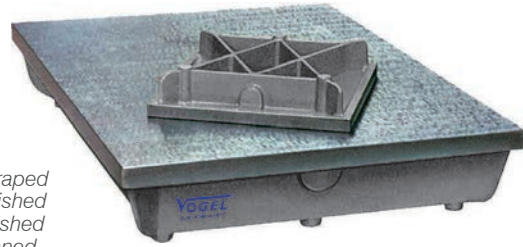
DIN 876

- special wear-resistant casting with additionally steel

- strong ribbed construction, side surfaces reinforced
- measuring surface according to DIN 876
- side surfaces carefully planed or milled
- with supporting points, corresponding to the size of plate
- against extra charge we supply the plates with handle and with protective wooden cover

Other sizes and stands are available on request!

grade 0 = fine scraped and finished  
grade 1 = fine finished  
grade 3 = fine planed



DIN

ART NO grade 0	ART NO grade 1	ART NO grade 3	ART NO wooden cover	mm
261002	261102	261302	2699020	200 x 200
261005	261105	261305	2699030	300 x 300
261007	261107	261307	2699040	400 x 400
261008	261108	261308	2699054	500 x 400
261009	261109	261309	2699050	500 x 500
261011	261111	261311	2699065	600 x 500
261014	261114	261314	2699085	800 x 500
261018	261118	261318	2699160	1000 x 600
261020	261120	261320	2699180	1000 x 800
261021	261121	261321	2699100	1000 x 1000
261022	261122	261322	2699128	1200 x 800
261024	261124	261324	2699157	1500 x 1000
261026	261126	261326	2699210	2000 x 1000

## Supporting Feets

- especially for straightening plates

- made of special casting
- with adjusting screw



ART NO	stand height mm	adjusting height mm
269076	250 – 300	50
269077	350 – 400	50
269078	450 – 500	50
269079	550 – 600	50
269081	650 – 700	50

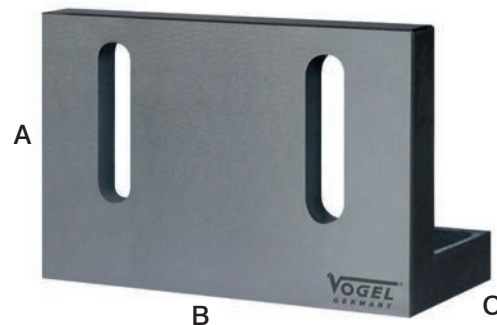
## Angle Plates

DIN 875 and DIN 876

- construction with clamping slots or with clamping T-slots

- made of special cast iron with high resistance to wear
- accuracy of measuring surfaces according to DIN 876
- accuracy of angle according to DIN 875
- side areas carefully milled

Other sizes are available on request!



DIN

ART NO Con feritoie Grado 1	ART NO slots grade 3	mm B x A x C	slot width mm
261600	261640	150 x 100 x 75	14
261601	261641	200 x 150 x 100	15
261602	261642	275 x 200 x 150	17
261603	261643	300 x 250 x 150	17



# Precision Spirit Levels

## Precision Inspection Spirit Levels

DIN 877

- for accurate levelling and adjusting of surfaces and cylinders

- housing made of special cast iron
- with prism and flat surface, finely ground
- adjustable main vial and one cross vial
- with insulation handles

ART N° 360281



ART N° 360202



DIN

ART N° sensitivity 0.01 mm/m	ART N° sensitivity 0.02 mm/m	ART N° sensitivity 0.05 mm/m	length mm	CC
—	360281	360282	150	on request
360202	360283	360284	200	on request
360203	360285	—	250	on request
360204	360287	360288	300	on request

ART N° sensitivity 0.1 mm/m	ART N° sensitivity 0.3 mm/m	ART N° sensitivity 0.5 mm/m	length mm	CC
—	—	360261	150	on request
360251	360231	—	160	on request
360252	360232	360262	200	on request
360253	360233	—	250	on request
360254	360234	360264	300	on request

## Precision Inspection Frame Spirit Levels

DIN 877

- for levelling and adjusting of horizontal and vertical surfaces and cylinders

- housing made of special cast iron
- with prism and flat surface, fine ground
- adjustable main vial and one cross vial
- with insulation handles



DIN

ART N° sensitivity 0.02 mm/m	ART N° sensitivity 0.05 mm/m	ART N° sensitivity 0.1 mm/m	mm	CC
360311	360312	360351	150 x 150 x 40	on request
360313	360314	360352	200 x 200 x 40	on request
360315	360316	—	250 x 250 x 40	on request
360317	—	360353	300 x 300 x 40	on request

## Precision Crank Pin Levels

DIN 877

- to adjust crankshafts and crank pins of motors and machines

- with vertical and horizontal prism, fine ground
- with main vial and cross vial
- width 40 mm

### Option

- with magnets in the prism bottom on request, please



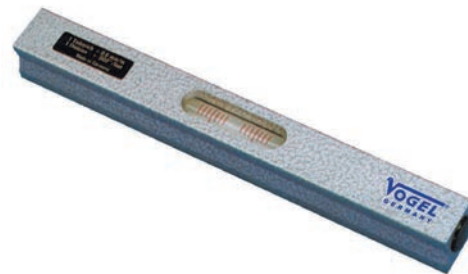
DIN

ART NO sensitivity 0.04 mm/m	ART NO sensitivity 0.1 mm/m	ART NO sensitivity 0.2 mm/m	length mm	CC
—	—	<b>360295</b>	60	on request
<b>360296</b>	—	—	90	on request
<b>360297</b>	—	—	120	on request
—	<b>360293</b>	—	90	on request
—	<b>360294</b>	—	120	on request

## Precision Alloy Spirit Level

- for simple levelling and adjusting of surfaces and cylinders

- housing made of alloy cast
- with ground prism base
- with ground and graduated main vial



NORM

ART NO sensitivity 0.6 mm/m	length mm	width mm	ART NO sensitivity 0.6 mm/m	length mm	width mm	CC
<b>360410</b>	100	22	<b>360420</b>	200	22	on request
<b>360415</b>	150	22	<b>360430</b>	300	22	on request



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Our certified QM-System is constantly controlled and improved by internal and external Audits of **TÜV Rheinland**.



## Calibration certificates for our products on request, please!



### Workshop Calibration Certificate in german or english language, acc. to DIN/ISO etc.

**Scope:** Calibration certificate indicating the deviation and limits of normal and with the test curve(s) for the measured according to the criteria of standards, confirmation of their performance. Confirmation of traceability to national normal, indicating an identification number.

**Validity:** Individually for each single instrument/device. Period of validity in accordance with your quality management manual (usually 12 month)

**Price:** See our price list, prices valid only for initial delivery from the factory, price for re-calibration on request, please.



### Calibration test report by an accredited testing laboratory

**Scope:** As mentioned above, calibration test report as mentioned above, but accredited by testing laboratory.

**Validity:** Individually for each single instrumen/device. Period of validity in accordance with your quality management manual (usually 12 month)

**Price:** see price list, prices valid only for initial delivery from the factory, price for re-calibration on request, please.

## Center Squares, Acute Angle Squares and Mitre Squares



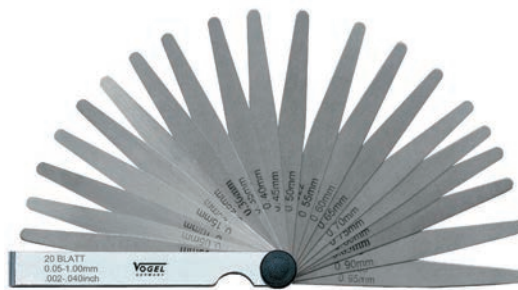
example



3194253

## Feeler Gauges

- each blade



example



4194000

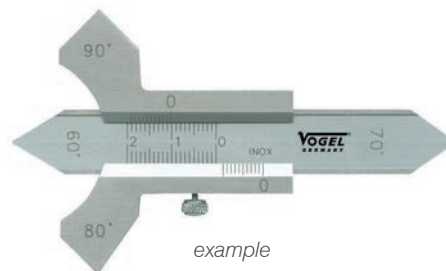


only tolerance class 3

4194000-DKD

Please specify tolerance class

## Welding Gauges



example



4794000

## Limit Plug Gauges



example

max. mm	CC	CC Dakks
3	3994020	3994020-DKD
10	3994021	3994021-DKD
60	3994022	3994022-DKD
100	3994023	3994023-DKD
180	3994024	3994024-DKD
>180	3994025	—

## Setting Ring Gauges



example


max. mm	CC	CC Dakks
3	3994040	3994040-DKD
10	3994041	3994041-DKD
180	3994042	3994042-DKD
>180	3994043	—



## Limit Thread Plug Gauges



example

		
3	3994050	3994050-DKD
90	3994051	3994051-DKD
>90	3994052	3994052-DKD

## Limit Thread Ring Gauges

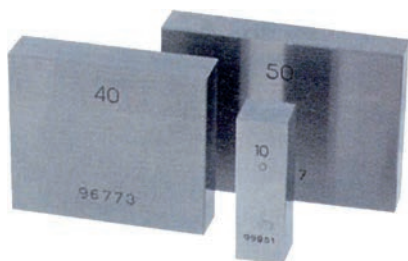


example


		
3	3994070	—
100	3994071	3994071-DKD
>100	3994072	—

# Calibration

## Parallel Gauge Blocks made of steel and ceramic



example

 max. mm	 CC	 only steel
100	3594001	3594001-DKD
200	3594002	3594002-DKD
500	3594003	3594003-DKD
1000	3594004	3594004-DKD

## Digital Luxmeter



example



6494340