

Gauge Blocks

Length Standards Brought to You by Mitutoyo



An inspection certificate is supplied as standard. Refer to page U-11 for details.

Micrometer Inspection Gauge Block Sets SERIES 516

- Dedicated gauge block sets for micrometer inspection.
Sets **516-106/7/8** and **516-322/3** are recommended for checking the maximum permissible error of micrometers due to the choice of block sizes ensuring that the instrument is checked through a full rotation of the spindle over the range 0 to 25 mm (or 0 to 1 in).
Sets **516-115/6/7**, **516-165/6** and **516-177** contain blocks in 25 mm (or 1 in) steps for aiding inspection of large micrometers in conjunction with one of the abovementioned sets.
Sets **516-580/1/2**, **516-390/1/2** are dedicated to the QuantuMike with its 2 mm/rev spindle feed.

Steel



Steel 10-block set



Steel 10-block set



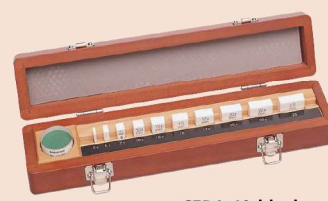
Steel 8-block set



Steel 10-block set



CERA 10-block set



CERA 10-block set



CERA 8-block set



CERA 10-block set

Gauge Block Sets for Micrometer Inspection

A set consisting of a Micro Checker and gauge blocks for micrometer inspection.

(516-132/3/4/5/6/7)



• Micro Checker

Can clamp a stack of gauge blocks to be used for micrometer inspection.

516-607



Typical application



(The gauge block and optical parallel shown are optional accessories.)

SPECIFICATIONS

Metric	Micro Checker (holder only)
Order No.	516-607
Applicable gauge block sets	516-106/107/108, 516-156/157/158
Applicable gauge block sizes (mm)	2.5, 5.1, 7.7, 10.3, 12.9, 15, 17.6, 20.2, 22.8, 25

Inch	Micro Checker (holder only)
Order No.	516-608
Applicable gauge block sets	516-921/922/923, 516-321/322/323
Applicable gauge block sizes (in)	0.105, 0.210, 0.315, 0.420, 0.5, 0.605, 0.710, 0.815, 0.920, 1



An inspection certificate is supplied as standard.
Refer to page U-11 for details.

*1: Suffix No. (■) for Selecting Standard and Certificate Provided

ISO/DIN/JIS		
Suffix No.	Inspection Certificate	Calibration Certificate
1	✓	
6	✓	✓

Suffix No. 1: Not available for Grade K sets.

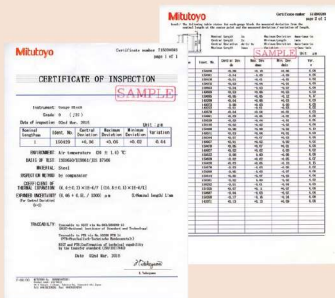
ASME		
Suffix No.	Inspection Certificate	Calibration Certificate
1	✓	
6	✓	✓

Suffix No. 1: Not available for Grade K sets.

Suffix No. 6: Only for Grade K sets.

BS		
Suffix No.	Inspection Certificate	Calibration Certificate
1	✓	

Inspection Certificate



SPECIFICATIONS

Metric Block Sets						
Blocks per set	Order No.		Standard/grade available and Suffix No.*1			Blocks included in set
	Steel	CERA	ISO/DIN/JIS	ASME	BS	
16	516-111	516-161	0: -#0	—	—	1.00, 1.25, 1.5, 2, 3, 5, 10, 15, 20, 25, 25.25, 30, 35, 40, 45, 50 mm, Cerastone, Optical parallels (t=12 mm, 25 mm)
	516-112	516-162	1: -#0	—	—	
	516-113	516-163	2: -#0	—	—	
10	516-977	—	K: -#0	—	—	1.00, 1.25, 1.50, 2, 3, 5, 10, 15, 20, 25 mm, Optical parallel (t=12 mm)
	516-978	516-378	0: -#0	—	—	
	516-979	516-379	1: -#0	—	—	
	516-980	516-380	2: -#0	—	—	
10	516-103	516-152	0: -#0	0: -#6	—	1.00, 1.25, 1.50, 2, 3, 5, 10, 15, 20, 25 mm
	516-101	516-153	1: -#0	1: -#6	—	
	—	516-154	2: -#0	—	—	
10	516-580	516-390	0: -#0	—	—	2.2, 4.8, 7.8, 10.4, 12, 15.2, 17.4, 19.6, 22.6, 25 mm
	516-581	516-391	1: -#0	—	—	
	516-582	516-392	2: -#0	—	—	
10	516-106	516-156	0: -#0	—	—	2.5, 5.1, 7.7, 10.3, 12.9, 15, 17.6, 20.2, 22.8, 25 mm, Optical parallel (t=12 mm)
	516-107	516-157	1: -#0	—	—	
	516-108	516-158	2: -#0	—	—	
10	516-132	516-182	0: -#0	—	—	1.25, 1.50, 1, 2, 3, 5, 10, 15, 20, 25 mm, Micro Checker, Optical parallel (t=12 mm)
	516-133	516-183	1: -#0	—	—	
	516-134	516-184	2: -#0	—	—	
10	516-135	516-185	0: -#0	—	—	2.5, 5.1, 7.7, 10.3, 12.9, 15, 17.6, 20.2, 22.8, 25 mm, Micro Checker, Optical parallel (t=12 mm)
	516-136	516-186	1: -#0	—	—	
	516-137	516-187	2: -#0	—	—	
8	—	516-547	—	K: -#6	—	25, 50, 75, 100, 125, 150, 175, 200 mm
	—	516-164	K: -#0	00: -#6	—	
	516-115	516-165	0: -#0	0: -#6	—	
	516-116	516-166	1: -#0	1: -#6	—	
	516-117	516-167	2: -#0	2: -#6	—	
	—	—	—	—	—	

Inch Block Sets						
Blocks per set	Order No.		Standard/grade available and Suffix No.*1			Blocks included in set
	Steel	CERA	ISO/DIN/JIS	ASME	BS	
10	516-528	516-318	—	00: -#6	0: -#1	0.087, 0.189, 0.307, 0.409, 0.472, 0.598, 0.669, 0.772, 0.890, 1 in
	516-529	516-319	—	0: -#6	1: -#1	
	516-530	516-320	—	1: -#6	2: -#1	
10	516-552	516-559	—	K: -#6	—	0.105, 0.210, 0.315, 0.420, 0.500, 0.605, 0.710, 0.815, 0.920, 1 in, Optical parallel (t=0.5 in)
	516-921	516-321	—	00: -#6	0: -#1	
	516-922	516-322	—	0: -#6	1: -#1	
	516-923	516-323	—	1: -#6	2: -#1	
10	516-553	516-560	—	K: -#6	—	0.105, 0.210, 0.315, 0.420, 0.500, 0.605, 0.710, 0.815, 0.920, 1 in, Micro checker, Optical parallel (t=0.5 in)
	516-138	516-188	—	00: -#6	0: -#1	
	516-139	516-189	—	0: -#6	1: -#1	
	516-140	516-190	—	1: -#6	2: -#1	
9	516-554	516-561	—	K: -#6	—	0.0625, 0.100, 0.125, 0.200, 0.250, 0.300, 0.500, 1, 2 in, Optical parallel (t=0.5 in)
	516-929	516-333	—	00: -#6	—	
	516-930	516-334	—	0: -#6	—	
	516-931	516-335	—	1: -#6	—	
	516-932	516-336	—	2: -#6	—	
9	516-555	516-562	—	K: -#6	—	0.0625, 0.100, 0.125, 0.200, 0.250, 0.300, 0.500, 1, 2 in, Micro Checker, Optical parallel (t=0.5 in)
	516-141	516-191	—	00: -#6	—	
	516-142	516-192	—	0: -#6	—	
	516-143	516-193	—	1: -#6	—	
	516-144	516-194	—	2: -#6	—	
9	—	516-563	—	K: -#6	—	0.0625, 0.100, 0.125, 0.200, 0.250, 0.300, 0.500, 1, 2 in
	—	516-329	—	00: -#6	—	
	516-934	516-330	—	0: -#6	—	
	516-935	516-331	—	1: -#6	—	
8	516-126	516-176	—	0: -#6	—	1, 2, 3, 4, 5, 6, 7, 8 in
	516-127	516-177	—	1: -#6	—	

SERIES 516 – Caliper Inspection Gauge Block Sets

SPECIFICATIONS

Metric Block Sets						
Blocks per set	Order No.		Standard/grade available and Suffix No.			Blocks included in set
	Steel	CERA	ISO/DIN/JIS	ASME	BS	
5	—	516-174	2: -10	—	—	5 pcs.: 10.3, 24.5, 50, 75, 100 mm, Ceramic plain jaws, Holder (250 mm), Glove
4	516-526	516-566	1: -10	—	—	4 pcs.: 10, 30, 50, 125 mm, Setting ring (ø4 mm, ø10 mm), Pin gage (ø10 mm), Glove
	516-527	516-567	2: -10	—	—	
3	516-124	516-150	1: -10	—	—	3 pcs.: 30, 41.3, 131.4 mm, Setting ring (ø4 mm, ø25 mm), Glove
	516-125	516-151	2: -10	—	—	
2	516-122	516-172	1: -10	—	—	2 pcs.: 41.3, 131.4 mm, Setting ring (ø20 mm), Glove
	516-123	516-173	2: -10	—	—	