

Gauge Blocks



Metric/Inch Rectangular Gauge Block Sets
SERIES 516

- Mitutoyo provides a wide selection of boxed sets of gauge blocks to meet the various needs of industry. Please select the set most suited to your working conditions and applications.

Steel 1 mm Base Block Sets



Steel 112-block set



Steel 103-block set



Steel 76-block set



Steel 56-block set



Steel 47-block set



Steel 46-block set



Steel 34-block set



Steel 32-block set

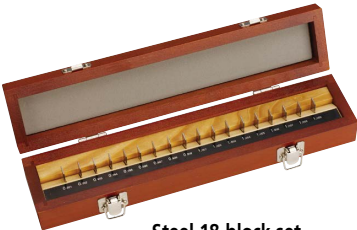
Steel 0.001 mm Step Block Sets



Steel 9-block set
(1.001 to 1.009 mm)



Steel 9-block set
(0.991 to 0.999 mm)



Steel 18-block set

Steel Long Block Sets



Steel 8-block set

Steel Wear Block Sets



Steel (1 mm)

Steel Thin Block Sets



Steel 9-block set

Note: Details of the contents of any particular set are given on pages 01-11 to 01-12.

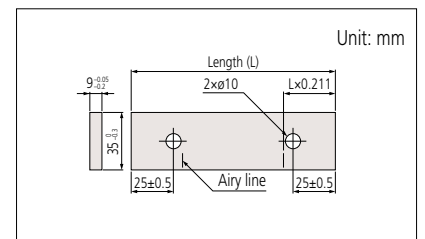
CERA 1 mm Base Block Sets



CERA 0.001 mm Step Block Sets



CERA Long Block Sets



CERA Wear Block Sets



Note: Details of the contents of any particular set are given on pages 01-11 to 01-12.

Gauge Blocks

SPECIFICATIONS

1 mm Base Block Sets

Blocks per set	Code No.		Standard/grade available and Suffix No.*1			Blocks included in set		
	Steel	CERA	ISO/JIS	ASME	BS	Size (mm)	Step (mm)	Qty.
122	—	—	—	—	—	1.0005	—	1
	516-596	—	K: -■0	—	—	1.001 - 1.009	0.001	9
	516-597	—	O: -■0	—	—	1.01 - 1.49	0.01	49
	516-598	—	1: -■0	—	—	1.6 - 1.9	0.1	4
	516-599	—	2: -■0	—	—	0.5 - 24.5	0.5	49
112	516-531	516-541	—	K: -■6	—	1.0005	—	1
	516-937	516-337	K: -■0	00: -■6	K: -■1	1.001 - 1.009	0.001	9
	516-938	516-338	O: -■0	0: -■6	O: -■1	1.01 - 1.49	0.01	49
	516-939	516-339	1: -■0	1: -■6	1: -■1	0.5 - 24.5	0.5	49
	516-940	516-340	2: -■0	2: -■6	2: -■1	25 - 100	25	4
103	516-533	516-542	—	K: -■6	—	1.005	—	1
	516-941	516-341	K: -■0	00: -■6	K: -■1	1.01 - 1.49	0.01	49
	516-942	516-342	O: -■0	0: -■6	O: -■1	0.5 - 24.5	0.5	49
	516-943	516-343	1: -■0	1: -■6	1: -■1	25 - 100	25	4
	516-944	516-344	2: -■0	2: -■6	2: -■1	—	—	—
88	—	—	—	—	—	1.0005	—	1
	516-969	516-369	—	—	K: -■1	1.001 - 1.009	0.001	9
	516-970	516-370	O: -■0	—	O: -■1	1.01 - 1.49	0.01	49
	516-971	516-371	1: -■0	—	1: -■1	0.5 - 9.5	0.5	19
	516-972	516-372	2: -■0	—	2: -■1	10 - 100	10	10
87	516-535	515-543	—	K: -■6	—	1.001 - 1.009	0.001	9
	516-945	516-345	K: -■0	00: -■6	K: -■1	1.01 - 1.49	0.01	49
	516-946	516-346	O: -■0	0: -■6	O: -■1	0.5 - 9.5	0.5	19
	516-947	516-347	1: -■0	1: -■6	1: -■1	10 - 100	10	10
	516-948	516-348	2: -■0	2: -■6	2: -■1	—	—	—
76	—	—	—	—	—	1.005	—	1
	516-949	516-349	K: -■0	—	—	1.01 - 1.49	0.01	49
	516-950	516-350	O: -■0	—	—	0.5 - 9.5	0.5	19
	516-951	516-351	1: -■0	—	—	10 - 40	10	4
	516-952	516-352	2: -■0	—	—	50 - 100	25	3
56	516-536	516-544	—	K: -■6	—	0.5	—	1
	516-953	516-353	K: -■0	00: -■6	—	1.001 - 1.009	0.001	9
	516-954	516-354	O: -■0	0: -■6	—	1.01 - 1.09	0.01	9
	516-955	516-355	1: -■0	1: -■6	—	1.1 - 1.9	0.1	9
	516-956	516-356	2: -■0	2: -■6	—	1 - 24	1	24
47	516-537	516-545	—	K: -■6	—	1.005	—	1
	516-957	516-357	K: -■0	00: -■6	—	1.01 - 1.09	0.01	9
	516-958	516-358	O: -■0	0: -■6	—	1.1 - 1.9	0.1	9
	516-959	516-359	1: -■0	1: -■6	—	1 - 24	1	24
	516-960	516-360	2: -■0	2: -■6	—	25 - 100	25	4
47	—	—	—	—	—	1.005	—	1
	516-961	516-361	K: -■0	—	K: -■1	1.01 - 1.19	0.01	19
	516-962	516-362	O: -■0	—	O: -■1	1.2 - 1.9	0.1	8
	516-963	516-363	1: -■0	—	1: -■1	1 - 9	1	9
	516-964	516-364	2: -■0	—	2: -■1	10 - 100	10	10
46	—	—	—	—	—	1.001 - 1.009	0.001	9
	516-994	516-394	K: -■0	—	—	1.01 - 1.09	0.01	9
	516-995	516-395	O: -■0	—	—	1.1 - 1.9	0.1	9
	516-996	516-396	1: -■0	—	—	1 - 9	1	9
	516-997	516-397	2: -■0	—	—	10 - 100	10	10
34	—	—	—	—	—	1.0005	—	1
	516-128	516-178	K: -■0	—	K: -■1	1.001 - 1.009	0.001	9
	516-129	516-179	O: -■0	—	O: -■1	1.01 - 1.09	0.01	9
	516-130	516-180	1: -■0	—	1: -■1	1.1 - 1.9	0.1	9
	516-131	516-181	2: -■0	—	2: -■1	1 - 5	1	5
32	—	—	—	—	—	1.005	—	1
	516-965	516-365	K: -■0	—	K: -■1	1.01 - 1.09	0.01	9
	516-966	516-366	O: -■0	—	O: -■1	1.1 - 1.9	0.1	9
	516-967	516-367	1: -■0	—	1: -■1	1 - 9	1	9
	516-968	516-368	2: -■0	—	2: -■1	10 - 30	10	3
60								

Thin Block Sets

Blocks per set	Code No.		Standard/grade available and Suffix No.*1			Blocks included in set		
	Steel	CERA	ISO/JIS	ASME	BS	Size (mm)	Step (mm)	Qty.
9	516-990	—	O: -■0	—	—	0.10 - 0.50	0.05	9
	516-991	—	1: -■0	—	—			
	516-992	—	2: -■0	—	—			
	—	—	—	—	—			

Note: Details of the overall sizes for forms of block are given on page 01-3 and the accuracy standards to which they are manufactured are given on page 01-5.



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

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

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

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

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

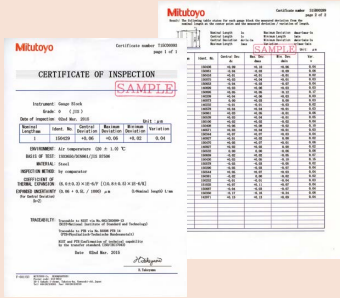
Suffix No. 6: Only for Grade K sets.

BS		
Suffix No.	Inspection Certificate	Calibration Certificate JCSS
1	✓	—
6	✓	✓

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

Suffix No. 6: Only for Grade K sets.

Inspection Certificate





SPECIFICATIONS

0.001 mm Step Block Sets

Blocks per set	Code No.		Standard/grade available and Suffix No.*1			Blocks included in set		
	Steel	CERA	ISO/JIS	ASME	BS	Size (mm)	Step (mm)	Qty.
18	516-973	516-373	K: -#0	—	—	0.991 - 0.999	0.001	9
	516-974	516-374	O: -#0	—	—	1.001 - 1.009	0.001	9
	516-975	516-375	1: -#0	—	—			
	516-976	516-376	2: -#0	—	—			
9	516-981	516-381	K: -#0	—	K: -#1	1.001 - 1.009	0.001	9
	516-982	516-382	O: -#0	—	O: -#1			
	516-983	516-383	1: -#0	—	1: -#1			
	516-984	516-384	2: -#0	—	2: -#1			
9	516-985	516-385	K: -#0	—	—	0.991 - 0.999	0.001	9
	516-986	516-386	O: -#0	—	—			
	516-987	516-387	1: -#0	—	—			
	516-988	516-388	2: -#0	—	—			

Long Block Sets

Blocks per set	Code No.		Standard/grade available and Suffix No.*1			Blocks included in set		
	Steel	CERA	ISO/JIS	ASME	BS	Size (mm)	Step (mm)	Qty.
8	516-540	516-546	—	K: -#6	—	125 - 175	25	3
	516-701	516-731	K: -#0	O: -#6	—	200 - 250	50	2
	516-702	516-732	O: -#0	O: -#6	—	300 - 500	100	3
	516-703	516-733	1: -#0	1: -#6	—			
	516-704	516-734	2: -#0	2: -#6	—			

Wear Block Sets

Blocks per set	Code No.		Standard/grade available and Suffix No.*1			Blocks included in set		
	Carbide	CERA	ISO/JIS	ASME	BS	Size (mm)	Step (mm)	Qty.
2	516-807	516-832	O: -#0	O: -#6	—	1		2
	516-806	516-833	1: -#0	1: -#6	—			
2	516-803	516-830	O: -#0	O: -#6	—	2		2
	516-802	516-831	1: -#0	1: -#6	—			

Inch Block Sets

Blocks per set	Code No.		Standard/grade available and Suffix No.*1			Blocks included in set		
	Steel	CERA	ISO/JIS	ASME	BS	Size (in)	Step (in)	Qty.
82	516-548	516-556	—	K: -#6	—	0.10005		1
	516-905	516-305	—	O: -#6	—	0.1001 - 0.1009	0.0001	9
	516-906	516-306	—	O: -#6	O: -#1	0.101 - 0.149	0.001	49
	516-907	516-307	—	1: -#6	1: -#1	0.05 - 0.95	0.05	19
	516-908	516-308	—	2: -#6	2: -#1	1 - 4	1	4
81	516-549	516-557	—	K: -#6	—	0.1001 - 0.1009	0.0001	9
	516-901	516-301	—	O: -#6	—	0.101 - 0.149	0.001	49
	516-902	516-302	—	O: -#6	O: -#1	0.05 - 0.95	0.05	19
	516-903	516-303	—	1: -#6	1: -#1	1 - 4	1	4
	516-904	516-304	—	2: -#6	2: -#1			
49	—	—	—	—	—	0.1001 - 0.1009	0.0001	9
	516-910	—	—	—	—	0.101 - 0.109	0.001	9
	516-911	—	—	—	O: -#1	0.01 - 0.19	0.01	19
	516-912	—	—	—	1: -#1	0.2 - 0.9	0.1	8
35	—	—	—	—	2: -#1	1 - 4	1	4
	516-550	516-558	—	K: -#6	—	0.10005		1
	516-913	516-313	—	O: -#6	—	0.1001 - 0.1009	0.0001	9
	516-914	516-314	—	O: -#6	O: -#1	0.101 - 0.109	0.001	9
	516-915	516-315	—	1: -#6	1: -#1	0.11 - 0.19	0.01	9
	516-916	516-316	—	2: -#6	2: -#1	0.1 - 0.3	0.1	3

Thin Block Sets

Blocks per set	Code No.		Standard/grade available and Suffix No.*1			Blocks included in set		
	Steel	CERA	ISO/JIS	ASME	BS	Size (in)	Step (in)	Qty.
28	516-551	—	—	K: -#6	—	0.02005		1
	516-917	—	—	O: -#6	—	0.0201 - 0.0209	0.0001	9
	516-918	—	—	O: -#6	—	0.021 - 0.029	0.001	9
	516-919	—	—	1: -#6	—	0.01 - 0.09	0.01	9
	516-920	—	—	2: -#6	—			
10	516-926	—	—	O: -#6	O: -#1	0.005 - 0.050	0.005	10
	516-927	—	—	1: -#6	1: -#1			
	516-928	—	—	—	2: -#1			

Long Block Sets

Blocks per set	Code No.		Standard/grade available and Suffix No.*1			Blocks included in set		
	Steel	CERA	ISO/JIS	ASME	BS	Size (in)	Step (in)	Qty.
8	—	516-564	—	K: -#6	—	5 - 7	1	3
	—	516-741	—	O: -#6	—	8, 10, 12	2	3
	516-712	516-742	—	O: -#6	—	16, 20	4	2
	516-713	516-743	—	1: -#6	—			

Wear Block Sets

Blocks per set	Code No.		Standard/grade available and Suffix No.*1			Blocks included in set		
	Carbide	CERA	ISO/JIS	ASME	BS	Size (in)	Step (in)	Qty.
2	516-809	516-836	—	O: -#6	—	0.05		2
	516-808	516-837	—	1: -#6	—			
2	516-805	516-834	—	O: -#6	—	0.1		2
	516-804	516-835	—	1: -#6	—			

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