

# Metric/Inch Rectangular Gauge Block Sets

Mitutoyo provides a wide selection of boxed sets of gauge blocks to meet the various needs of industry. Selecting the best set, or sets, to acquire usually depends on the accuracy required by the target applications, the level of convenience desired (larger sets offer more combination possibilities) and the environmental conditions in which they will be used.

## Steel 1mm 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 0.001mm Step Block Sets



Steel 9-block set



Steel 9-block set



Steel 18-block set

## Steel Long Block Sets



Steel 8-block set

## Steel Wear Block Sets



Steel 2-block set

## Steel Thin Block Sets



Steel 9-block set

Note: Details of the contents of any particular set are given on page E-14.

### CERA 1mm Base Block Sets



CERA 112-block set



CERA 103-block set



CERA 76-block set



CERA 56-block set



CERA 47-block set



CERA 46-block set



CERA 34-block set



CERA 32-block set

### CERA 0.001mm Step Block Sets



CERA 9-block set



CERA 9-block set

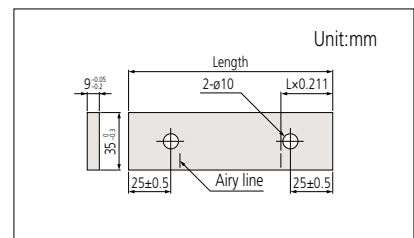


CERA 18-block set

### CERA Long Block Sets



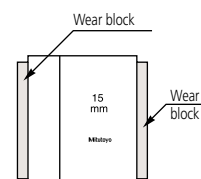
CERA 8-block set



### CERA Wear Block Sets



CERA 2-block set



Note: Details of the contents of any particular set are given on page E-15.

**\* Suffix Number ( n ) for Selecting Standard and Certificate Provided**

ISO/DIN/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**

\* Refer to "Classification of Gauge Blocks by Shape" on page 37 for sizes and forms, and "Accuracies of Mitutoyo Gauge Blocks" on page 8 and 9 for accuracy.

1mm Base Block Sets								
Blocks per set	Order No.		Standard / grade available and Suffix No.*			Blocks included in set		
	Steel	CERA	ISO/DIN/JIS	ASME	BS	Size	Step	Qty.
122	—	—	—	—	—	1.0005	—	1
	516-596	—	K: -n0	—	—	1.001 - 1.009	0.001	9
	516-597	—	0: -n0	—	—	1.01 - 1.49	0.01	49
	516-598	—	1: -n0	—	—	1.6 - 1.9	0.1	4
112	516-531	516-541	—	K: -n6	—	1.0005	—	1
	516-937	516-337	K: -n0	00: -n6	K: -n1	1.001 - 1.009	0.001	9
	516-938	516-338	0: -n0	0: -n6	0: -n1	1.01 - 1.49	0.01	49
	516-939	516-339	1: -n0	1: -n6	1: -n1	0.5 - 24.5	0.5	49
103	516-533	516-542	—	K: -n6	—	1.005	—	1
	516-941	516-341	K: -n0	00: -n6	K: -n1	1.01 - 1.49	0.01	49
	516-942	516-342	0: -n0	0: -n6	0: -n1	0.5 - 24.5	0.5	49
	516-943	516-343	1: -n0	1: -n6	1: -n1	25 - 100	25	4
88	—	—	—	—	—	1.0005	—	1
	516-969	516-369	—	—	K: -n1	1.001 - 1.009	0.001	9
	516-970	516-370	0: -n0	—	0: -n1	1.01 - 1.49	0.01	49
	516-971	516-371	1: -n0	—	1: -n1	0.5 - 9.5	0.5	19
87	516-535	515-543	—	K: -n6	—	1.001 - 1.009	0.001	9
	516-945	516-345	K: -n0	00: -n6	K: -n1	1.01 - 1.49	0.01	49
	516-946	516-346	0: -n0	0: -n6	0: -n1	0.5 - 9.5	0.5	19
	516-947	516-347	1: -n0	1: -n6	1: -n1	10 - 100	10	10
76	—	—	—	—	—	1.005	—	1
	516-949	516-349	K: -n0	—	—	1.01 - 1.49	0.01	49
	516-950	516-350	0: -n0	—	—	0.5 - 9.5	0.5	19
	516-951	516-351	1: -n0	—	—	10 - 40	10	4
56	516-536	516-544	—	K: -n6	—	0.5	—	1
	516-953	516-353	K: -n0	00: -n6	—	1.001 - 1.009	0.001	9
	516-954	516-354	0: -n0	0: -n6	—	1.01 - 1.09	0.01	9
	516-955	516-355	1: -n0	1: -n6	—	1.1 - 1.9	0.1	9
47	516-537	516-545	—	K: -n6	—	1.005	—	1
	516-957	516-357	K: -n0	00: -n6	—	1.01 - 1.09	0.01	9
	516-958	516-358	0: -n0	0: -n6	—	1.1 - 1.9	0.1	9
	516-959	516-359	1: -n0	1: -n6	—	1 - 24	1	24
47	—	—	—	—	—	1.005	—	1
	516-961	516-361	K: -n0	—	K: -n1	1.01 - 1.19	0.01	19
	516-962	516-362	0: -n0	—	0: -n1	1.2 - 1.9	0.1	8
	516-963	516-363	1: -n0	—	1: -n1	1 - 9	1	9
46	—	—	—	—	—	1.001 - 1.009	0.001	9
	516-994	516-394	K: -n0	—	—	1.01 - 1.09	0.01	9
	516-995	516-395	0: -n0	—	—	1.1 - 1.9	0.1	9
	516-996	516-396	1: -n0	—	—	1 - 9	1	9
34	—	—	—	—	—	1.005	—	1
	516-128	516-178	K: -n0	—	K: -n1	1.001 - 1.009	0.001	9
	516-129	516-179	0: -n0	—	0: -n1	1.01 - 1.09	0.01	9
	516-130	516-180	1: -n0	—	1: -n1	1.1 - 1.9	0.1	9
32	—	—	—	—	—	1.005	—	1
	516-965	516-365	K: -n0	—	K: -n1	1.01 - 1.09	0.01	9
	516-966	516-366	0: -n0	—	0: -n1	1.1 - 1.9	0.1	9
	516-967	516-367	1: -n0	—	1: -n1	1 - 9	1	9

Thin Block Sets								
Blocks per set	Order No.		Standard / grade available and Suffix No.*			Blocks included in set		
	Steel	CERA	ISO/DIN/JIS	ASME	BS	Size	Step	Qty.
9	516-990	—	0: -n0	—	—	0.10 - 0.50	0.05	9
	516-991	—	1: -n0	—	—			
	516-992	—	2: -n0	—	—			

## SPECIFICATIONS

\* Refer to "Classification of Gauge Blocks by Shape" on page 37 for sizes and forms, and "Accuracies of Mitutoyo Gauge Blocks" on page 8 and 9 for accuracy.

0.001mm Step Block Set								
Blocks per set	Order No.		Standard / grade available and Suffix No.*			Blocks included in set		
	Steel	CERA	ISO/DIN/JIS	ASME	BS	Size	Step	Qty.
<b>18</b>	516-973	516-373	K: -n0	—	—	0.991 - 0.999	0.001	9
	516-974	516-374	0: -n0	—	—	1.001 - 1.009	0.001	9
	516-975	516-375	1: -n0	—	—	—	—	—
	516-976	516-376	2: -n0	—	—	—	—	—
<b>9</b>	516-981	516-381	K: -n0	—	K: -n1	1.001 - 1.009	0.001	9
	516-982	516-382	0: -n0	—	0: -n1	—	—	—
	516-983	516-383	1: -n0	—	1: -n1	—	—	—
	516-984	516-384	2: -n0	—	2: -n1	—	—	—
<b>9</b>	516-985	516-385	K: -n0	—	—	0.991 - 0.999	0.001	9
	516-986	516-386	0: -n0	—	—	—	—	—
	516-987	516-387	1: -n0	—	—	—	—	—
	516-988	516-388	2: -n0	—	—	—	—	—

Long Block Sets								
Blocks per set	Order No.		Standard / grade available and Suffix No.*			Blocks included in set		
	Steel	CERA	ISO/DIN/JIS	ASME	BS	Size	Step	Qty.
<b>8</b>	516-540	516-546	—	K: -n6	—	125 - 175	25	3
	516-701	516-731	K: -n0	00: -n6	—	200 - 250	50	2
	516-702	516-732	0: -n0	0: -n6	—	300 - 500	100	3
	516-703	516-733	1: -n0	1: -n6	—	—	—	—
	516-704	516-734	2: -n0	2: -n6	—	—	—	—
	—	—	—	—	—	—	—	—

Wear Block Sets								
Blocks per set	Order No.		Standard / grade available and Suffix No.*			Blocks included in set		
	Carbide	CERA	ISO/DIN/JIS	ASME	BS	Size	Step	Qty.
<b>2</b>	516-807	516-832	0: -n0	0: -n6	—	1	—	2
	516-806	516-833	1: -n0	1: -n6	—	—	—	—
<b>2</b>	516-803	516-830	0: -n0	0: -n6	—	2	—	2
	516-802	516-831	1: -n0	1: -n6	—	—	—	—

Inch Block Sets								
Blocks per set	Order No.		Standard / grade available and Suffix No.*			Blocks included in set		
	Steel	CERA	ISO/DIN/JIS	ASME	BS	Size	Step	Qty.
<b>82</b>	516-548	516-556	—	K: -n6	—	.10005	—	1
	516-905	516-305	—	00: -n6	—	.1001 - .1009	.0001	9
	516-906	516-306	—	0: -n6	0: -n1	.101 - .149	.001	49
	516-907	516-307	—	1: -n6	1: -n1	.05 - .95	.05	19
	516-908	516-308	—	2: -n6	2: -n1	1 - 4	1	4
	—	—	—	—	—	—	—	—
<b>81</b>	516-549	516-557	—	K: -n6	—	.1001 - .1009	.0001	9
	516-901	516-301	—	00: -n6	—	.101 - .149	.001	49
	516-902	516-302	—	0: -n6	0: -n1	.05 - .95	.05	19
	516-903	516-303	—	1: -n6	1: -n1	1 - 4	1	4
	516-904	516-304	—	2: -n6	2: -n1	—	—	—
	—	—	—	—	—	—	—	—
<b>49</b>	—	—	—	—	—	.1001 - .1009	.0001	9
	—	—	—	—	—	.101 - .109	.001	9
	516-910	—	—	—	0: -n1	.01 - .19	.01	19
	516-911	—	—	—	1: -n1	.2 - .9	.1	8
516-912	—	—	—	2: -n1	1 - 4	1	4	
<b>35</b>	516-550	516-558	—	K: -n6	—	.10005	—	1
	516-913	516-313	—	00: -n6	—	.1001 - .1009	.0001	9
	516-914	516-314	—	0: -n6	0: -n1	.101 - .109	.001	9
	516-915	516-315	—	1: -n6	1: -n1	.11 - .19	.01	9
	516-916	516-316	—	2: -n6	2: -n1	.1 - .3	.1	3
	—	—	—	—	—	.5, 1, 2, 4	—	4

Thin Block Sets								
Blocks per set	Order No.		Standard / grade available and Suffix No.*			Blocks included in set		
	Steel	CERA	ISO/DIN/JIS	ASME	BS	Size	Step	Qty.
<b>28</b>	516-551	—	—	K: -n6	—	.02005	—	1
	516-917	—	—	00: -n6	—	.0201 - .0209	.0001	9
	516-918	—	—	0: -n6	—	.021 - .029	.001	9
	516-919	—	—	1: -n6	—	.01 - .09	.01	9
	516-920	—	—	2: -n6	—	—	—	—
<b>10</b>	516-926	—	—	0: -n6	0: -n1	.005 - .050	.005	10
	516-927	—	—	1: -n6	1: -n1	—	—	—
	516-928	—	—	—	2: -n1	—	—	—

Long Block Sets								
Blocks per set	Order No.		Standard / grade available and Suffix No.*			Blocks included in set		
	Steel	CERA	ISO/DIN/JIS	ASME	BS	Size	Step	Qty.
<b>8</b>	—	516-564	—	K: -n6	—	5 - 7	1	3
	—	516-741	—	00: -n6	—	8, 10, 12	2	3
	516-712	516-742	—	0: -n6	—	16, 20	4	2
	516-713	516-743	—	1: -n6	—	—	—	—

Wear Block Sets								
Blocks per set	Order No.		Standard / grade available and Suffix No.*			Blocks included in set		
	Carbide	CERA	ISO/DIN/JIS	ASME	BS	Size	Step	Qty.
<b>2</b>	516-809	516-836	—	0: -n6	—	.05	—	2
	516-808	516-837	—	1: -n6	—	—	—	—
<b>2</b>	516-805	516-834	—	0: -n6	—	.1	—	2
	516-804	516-835	—	1: -n6	—	—	—	—