

Gauge Blocks

Length Standards Brought to You by Mitutoyo

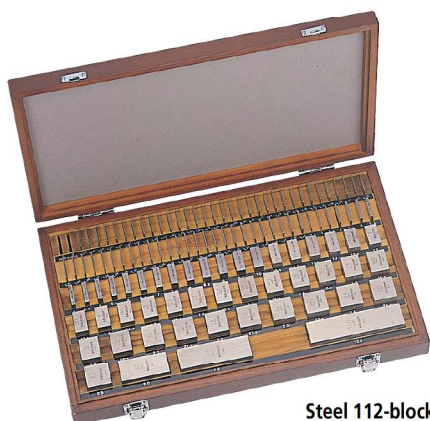


An inspection certificate is supplied as standard. Refer to page U-11 for details.

Metric/Inch Square Gauge Block Sets

SERIES 516 — Metric Block Sets, Long Block Sets, Wear Block Sets

- Square gauge block sets have several unique characteristics (Refer to page E-4 for details). A wide choice is provided to best match the target applications: sets containing from 2 to 112 blocks are available.
- It is recommended to use only Mitutoyo accessory sets with these gauge blocks as the tolerances on the assembly hole countersinks in the blocks and mating screw heads in the sets are 5 times tighter than the applicable standard, and therefore are guaranteed to fit together correctly.



Steel 112-block set



Steel 103-block set



Steel 76-block set



Steel 47-block set



Steel 32-block set

Wear block set



Tungsten Carbide

Long block set



Steel 8-block set

These square wear gauge blocks made of cemented carbide have excellent resistance to abrasion, making them ideal for protecting the ends of a stack of blocks subject to frequent use. Available in two nominal sizes: 1 mm and 2 mm. We recommend that these wear gauge blocks of both sizes be wrung firmly to the stack when in use.

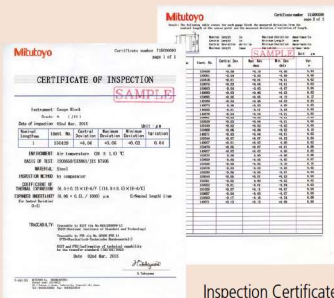


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Refer to page U-11 for details.

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

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

ASME		
Suffix No.	Inspection Certificate	Calibration Certificate
		JCSS
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	Size (mm)	Step (mm)	Qty.
112	516-437	—	—	00: - ■6	1.005	—	1
	516-438	—	0: - ■0	0: - ■6	1.001 - 1.009	0.001	9
	516-439	—	1: - ■0	1: - ■6	1.01 - 1.49	0.01	49
	516-440	—	2: - ■0	2: - ■6	0.5 - 24.5	0.5	49
	—	—	—	—	25 - 100	25	4
103	516-441	—	—	00: - ■6	1.005	—	1
	516-442	—	0: - ■0	0: - ■6	1.01 - 1.49	0.01	49
	516-443	—	1: - ■0	1: - ■6	0.5 - 24.5	0.5	49
	516-444	—	2: - ■0	2: - ■6	25 - 100	25	4
76	516-449	—	—	00: - ■6	1.005	—	1
	516-450	—	0: - ■0	0: - ■6	1.01 - 1.49	0.01	49
	516-451	—	1: - ■0	1: - ■6	0.5 - 9.5	0.5	19
	516-452	—	2: - ■0	2: - ■6	10 - 40	10	4
	—	—	—	—	50 - 100	25	3
47	516-457	—	—	00: - ■6	1.005	—	1
	516-458	—	0: - ■0	0: - ■6	1.01 - 1.09	0.01	9
	516-459	—	1: - ■0	1: - ■6	1.1 - 1.9	0.1	9
	516-460	—	2: - ■0	2: - ■6	1 - 24	1	24
	—	—	—	—	25 - 100	25	4
32	516-465	—	—	00: - ■6	1.005	—	1
	516-466	—	0: - ■0	0: - ■6	1.01 - 1.09	0.01	9
	516-467	—	1: - ■0	1: - ■6	1.1 - 1.9	0.1	9
	516-468	—	2: - ■0	2: - ■6	1 - 9	1	9
	—	—	—	—	10 - 30	10	3
—	—	—	—	60	—	1	

Metric Long Block Sets							
Blocks per set	Order No.		Standard/grade available and Suffix No.*1		Blocks included in set		
	Steel	CERA	ISO/DIN/JIS	ASME	Size (mm)	Step (mm)	Qty.
8	516-751	—	—	00: - ■ 6	125, 150, 175	25	3
	516-752	—	0: - ■ 0	0: - ■ 6	200, 250	50	2
	516-753	—	1: - ■ 0	1: - ■ 6	300, 400, 500	100	3
	516-754	—	2: - ■ 0	2: - ■ 6			

Metric Wear Block Sets							
Blocks per set	Order No.		Standard/grade available and Suffix No.*1		Blocks included in set		
	Steel	CERA	ISO/DIN/JIS	ASME	Size (mm)	Step (mm)	Qty.
2	516-820	—	0: - ■ 0	—	1	—	2
	516-821	—	1: - ■ 0	—			
2	516-822	—	0: - ■ 0	—	2	—	2
	516-823	—	1: - ■ 0	—			

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	Size (in)	Step (in)	Qty.
81	516-401	516-201	—	00: - ■ 6	0.1001 - 0.1009	0.0001	9
	516-402	516-202	—	0: - ■ 6	0.101 - 0.149	0.001	49
	516-403	516-203	—	1: - ■ 6	0.05 - 0.95	0.05	19
	516-404	516-204	—	2: - ■ 6	1 - 4	1	4
36	516-421	516-221	—	00: - ■ 6	0.05	—	1
	516-422	516-222	—	0: - ■ 6	0.1001 - 0.1009	0.0001	9
	516-423	516-223	—	1: - ■ 6	0.101 - 0.109	0.001	9
	516-424	516-224	—	2: - ■ 6	0.11 - 0.19	0.01	9
	—	—	—	—	0.1 - 0.5	0.1	5
	—	—	—	—	1, 2, 4	1	3
28	516-417	—	—	00: - ■ 6	0.02005	—	1
	516-418	—	—	0: - ■ 6	0.0201 - 0.0209	0.0001	9
	516-419	—	—	1: - ■ 6	0.021 - 0.029	0.001	9
	516-420	—	—	2: - ■ 6	0.010 - 0.090	0.01	9
	—	—	—	—	—	—	—

Inch Long Block Sets							
Blocks per set	Order No.		Standard/grade available and Suffix No. *1		Blocks included in set		
	Steel	CERA	ISO/DIN/JIS	ASME	Size (in)	Step (in)	Qty.
8	516-762	—	—	0: - 10	5 - 7	1	3
	516-763	—	—	1: - 10	8, 10, 12	2	3
	—	—	—		16, 20	4	2

Inch Wear Block Sets							
Blocks per set	Order No.		Standard/grade available and Suffix No.*1		Blocks included in set		Qty.
	Carbide	CERA	ISO/DIN/JIS	ASME	Size (in)	Step (in)	
2	516-824	516-846	—	0: -■0	0.05	—	2
	516-825	516-847	—	1: -■0			
2	516-826	516-844	—	0: -■0	0.1	—	2
	516-827	516-845	—	1: -■0			