Black Granite Surface Plates SERIES 517

- Natural granite is free from deterioration or dimensional change over time.
- Black Granite Plate's most distinctive feature is its hardness, twice that of cast iron.
- Free from wringing effects, so there is no interruption of work.
- Since granite is harder, finer grained, and more brittle than cast iron it does not throw up burrs or protrusions if scratched. (See Figure 1.) This ensures a high degree of flatness with no risk of damaging instruments or workpieces.
- Use these plates in a stable temperature environment.

Since flatness error occurs when there is a temperature difference between the working surface and the underside, avoid working in direct sunlight. Also, do not place a plate in the vicinity of an air conditioner or heater. (Recommended environment: Temperature 20 ± 1 °C, Humidity 58±2%)

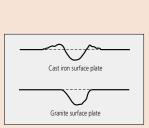


Figure 1



Machining of optional through holes, screw bushings, etc.

Through holes and screw holes (bushings) can be machined to order on surface plates. For detailed information, contact the nearest Mitutoyo sales office.

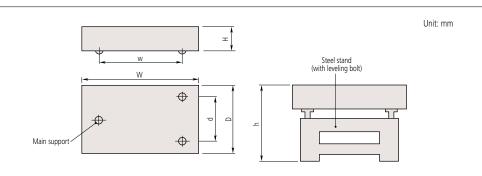


SPECIFICATIONS

Order No.	Size (mm)			Flatness	Mass	Optional stands for black granite surface plates			h
	W×D×H	d	w	(µm)	(kg)	Standard type	with safety frame	with casters (with safety frame)	h (mm)
517-401-4 517-301 517-101	300×300×100	240	240	2 3 5	27	-	_	_	_
517-411-4 517-311 517-111	450×300×100	240	390	2 3 6	40	_	_	_	_
517-414-4 517-314 517-114	600×450×100	370	500	2.5 4 8	80	517-203-2	517-203R	517-203CR	755 to 775
517-403-4 517-303 517-103	600×600×130	500	500	2.5 5 8	140	517-204-2	517-204R	517-204CR	755 to 775
517-405-4 517-305 517-105	750×500×130	420	630	3 5 9	146	517-205-2	517-205R	517-205CR	755 to 775
517-407-4 517-307 517-107	1000×750×150	630	700	3 6 12	337	517-206-2	517-206R	517-206CR	755 to 775
517-409-4 517-309 517-109	1000×1000×150	700	700	3.5 7 13	450	517-207-2	517-207R	517-207CR	735 to 775
517-413-4 517-313-4 517-113-4	1500×1000×200	700	1100	4 8 16	900	517-208-4	517-208R	517-208CR	735 to 775
517-410-4 517-310-4 517-110-4	2000×1000×250	700	1500	4.5 9.5 19	1500	517-209-4	517-209R	517-209CR	735 to 775
517-416-4 517-316-4 517-116-4	2000×1500×300	1100	1500	5 10 20	2700	517-210-4	517-210R	517-210CR	735 to 775
*1 *1	2000×2000×350	1500	1500	11 22	4200	—	_	_	700 to 706* ²
*1 *1	3000×1500×400	1100	2000	12.5 25	5400	_	—	_	700 to 706* ²
*1 *1	3000×2000×500	1500	2000	13.5 27	9000	_	—	_	700 to 706* ²

*1 2000×2000 or larger is available by special order. Consult your local Mitutoyo sales office. *2 Distance from the bottom of the large granite plate block mount to the granite plate top surface.

DIMENSIONS



SPECIFICATIONS: Main and auxiliary supports for large surface plates

Order No.	Applicable surface plates			
order No.	Size (W×D×H) (mm)			
06AAY174	2000×2000×350			
06AAY175	3000×1500×400			
06AAY176	3000×2000×500			



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