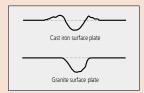
Black Granite Surface Plates SERIES 517

- 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



Custom-made Granite Products

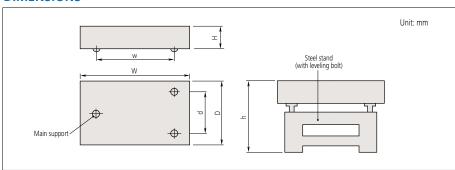
Mitutoyo can manufacture granite products to your design (such as main structural components of semiconductor instruments and process machinery). For detailed information, contact the nearest Mitutoyo sales office.

SPECIFICATIONS

SFECIFICATIONS									
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)	(mm)
517-401-4				2					
517-301	300×300×100	240	240	3	27	_	_	_	_
517-101 517-411-4				5 2					
517-311	450×300×100	240	390	3	40	_	_	_	_
517-111				6					
517-414-4				2.5					
517-314	600×450×100	370	500	4	80	517-203-2	517-203R	517-203CR	755 to 775
517-114 517-403-4				2.5					
517-303	600×600×130	500	500	5	140	517-204-2	517-204R	517-204CR	755 to 775
517-103				8					
517-405-4				3					
517-305	750×500×130	420	630	5	146	517-205-2	517-205R	517-205CR	755 to 775
517-105 517-407-4				9					
517-407-4	1000×750×150	630	700	6	337	517-206-2	517-206R	517-206CR	755 to 775
517-107				12				311 222	, 55 to , , 5
517-409-4	1000×1000×150	700	700	3.5	450	517-207-2	517-207R	517-207CR	735 to 775
517-309				7					
517-109 517-413-4				13 4					
517-413-4	1500×1000×200	700	1100	8	900	517-208-4	517-208R	517-208CR	735 to 775
517-113-4	150011100011200			16	300				
517-410-4				4.5					
517-310-4	2000×1000×250	700	1500	9.5	1500	517-209-4	517-209R	517-209CR	735 to 775
517-110-4 517-416-4				19 5					
517-410-4	2000×1500×300	1100	1500	10	2700	517-210-4	517-210R	517-210CR	735 to 775
517-116-4				20					
517-317-4	2000×2000×350	1500	1500	11	4200	_	_	_	700 to 706*
517-117-4	2000/2000/330	1500	1300	22	4200				700 to 700
517-318-4 517-118-4	3000×1500×400	1100	2000	12.5 25	5400	_	_	_	700 to 706*
517-110-4	2000 2000 500	4500	2000	13.5	0000				700 : 705 :
517-119-4	3000×2000×500	1500	2000	27	9000	_	_	_	700 to 706*

^{*} 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

The state of the s										
	Support sets		Applicable surface plates							
Order No.	Main support	Auxiliary support	Order No.	Size (W×D×H) (mm)						
06AAY174	2 nec	2 nec	517-317	2000×2000×350						
00AA11/4	3 pcs.	2 pcs.	517-117	2000×2000×550						
06AAY175			517-318	3000×1500×400						
U0AA 1 1/3	2 ncc	2 ncc	517-118	3000x1300x400						
06AAY176	3 pcs.	3 pcs.	517-319	3000×2000×500						
U0AA11/0			517-119	5000×2000×500						



