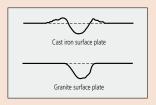
# **Reference Gages**

Length Standards Brought to You by Mitutoyo

# Black Granite Surface Plates SERIES 517

- Natural granite is free from deterioration or dimensional change over time.
- Granite surface plates have significant advantages over cast iron surface plates: Twice as hard as cast iron. Non-magnetic. Low thermal expansion.
- Free from wringing, so there is no interruption of work.
- Free from burrs or protrusions because of the fine grain structure and insignificant stickiness; this ensures a high degree of flatness over a long service life and causes no damage to workpieces or instruments.
- 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, etc. (Recommended environment: Temperature 20±1°C, Humidity 58±2%)









### **Custom-made Granite Products**

Mitutoyo can manufacture granite products to your design (such as main structural components of semiconductor instruments and process machinery).





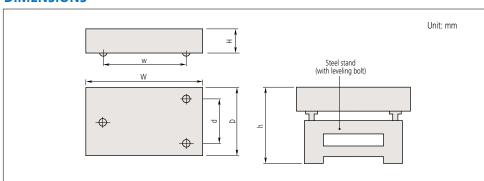
Grinding CMM granite tables on a large grinding machine



# **SPECIFICATIONS**

Order No.	Size			[]ata asa	Mass	Stand (Option) Order No.			L
	WxDxh	d	W	Flatness	Mass	Normal type	with safty frame	with caster	- h
517-401				2µm					
517-301	300×300×100mm	240mm	240mm	3µm	27kg	_	_	_	_
517-101				5µm					
	<b>517-411</b> 450×300×100mm	240mm	390mm	2µm	40kg	_	_	_	_
				3µm					
517-111				6µm					
517-414		370mm	500mm	2.5µm	80kg	517-203	517-203R	517-203CR	755 - 775mm* <sup>1</sup>
517-314	600×450×100mm			4µm					
517-114				8µm					
517-403		500mm	500mm	2.5µm	140kg	517-204	517-204R	517-204CR	755 - 775mm* <sup>1</sup>
	600×600×130mm			5µm					
517-103				8µm					
517-405	<b>05</b> 750×500×130mm	420mm	630mm	3µm	146kg	517-205	517-205R	517-205CR	755 - 775mm* <sup>1</sup>
517-305				5µm					
517-105				9µm					
517-407	<b>17-307</b> 1000×750×150mm	630mm	700mm	3µm	337kg	517-206	517-206R	517-206CR	755 - 775mm* <sup>1</sup>
				6µm					
517-107 517-409				12µm					
	17-309 1000×1000×150mm	700mm	700mm	3.5µm	450kg	517-207	517-207R	517-207CR	735 - 775mm* <sup>1</sup>
517-309				7μm 13μm					
517-109				4µm					
517-313	1500×1000×200mm	700mm	1100mm	8μm	900kg	517-208	517-208R	517-208CR	735 - 775mm* <sup>1</sup>
517-113	1300×1000×20011111			16μm			317-200K	317-200CK	, 55 //5/////
517-410		700mm	1500mm	4.5µm	1500kg	517-209	517-209R	517-209CR	735 - 775mm* <sup>1</sup>
517-310	2000×1000×250mm			9.5µm					
517-110				19µm					
517-416	6 2000×1500×300mm	1100mm	1500mm	5µm	2700kg	517-210	517-210R	517-210CR	735 - 775mm* <sup>1</sup>
517-316				10µm					
517-116				20µm					
517-317	2000×2000×350mm	1500mm	1500mm	11µm	4200kg	_	_	_	700 - 706mm* <sup>1</sup>
517-117				22µm					
517-318	3000×1500×400mm	1100mm	2000mm -	12.5µm	5400kg	_	_	_	700 - 706mm* <sup>1</sup>
517-118				25µm					
517-319	3000×2000×500mm	1500mm	2000mm	13.5µm	9000kg	_	_	_	700 - 706mm* <sup>1</sup>
517-119				27µm					700 - 700111111

## **DIMENSIONS**

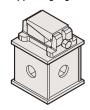


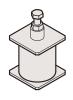
#### **SPECIFICATIONS: Stand**

SI ECHICATIONS. Stand								
Block mount	Ap	Applicable surface plate						
Order No.	Order No.	Size (W × D × H)						
06AAY174	517-317	2000 × 2000 × 350mm						
00AA1174	517-117	2000 x 2000 x 33011111						
06AAY175	517-318	3000 × 1500 × 400mm						
U0AA11/5	517-118							
06AAY176	517-319	3000 × 2000 × 500mm						
OUAAT 170	517-119	3000 × 2000 × 30011111						

Block platform for supporting legs

Block platform for auxiliary legs







<sup>\*</sup> With leveling bolt.
\*1 Distance from the bottom of the large granite plate block mount to the granite plate top surface.