

Granite Surface Plates

CODE	LENGTH	WIDTH	THICKNESS	ACCURACY
TSMHC8005	12 Inches	9 Inches	2 Inches	0.0002 Inches
TSMHC8010	12 Inches	12 Inches	3 Inches	0.0002 Inches
TSMHC8015	18 Inches	12 Inches	3 Inches	0.00023 Inches
TSMHC8020	24 Inches	18 Inches	3 Inches	0.0003 Inches
TSMHC8025	36 Inches	24 Inches	4 Inches	0.0005 Inches
TSMHC8030	48 Inches	36 Inches	4 Inches	0.0007 Inches

Granite Surface Plates are precision reference surfaces used for inspection, measurement, and layout work in metrology laboratories, inspection rooms, and workshop environments. Manufactured from fine-grained natural granite, they offer excellent dimensional stability, high rigidity, and long-term resistance to wear. Granite is non-magnetic, corrosion-resistant, and does not burr, making it well suited for accurate and repeatable measurement tasks.

Due to its low thermal expansion and good vibration-damping characteristics, granite provides a stable measuring platform under normal ambient conditions. The dense crystalline structure helps resist surface damage and reduces the risk of fine particles embedding into the working surface, assisting in the long-term preservation of flatness when plates are correctly maintained.

Granite surface plates are precision lapped to defined flatness tolerances and supplied in different accuracy grades to suit both inspection and workshop applications. They are commonly used as a base for height gauges, dial indicators, surface gauges, and comparator equipment, as well as for general dimensional inspection and marking-out work. When properly supported, cleaned regularly, and recalibrated at appropriate intervals, granite surface plates provide a reliable datum surface essential for precision measurement and quality control operations.