

PRECISION GRANITE SURFACE PLATE (METROLOGY PURPOSE)



Product Introduction:

Main material composition of granite are picrite, plagoclas, a little olivine, biotite and atom magnetite. It is black and has precision structure. It has uniform texture, good stability, big intension, high hardness and high precision under heavy duty through millions of years aging. It is suitable for the measuring work of industrial production and laboratory.

Physical properties:

Density	: 2970 – 3070kgf/m ³
Compressive strength	: 245-254N/mm ²
Flexible grinding amount	: 1.27-1.47N/mm ²
Coefficient of linear expansion	: 4.61 x 10 ⁻⁶ /°C
Water Absorption	: <0.13%
Shore hardness	: Over Hs70

Flatness Tolerance:

The precision of granite surface plate refers to the standard of developed country. The flatness tolerance should accord with the standard of JB/T7975-1999.

Grade 000 = $1 \times (1+d/1000) \mu\text{m}$

Grade 00 = $2 \times (1+d/1000) \mu\text{m}$

Grade 0 = $4 \times (1+d/1000) \mu\text{m}$

Grade 1 = $8 \times (1+d/1000) \mu\text{m}$

❖ (d : diagonal mm)

❖ (measuring temperature $20 \pm 2^\circ\text{C}$)

Optional Features (Vibration Isolator):

To add on “Rubber Vibration Isolator”, for purpose to reduce the vibration Hz that defect the measurement accuracy on production flow.



Figure 1.1: Rubber Vibration Isolator

Pictures References:



Figure 1.2: Granite w/ Stand



Figure 1.3: Levelling Stand

Model	Available Size (Length x Width x Thickness)	Total Height (Included Granite + Stand)
GN400x400x100T	400 x 400 x 100 mm	855 – 875 mm
GN450x450x100T	450 x 450 x 100 mm	855 – 875 mm
GN500x400x100T	500 x 400 x 100 mm	855 – 875 mm
GN600x600x100T	600 x 600 x 100 mm	855 – 875 mm
GN630x400x100T	630 x 400 x 100 mm	855 – 875 mm
GN800x600x100T	800 x 600 x 100 mm	855 – 875 mm
GN900x600x100T	900 x 600 x 100 mm	855 – 875 mm
GN1000x750x150T	1000 x 750 x 150 mm	855 – 875 mm
GN1000x1000x150T	1000 x 1000 x 150 mm	855 – 875 mm
GN1200x900x150T	1200 x 900 x 150 mm	855 – 875 mm
GN1500x1000x150T	1500 x 1000 x 150 mm	855 – 875 mm
GN1500x1500x150T	1500 x 1500 x 150 mm	855 – 875 mm