

GRANITE SURFACE PLATES

QUALITY, RELIABILITY AND VALUE FOR MONEY



Material, Texture, Hardness

JAFUJI GRANITE SURFACE PLATES is a crystalline rock, has a fine grained, non-porous texture. It is crystalline throughout and the composition is hard and compact. The average grain size measures less than 1 mm whereas the average grain size of the common grey or pink granite varies from 2 to 3 mm. The crystal grains of ordinary granite vary in size and the spaces between the individual grains are soft and porous. Granite is a very homogenous material (density of texture 20% higher than that of ordinary grade) and has a constant hardness throughout (6-6.5 the moh's scale). Granite does not have the aforementioned soft in-between spaces and has therefore is much higher wear resistance and higher degree of flatness accuracy.

Material Strength

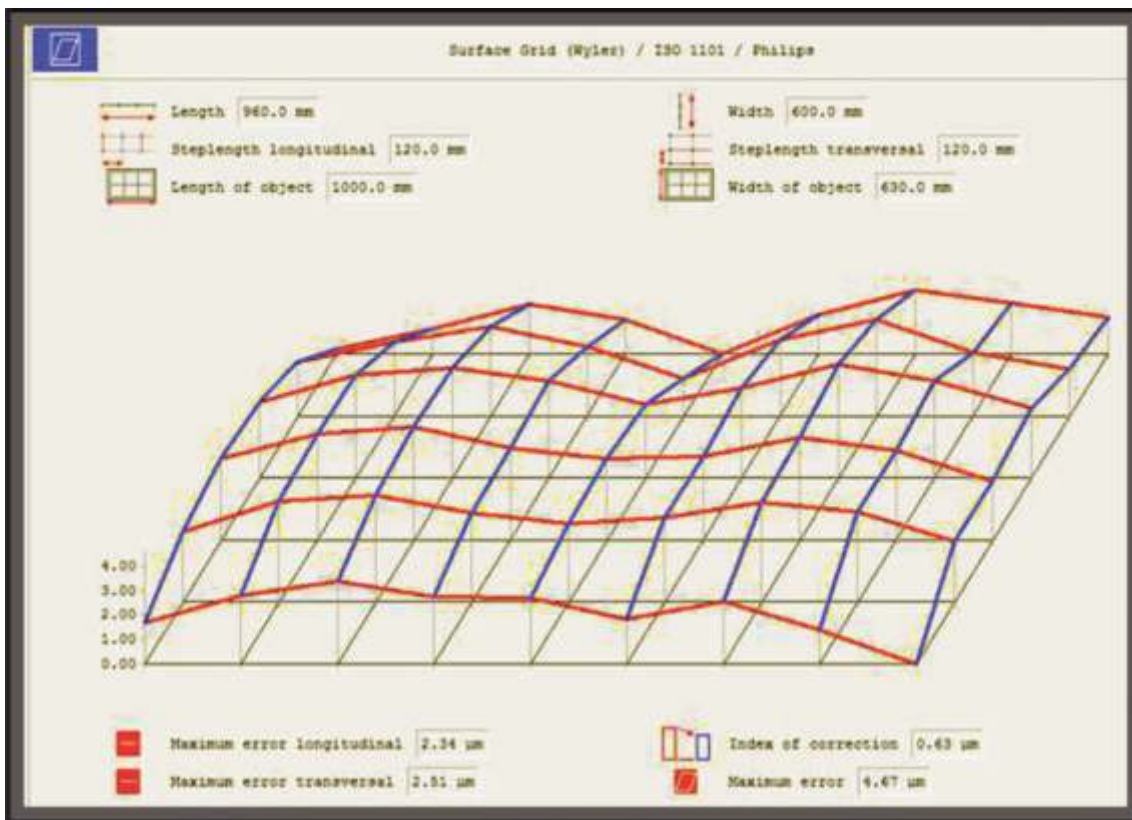
JAFUJI GRANITE SURFACE PLATES has a material strength, which is three times greater than that of ordinary granite and it is rigid. To obtain the same rigidity, a surface plate made of ordinary granite would require a 44% greater thickness. These mentioned qualities make granite an ideal material for surface plates providing increased wear resistance and a much longer life span.

Insensitive to Temperature changes

JAFUJI GRANITE SURFACE PLATES has a very low expansion coefficient ($3-5 \times 10^{-6}$ meter/degree/meter), which makes it least responsive to temperature changes. Changing temperatures in shops, inspection rooms etc., which are virtually unavoidable since warm air rises and cold air remains below, affects ordinary granite plates much more than our surface plates and they are therefore subject to warping which in turn jeopardizes flatness.

Other Advantages

- 100% corrosion-proof and acid resistant, Non-magnetic and electrically non-conductive fast and easy to clean.
- No oiling required which is mandatory on cast iron surface plates - surface with non-glaring satin finish.



WYLER GEOMETRY MEASURING - SYSTEM

Company	:	Granite Surface Plate
Drawing No.	:	Size : 100 x 630 x 140 mm
Order / Ident No.	:	S.No. 9957
Date / Inspection	:	05-08-2017
AV Temp. before	:	21 degree C
AV Temp. after	:	22 degree C
Miscellaneous 1	:	Electronic Level Wylers Swiss make
Miscellaneous 2	:	Calibrated by N.P.L for National Traceability
File	:	E:\SV. WYL

- ★ JAFUJI GRANITE SURFACE PLATES are inspected using Electronic level and software provided with "Wyler Measuring & Processing System" of M/s. Wyler Switzerland, to ensure the accuracy. These levels have a sensitivity of 0.001 mm/M. (we can also make grade 00 of din standard on special request).
- ★ JAFUJI GRANITE SURFACE PLATES are supplied with a calibration certificate of lab accredited by NABL showing graphic display of the flatness.
- ★ JAFUJI GRANITE SURFACE PLATES are polished on four sides including chamfering to get a better aesthetic look.
- ★ JAFUJI GRANITE SURFACE PLATES are manufactured by high precision lapping method providing 45° chamfering at edges & corners to avoid chip offs and cracks.

SPECIFICATIONS

Length	Width	Thickness	Accuracy as per IS-7327 - 2003 Grade '0'	Approx. Weight in Kgs.
400mm	400mm	60mm	4.5 µm	30
630mm	400mm	80mm	5.0 µm	65
630mm	630mm	80mm	5.0 µm	100
800mm	500mm	100mm	5.0 µm	120
1000mm	630mm	140mm	6.0 µm	300
1000mm	1000mm	150mm	7.0 µm	470
1200mm	800mm	160mm	7.0µm	500
1600mm	1000mm	200mm	8.0 µm	1000
2000mm	1000mm	200mm	9.5 µm	1300
3000mm	2000mm	300mm	14 µm	5400

- We can supply MS Fabricated stand with leveling screws