METROLOGY®



Granite Tri-Square Master

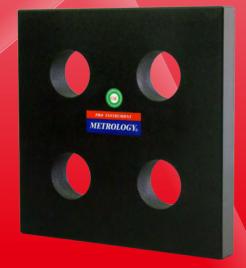


Granite Parallel Master



PRO INSTRUMENT
METROLOGY

Granite V-Block Master



Granite Four Face Square Master



Granite Straight Edge Master



Granite Surface Plate

GRANITE MASTER GAUGE

Granite Surface Plate

For layout of workpieces and measuring reference plane of geometric elements inspection.

Use repeat checking calibrator to check local error of plate flatness

Grade: German DIN 876/00, JCC inspection report included





Stone excavation & cutting



Stone milling to complete the shape



Grinding and drilling



Precision hand polishing

METR OLOGY

Model No.	Specification (L*W*T mm) Accuracy (mm)		Weight (kg)
GN-1010	100x100x50	0.0020	1.5
GN-2020	200x200x60	0.0025	7.2
GN-3030	300x300x80	0.0030	22
GN-3045	300x450x80	0.0030	37
GN-4560	450x600x100	0.0035	83
GN-5050	500x500x100	0.0035	75
GN-5080	500x800x100	0.0040	120
GN-6060	600x600x100	0.0040	112
GN-6090	600x900x100	0.0045	162
GN-75100	750x1000x150	0.0045	338
GN-90120	900x1200x150	0.0045	486
GN-100100	1000x1000x150	0.0050	465
GN-100150	1000x1500x200	0.0060	900
GN-100200	1000x2000x200	0.0065	1200
GN-150150	1500x1500x200	0.0065	1350
GN-150200	1500x2000x200	0.0070	1800
GN-150300	1500x3000x300	0.0140	4050
GN-200200	2000x2000x300	0.0140	3600
GN-200300	2000x3000x300	0.0180	5400
GN-200400	2000x4000x350	0.0220	8400
GN-300300	3000x3000x400	0.0260	9450
GN-300400	3000x4000x400	0.0300	12600

^{*}Providing requirement for specific type, specification and accuracy of granite structure.

^{*}Accuracy is DIN 0 grade, if the specification is bigger than GN-150300 (include)



■ Granite Tri-Square Master

An economical way to accurately check squareness and straightness of X-Y-Z axis on machine tools and coordinate measuring machines.

Grade: German DIN 876/00, JCC inspection report included





METR OLOGY.

Model No.	Specification (L*W*T mm)	- Accuracy (mm)	
GN-250T	250x160x40	0.0025	2.4
GN-300T	300x200x40	0.0030	3.6
GN-400T	400x250x40	0.0035	6
GN-630T	630x400x50	0.0045	18.9
GN-800T	800x500x60	0.0050	35
GN-1000T	1000x630x80	0.0060	70
GN-1500T	1500x1000x100	0.0075	200

*Above products with two-faces straightness, flatness, squareness, precision machining.

*Providing requirement for specific type, specification and accuracy of granite structure.

*Optional: wooden with leather box packaging.



Grade: German JFA Precision I++ and Precision Lab

Material: Finest Diabase black natural granite

Include: JFA Inspection Report, transport wooden case



Technical table									
side length - long side	mm	300	400	500	600	800	1000	1200	1500
side length - short side	mm	200	250	300	400	500	660	800	1000
width	mm	50	60	60	70	80	120	150	160
weight	kg	6	11	16	30	55	129	225	383
JFA precision I++	mm	0,002	0,002	0,002	0,002	0,004	0,004	0,004	0,004
JFA precision LAB	mm	0,001	0,001	0,001	0,001	0,002	0,002	0,002	0,002

Remark: Above specs are available in both 2 faces and 4 faces precision machining.



■ Granite Four Face Square Master

For more accurate checking of squareness, parallelism and straightness of X-Y-Z axis of machine tools and CMMs.

Grade: German DIN 876/00, JCC inspection report included





METR OLOGY.

Model No.	Specification (L*W*T mm)	- Accuracy (mm)	
GN-200F	200x200x40	0.0020	5
GN-300F	300x300x40	0.0025	12
GN-400F	400x400x50	0.0030	24
GN-500F	500x500x50	0.0035	38
GN-600F	600x600x60	0.0045	65
GN-800F	800x800x70	0.0050	134
GN-1000F	1000x1000x100	0.0075	300

- *Above products with four-faces straightness, flatness, squareness, parallelism, precision machining.
- *Providing requirement for specific type, specification and accuracy of granite structure.
- *Optional: wooden with leather box packaging.



Grade: German JFA Precision I++ and Precision Lab

Material: Finest Diabase black natural granite

Include: JFA Inspection Report, transport wooden case



Technical table								
side lengths	mm	200 x 200	300 x 300	400 x 400	500 x 500	600 x 600	800 x 800	1000 x 1000
width	mm	40	50	50	60	70	90	120
weight	kg	4	11	21	38	65	140	300
JFA precision I++	mm	0,002	0,002	0,002	0,002	0,002	0,004	0,004
JFA precision LAB	mm	0,001	0,001	0,001	0,001	0,001	0,002	0,002

Remark: Above specs are available in 4 faces, 5 faces, and 6 faces precision machining.



■ Granite Straight Edge Master

For accurate checking of straightness, parallels, and flatness of machine tools, measuring machines and workpieces.

Grade: German DIN 876/00, JCC inspection report included







GN-100012

Model No.	Specification (L*H*T mm)	Accuracy(mm)	Weight(kg)
GN-500S2	500x100x60	0.0020	9
GN-750S2	750x100x60	0.0025	13.5
GN-1000S2	1000x120x60	0.0030	21.6
GN-1500S2	1500x150x60	0.0045	40.5
GN-2000S2	2000x200x80	0.0055	96
GN-2500S2	2500x250x80	0.0070	150
GN-3000S2	3000x250x100	0.0085	225
GN-4000S2	4000x300x120	0.0120	432
GN-500S4	500x100x60	0.0020	9
GN-750S4	750x100x60	0.0025	13.5
GN-1000S4	1000x120x60	0.0030	21.6
GN-1500S4	1500x150x60	0.0045	40.5
GN-2000S4	2000x200x80	0.0055	96
GN-2500S4	2500x250x80	0.0070	150
GN-3000S4	3000x250x100	0.0085	225
GN-4000S4	4000x300x120	0.0120	432

Model No.	Specification (L*H*T mm)	Accuracy(mm)	Weight(kg)
GN-500I2	500x100x60	0.0020	6.5
GN-750I2	750x100x60	0.0025	10
GN-1000I2	1000x120x60	0.0030	16
GN-1500I2	1500x150x60	0.0045	30
GN-2000I2	2000x200x80	0.0055	76
GN-500I4	500x100x60	0.0020	6.5
GN-750I4	750x100x60	0.0025	10
GN-1000I4	1000x120x60	0.0030	16
GN-1500I4	1500x150x60	0.0045	30
GN-2000I4	2000x200x80	0.0055	76

12: I type of two-faces machining

14: I type of four-faces machining

*Normal productis with two-faces straightness, flatness, parallelism, precision machining.

*Special style, specification, and accuracy requirements available as per client request by drawing.

*Optional: wooden with leather box packaging.

S2: Straight type of two-faces machiningS4: Straight type of four-faces machining



Grade: German JFA Precision I++ and Precision Lab

Material: Finest Diabase black natural granite

Include: JFA Inspection Report, transport wooden case



Technical table									
length	mm	500	750	1000	1250	1500	1750	2000	2500
cross-section	mm	45 x 90	50 x 140	56 x 160	60 x 190	70 x 220	75 x 235	80 x 250	90 x 280
weight	kg	6	16	27	42	67	93	115	194
JFA precision I++	mm	0,002	0,002	0,002	0,004	0,004	0,004	0,004	0,004
JFA precision LAB	mm	0,001	0,001	0,001	0,002	0,002	0,002	0,002	0,002

Remark: Above Straight type specs are available in both 2 faces and 4 faces precision machining.

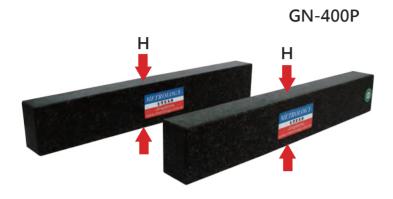


■ Granite Parallel Master

For setting up workpiece on surface plates and machine tables for checking parallels, straightness, and flatness.

Grade: German DIN 876/00, JCC inspection report included





^{*}Standard: 2pcs/ set

Model No.	Specification (L*H*T mm)	Accuracy (mm)	
GN-160P2	160x25x16	0.0015	0.5
GN-250P2	250x40x25	0.0020	1.5
GN-400P2	400x63x40	0.0040	6
GN-630P2	630x100x63	0.0060	24
GN-160P4	160x25x16	0.0015	0.5
GN-250P4	250x40x25	0.0020	1.5
GN-400P4	400x63x40	0.0040	6
GN-630P4	630x100x63	0.0060	24

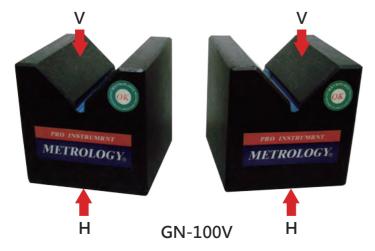
P2: two-faces machining P4: four-faces machining

Granite V-Block Master

For measuring coaxial, concentricity, roundness and roundout of cylindrical workpieces.

Grade: German DIN 876/00, JCC inspection report included





Model No.	Specification (L*W*H mm)	Accuracy (mm)	Weight (kg)
GN-60V	60x60x60	0.0015	1.2
GN-100V	100x100x80	0.0020	4
GN-160V	160x160x100	0.0025	14
GN-200V	200x200x120	0.0030	28
GN-300V	300x300x150	0.0045	80

^{*}Standard: 2pcs/ set, Normal product is with precision machining of flatness on both sides of bottom & V-shaped surfaces.

^{*}Normal product is with two-faces straightness, flatness, parallelism, precision machining.

^{*}Providing requirement for specific type, specification and accuracy of granite structure.

^{*}Optional: wooden with leather box packaging.

^{*}Providing requirement for specific type, specification and accuracy of granite structure. *Optional: wooden with leather box packaging.