

# GRANITE MASTER GAUGE

-  Granite Master Gauges come with new innovative design in structural quality, functionality, and accuracy, a total upgrade to satisfy your upmost demand.
- German DIN 876/00 inspection grade: 2+ (1+L/1000) um
- China special high grade natural “Jinahchin” black granite, formation from millions of years.
- Developed and designed in Taiwan, inspected and calibrated by Jingstone Calibration Center (JCC). All specifications in accordance to German TUV CERT DIN ISO9001, and ISO/IEC17025 standards
- Warranty under normal usage: product will never deform in shape. It is stable, non-corrosive, acid resistant, wear-and-tear resistant, and non-magnetic.
- Specific Gravity : 3000Kg/m<sup>3</sup>  
Compressive Strength : 245N/mm<sup>2</sup>  
Elastic Modular : 1.3N/mm<sup>2</sup>  
Linear Expansion Coefficient : 4.6\*10<sup>-6</sup>/C°  
Water Absorptivity : <0.13%  
Shore Hardness : >Hs70



# GRANITE MASTER GAUGE

## ■ Granite Surface Plate

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



### Granite Features:

Reliable, Stable, Resist to deform,  
Rust free, Anti-corrosive,  
Wear and tear resistant, Long life,  
Non-magnetic, Easy maintenance,  
Surface crash or split does not in  
affect measuring accuracy.



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



Stone cutting



Grinding and drilling



Precision hand polishing

Model No.	Specification (mm)	Accuracy (mm)	Weight (kg)
GN-3030	300x300x75	0.0026	21
GN-3045	300x450x75	0.0029	35
GN-4545	450x450x75	0.0029	48
GN-4560	450x600x100	0.0032	83
GN-6060	600x600x100	0.0032	112
GN-6090	600x900x130	0.0038	217
GN-75100	750x1000x150	0.0040	349
GN-90120	900x1200x150	0.0044	502
GN-100100	1000x1000x150	0.0040	465
GN-100150	1000x1500x200	0.0050	930
GN-100200	1000x2000x200	0.0060	1240
GN-150150	1500x1500x200	0.0050	1500
GN-150200	1500x2000x200	0.0060	1860
GN-150300	1500x3000x300	0.0080	4050
GN-200200	2000x2000x300	0.0060	3600
GN-200250	2000x2500x300	0.0070	4500
GN-200300	2000x3000x400	0.0080	7200
GN-300300	3000x3000x400	0.0080	10800
GN-300350	3000x3500x400	0.0090	12600
GN-300400	3000x4000x400	0.0100	14400

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

## ■ 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



Model No.	Specification (mm)	Accuracy (mm)	Weight (kg)
GN-160T	160x100x20	0.0020	0.4
GN-250T	250x160x30	0.0025	1.6
GN-300T	300x200x50	0.0030	4.6
GN-400T	400x250x50	0.0035	7.5
GN-630T	630x400x63	0.0045	20
GN-1000T	1000x630x80	0.0060	70

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

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



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



Model No.	Specification (mm)	Accuracy (mm)	Weight (kg)
GN-200F	200x200x25	0.0020	2.5
GN-250F	250x250x30	0.0025	4
GN-300F	300x300x40	0.0026	6.2
GN-400F	400x400x50	0.0030	15
GN-500F	500x500x60	0.0035	28
GN-600F	600x600x80	0.0050	70
GN-800F	800x800x100	0.0070	140
GN-1000F	1000x1000x125	0.0100	300

\*Above products with two-faces straightness, flatness , squareness, parallelism.

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



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-630S



GN-1000I2

Model No.	Specification(mm)	Accuracy (mm)	Weight
GN-400S2	400x63x40	0.0016	3.1kg
GN-630S2	630x100x63	0.0021	12kg
GN-1000S2	1000x160x80	0.0030	39kg
GN-1600S2	1600x200x100	0.0044	99kg
GN-2000S2	2000x300x100	0.0054	180kg
GN-400S4	400x63x40	0.0016	3.1kg
GN-630S4	630x100x63	0.0021	12kg
GN-1000S4	1000x160x80	0.0030	39kg
GN-1600S4	1600x200x100	0.0044	99kg
GN-2000S4	2000x300x100	0.0054	180kg

\*S2: Straight type of two-faces machining

\*S4: Straight type of four-faces machining

Model No.	Specification (mm)	Accuracy (mm)	Weight
GN-400I2	400x63x40	0.0016	2.6kg
GN-630I2	630x100x63	0.0021	8kg
GN-1000I2	1000x160x80	0.0030	29kg
GN-1600I2	1600x200x100	0.0044	72kg
GN-2000I2	2000x300x100	0.0054	120kg
GN-400I4	400x63x40	0.0016	2.6kg
GN-630I4	630x100x63	0.0021	8kg
GN-1000I4	1000x160x80	0.0030	29kg
GN-1600I4	1600x200x100	0.0044	72kg
GN-2000I4	2000x300x100	0.0054	120kg

\*I2: I type of two-faces machining

\*I4: I type of four-faces machining

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



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



Model No.	Specification (mm)	Accuracy (mm)	Weight (kg)
GN-160P	160x25x16	0.0015	0.4
GN-250P	250x40x25	0.0020	1.5
GN-400P	400x63x40	0.0040	6.2
GN-630P	630x100x63	0.0060	24

\*Standard: 2pcs/ set

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

## ■ 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 (mm)	Accuracy (mm)	Weight (kg)
GN-63V	63x63x63	0.0010	1.3
GN-100V	100x100x100	0.0020	5.8
GN-160V	160x160x100	0.0020	13
GN-250V	250x250x160	0.0025	40

\*Standard: 2pcs/ set

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

■ **Granite Measuring Stand**

Pair with dial indicators, digital indicators, level-type indicators, or comparators.

For direct measuring or indirect comparing height, depth, thickness, step, flatness, parallelism, roundness of workpieces, or as measuring reference of geometric element.

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

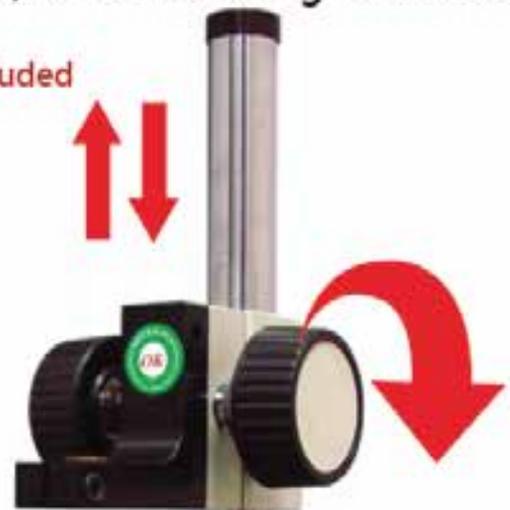
**Fine travel type**

Model No.	Specification (mm)
GN-MS2015F	200x150x40
GN-MS3020F	300x200x50
GN-MS4530F	450x300x50
GN-MS6045F	600x450x60



\*Main column: hardened chrome steel  $\Phi 25 \times L250\text{mm}$

\*Fine adjustment travel: 40mm (double-wheel)



GN-MS2015F



Small bore gauge  
internal measurement



■ **Granite Measuring Stand**

Pair with dial indicators, digital indicators, level-type indicators, or comparators.

For direct measuring or indirect comparing height, depth, thickness, step, flatness, parallelism, roundness of workpieces, or as measuring reference of geometric element.

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

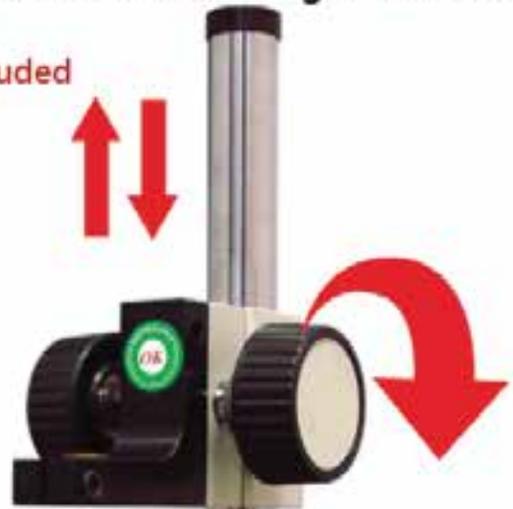
**Fine travel type**

Model No.	Specification (mm)
GN-MS2015F	200x150x40
GN-MS3020F	300x200x50
GN-MS4530F	450x300x50
GN-MS6045F	600x450x60



\*Main column: hardened chrome steel  $\Phi 25 \times L250\text{mm}$

\*Fine adjustment travel: 40mm (double-wheel)



GN-MS2015F



Small bore gauge  
internal measurement



■ **Granite Measuring Stand**

Pair with dial indicators, digital indicators, level-type indicators, or comparators.

For direct measuring or indirect comparing height, depth, thickness, step, flatness, parallelism, roundness of workpieces, or as measuring reference of geometric element.

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

**Arm type**

Model No.	Specification (mm)
GN-MS2015A	200x150x40
GN-MS3020A	300x200x50
GN-MS4530A	450x300x50
GN-MS6045A	600x450x60



GN-MS2015A

\*Main column: hardened-chrome steel  $\Phi 25 \times L250\text{mm}$

\*The length of vice rod is followed with the size of granite plate.



■ **Granite Measuring Stand**

Pair with dial indicators, digital indicators, level-type indicators, or comparators.

For direct measuring or indirect comparing height, depth, thickness, step, flatness, parallelism, roundness of workpieces, or as measuring reference of geometric element.

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

**Universal type**

Model No.	Spec. (mm)	Arm
GN-MS2015U	200x150x40	Mechanical universal type
GN-MS3020U	300x200x50	With fine-adjustment device
GN-MS4530U	450x300x50	
GN-MS6045U	600x450x60	

\*The specification of arm is followed with the size of granite plate.



GN-MS2015U



■ **Granite Measuring Stand**

Pair with dial indicators, digital indicators, level-type indicators, or comparators.

For direct measuring or indirect comparing height, depth, thickness, step, flatness, parallelism, roundness of workpieces, or as measuring reference of geometric element.

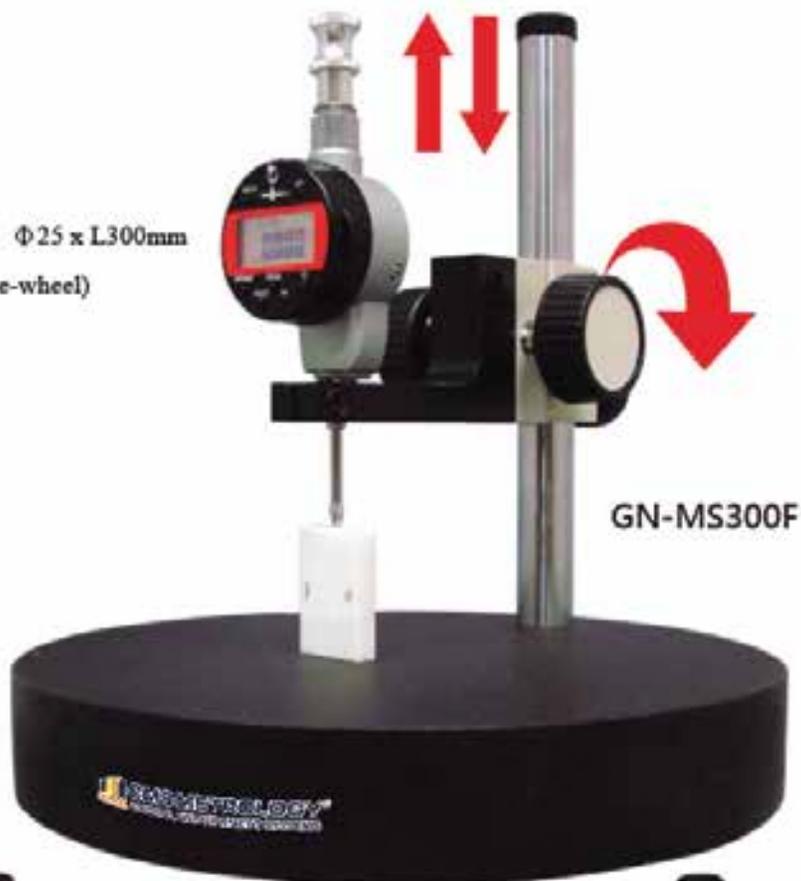
Grade : German DIN 876/00, JCC inspection report included

**Round base type**

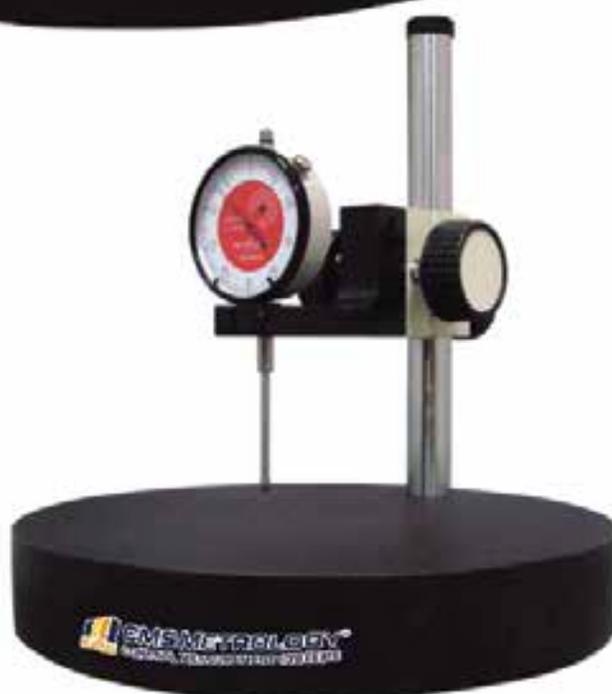
Model No.	Spec. (mm)
GN-MS300F	Φ300xT50

\*Main column: hardened chrome steel Φ25 x L300mm

\*Fine adjustment travel: 40mm (double-wheel)



GN-MS300F



■ Granite Measuring Stand

Pair with dial indicators, digital indicators, level-type indicators, or comparators.

For direct measuring or indirect comparing height, depth, thickness, step, flatness, parallelism, roundness of workpieces, or as measuring reference of geometric element.

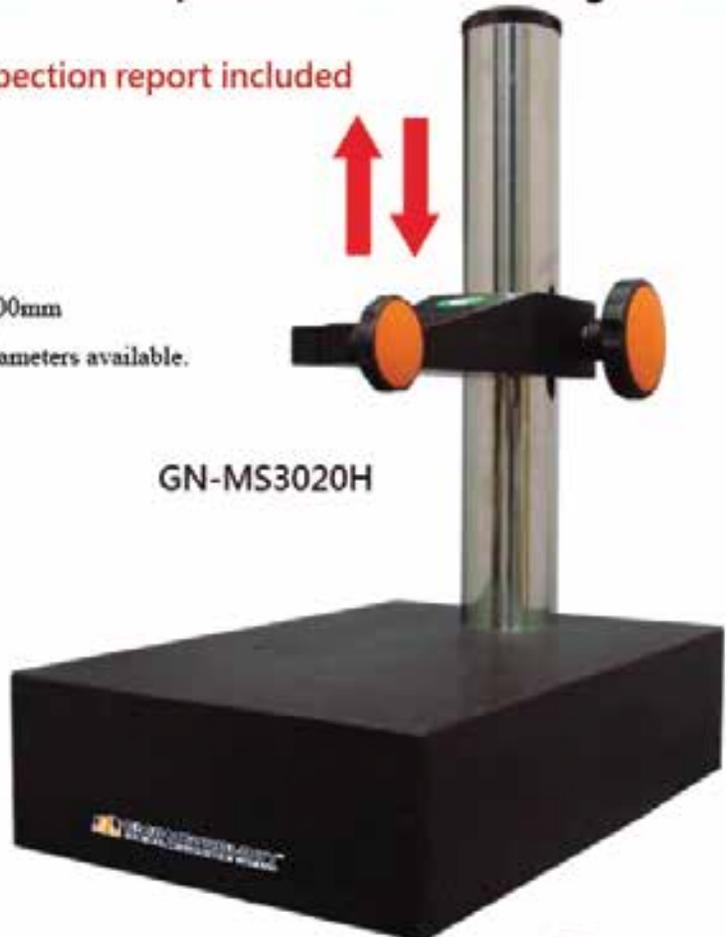
Grade : German DIN 876/00, JCC inspection report included

Heavy type

Model No.	Spec. (mm)
GN-MS3020H	300x200x75

\*Main column: hardened chrome steel  $\Phi 50 \times L300\text{mm}$

\*Standard holder hole  $\Phi 8\text{mm}$ , also custom hole diameters available.



## ■ Measuring Stand Extension Rod



Model No.	Spec. (mm)
GN-MS400E	Length : 400 Dia. : $\Phi$ 25
GN-MS600E	Length : 600 Dia. : $\Phi$ 25
GN-MS900E	Length : 900 Dia. : $\Phi$ 25

\*Material: Hardened chrome steel

## ■ Slide Guide Comparator

For measuring and inspecting straightness, parallelism, flatness, and other geometrics tolerance of machine tools slide table, linear slides, and mechanical assembly.



Model No.	Specification (LxWxH)	Material
GN-SC150	150x100x50mm M8-6g	Black Granite

The types and specs of universal arms and indicators are optional as per customer's requirements.

Grade: German DIN 876/00



■ Granite Surface Plate Cleaner

For cleaning, maintaining, lubricating granite plate surface.

CN-CL0.1



Model No.	Capacity
GN-CL0.1	100 ml
GN-CL1.0	1000 ml

CN-CL1.0



■ Steel Stands

Model No.	Specification L x W x H (mm)
GN-S3030	300x 300x700
GN-S3045	450x300x700
GN-S4545	450x450x700
GN-S4560	600x450x700
GN-S6060	600x600x700
GN-S6090	900x600x700
GN-S75100	1000x750x600
GN-S90120	1200x900x600
GN-S100100	1000x1000x600
GN-S100150	1500x1000x600
GN-S100200	2000x1000x500
GN-S150150	1500x1500x500
GN-S150200	2000x1500x500
GN-S150300	3000x1500x400
GN-S200200	2000x2000x400
GN-S200250	2500x2000x400

\*Providing specific type and specification as requirement

- L type painted steel plate with leveling bolt, height adjustable 50-75mm.
- Total height: 750-850mm (Including granite plate).

Production method diagram

