



BIG
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AHB

TOOLING & MACHINERY

COMPLETE METALWORKING SOLUTIONS

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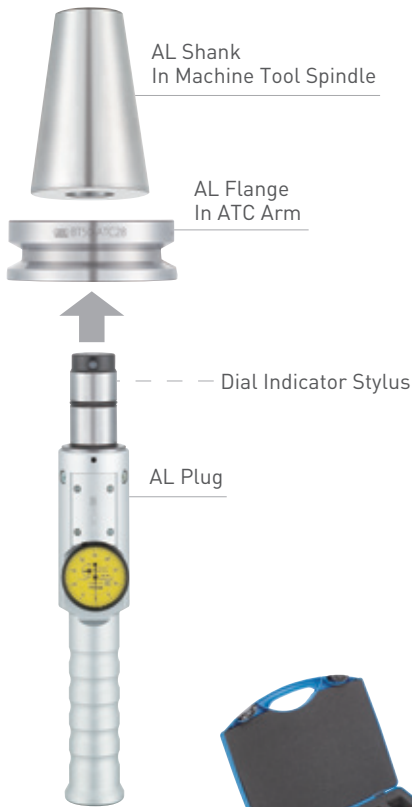
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**MEASURING
INSTRUMENTS**

Designed to Make Your Job Easier



ATC ALIGNMENT TOOL

Misalignment of the center between the machine tool spindle and ATC gripper may cause damage to the spindle taper when a tool holder is loaded into the spindle. A clamped tool holder under misalignment leads to increased runout, resulting in shorter life of machine tools and tool holders, as well as cutting tools. The ATC Alignment Tool can also be used for re-aligning the ATC gripper and tool magazine pots. Overall cost reduction is achieved by using equipment in good condition.

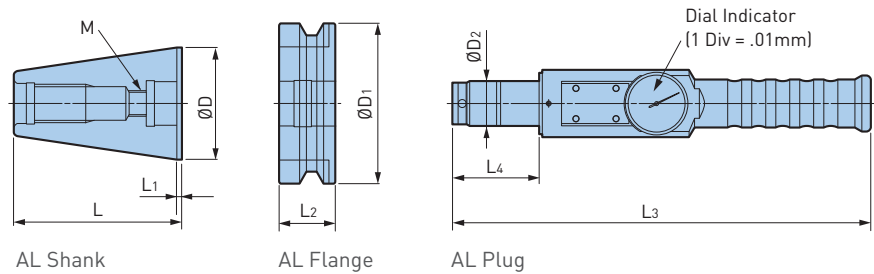
How To Use

1. Load the AL Shank in the machine spindle and mount the AL Flange on the ATC arm.
2. Insert the AL Plug into the AL Flange.
3. Rotate the AL Plug and read the highest and lowest values of the dial indicator. This direction is the eccentric direction. Half of the gap of the values is the eccentric amount.
4. Adjust the position of the ATC arm so that the front end of the AL Plug will be inserted into the AL Flange fully.



Provided with ATC Alignment Tool & Plastic Storage Case

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CV TAPER

Catalog Number	ØD	D1	D2	L	L1	L2	L3	L4	M
CV40-ATC20	1.75	2.500	.787	2.812	.123	.958	9.882	1.732	1/2"-13
CV50-ATC28	2.75	3.875	1.102	4.125	.123	1.301	10.276	2.126	5/8"-11

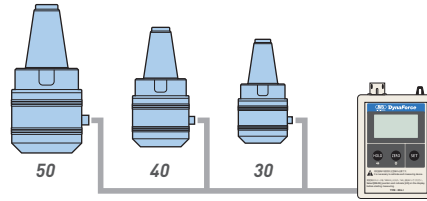
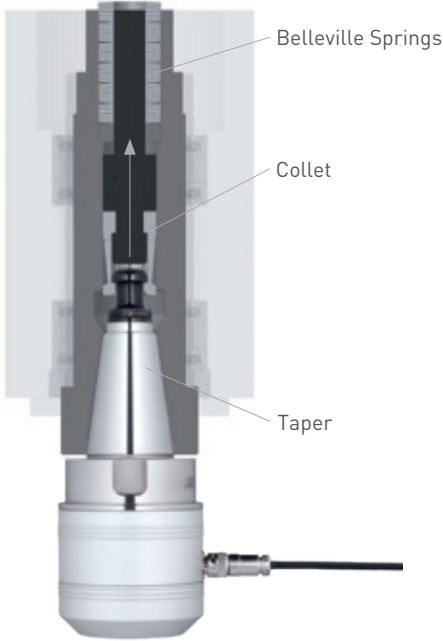
• DIN 7/24 taper spindle models available

BT TAPER

Catalog Number	ØD	D1	D2	L	L1	L2	L3	L4	M
BT30-ATC18	31.75mm	46mm	18mm	50.4mm	2mm	20mm	251mm	44mm	12mm
BT40-ATC20	44.45mm	63mm	20mm	67.4mm	2mm	25mm	251mm	44mm	12mm
BT50-ATC28	69.85mm	100mm	28mm	104.8mm	3mm	35mm	261mm	54mm	16mm

DYNA FORCE

Machine tool maintenance is a necessity. Periodical measurement of the spindle retention force avoids unknown reduced rigidity, which leads to vibrations, loss of machining quality and shortened tool life. A full length taper stabilizes the value of measurements.



Only One Display for All Taper Sizes

One common display can be used for all taper sizes.

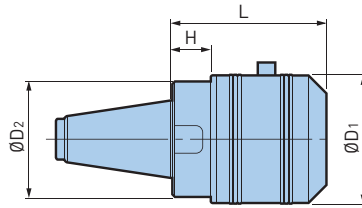


Fig. 1

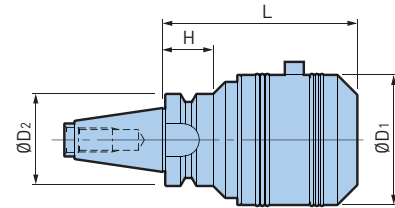


Fig. 2

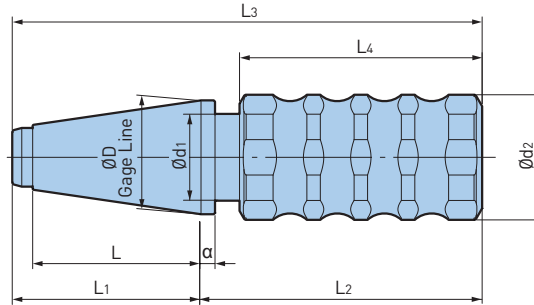
Catalog Number	Contents of Set				Taper No.	Rated Capacity	ØD1	ØD2	L	H	Weight (lbs.)
	Measuring Device	Fig.	Display	Cable							
SNT30-DF10	NT30-DF10	1	DFA-1 (AA battery x2)	DFC-1 (2m)	30	10 kN (980 kgf)	2.559	2.283	3.150	.787	3.3
SBT30-DF10	BT30-DF10	2						1.811	2.858	1.024	3.5
SNT40-DF30	NT40-DF30	1			40	30 kN (2,940 kgf)	2.874	2.958	3.543	.945	5.5
SNT50-DF50	NT50-DF50	1			50	50 kN (4,900 kgf)	3.780	3.543	4.331	1.299	13.2
SNT50-DF30●	NT50-DF30	1									

- Each component is also available separately
- **SBT30-DF10** is designed exclusively for machines not capable of automatic tool change
- **SBT30-DF10** is suitable for BT/BBT30 machines only
- **SNT50-DF30** marked ● indicates light-weight model
- Certificate of calibration and diagram of traceability system are available for a charge in order to maintain the reliability of the device

DYNA CONTACT

A ceramic taper gage allowing inspection of machine spindle tapers at a glance.

- Made of ceramic
- Clearly shows Prussian blue



Taper Angle: 8° 17' 50" ±1"

Provided with an Aluminum Case



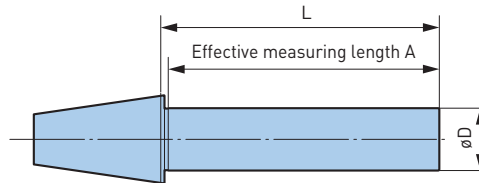
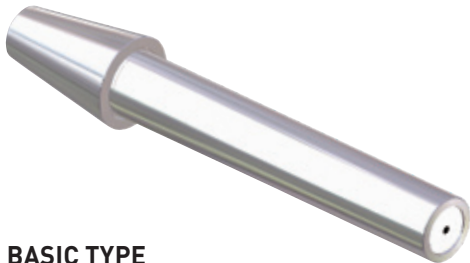
Catalog Number	Taper Number	ØD	Ød1	Ød2	L	L1	L2	L3	L4	α	Weight (lbs.)
DC-30P	30	1.250	.91	1.42	1.906	2.22	4.2	6.4	3.69	.236	1.14
DC-40P	40	1.750	1.34	1.93	2.575	2.89	4.4	7.2	3.74	.236	2.64
DC-50P	50	2.750	1.93	1.93	4.008	4.40	4.5	8.9	3.74	.315	5.76

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- It can be used for BBT (BT=JISB6339), BDV (DV=DIN69871) and BCV (CV = ANSI)

DYNA TEST

Regular inspections using a DYNA TEST bar can help identify potential issues with spindles and bearings, reducing downtime and costly repairs. The precise test bar is designed to test the spindle's runout, check the parallelism of z-axis movement and can also be used as a setting gage for tool presetters.



BASIC TYPE

Catalog Number	L	A	ØD
NT30-32-L150	5.906	5.591	1.260
NT30-32-L225	8.858	8.543	
NT40-50-L200	7.874	7.244	1.970
NT40-50-L335	13.189	12.559	
NT50-50-L200	7.874	7.520	1.970
NT50-50-L335	13.189	12.835	

- JIS taper length with metric pullstud bolt thread

LEVEL MASTER

Two-axis simultaneous detection leveler. LED displays level conditions for both axis simultaneously. LED and buzzer indicate when leveling is completed.



STANDARD TYPE



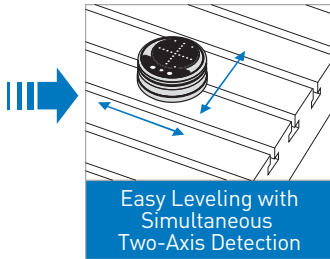
Catalog Number
LVM-01

WIRELESS TYPE



Catalog Number
LVM-WL

Simultaneous 2-Axis Detection Saves The Extra Time & Cost Of Using Two Levelers



LED and Buzzer Indicate Leveling Completion

HIGH MODE

When the required level condition is **within .01mm/m**

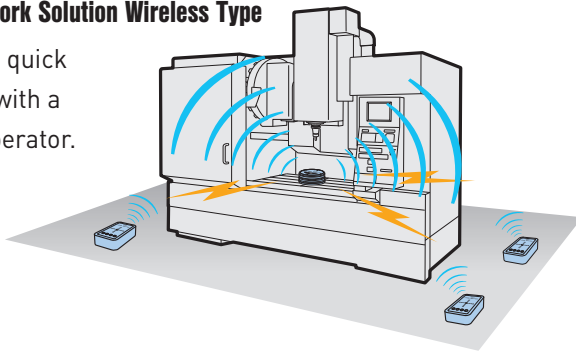
LOW MODE

When the required level condition is **within .1mm/m**

LED (Blue) & Buzzer are Simultaneously Activated

Remote Work Solution Wireless Type

Easy and quick leveling with a single operator.



Provided with LEVEL MASTER, Aluminum Storage Case, Alkaline Batteries (AAA x 4 pcs.), Manual & Inspection Sheet



	LVM-01	LVM-WL	
		Body	Receiver
Minimum Read Value	.01mm Inclination/m	.01mm Inclination/m	
Power Source	Alkaline batteries (AAA x 4 pcs.)	Alkaline batteries (AAA x 4 pcs.)	
Auto Power Off	30 minutes after power is turned on	30 minutes after power is turned on	
Operational Temperature	32-104° F (Recommended 66° F ±9°)	32-104° F (Recommended 66° F ±9°)	
Battery Life	50 hours	50 hours	
Dimensions	Ø4.3" x 2.2" H	Ø4.3" x 1.7" H	Ø5.5" H x 3.2" W x 1.7" D
Weight	2.2 lbs.	2.2 lbs.	.62 lbs.

- Batteries must be ordered separately
- In the case of high precision leveling, we recommend that you check the LEVEL MASTER in advance on a reference level, such as a level block

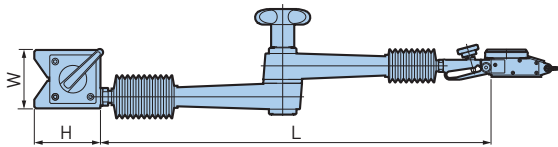


DIAL INDICATOR STANDS

Articulated stands for the demanding user, offering the highest positioning precision and exact measurements in the μm range.

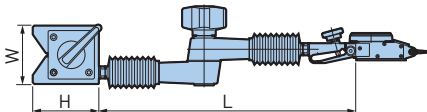
- High clamping force thanks to a strong internal cam structure of steel components
- 360° freedom of positioning controlled by one progressive clamping star grip
- Ideal design for use in measurement, inspection (quality control) and machining
- Ultra strong magnet holds stand firmly in place
- Each stand is equipped standard with (1) magnet, (2) extension arms, (1) DGH dove-tail adapter and (1) cylindrical gage adapter ($\varnothing.375"$)

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TYPE MU/F

Catalog Number	Adapter	Arm Extension Capacity L (From Magnet Top)	Magnet Dimensions W x H x D	Load Capacity Approx.
20.510.102	DGH2	13.937 (354mm)	2.087 x 2.362 x 2.677 (53mm x 60mm x 68mm)	200 lbs (90 kg)
20.510.103	DGH3			
20.510.104	DGH4			

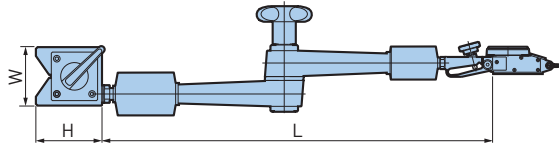


TYPE SU/F

Catalog Number	Adapter	Arm Extension Capacity L (From Magnet Top)	Magnet Dimensions W x H x D	Load Capacity Approx.
20.520.102	DGH2	9.173 (233mm)	2.087 x 2.362 x 1.417 (53mm x 60mm x 36mm)	110 lbs (50 kg)
20.520.103	DGH3			
20.520.104	DGH4			

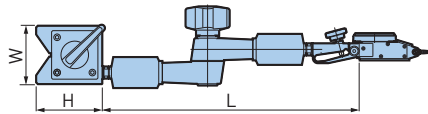
DIAL INDICATOR STANDS HEAVY DUTY

Small and strong for highest quality standards



TYPE MUVZ/F

Catalog Number	Adapter	Arm Extension Capacity L (From Magnet Top)	Magnet Dimensions W x H x D	Load Capacity Approx.
20.510.203	DGH3	13.937 (354mm)	2.087 x 2.362 x 2.677 (53mm x 60mm x 68mm)	220 lbs (100 kgs)
20.510.204	DGH4			



TYPE SUVZ/F

Catalog Number	Adapter	Arm Extension Capacity L (From Magnet Top)	Magnet Dimensions W x H x D	Load Capacity Approx.
20.520.213	DGH3	9.173 (223 mm)	2.087 x 2.362 x 2.677 (53mm x 60mm x 68mm)	220 lbs (100 kgs)
20.520.214	DGH4			

ARTICULATED ARMS

Maximum clamping force at highest agility and indestructible construction for daily use

The three-dimensional articulated arm can easily be attached to machines or other devices via a thread (M6/M8/M10).

Cameras, sensors, readers and much more can be held and quickly positioned. Our articulated arms are available with progressive or synchronous tightening, consult BIG DAISHOWA engineering for information and technical specification.



For applications with heavy loads or vibrations, all articulated arms can be equipped with central toothed disks. This form-fitting connection makes any radial displacement of the central joint impossible.

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BIG DAISHOWA

CRAFTED FOR PERFORMANCE.

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THAT'S BIG

HIGHER PERFORMANCE. GUARANTEED.

Tool Holders | Boring Tools | Cutting Tools | Workholding | Tool Measuring

