



**ABE** Accurate Balancing Equipments

**Dynamic Balancing Machine**

Perfection In Balancing



[www.accuratebalancing.com](http://www.accuratebalancing.com)

# Company Profile

**ACCURATE BALANCING EQUIPMENTS** is the leaders, providing In House Dynamic Balancing, Vibration Consultancy, On-site Balancing, Laser Shaft Alignment Services for numerous Clients from almost all Sectors, both in India and abroad. We have installed world renowned Dynamic Balancing Machines of various Models to meet varied needs of the Customers.

By virtue of being in the field for the past three decades, and having understood the pulse of the Customers' requirements in this duration, we have also met their requirements by manufacturing and supplying Dynamic Balancing Machines for their applications, as well as Vibration Monitoring Systems.

Our Manufacturing facilities are located in Mumbai and Delhi. We have so far supplied around 500 plus Machines of varied capacity for quality conscious Customers. As of now, we have manufactured Machines having capacity up to 30 tons. We have capacity to manufacture Dynamic Balancing Machines up to 100 tons. The quality and performance of our Balancing Machines are very well comparable with the world best known brands.

Our range comprises of Machines with suitable Instrumentation Module:

- Belt Drive Balancing Machines
- Universal Joint Balancing Machines
- Vertical Balancing Machines
- Cross Flow Fan Blade Balancing Machines
- Drive Shaft Balancing Machines
- Auto positioning Balancing Machines
- Self-Drive Balancing Machines
- 2 plane Axial Flow Balancing Machines
- Soft Bearing Balancing Machines
- Special purpose Balancing Machines

Our Balancing Machines are supplied with the required Instrumentation, namely: BASE (Balancing Assisted Software for Engineers), wherein BASE controller is fully digital and microprocessor based with CRT display, having built in ISO Calculator. MABI (Microprocessor Assisted Balancing Instrumentation), comprising of Fully digital microprocessor controller, total solid-state signal conditioning, for achieving high accuracy and stability.



# End Drive Balancing Machine

These types of machines are ideally suited for jobs with high inertia and where high power is consumed due to air resistance etc. The weight of rotors which can be balanced is limited by acceleration capacity of drive unit and speeds available on the balancing machine. Gap bed machines are available for bigger diameter jobs. This type of machines is also used for high speed applications due to safety factor etc.



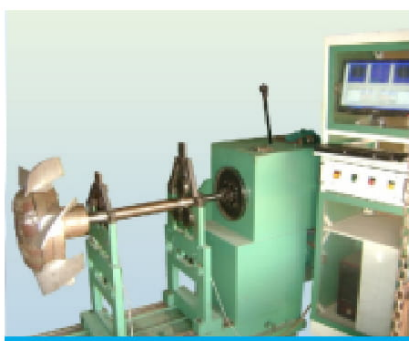
5000 Kg Machine for Motor Rotors



3000 Kg Machine



10000 Kg Machine for Paper Rolls



300 Kg Machine for Overhang Fans



1000 Kg Gap Bed Machine



3000 Kg Machine for Blowers

## Technical Data

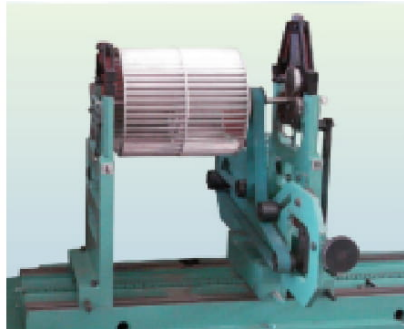
Machine Model	H 50	H 100	H 300	H 650	H 1K	H 3K	H 5K	H 10K	H 16K	H 30K
Weight Capacity KG	50	100	300	650	1000	3000	5000	10000	16000	30000
Max Dia of Rotor	500	1000	1150	1350	1600	2100	2500	3000	3500	4000
Std. Bed Length – S	800	1200	1500	1500	1500	2000	2500	3000	4500	4000
Std. Bed Length – M	1200	1500	2000	2000	2000	2500	3000	4500	6000	6000
Std. Bed Length – L	2000	2000	2500	2500	2500	3500	4500	6000	7500	7500
Journal Dia Range(mm)	8-50	10-80	12-100	15-120	15-120	25-180	25-250	40-250	70-350	70-350

# Belt Drive Balancing Machine

Belt drives are used for balancing of rotors where high accuracy is desired and errors due to the drive unit cannot be tolerated and which eliminates the need of adaptors. However, it is ideally suited for cylindrical rotors where it easy to run the belt as in case of armatures/printing rolls etc. This type of drive also reduces loading/unloading time etc. With AC frequency drive available now, infinitely variable balancing speeds are possible with type of drive.



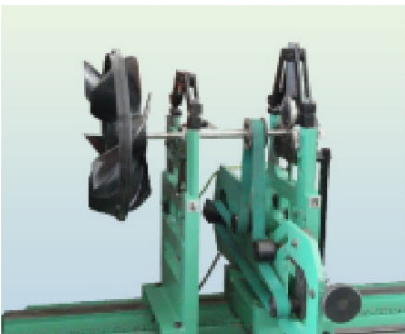
50 Kg Machine for Submersible Pump Rotors



100 Kg Machine for Blowers



5 Kg Machine for Armature



100 Kg Machine for Fans



Belt Drive Arrangement



20 Kg Machine for AC Split Blowers

## Technical Data

Machine Model	HB 5	HB 10	HB 20	HB 50	HB 100	HB 300	HB 650	HB 1K	HB 3K	HB 5K
Weight Capacity KG	5	10	20	50	100	300	650	1000	3000	5000
Max Dia of Rotor	180	250	500	700	900	1150	1350	1500	2100	2500
Std. Bed Length – S	300	500	500	800	1100	1500	1500	1500	2000	2500
Std. Bed Length – M	500	1000	800	1000	1200	1500	2000	2000	2500	3000
Std. Bed Length – L		1500	1500	2000	2000	2500	2500	2500	3500	4500
Journal Dia Range(mm)	3-20	5-25	8-50	10-80	12-80	15-120	15-120	15-120	25-180	25-180

# Vertical Balancing Machine

These types of machines are ideally suited for mass production of disc shaped rotors like fan blades, impellers, pulleys, clutch plates etc. The correction unit like drilling/milling unit etc can be mounted on the machine and are supplied as an option. Easy and quick top loading as the rotor to be balanced is simply placed on the machine. The clamping is easy and accurate. Safety hood can be easily mounted on the machine. The operation of the machine is simple. The angular disc provided on the machine spindle helps you to easily locate the unbalance angle. Electronic remount error compensation is possible to reduce the fitting errors etc



1 Kg Machine for Fans



50 Kg Machine for Clutch Cover Assys



10 Kg Machine with Drill Unit



100 Kg Machine for Brake Drums



70 Kg Machine with Drill Unit



3 Kg Machine for Fans

## Technical Data

Single Plane Machine	V1	V3	V10	V30	V50	V100	V300
Two Plane Machine	VT 1	VT 3	VT 10	VT 30	VT 50	VT 100	VT 300
Weight Capacity	1	3	10	30	50	100	300
Table Size – S	350	350	350	450	450	450	450
Table Size – M	400	400	400	500	500	500	500
Table Size – L	500	500	500	600	600	600	600



# Special Balancing Machine

- Soft bearing
- Simple to operate
- No confusing controls
- Fully solid state
- True plane separation
- Stroboscopic



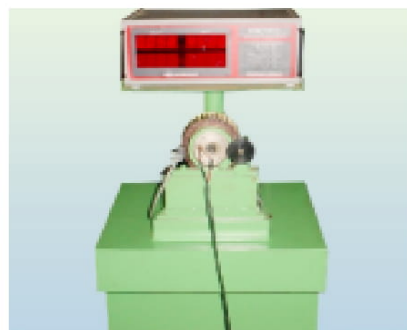
MODEL -	HBS 5
TYPE -	SOFT BEARING, BELT DRIVE
DISPLAY -	DIGITAL / ANALOG
MAX DIA -	120 MM
MAX DISTANCE -	300 MM
SHAFT DIA -	5 - 15
BAL SPEED -	1000 - 1200
SENSITIVITY -	0.2 - 2
MAIN SUPPLY -	230V, 50HZ, SINGLE PHASE

This machine is suitable for small armatures, small turbochargers, mixer grinder armatures etc weight 100 Grams to 5 KG

**Self-Drives:** This type of drive is used for balancing of rotors in its own drives like motor with fan/complete radiator fan assembly etc. This has got a advantage as the component is balanced at its operating speed and in its actual operating conditions. You also achieve better balancing accuracy with this type of drive provided your rotor is running smoothly in its assembled condition. Sometimes the manufacturers also demand for balancing the components to be balanced in actual operating conditions



Radiator Fan Assembly Balancing Machine



Blower Assembly Balancing Machine

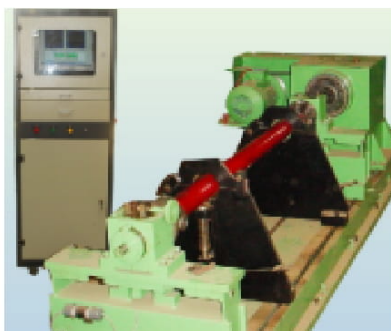


Table Top Cooling Fan Balancing Machine

**High Speed Balancing Machines:** This type of machines are used for balancing and over speed testing of flexible and rigid rotors etc. The rotor is first checked at slow speed and thereafter run at high speed .



High Speed Balancing Machine for Universal Shafts



High Speed Balancing Machine for Propeller Shafts



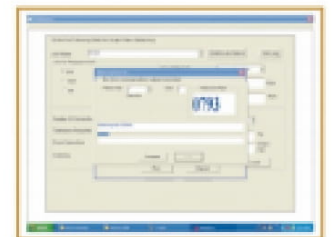
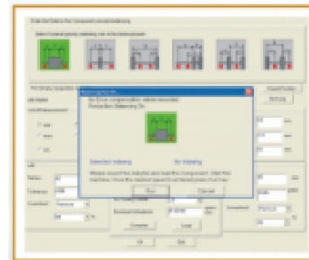
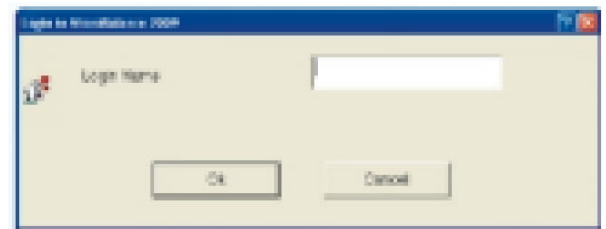
High Speed Balancing Machine for Drive Shafts

# Balancing Machine Instrumentation

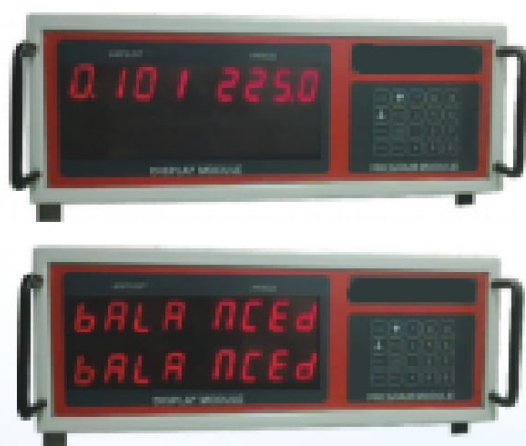
## BASE (Balancing Assisted Software for Engineers)

### Basic features:

- The BASE controller is fully digital and microprocessor based with CRT display, it has a built in ISO Calculator.
- Display is available in Polar, Vector or Cartesian formats.
- Software facilities include auto tolerance Calculation, system diagnostics through error messages.
- Balancing results print out can be taken at any stage of balancing.
- It is possible to select any geometrical configuration and feed data through the keyboard, in and out of tolerance indication, job history and job data storage of more than 1000 jobs
- BASE is high-end dynamic balancing software designed with the operator in mind and service at site.
- This software is designed for Windows 7, and fully compliant with Windows XP etc



**BASE**



**MABI**

## MABI (Microprocessor Assisted Balancing Instrumentation)

### Basic features:

- Fully digital microprocessor controller
- Total solid-state signal conditioning
- High accuracy & stability only achievable with digital control
- Direct data input from front panel tactile Key pad with touch sensitive switches
- High Readability Illuminated 7 segment LED displays
- Real Time & bit data capture of system force & phase signals
- External serial port for printer interface
- Flexible tolerance level selection
- System diagnostics for ease of servicing
- Easy Calibration

## OUR PRESENCE



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## ● Our Representatives :

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