FIE GROUP

Over 60 years of consistent excellence

Auto Correction Vertical Balancing Machine

With Touch Screen Based Measuring Panel

Hard Bearing Models : Balance Tech VAC

Auto Correction

Auto Stop

Front Panel Touch Screen Display

Simultaneous Indicators

Auto Correction Vertical Balancing Machine

With Touch Screen Based Measuring Panel
Hard Bearing Models : BALANCE TECH VAC

Technical Description

Machine Model Balance Tech VAC are vertical type single plane hard bearing balancing machine provided with -

- DSP based measuring panel
- Servo Drill head for correction
- Ideal for disc shaped rotors such as clutch plates, flywheels, fan blades, Magnetos, Grinding wheels, impellers etc.

Operation Cycle -

The working cycle is fully automatic with unbalance indication while rotor running and after stopping the balancing cycle it precisely rotates to its correction position, further Vertical drill head cycle starts for correction and asks for following parameters -

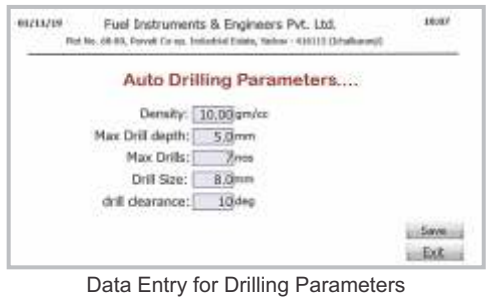
- Material Density
- Drill Size
- Maximum drill depth
- Allowed no. of holes
- Center distance between two hole.

Standard Features of control panel

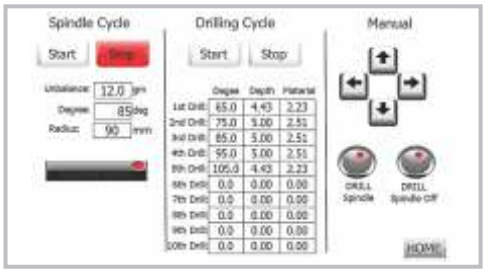
- DSP controller based processing
- Digital display for unbalance indication
- Digital display for RPM Indication
- Auto –Stop
- Simultaneous indication
- On screen keyboard
- Tolerance indicators
- Data Storage

Home Screen

New File Creation



Data Entry for Drilling Parameters



Operation Cycle

Final Results

Technical Specifications

MODELS	UNIT	Balance Tech VAC-10	Balance Tech VAC-30	Balance Tech VAC-50	Balance Tech VAC-100	Balance Tech VAC-300
Weight of Rotors	kg	0.5-10	1-30	1.5-50	3-100	10-300
Max. Diameter of Rotor	mm	400	500	500	600	700
*Balancing Speed (n)	RPM	1000	750	600	500	350
Power of Drive Motor	HP	0.75	1.5	1.5	3	7.5
Acceleration Capability ($Gd^2 N^2$)	kgm^2n^2	$0.37x10^6$	$0.88x10^6$	$0.88x10^6$	$3.9x10^6$	$14.12x10^6$
Min. Unbalance Mass Measured	g	0.1	0.1	0.1	0.1	1
Max. Unbalance Mass Measured	kg	4	4	4	4	4
Unbalance Reduction Ratio	%	95	95	95	95	95
Min. Achievable Unbalance per Rotor wt. (For max. Rotor wt.)	Microns or gmm/kg.	5	5	5	5	5

- The balancing speed depends upon selection of the rotor diameter, where drive is to be given and the motor pulley diameter.
- All the machines above operate on mains supply of 400 to 440 V, 3Ø, 50 Hz.
- Due to constant R&D, specifications and features are subject to change without notice. The dimensions given above are approximate.

* PC & Printer is not in our standard scope of supply.

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