Hofmann.
Intelligent Balancing Solutions

Balancing Machine for Ventilators, Blowers and Fans

VVK41E-AM1 / VVK41E-AM2

Applications

- Vertical balancing of big ventilators, blowers and fans. Rotors can be in axial or radial design.
- Balancing of rotors with self-propulsion or external drive.
- Complete test procedures (electricity, speed and unbalance) can be freely programmed.
- Mono or tandem machine design. The tandem machine works with overturning stroke, what results in an extremely short cycle time.
- Free programming of correction. Positive compensation by setting of clamps or negative compensation by scraping.

Description

- Vertical hard-bearing balancing machine for measuring and correcting unbalance in one or two planes with semi-automatic operation.
- Self-propelled fans will be clamped force fitting in an individual work-piece adapter.
- Rotors with external drive are clamped force fitting by a clamping mandrel and driven by a spindle with asynchronous motor.
- State-of-the-art measuring technique
  - controls the drive
  - controls the process
  - determines the unbalance
  - calculates the compensation parameters
  - supports the operator during correction of the rotor
- Statistics software for evaluation of production data or connection to a higher-level computer.

Advantages

- Easy operation.
- Compact design for minimum floor space requirement.
- User menu with direct display of unbalance correction on the monitor.
- Permanent calibration setting.
- High balance accuracy.
- Adaptor for easy and fast retooling.
- Large access opening for simple loading and unloading.
- Balancing in one or two planes.
- Crossbar scanning for simplified positioning during compensation.

Placement of a 700 mm axial blower

VVK41E-AM1 with swivable safety shroud

Technical data

		VVK41E-AM1	VVK41E-AM2
Rotor:			
Weight	kg	1 - 40	1 - 40
Diameter, max.[1)]	mm	850	850
Height with adaptor, max.[1)]	mm	460	460
Machine:			
Width x Depth x Height	mm	1900 x 1200 x 1700	2200 x 1500 x 1800
Measuring speed	rpm	600 - 2500	600 - 2500
Display sensitivity	gmm	< 0.2	< 0.2
Unbalance reduction ratio	%	> 95	> 95

1) Other dimensions on request

Options

- Power supply controlled by measuring unit
- Integration of customer controllers
- Lifting device as a loading aid for heavy workpieces
- Easy changeover of crossbar scanning device due to display of position
- Test rotor with calibration weights
- Report printer
- Statistics software

Scope of supply

- Rigid machine housing
- Sliding protection class C as per ISO 7475
- Sliding protection integrated scanning device
- Machine control
- Measuring unit with keyboard and monitor
- Balancing software with various balancing algorithms

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