



VM9 BA

ELECTRONIC UNIT FOR DYNAMIC GRINDING WHEEL BALANCING

Features:

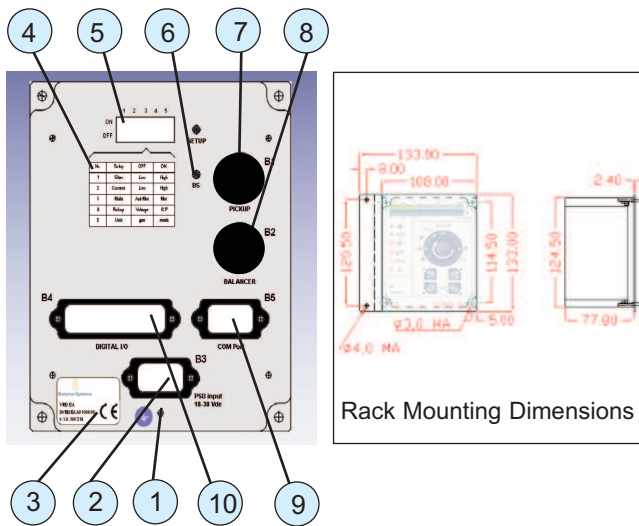
- » Handling of electromechanical balancers with brush collector.
- » Models with manual and automatic/semi-automatic balancing procedures.
- » Compact size.
- » Bench and rack mountable versions.
- » Bar graph measuring scale: 0-100 μm or 0-20 mm/s.
- » Mass neutral position.
- » Digital I/O interface to CNC/PLC compatible with different manufacturers' balancing units.
- » Application customization by the user through the setup of dip switches for:
 - measurement unit (μm or mm/s);
 - filter on unbalance signal;
 - pickup supply voltage;
 - automatic or semi-automatic operating mode.
- » The operator panel provided with sensitive waterproof sandwich keyboard allows setting:
 - min. and max. tolerance;
 - max. vibration;
 - pickup sensitivity;
 - balancing cycle optimization.
- » Memory and LED's test performed at start-up.



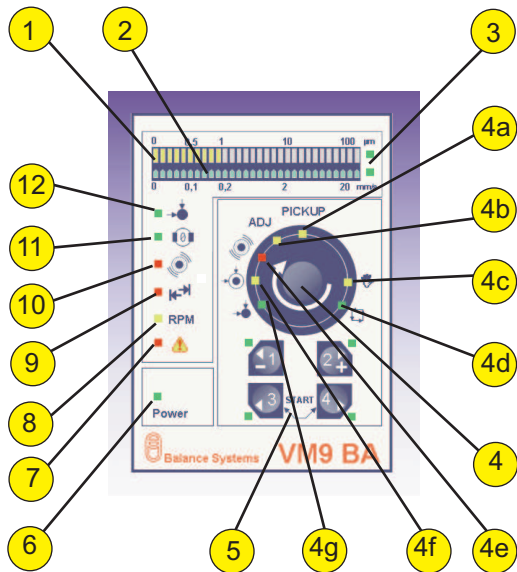
Advantages:

- » Improves part finish
- » Reduces scrap and rework
- » Extends spindle, wheel & diamond life
- » Improves machine stability and efficiency
- » Enhances productivity
- » Reduces machine downtime
- » Compatible
- » Easy to install and to use
- » Affordable





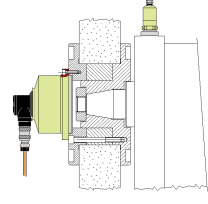
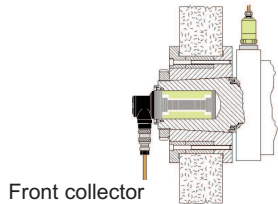
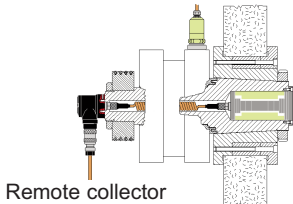
- 1) Ground terminal (M4x10)
- 2) Power Supply input connector
- 3) Labels:
Power supply features: 18-30 VDC; 20 W
Compliance features: CE
- 4) Setup parameters legend
- 5) Setup dip switches:
Filter: low, high
Max. current: low, high
Operative mode: automatic, semi-automatic
Pickup: voltage, ICP
Unbalance measurement unit: μm , mm/s
- 6) Reset button to factory preset parameters
- 7) Pickup input connector
- 8) Balancing head collector connector
- 9) RS232 connector for Service
- 10) 25-pole connector for machine DIGITAL I/O
Opto-insulated, sink or source type, 24V externally energized



- 1) Bar graph
- 2) Tolerance limits indicators
- 3) Unbalance scale selection indicators: μm or mm/s
- 4) Selection button:
- 4a) Pickup sensitivity
- 4b) Balancing cycle optimization
- 4c) Manual balancing procedure
- 4d) Automatic / semi-automatic balancing procedure
- 4e) Max. allowed unbalance
- 4f) Max. unbalance tolerance
- 4g) Min. unbalance tolerance
- 5) Adjustment buttons
- 6) Main power supply indicator
- 7) Warning indicator
- 8) Running spindle indicator
- 9) Mass collision indicator
- 10) Max. allowed unbalance indicator
- 11) Mass neutral position indicator
- 12) In tolerance indicator

Balancers Built-in Spindle Mounting

Balancers External Flange Mounting



Mounting diameter \varnothing (mm)	Bore length (mm)		Compensation gcm
	Flange lock	Expansion lock	
38	109	130	260
42	109	130	480
50	109	130	780
55	109	130	1050
60	109	130	1800
70	109	130	2800
up to 110	8700

Mounting diameter \varnothing (mm)	Compensation gcm
95	220
95	400
95	800
95	1350
95	1700
114	3300
114	4300
114	6500
130	12000

Customized solutions with different dimensions are available on request

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