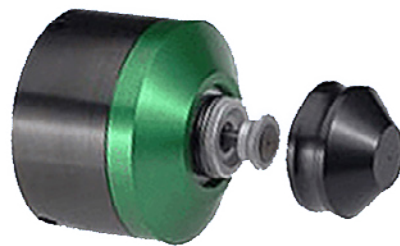
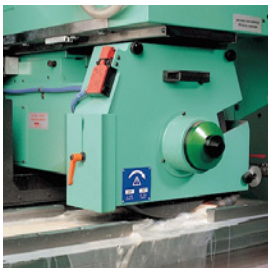
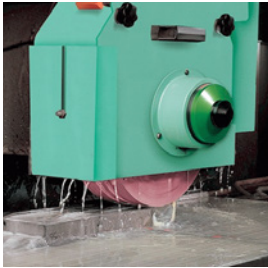


VM4

AMPLIFIER FOR VIBRATION MONITORING
AND MANUAL GRINDING WHEEL BALANCING



The VM4 amplifier allows to monitor the unbalance and, combined with a GTM balancing head with a manual mechanical command, to follow its evolution during the balancing operation.

This solution is recommended for applications on surface grinders and on simple universal grinders. The amplifier can be moved to be used on more than one machine in the same workshop.

Features

- Compact, ergonomic and portable
- Analog display of the vibration level
- Display of the optimized level of vibration

Benefits

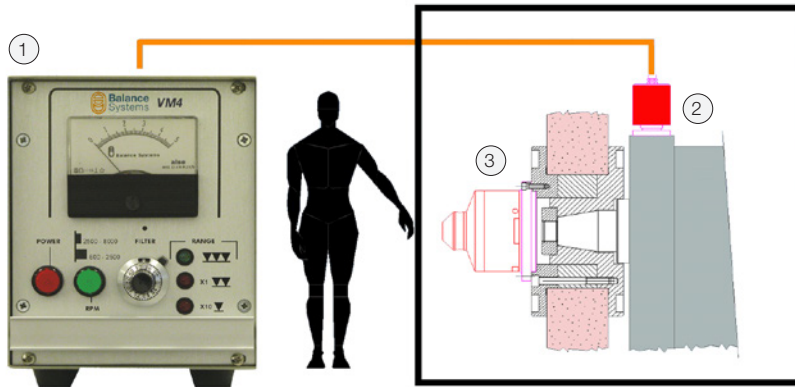
- Contributes in optimizing quality of the surface finishing
- Constantly monitors vibrations of the spindle
- Extends spindle and grinding wheel lifespan

Mode of operation

Once the vibration transducer has been placed (2) on the spindle housing in the grinding direction, the user can tune the amplifier (1) on the same rotation speed of the spindle.

The value of the unbalance vibration is indicated by the analog display on the amplifier. Led lights, according to their color (red: balancing required; yellow: acceptable level; green: optimized level) indicate the status of the unbalance.

The user operates manually and directly on mechanical commands of the balancing head (3) up to reach a complete balancing for the spindle. At this point, the amplifier and the vibration detector can be used on another machine in the workshop.



Configuration

- ① VM4 analog control unit
- ② Vibration transducer with magnetic fitting
- ③ "GTM" balancing head with manual mechanical command. External mounting on the spindle through a flange

GTM balancers – Technical data

Type	Capacity [gcm]	Rotation direction	Diameter [mm]
GTM080A095	800	Clockwise	95
GTM080B095	800	Counter-clockwise	95
GTM135A095	1350	Clockwise	95
GTM135B095	1350	Counter-clockwise	95
GTM150A114	1500	Clockwise	114
GTM150B114	1500	Counter-clockwise	114
GTM300A114	3000	Clockwise	114
GTM300B114	3000	Counter-clockwise	114
GTM300A130	3000	Clockwise	130
GTM300B130	3000	Counter-clockwise	130
GTM500A130	5000	Clockwise	130
GTM500B130	5000	Counter-clockwise	130

VM4 – Technical data

Power source	110-220 Vac – 50/60 Hz – Max 10W
Rotation speed range	Adjustable manual filter with double range: 600 .. 2500 rpm 2500 8000 rpm
Unbalance measuring unit (displacement)	µm
Resolution of measure	0.1 µm
Range of measure	0 .. 50 µm
Balancing optimized level	0.5 µm (factory preset) and indicated by green led
Measure display	Analog with auto range (5 µm and 50 µm)
No. of balancing plane	1
Vibration transducer	Accelerometer with a magnetic or screw fitting
Conformity	CE, CSA-UL
Size (WxHxP)	110 x 140 x 195 mm
Weight	1,8 kg



Specifications may be subject to change without notice. © 2015 | 09 | Balance Systems S.r.l.

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