



**Balance Systems**

# VM25

## MODULAR SYSTEM FOR GRINDING CYCLE CONTROL

Balance Systems is the inventor of the patented "moment free" high performance automatic grinding wheel balancer. Balance Systems also produces the in-process roundness check with immediate feedback to the grinding machine. The modular VM25 package offers an optimized solution to virtually all your balancing, touch control, and in-process gauging needs.

The VM25 is easily installed to help you achieve unsurpassed product quality, productivity, ease of use, and flexibility. It can be installed on your new or already operating grinding machines.

Balance Systems is present worldwide with direct offices and representatives to ensure maximum satisfaction for every customer.

### Features

- A single electronic modular unit for:
  - automatic and manual wheel balancing;
  - acoustic emission and power sensing for crash monitoring, gap and dressing control;
  - in-process gauging.
- Menu programmable.
- PLC/CNC communication.
- Several Human Machine Interfaces:
  - local / remote graphic Panel;
  - windows SW Package;
  - graphic Active-X library for OEM's HMI integration;
  - graphic relocatable library for OEM's HMI embedded systems.
- Diagnostics.
- Teleservice and 24 hours spare service.



### Benefits

- Easy set up and training.
- User friendly.
- Complete.
- Expandable over time.
- Price / performance competitive.
- Reduced maintenance cost and machine downtime.



## "MOMENT FREE" BALANCERS

Integrated AE sensor

No-link collector

Mass neutral position



Flange lock  
remote collector



Expansion lock  
remote collector



Flange lock  
front collector



Flange lock  
front collector

### Spindle internal mounting

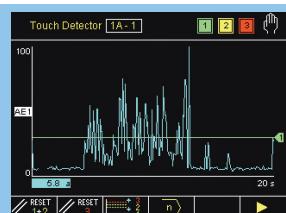
Mounting Ø (mm)	Bore lenght (mm)		Compensation gcm	RPM
	Flange	Expansion		
38	109	130	260	20000
42	109	130	480	15000
50	109	130	780	10000
55	109	130	1050	8500
60	109	130	1800	7800
70	109	130	2800	6100
up to 110	.....	.....	8700	.....

Customized solutions with different dimensions are available on request

### Spindle external mounting

Mounting Ø (mm)	Compensation gcm	RPM
95	220	9000
95	400	9000
95	800	7000
95	1350	6000
95	1700	5000
114	3300	4500
114	4300	4000
114	6500	3000
130	12000	2500

## ACOUSTIC EMISSION SENSORS POWER SENSOR



AE Stationary



AE Spindle  
external mounting



AE Spindle  
internal mounting



Hydrophone



Power

## IN-PROCESS GAUGES

Diameters

Positions

Taper

Roundness



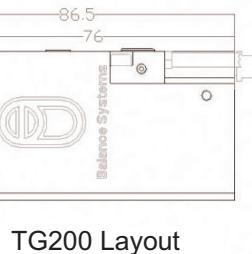
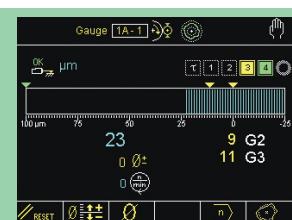
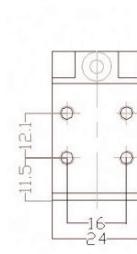
Top Gauge 200  
Gauging head



Supports & Slides



TG200 AF  
Anti Crash Finger



TG200 Layout

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