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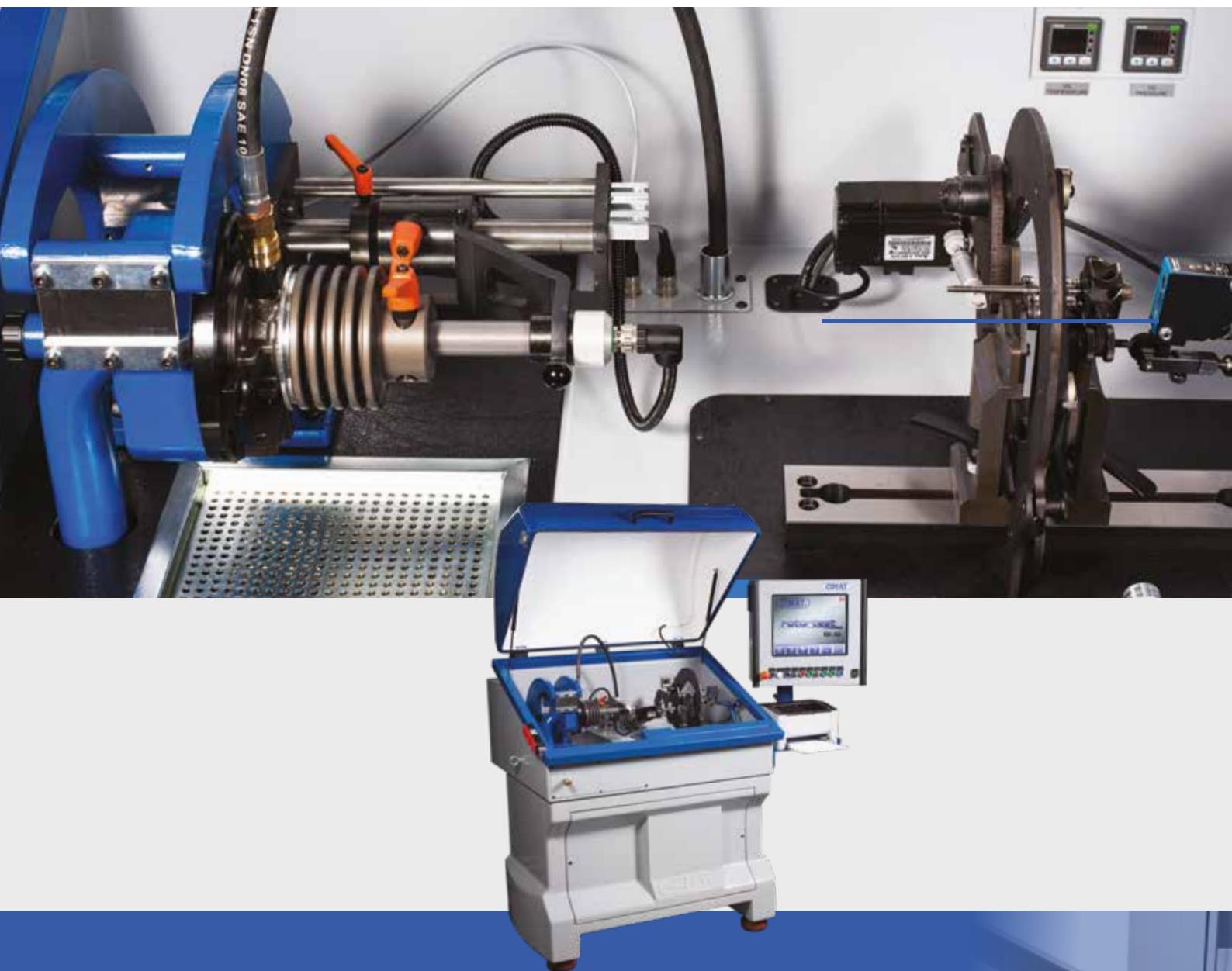


Turbocharger Balancers and Flow Benches



CMT-VSR *BIG BASIC*

COMBINED HIGH-SPEED CORE AND ROTOR BALANCING MACHINE



The subject of the offer is a combined high-speed core and belt-driven rotor balancing machine. As a result of the combination of the two machines in one housing, it is a complete center for turbocharger balancing.

The first stand is the CMT-VSR Big machine that is dedicated to the high-speed core balancing of passenger car and light/medium commercial vehicle turbochargers. The machine ensures high production efficiency that is approximately 150 – 200 cores per 450 minutes shift.

The second stand is the CMT-TR Polymer machine that is dedicated to the turbocharger rotor balancing that are compressor wheel and turbine wheel.

HIGH-SPEED CORE BALANCING MACHINE		
Maximum turbine wheel diameter	134mm (Inducer)	114 mm (Exducer)
Maximum compressor wheel diameter	300 mm	
Maximum rotational speed value	300 000 rpm	
Speed / cycle control	Automatic	
Unit of measurement	G, m/s ²	
Correction point	Automatically calculated	
Reverse rotation core balancing	Yes	
ROTOR BALANCING MACHINE		
Rotor mass	20 g - 5 kg	
Maximum rotor diameter	200 mm	
Maximum distance between roller bearings	200 mm	
Rotor journal diameter range	5 – 20 mm	
Unit of measurement	[mg], [gmm]	
Number of correction planes	2	
Minimum achievable residual unbalance	0.05 gmm	
Unbalance reduction ratio	≥ 95%	
Maximum rotational speed	Up to 16 000 rpm	
Speed control	Continuously adjustable	
Motor type	Servo drive	
Specific rotor calibration	Standard calibration process that requires to make calibration runs with test weights to a create rotor setup file.	
“ABC” rotor calibration	Simple calibration process that do not require to make any calibration runs to create a rotor setup file.	
GENERAL DATA		
Oil filtration	Multistage	
Safety guarding	C type with a guard locking	
Diameter of air supply pipe	1”	
Compressed air pressure	8 bar	
Air tank capacity	For passenger car turbochargers: 500 l For large-frame turbochargers: ≥ 500 l	
Mass of the machine	450 kg	
Power supply	230 V, 50/60 Hz	
Dimensions of the machine	1700 mm x 1000 mm x 1750 (2000) mm	

CIMAT[®]

BALANCING MACHINES

**CIMAT MACHINES
ARE UTILIZED
IN MORE THAN
90 COUNTRIES
WORLDWIDE**



**OTHER AUTOMOTIVE APPLICATIONS ARE
THE BALANCING MACHINES FOR:**

drive shaft, crank shaft, clutch, dual mass flywheel,
brake disc, engine cooling fan, industrial wheel & tire.



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