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Turbocharger Balancers and Flow Benches



CMT-VSR *BIG*

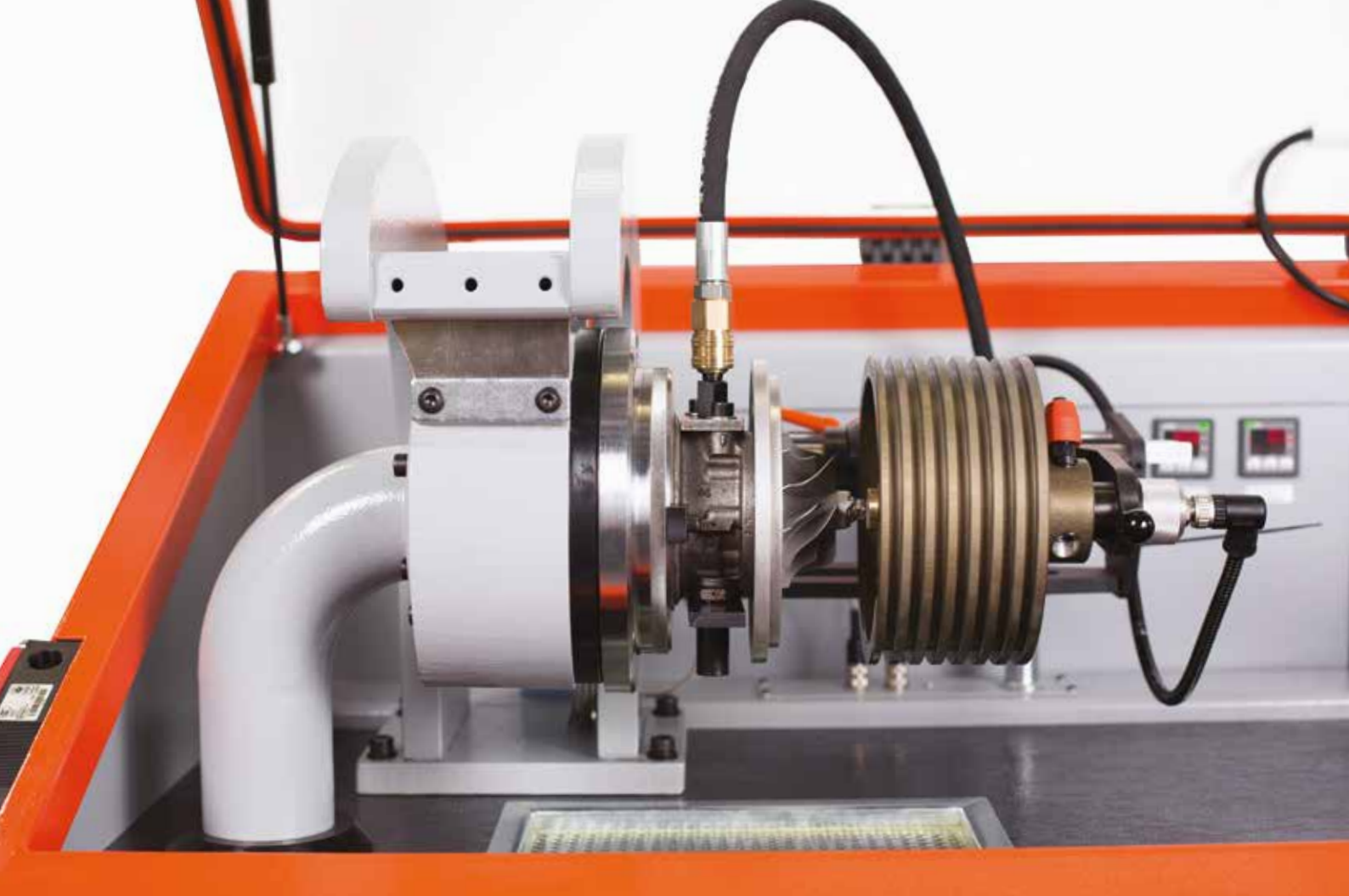
HIGH-SPEED CORE BALANCING MACHINE



The subject of the offer is high-speed balancing machine of turbocharger core assembly of passenger car, commercial vehicle, off-highway vehicle, marine, agricultural and motorsport. The machine ensures high production efficiency that is approximately 150 – 200 cores per 450 minutes shift.

Core is installed on the hub of the machine by the use of an adapter plate with the two clamps to lock it. Turbine wheel is driven by a compressed air supplied through a sleeve with a nozzle system. During the unbalance measurement the oil with an appropriate temperature and pressure is supplied. The result of the measurement is the graph of vibration in the function of the rotational speed. To simplify the analysis of the vibration graph, the software indicates the exact angular position of the unbalance. Balancing in the full range of rotations extends the lifespan of turbocharger and eliminates the undesirable effect of whistling.





FUNKCJA	CMT - VSR Big	
Maximum turbine wheel diameter	134 mm (Inducer)	114 mm (Exducer)
Maximum compressor wheel diameter	179 mm	
Maximum rotational speed value	300 000 rpm	
Speed / cycle control	Automatic	
Unit of measurement	G, m/s ²	
Correction point calculation	Automatic	
Reverse rotation core balancing	Yes	
Oil filtration	Multistage	
Safety guarding	C type with a guard locking	
Air supply pipe diameter	1,25"	
Required air pressure	8 bar	
Required air tank capacity	For passenger car turbochargers: ≥ 500 l For large-frame turbochargers: ≥ 1,000 l	
Power supply	230 V, 50/60 Hz	
Mass of the machine	340 kg	
Dimensions of the machine	1450 mm x 940 mm x 1600 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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