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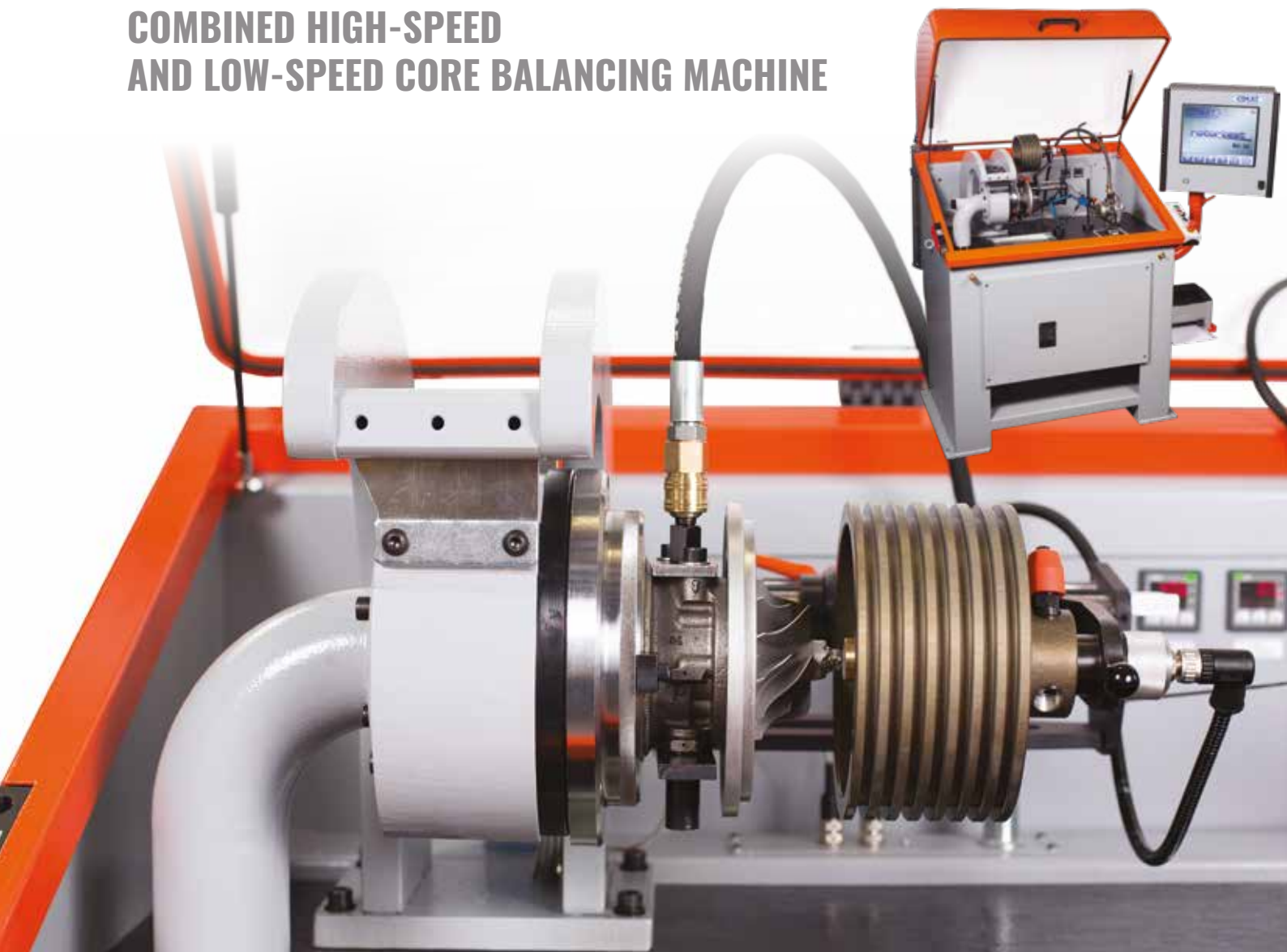


Turbocharger Balancers and Flow Benches



CMT-VSR *BIG TWIN*

COMBINED HIGH-SPEED AND LOW-SPEED CORE BALANCING MACHINE



CMT-VSR BIG TWIN is a combined high- and slow-speed core balancing machine.

The first stand is the CMT-VSR Big machine that is dedicated for 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“ machine that is dedicated for the slow-speed core balancing of turbocharger of commercial vehicles, off-highway vehicles, agricultural and marine applications.



CMT-VSR BIG TWIN

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HIGH-SPEED CORE BALANCING MACHINE

Maximum turbine wheel diameter	134 mm (Inducer)	114mm (Exducer)
Maximum compressor wheel diameter	179 mm	
Maximum core 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	

SLOW-SPEED CORE BALANCING MACHINE

Maximum core mass	16 kg
Unit of measurement	[mg], [gmm]

Measurement uncertainty

a) 0,02 gmm – 0,3 gmm for light-duty truck turbocharger core

b) 0,15 gmm – 0,9 gmm for heavy-duty truck turbocharger core

Balancing speed	40 000 rpm
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GENERAL DATA

Oil filtration	Multistage
Safety guarding	C type with a guard locking
Diameter of air supply pipe	1,25"
Compressed air pressure	7 bar
Air tank capacity	For passenger car turbochargers: 500 l For large-frame turbochargers: ≥ 1,000 l
Mass of the machine	450 kg
Power supply	230 V, 50/60 Hz or on request
Dimensions of the machine	1950 mm x 1150 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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