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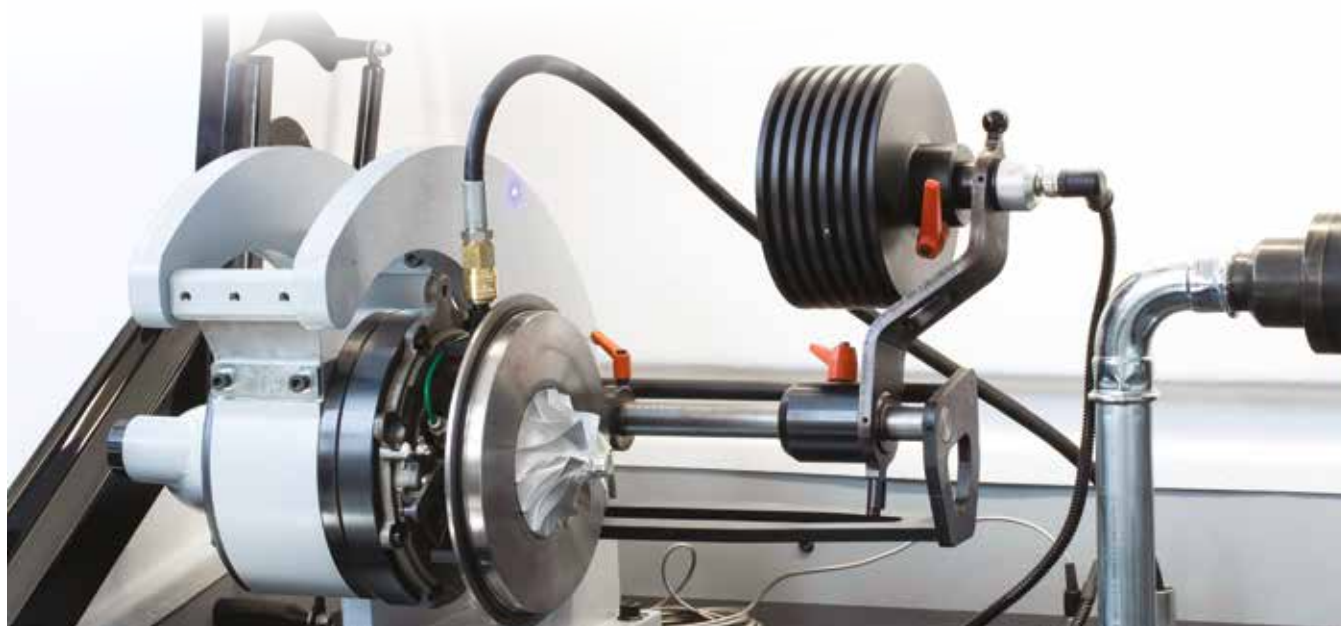
Turbocharger Balancers and Flow Benches



TURBO TEST *DUO BIG*

COMBINED HIGH-SPEED CORE BALANCING MACHINE AND DYNAMIC TURBOCHARGER FLOW BENCH

Turbo Test Duo Big combines a high-speed core balancing machine and a turbocharger calibration machine also known as a flow bench. The machine supports turbochargers of passenger cars, light- and heavy-duty trucks.



HIGH-SPEED CORE BALANCING MACHINE		
Maximum diameter of turbine wheel	114 mm (exducer)	134 mm (inducer)
Maximum diameter of compressor wheel	179 mm	
Maximum rotational speed value	300 000 rpm	
Unit of measurement	G, m/s²	
Speed / cycle control	Automatic	
Correction point	Automatically calculated	
Balancing of core with a reverse rotation	Yes	
TURBOCHARGER FLOW BENCH		
Maximum turbine inlet air pressure	250 kPa	
Air mass flow measurement accuracy	+/- 1 kg/h	
Maximum mass air flow that can be measured	450 kg/h at 1 bar turbine inlet pressure and 25°C air injection temperature	
Maximum volume air flow that can be measured	380 m³/h at a turbine inlet pressure of 1 bar and an inlet air temperature of 25°C	
Turbocharger position	Like in a car with an oil drain directed downward to achieve the highest measurement accuracy	

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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