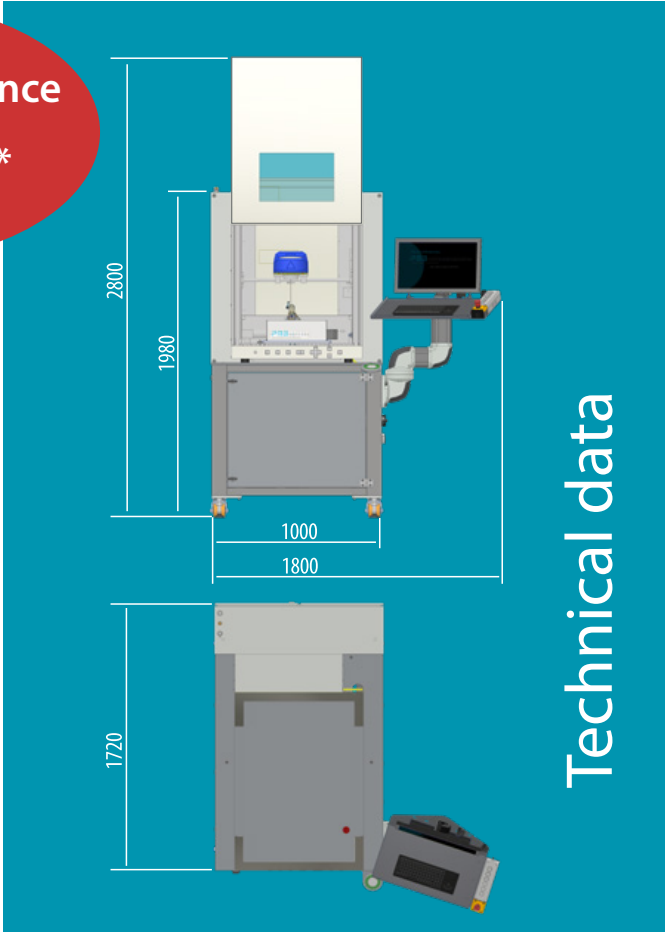


**Residual unbalance  
< 0,001 gmm\***



Technical data

## CAROBA® Balancer Laser

Many rotating components such as the rotors of electric motors, small fans, compressor wheels, micro-turbines and dental turbines are subjected to high stresses during operation at speeds of up to 500,000 rpm. Reliably good balancing even with the smallest permissible residual unbalance is particularly important here. Especially for the balancing of rotors or assemblies with mounted bearings, 2 points have become increasingly important in addition to high balancing accuracy and process reliability:

**Free of force:** The bearings and the component must be balanced as gently as possible.

**Chip-free:** Under no circumstances should chips be allowed to enter the bearings or electronics of already mounted boards. PMB solves these requirements with the CAROBA® Balancer Laser balancing machine, which is available as a standard product with individually adapted built-in components.

Weight Balancer Laser	Kg	600
Power supply	V	400 V/AC
Fuse protection	Ampere	16
Compressed air	Bar	6
Smallest possible residual unbalance*		
On rollers / prisms of standard bearing blocks	gmm	< 0,03
With individual support or mounted bearings	gmm	~ 0,001
On PMB air bearings	gmm	< 0,001

\*Dependent on balancing object, mounting and measuring system

## Type of drive

Belt drive	Wrap with round belt cord		
Drive power		Watt	117
Air drive	Compressed air		
Self drive	Control via our software		

## Balancing speed by

Belt drive	UPM	180 - 9.000
Air drive / Depending on object and bearing	UPM	TBD
Self drive / When using the Pro-i measuring system, maximal	UPM	800.000

Integrated measuring system: CAROBA® UMS Pro-i

Control unit: Touch screen and keyboard -adjustable

Optionen:

Roller bearing blocks, plain bearing prisms, air bearings, customer-specific receptacles, Standard vibration assemblies, partial- and full automation of the system.

## Your advantages

- Process reliable with high repeatability
- Ablation of residual unbalances down to microgram range
- No force applied to the component
- Chipless mass correction. No damage to bearings or assembled electronics
- Semi-automated and fully automatable for industrial serial balancing
- Easy set-up for new components
- Almost maintenance-free



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06.2020 / EN