

 **SCHENCK**



***pasio***<sup>50</sup>

**PASIO – the wind of change for balancing**

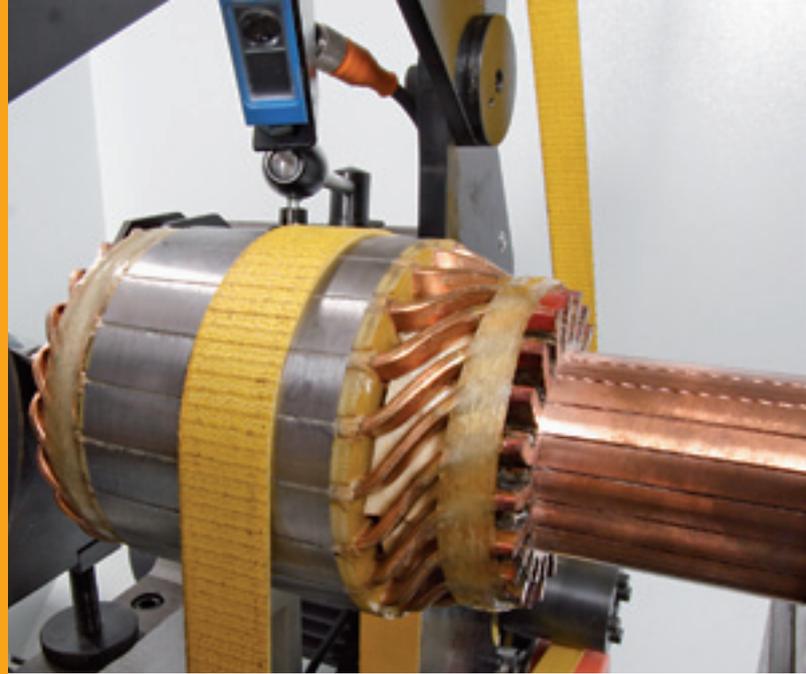
The horizontal universal balancing machine for rotors up to 50 kg



PASIO 50 –  
*Years of experience  
and craftsmanship under  
the same hood*

Schenck's PASIO is the first of a new generation of compact balancing machines that have today become the state-of-the-art. The key concept is: Compact design, significantly easier balancing for rotors up to 50 kg. Greater process reliability and improved effectiveness – for your rotor range. Find out for yourself.

# PASIO 50 – *From drive elements to gears*

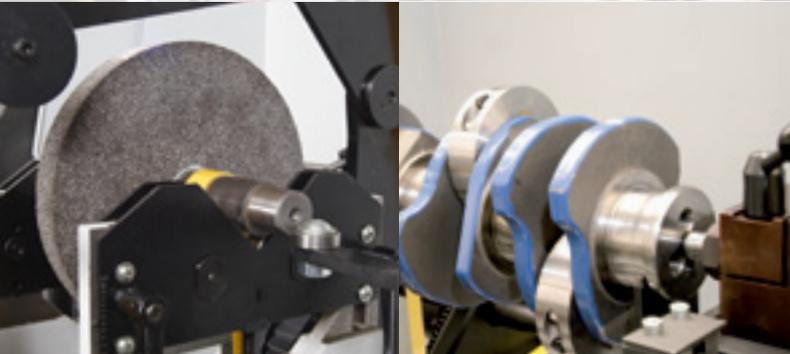


*Balancing of electric armatures*



*Balancing of compressor wheels*

*Balancing of radial fans*



*Balancing of grinding discs*

*Balancing of crankshafts*

## **PASIO 50 – The universal solution for a wide range of rotors**

This is what makes up the Pasio 50. This horizontal balancing machine enables accurate balancing of rotors up to 50 kg – for cylindrical rotors with their own journals as well as for crankshafts, electric armatures or rollers or disc-type rotors with auxiliary shaft, such as fans or grinding discs.

Our Pasio 50 all-rounder has already successfully proven itself in the world of balancing – a new generation of measuring devices in two equipment levels now makes operation even easier and more reliable for you, and therefore also for the beginner.

### **Now even more accurate!**

With the peak Pasio 50 technology from Schenck, it is now possible to achieve residual unbalances of 0.5 gmm per plane.

## **PASIO 50 – The data at a glance:**

*Maximum rotor weight: 50 kg*

*Maximum rotor diameter: 600 mm*

*Bearing journal spacing: 50 – 1,000 mm*

*Bearing journal diameter: 9 – 63 mm*

*Residual unbalances of 0.5 gmm per plane  
can now be achieved.*



*Balancing of compensation shafts with optional correction*

*Use the freedom of simple operation*



*Clear and user-friendly touch function*



**The easy, uncomplicated way to perfectly balanced rotors**

In the development of the PASIO, we have placed the emphasis on simple and straightforward, but also safe operation. The protective hood, for example, can be opened and closed easily. The single-hand belt drive can be adjusted for the rotor in a few simple steps and without the aid of tools.

The measuring units also form an integral part of this concept: User guidance, clear text balancing instructions or touch-screen operation are in this case the keys to clear understanding of the balancing process.



*Easy operation without additional tools*



*Measuring technology  
that leaves nothing  
to be desired*

**The Pasio 50 offers measuring technology to the acknowledged Schenck top quality in two equipment levels:**

**CAB 920** SmartTouch combines maximum precision with the simplest operation: CAB 920 offers an ingeniously simple operating concept, whose logical relationships are apparent at a glance. The result is simply convincing: fast and safe working with a very low learning curve. And with every imaginable technical rotor type.

The **CAB 820** is the basic measuring unit that sets new standards in its class. It combines peak performance with great ease of use, all at a very good price/performance ratio. This measuring unit is always the right solution whenever you need to achieve the best balancing result with the least time and effort.



*CAB 920: The peak-performance measuring unit – easy operation with maximum perfection*



*CAB 820: The basic measuring unit for great accuracy with clear displays*

## State-of-the-art technology



*Mineral casting – robust and vibration-damping*

### **Mineral casting for absolute precision**

Compact, corrosion-proof and vibration-damping – just some of the benefits offered by a machine bed made of mineral casting. The ecological balance of this modern material also speaks for itself: significantly less energy is required for production than in the manufacture of steel or cast iron parts. The material can be disposed of in an environmentally friendly way by recycling or landfill.

### **Variable drive technology for every balancing task**

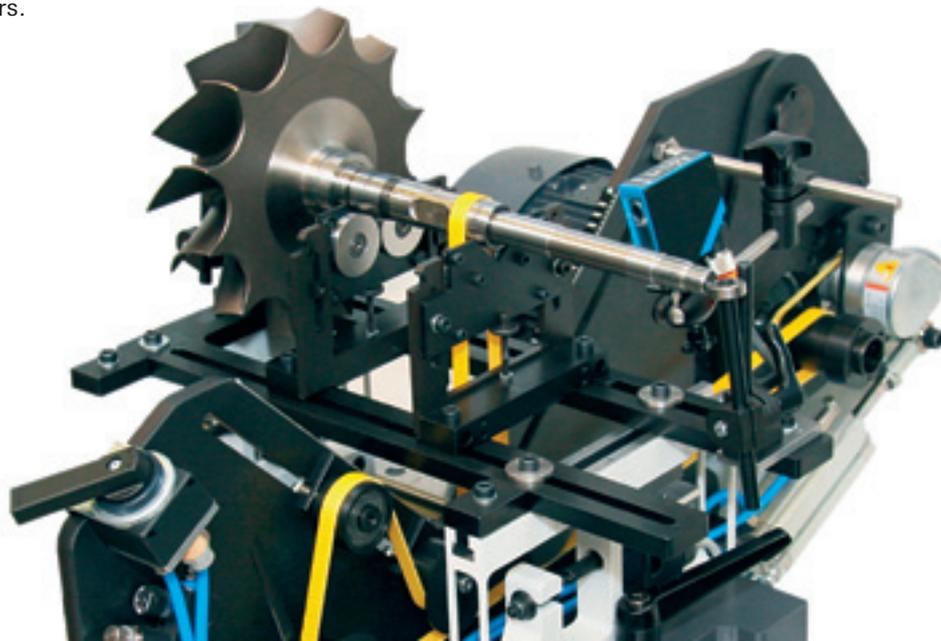
A **high-performance, energy-efficient drive concept** has been developed for the PASIO 50 – for a wide range of rotors. The belt drive is the right choice for all rotors with a smooth surface – direct, fast and ready for use without any special preparation. It provides a vertical belt take-off from the rotor – so the measurement result cannot be falsified by tensile force of the belt.

The universal **single-hand hinged bracket belt drive** of the PASIO 50 can be set to the diameter of your rotors in just a few steps. This belt drive is the first choice when you need to balance high quantities. It is easily adjustable, and only one drive belt is required for different rotor diameters.

The special feature: The belt drive is available on request in completely **amagnetic material**. So that you can also balance magnetic rotors, such as permanent magnet rotors to the same accuracy.

For special mountings, the underslung drive is more suitable than the **hinged bracket drive** – our comprehensive range also includes a version with a pneumatically tensioned belt. In this case too, refitting for a new rotor can be carried out quickly and easily without the aid of tools.

*Underslung drive  
with turbo-charger and  
special adapters*



## Commissioning made easy



Easy transport – fast commissioning

And the **commissioning**? This machine of the PASIO series can also be installed easily and quickly. Because it needs no foundations, and can be positioned simply by crane or forklift truck, and then connected to the power supply. The compact design and low installation area save a great deal of space. You can also easily relocate the PASIO if required by your production process.



### Pasio – a high-performance balancing machine with a host of advantages:

- *Easy and safe operation:*
  - CAB 820 or CAB 920 SmartTouch measuring units
  - ergonomic single-hand hinged bracket belt drive
  - protective hood to ISO 21940-23, Class C
- *Fast commissioning:*
  - no foundations, no screw fittings
- *compact design, low space requirement*
- *one drive belt for all rotor diameters*
- *high-performance drive for a wide range of rotors*

The belt drive can be easily adjusted to the right rotor size in only a few steps and without the aid of tools.

## Technical data

### Rotor size

Maximum rotor weight	50 kg
Maximum rotor diameter	600 mm
Bearing journal diameter	9 – 63 mm
Bearing centre spacing	<b>50 – 1,000 mm</b>
Lowest achievable residual unbalance	0.5 gmm per plane

### Machine data

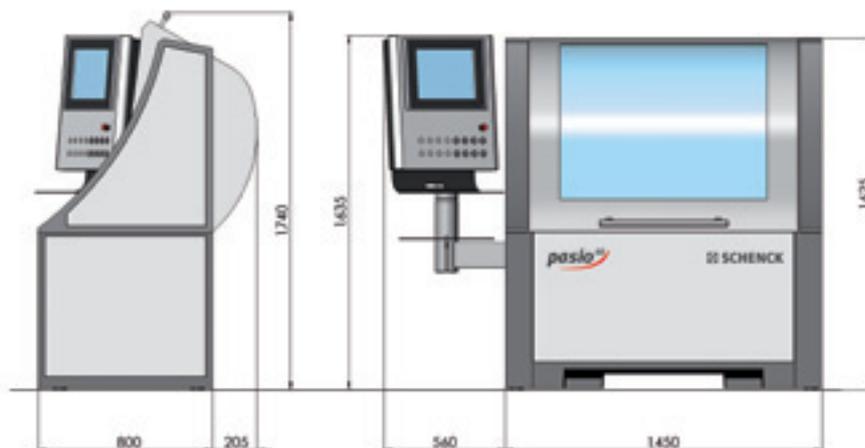
Dimensions	(see drawing)
Overall weight	1,100 kg
Mains connection: Rotor drive by hinged bracket belt drive	400 V $\pm$ 10%, 3 Ph, 50/60 Hz
Drive performance:	1,1 kW
Protective cover to ISO 7475 Class C (protection against ejected parts)	
2-colour painting, RAL 7035 (light grey), RAL 7024 (graphite grey)	

### Measuring units

CAB 820
CAB 920 SmartTouch

### Options

Colour printer for report printout
Support roller inserts for bearing journal diameters for 63 to 100 mm
Counter-bearing with roller
Belt drive of amagnetic material
Underslung belt drive, pneumatically tensioned



# SCHENCK

Balancing and  
Diagnostic Systems

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