

## **Pasio 50 – The universal talent among the balancing machines**

The versatile standard for horizontal universal balancing machines  
for rotors up to 50 kg



## The all-rounder machine for smart balancing

### Modern and established under one bonnet

A new model ... even though its predecessor is still not outdated?

Correct! It's because our engineers and designers are continually striving to provide you with best-in-class solutions. The Pasio 50 sets many new standards in technology, design and ergonomics. Experience greater operator usability, improved user interface and easy integration into networks or process control systems!

The Pasio 50 is the second generation of our large Pasio series. It is designed for rotors up to 50 kg with a maximum rotor diameter of 600 mm (23.6 inch) and a length of 1,000 mm (39.4 inch). It covers a wide range of rotors that are frequently encountered in production plants and repair facilities. Sophisticated mechanics and perfect measuring technology permit residual unbalances of less than 0.5 gmm (0.02 ginch) per plane and therefore a very high unbalance reduction ratio of 95%.



## Data at a glance

- ▶ Maximum rotor weight: 50 kg
- ▶ Largest rotor diameter: 600 mm, 23.6 inch
- ▶ Distance between bearing center points: 50 – 1,000 mm, 2.0 – 39.4 inch
- ▶ Minimum diameter: 9 – 63 mm, 0.4 – 2.5 inch
- ▶ Minimum achievable residual unbalance per plane: 0.5 gmm, 0.02 ginch

## Advantages at a glance

### More efficiency

- ▶ Uses the latest software, Schenck ONE, with all its advantages.
- ▶ Automatic approach to the individual rotor-specific speed via precise speed control
- ▶ Mature mechanics and perfect measuring technology enable residual unbalance of 0.5 gmm, 0.02 ginch per plane.
- ▶ Very high unbalance reduction ratio of 95%.
- ▶ Automatic indexing for easy and perfect angle determination (option).

### More user-friendliness

- ▶ Extremely easy commissioning.
- ▶ Easy to integrate into existing customer networks.
- ▶ Low space requirement due to reduced overhangs.
- ▶ Servomotor with digital speed selection and monitoring.
- ▶ Self-diagnosis for quick fault detection and rectification.
- ▶ Comfortable protection cap as per DIN ISO 21940-23, Class C (with large window).
- ▶ Swivel bracket belt drive that is very easy and safe to operate.
- ▶ Two-handed control when the protection cover is open for indexing into the next correction position.

### More flexibility

- ▶ High availability thanks to modern, individual service concepts.
- ▶ Large selection of options for special requirements.





## Measure precisely and interpret data

### Gain an edge with Schenck ONE

Schenck ONE is our brand of software solutions for everything to do with balancing. With our digital solutions, we support customers at the balancing machine as well as with all adjacent process steps.

This holistic approach offers you the right solution for every challenge – along the entire balancing process.

Whether for creating the rotor type, measuring the unbalance, documenting your results, or servicing the machine – you will find optimal support for every process step in our Schenck ONE ecosystem.

For decades now, we have been supporting our customers with their balancing process in a wide variety of disciplines. Our software, which we are continuously advancing, is the centerpiece of every Schenck machine.

Now, with Schenck ONE, we are opening an entirely new world to you and enabling every user access to data and processes at any time, from anywhere.

**More informations at [www.schenck.one](http://www.schenck.one) on the internet.**

## Communication meets measurement technology

### Use digitalization to boost productivity

Schenck ONE combines highly accurate measurement software with supporting software solutions that comprise a continually growing range of functions that you can access with your browser. As a result, you have all of your data and processes at a glance and can operate with maximum efficiency.

Your employees can collaborate, share data, and set up the machine from any location in the world, while it is being used by the operator. The Pasio 50 series offers all this and much more as standard features.



## SCHENCK ONE – this is the future

### Planning & preparing

#### Asset Manager

- ▶ Machine groups and plants are individually and clearly structured.
- ▶ Important documents, such as machine manuals, are centrally stored.
- ▶ Direct access to service contact at the Schenck Helpdesk.

#### Rotor Manager

- ▶ Any number of type data, stored independently of location and machine.
- ▶ Work preparation and planning can be done from the desktop, while the machine is in use.
- ▶ Rotor type data can be synchronized on selected machines.

### Balancing

#### Balancing Assistant

- ▶ Simple machine calibration.
- ▶ Reliable and guided balancing.
- ▶ Highly precise measurement of the unbalance in the proven vectormeter.
- ▶ Automatic tolerance calculation according to ISO 21940-11.
- ▶ Various calculations for compensating the unbalance.

### Saving & analyzing

#### Report Center

- ▶ Simple saving and retrieval of all balancing results.
- ▶ Access to reports on the machine and from the desktop (PDF & CSV).
- ▶ Subsequent modification of reports (e.g. language, logo, units, etc.)

#### Machine Center

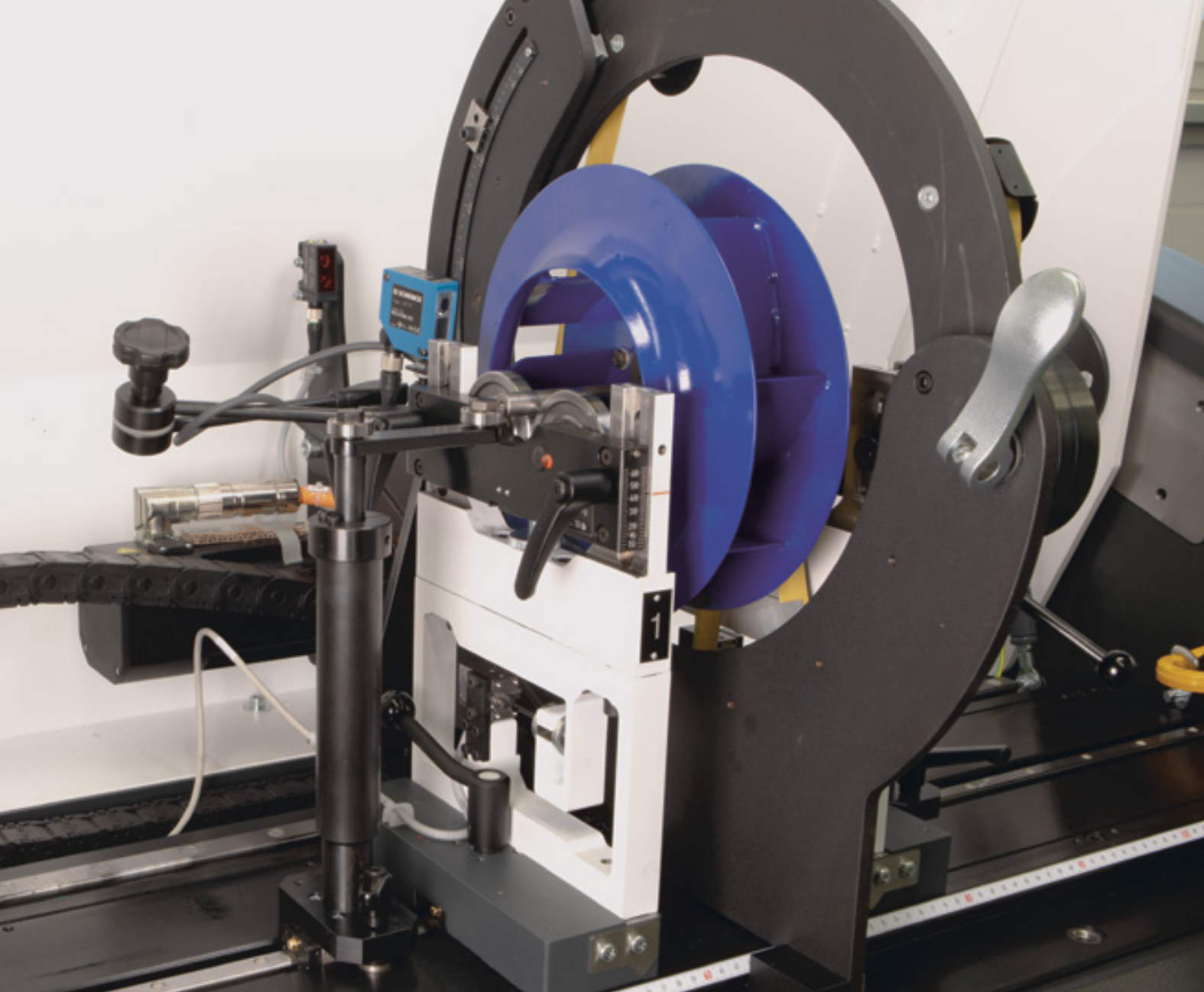
- ▶ Sustainably improved balancing processes.
- ▶ Output and measurement uncertainties depicted transparently on dashboards.
- ▶ Performance comparison of individual machines, machine groups, or locations.
- ▶ Key data of individual rotor types (number of balancing runs, scattering, etc.) at the click of the mouse.

### Maintenance

#### Maintenance Assistant

- ▶ Highest quality ensured by transparent machine maintenance.
- ▶ Maintenance plan for all of your machinery, including third-party manufacturers, recorded digitally.
- ▶ Reminders of maintenance tasks organized by user-specific e-mail.





## True partnership – from planning to operation

Good to know that you can always count on us

At Schenck, problem-solving expertise is both ecologically and economically sustainable. Our portfolio of products, systems, and selected services ensure maximum energy efficiency and productivity over the entire lifecycle of your plant or system.

We have experts who know your industry from the inside out, including all the standards and requirements. Focused on your products, services and your target groups, our collaboration therefore frequently begins with application consulting and training.

With Schenck, high system and plant availability stays reliable and predictable over the long term. In the spirit of OEE (overall equipment effectiveness), we support you with aftersales solutions – from proactive maintenance agreements (PMAs) and optimization audits, to spare parts supply and retrofits, express repairs and deliveries as well as specific modernization measures, right through to the Schenck Helpdesk, which makes live support via smartphone and tablet just a tap away.



## Consistently optimized balancing process

Digital, sustainable, innovative, efficient

Rapid digitalization steps and a holistic approach to data usage and evaluation are required to make balancing processes efficient and future-proof. This is precisely where Schenck ONE supports you, by providing the right software solution for every challenge relating to balancing. All of our different applications create transparency and security along the entire process chain and sustainably improve your balancing process.

Reliable and efficient operator guidance makes learning the machine easier and provides the operator with optimal support at all times. This allows us to avoid possible errors right from the start, and lets you concentrate entirely on balancing.

Updates and modernizations have never been so easy: with our Schenck ONE software solutions, we automatically provide you with all software updates in the Connect package. Which means that you have access to our latest balancing software at all times.

## International service for global production reliability

Connect directly to our Helpdesk via the Service+ app

Regular service performed at predefined intervals by our customer service team protects your plant or system from unexpected failures, faults, or downtime caused by wear.

In emergencies, our 24-hour hotline with guaranteed response time ensures the highest possible availability of your system. Our global service team, with over 200 technicians, supports you on site around the world and can procure any necessary spare part in the shortest possible time.

The heart of this service pledge: our Service+ app – your direct line to the Schenck Service Helpdesk.

The Service+ app enables fast identification and resolution of errors and faults, since your service requests can be created quickly and easily. Moreover, the Schenck ONE software solution also gives you an overview of the maintenance status of your Pasio machines at all times and you can contact us directly with just a few clicks.

# Technical data

## Pasio 50

### Rotor dimension

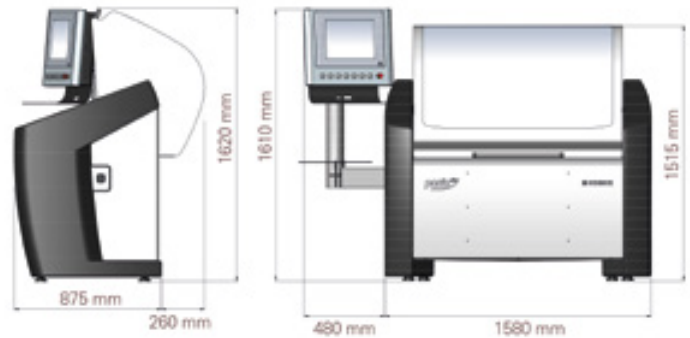
Maximum rotor weight	50 kg
Maximum rotor diameter	600 mm, 23.6 inch
Journal diameter	9 – 63 mm, 0.4 – 2.45 inch
Journal spacing	50 – 1,000 mm, 2.0 – 39.4 inch
Minimum achievable residual unbalance per plane	0,5 gmm, 0.02 ginch

### Machine data

Dimensions (see drawing)	
Total weight [kg]	1,100
Network connection	400 V ± 10 %, 3 Phases, 50/60 Hz
Drive power [kW]	1,1
Protection cover according to ISO 21940-23 Class C (Protection against flying parts)	
2-color paint finish	RAL 9003 (signal white), RAL 7016 (anthracite gray)

### Options

Automatic indexing in correction positions	
Support roller inserts for journal diameters from 63 to 100 mm, 2.5 to 3.4 inch	
Hold-down bearing with roller	
Belt drive made from non-magnetic material	
Underslung belt drive – pneumatically clamped	
Work light (LED)	



## From a passion for all rotating components and assemblies Improved quality, longer service life, and greater safety and security

Schenck is the global leader in balancing and diagnostic technology and is represented in more than 50 countries on five continents through subsidiaries, joint ventures and sales partners.

We produce at own sites worldwide and supply innovative technologies to sectors such as the automotive and tier 1 supplier industry, electrical and electronics, aerospace, and turbomachinery sectors, as well as the general mechanical engineering industry.

Schenck is part of the Dürr Group, one of the world's leading mechanical and plant engineering firms with extensive expertise in the fields of automation, digitalization, and energy efficiency.

The Dürr Group's products, systems, and services enable highly efficient and sustainable production processes in a variety of industries, from the automotive sector to furniture and timber house manufacturers and chemical, pharmaceutical, medical product, and electronics companies.



SCHENCK RoTec GmbH  
Landwehrstraße 55  
64293 Darmstadt, Germany  
T + 49 6151 32-2311  
F + 49 6151 32-2315  
sales1.rotect@schenck.net  
www.schenck-rotec.de

SCHENCK USA CORP.  
535 Acorn Street  
Deer Park, NY 11729  
T +1 631-242-4010  
F +1 631-242-4147  
sales@schenck-usa.com  
www.schenck-usa.com

More about Pasio 50:

