SCHENCK

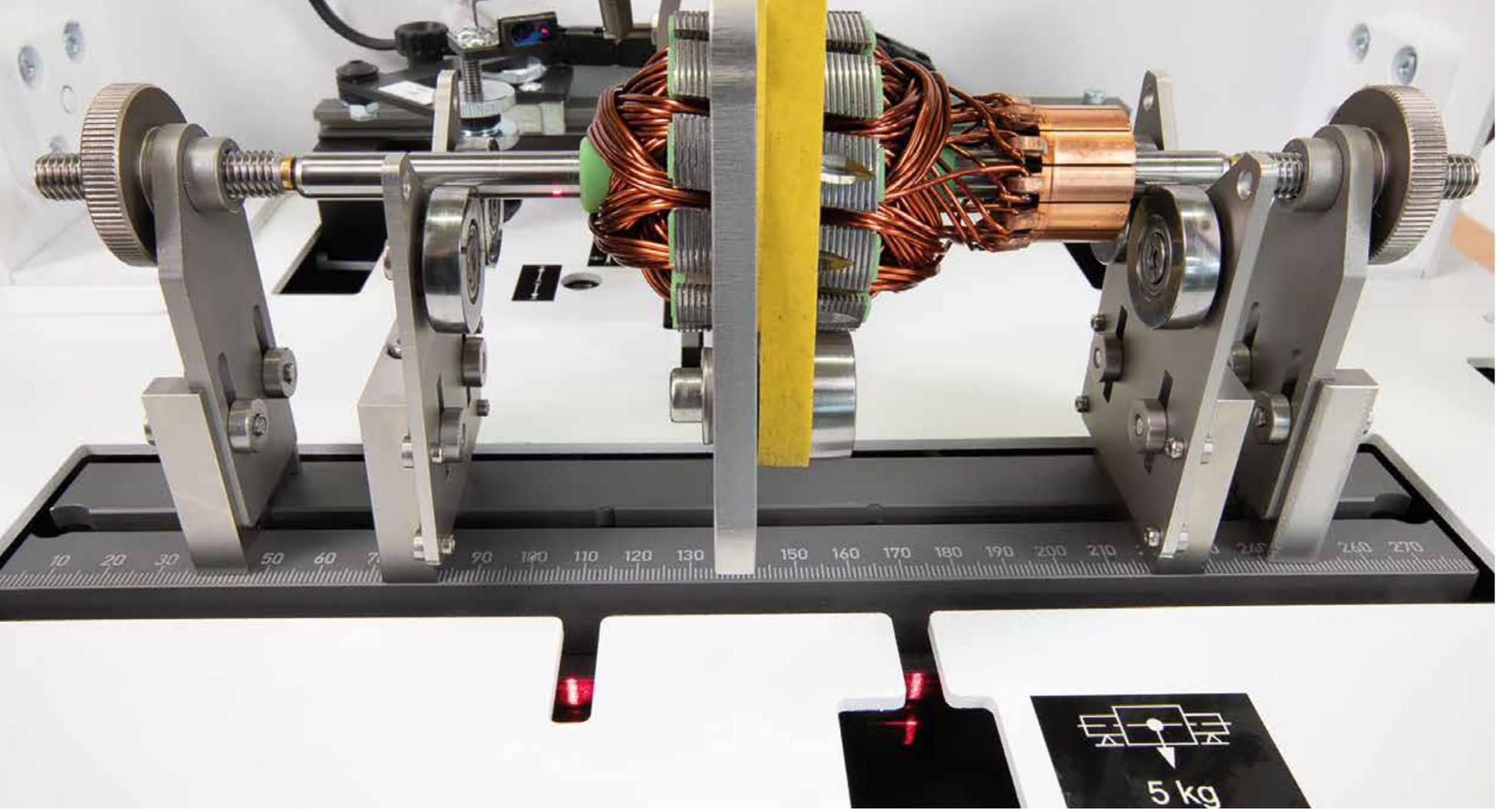
Pasio 5 series – perfect for small rotors

Horizontal universal balancing machines for rotors from a few grams up to 5 kg

Pasio 5 / 05 / 005

RM1044-3 EN

Passion for Balancing



The perfect solution for small and miniature rotors

Maximum precision, perfect ergonomy

The smallest Pasio series is a completely new design. The revolutionary design concept contributes to efficient workflows of the table balancing machines and offers a host of advantages to the users: It provides easy access to the workspace, the measuring device, and all other important control elements. Its optimized Human-Machine-Interface ensures error-free operation and fast set-up while taking up a minimum amount of space.

The compact Pasios feature an excellent measurement accuracy, which ultimately saves you time and money, since a single measurement run and correction step is enough in most cases to ensure that the rotor is within the tolerance.

The three variants of the Pasio series have been technically optimised for your application area: different drive concepts and rotor mountings are used, depending on the model. In the Pasio 005, the travel measurement procedure is used, due to the greater accuracy. The two larger versions make use of the force measurement procedure. Both measurement procedures are supported perfectly by our measuring units, so that they always arrive at the optimum balancing result in these weight classes.

Model overview

pasio 005

- Rotor weight: up to 50 g
- Minimum achievable residual unbalance per plane: 0.01 gmm, 0.00004 ginch

pasio 05

- Rotor weight: up to 500 g
- Minimum achievable residual unbalance per plane: 0.02 gmm, 0.0008 ginch

pasio 5

- Rotor weight: up to 5 kg
- Minimum achievable residual unbalance per plane: 0.15 gmm, 0.006 ginch

Advantages at a glance

More efficiency

- Uses the latest software, Schenck ONE, with all its advantages.
- Reliable balancing of magnetized rotors such as permanent magnet rotors via a non-magnetic drive.
- Exact and quick unbalance correction thanks to automatic angle positioning.
- Permanent calibration of Pasio 05 and Pasio 5 for easy and quick balancing.
- Maximum precision thanks to displacement measurement in the Pasio 005.
- Very high unbalance reduction ratio.

More user-friendliness

- Extremely easy commissioning.
- Easy to adjust and easy to handle laser scanning head for precise angle positions.
- Quick and error-free machine setup with the integrated linear laser.
- 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.

More flexibility

- Variable drive technology for different weight ranges.
- 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 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 5 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.)

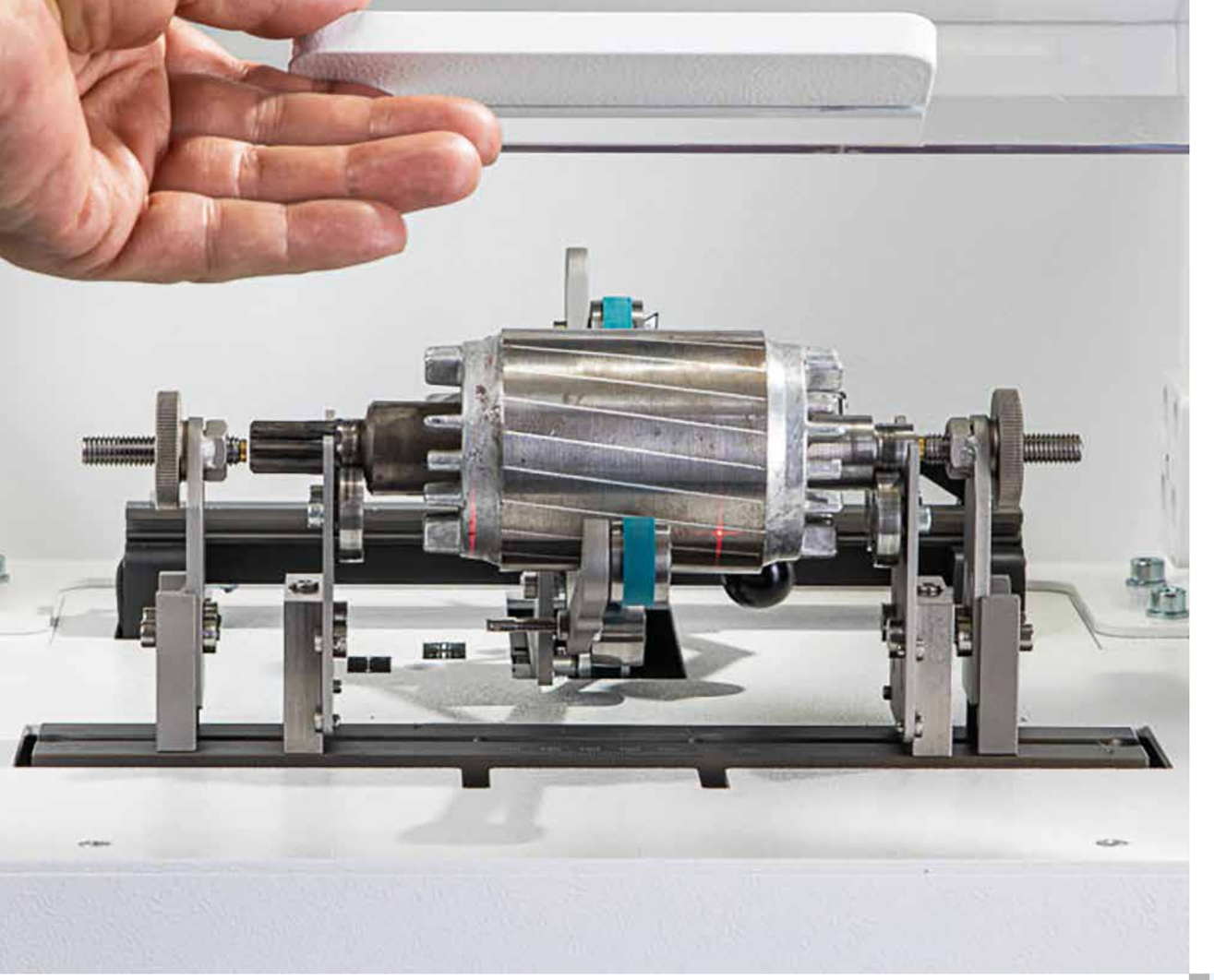
Machine Center

- 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.



Discover the versatility

Perfectly planned

Space saving, accurate and easy to operate

These are just three of the many advantages which make the Pasio 5 series the perfect tool for efficiency and process reliability in your business. You will also be convinced by the robust design, the reliable Schenck drive technology and the overall construction that meets the very latest requirements when it comes to technology and ergonomy. With the Pasio 5 series, you can balance a wide range of rotors professionally and accurately.

Good view in every position

Different lighting effects and conditions can sometimes restrict or impair the visibility. Glare free working in every lighting situation is ensured by the rotatable and tiltable screen.

Set up and start work immediatly

Do you have a power connection and a table? Then you have everything you need. The Pasio 5 series can be brought into operation using the “plug & play” process.

And because space is a scarce commodity in any business, we have designed the machine as a compact monoblock construction so that it requires less place. It is, however, still fully accessible and completely in order – a balancing machine which turns in a great performance in the smallest space possible.

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.

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 005	Pasio 05	Pasio 5
Rotor dimension			
Maximum rotor weight [g]	50	500	5,000
Maximum rotor diameter	30 mm, 1.2 inch	60 mm, 2.4 inch	150 mm, 5.9 inch
Journal spacing	45 mm, 1.8 inch	65 mm, 2.6 inch	240 mm, 9.5 inch
Journal diameter	1 – 6 mm	1 – 10 mm	5 – 22 mm (21 – 40 mm)
	0.01 – 0.2 inch	0.01 – 0.4 inch	0.2 – 0.9 inch (0.8 – 1.6 inch)
Minimum achievable residual unbalance	0.01 gmm 0.0004 ginch	0.02 gmm 0.0008 ginch	0.15 gmm 0.006 ginch
Machine data			
Overall weight [kg]		135	
Power supply		230 V, AC, 50/60 Hz	
Belt drive, tangential, from below, with flat belt[1]	-	-	✓
Belt drive, tangential, from above, with round cord belt	✓	✓	-
Drive Power [W]		100	
Automatic indexing included	✓	✓	✓
2-color paint finish		RAL 9003 (signal white), RAL 7016 (anthracite gray)	
Options			
Test rotor with test weights [g]	6,3 (Standard Level B)	60 (Standard Level B)	500 (ISO Level B)
Extension kit for small rotors	-	-	✓
Protective cover as per DIN ISO 21940-23 (protection from flying parts)	✓	✓	✓
Belt drive, tangential, from below, with round cord belt[2]	-	-	2 – 22 mm 0.08 – 0.9 inch
Graduation scanning as reference and angle position sensor	✓	✓	✓

[1] Can be converted to overslung belt drive, [2] As part of the extension set for small rotors, together with prism inserts for bearing journals 2 – 22 mm, 0.08 – 0.9 inch and software rotor-specific calibration.

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.

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More about Pasio 5 / 05 / 005:

DÜRR GROUP