NEW

Universal Balancing Machines Pasio 100, 300 and 700

World class for a broad range of rotor sizes and types

Passion for Balancing

RM1089 EN

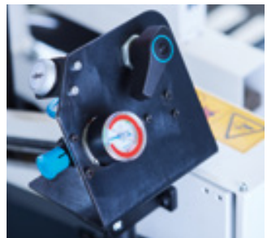
Just as you've always imagined

Many applications through great flexibility

Whether on fans, spindles, electric armatures, compressors, rollers or turbochargers – rotors must be measured, checked, and balanced. With the new Pasio 100, Pasio 300, and Pasio 700, smaller companies and repair shops as well as manufacturers of large quantities have the right machine for balancing horizontally mounted rotors.

As universal balancing machines, they are not geared to a specific rotor type, but instead cover the entire range of applications, from cylindrical rotors with their own shaft journals to disc-shaped rotors with mounting arbors, and can master weights of up to 700 kilograms.

In addition, the intelligently designed modular system offers all users more accessories and flexibility. No matter how you use your Pasio in production or for maintenance: for individual rotors or series batches, to measure unbalances, determine their position, correct them or perform a control measurement, our solution will perfectly adapt to your requirements, every time.



Model overview

pasio 100

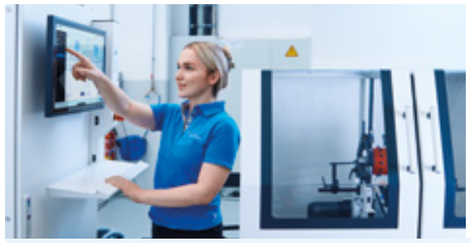
- Rotor weight: up to 100 kg
- Minimum achievable residual unbalance per plane: 0.8 gmm, 0.03 ginch

pasio 300

- Rotor weight: up to 300 kg
- Minimum achievable residual unbalance per plane: 1 gmm, 0.04 ginch

pasio 700

- Rotor weight: up to 700 kg
- Minimum achievable residual unbalance per plane: 1.5 gmm, 0.06 ginch



Advantages at a glance

Ease of use and navigation, good accessibility, simple and intelligent design of control elements and scales for exact positioning and precise retrieval of setup positions support the reconfiguring process and increase the efficiency of the production process.

More efficiency

- Uses the latest software, Schenck ONE, with all its advantages.
- Automatically approaches individual rotor-specific speed using precise speed control.
- Highly precise measurement.
- Designed for a long machine life.
- Schenck dynamometers and vibration transducers enable immediate balancing of rotors with large initial unbalances at the desired balancing speed.
- Permanent calibration, no calibration runs required (force measuring principle).

More user-friendliness

- Large, clear touchscreen (24") with flexible height adjustment.
- Revised, extremely easy to use control panel.
- Lower control cabinet for improved visibility.
- Improved machine accessibility in connection with the C-guard device.
- Automatic measuring cycle selectable with rotor type-specific parameterization.
- Manual turning-in with software support (visual turning-in aid on the monitor).

More flexibility

- Easy machine setup for different rotor types due to precise adjustment elements and revised scales.
- Optimized, compact pneumatics control unit for belt tension.
- Shortened delivery times for the machine and all spare parts.

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 information 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. Pasio 100, Pasio 300, and Pasio 700 offer 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.)

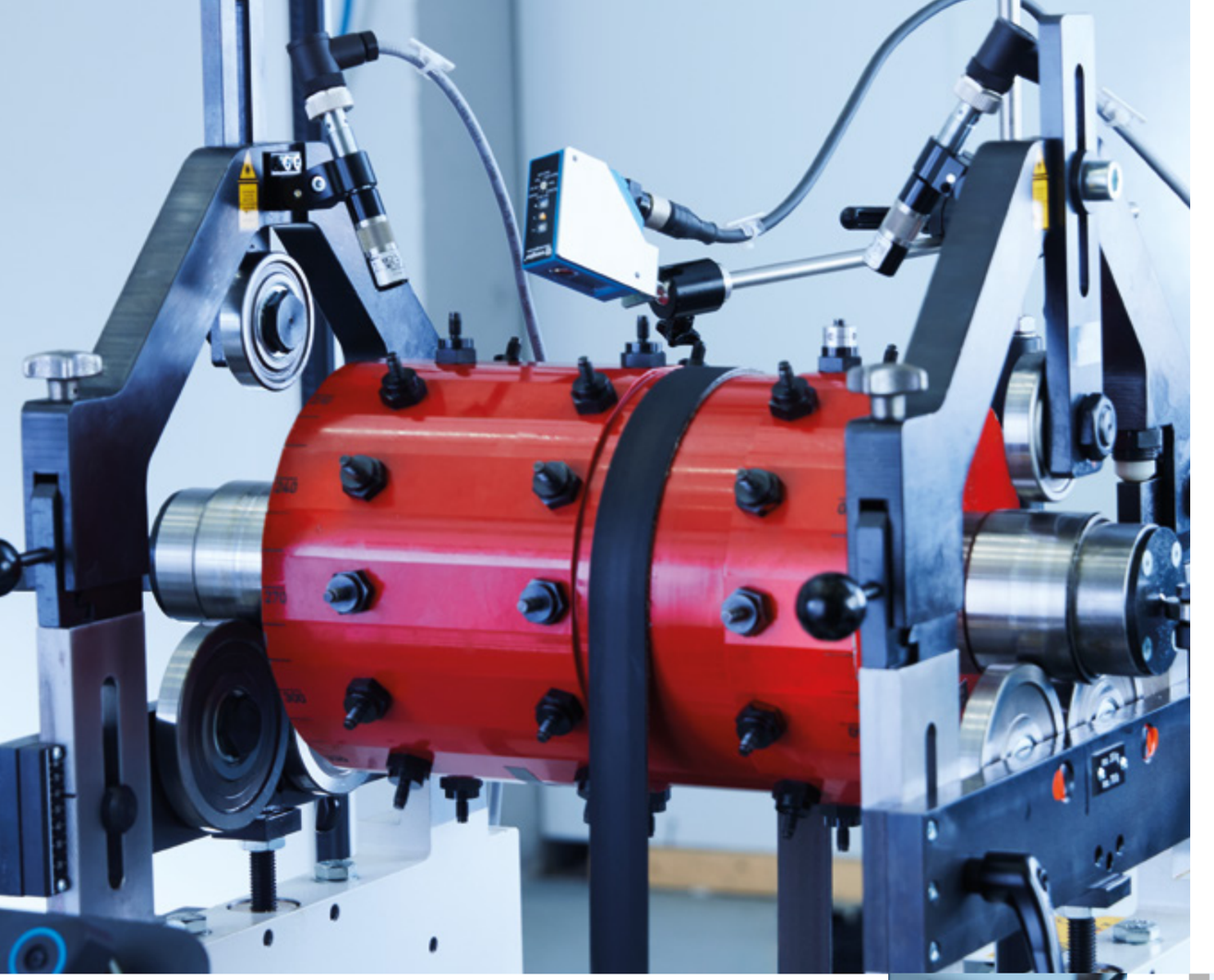
Machine Center

- 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.



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.

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.

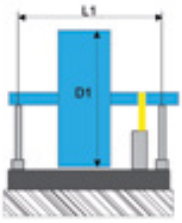
In emergencies, our 24-hour hotline with guaranteed response time ensures the highest possible availability of your system. Our global service team, with over 200 technicians, supports you on site around the world and can procure any necessary spare part in the shortest possible time.

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

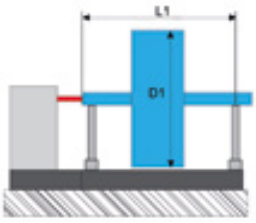
The Service+ app enables fast identification and resolution of errors and faults, since your service requests can be created quickly and easily. Moreover, the Schenck ONE software solution also gives you an overview of the maintenance status of your Pasio machines at all times and you can contact us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

Technical data

	Pasio 100	Pasio 300	Pasio 700
Rotor dimensions			
Rotor weight [kg]	100	300	700
Diameter D1	800 (1260) mm, 31.5 (49.6) inch, dependent on guard device		
Rotor length	1500 (2500) mm, 59.1 (98.4) inch		
Bearing journal diameter [mm]	9 – 70	9 – 70	10 – 80
[inch]	0.3 – 2.8	0.3 – 2.8	0.4 – 3.2
Bearing journal diameter optional [mm]	70 – 140	70 – 140	80 – 160
[inch]	2.8 – 5.5	2.8 – 5.5	3.2 – 6.3
Bearing center distance L1 [mm]	BU: 1280 (2280) U: 690 (1690)		
[inch]	BU: 50.4 (89.8) U: 27.2 (66.5)		
Minimum achievable residual unbalance per plane [gmm]	0.8	1.0	1.5
[ginch]	0.03	0.04	0.06
Rotor drive	Belt (BU, BK), Universal joint drive (U)		
Frequency-controlled drive power [kW]	Belt: 3.0, Universal joint drive 5.5		
Machine data			
Power supply	400 V ± 10 %, 50/60 Hz, 3 Phases		
Paint	Signal white RAL 9003, Anthracite gray RAL 7016		
Class B protection according to ISO 21940-23	Protection against contact with rotating parts		
Class C protection according to ISO 21940-23	Protection against flying parts		
Options			
Position indicator for unbalance correction	Line projection		
Magnetized rotors	Shielded sensors		
Rotor fixation for unbalance correction	Drive motor with holding brake		
Test rotors	ISO, Level A (Standard, Level B)		
Machine certification	Level A		



Belt drive BU/BK*



Universal joint drive U**

*BU: Universal belt drive, BK: Overslung belt drive, **U: Universal joint drive.

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 100 / 300 / 700:

DÜRR GROUP