

BASIC DEVICE

P-Series

Semi-automated testing devices

For automatic measurement of up to 5 parameters: weight, thickness, diameter (length), width and breaking force (hardness). Automatic tablet transport and orientation by using the accurate VibrALIGN or ROTO system. Intuitive operation via 7" Touch-Screen display. Modern design with 360° LED status display.

The versatile tablet hardness testing devices in the P-Series offer you the latest State-of-the Art technology, space-saving design and maximum flexibility.

8 GB internal memory (max. of 10.000 products). 32 GB internal SD card for backup of the database. Measuring range 400N (optional 40N or 800N).

Easy and user-friendly cleaning using the Clean Design Concept. Adjustment and calibration via display with flexible reminder function. Configurable printout via local USB printer, network printer and/or on USB stick (PDF file). Export function via LAN (PDF file) available as standard.



Pic.: P-Series basic device



Pic.: P-Series easy and quick cleaning

MEASURED PARAMETERS

-  HARDNESS
-  LENGTH / DIAMETER
-  WIDTH
-  THICKNESS
-  WEIGHT

ADVANTAGES

- + Batch report included
- + 5 parameters incl. weight
- + Very user-friendly
- + Modularly expandable
- + "Plug & Play"-modules
- + Sensor – supported menu navigation
- + Integrated 360° -LED status display
- + Automatic positioning of tablets
- + Clean Design Concept

FUNCTIONS

- User Administration
- Printouts configurable
- Monitoring of calibration interval
- Access control
- Automatic PDF export to an USB stick
- Large product memory for up to 10000 products
- Access to charts during active test
- Plain text messages
- Fully automatic testing of all five parameters with the VibrAlign –system (P5).

OPTIONS

- License for 21 CFR Part 11 available
- License for Stop T2 weight
- License for CSV export available
- License for LIMS export (XML-File) available
- Load cells: 40N, 400N (standard), 800N
- ROTO – System (manual grooving – plate)
- Mechanical tablets (50N, 100N, 150N, 200N)
- IQ, OQ, PQ

P-SERIES

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MODEL	 WEIGHT	 THICKNESS	 LENGTH / DIAMETER	 HARDNESS	 WIDTH
P3		●	●	●	
P3+		●	●	●	
P4	●	●	●	●	
P4+	●	●	●	●	
P5	●	●	●	●	●

P3, P4 with Grooving plate

P3+, P4+ and P5 with VibrAlign system

TECHNICAL DATA

P-Series

Hardness

Measurement principle	Load measurement cell (LMZ) with strain gauge (DMS)
Measurement method	Constant speed or constant force
Measuring range	4 – 400N standard, optional 1 – 40N / 8 – 800N
Measurement accuracy	1 – 40N (+/- 0.1N) , 4 – 400N (+/- 1N), 8 – 800N (+/- 2N)
Resolution	1N at 400N / 800N range, 0,1N at 40N range
Units of measure	N / Kp / SC
Adjustment / calibration	Static, multiple points and with protocol

Diameter / Length / Width

Drive	Stepper motor
Units of measure	mm / Inch
Measuring range	2 – 22 mm*
Measurement accuracy	+/- 0.05 mm
Resolution	0.01 mm
Round tablets	2 – 25 mm*
Oblong tablets (without width measurement)	2 – 25 mm*
Oblong tablets (with width measurement)	2 – 25mm*

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TECHNICAL DATA

P-Series

Scale

Model	Sartorius
Weighing range	0.01 g – 10 g
Weighing accuracy	+/- 1 mg stable environment, +/- 2mg unstable environment
Resolution	0.1 mg

Thickness

Drive	Stepper motor
Measurement principle	Linear potentiometer
Units of measure	mm / Inch
Measuring range	1 – 12 mm
Measurement accuracy	+/- 0.05 mm
Resolution	0.01 mm

General

Touch display	7" capacitive touch-screen, resolution 800 x 400
Interfaces	3 x USB 2.0 / 1 x RJ45 LAN / 1 x RS-232
Printer port	Network- or USB-printer
Weight	15 kg Basic device
Dimensions	320 mm x 320 mm x 185 mm (approx.)

Power requirements

Main voltage primary	100 – 240 VAC, 50 / 60 Hz
Main voltage secondary	24 VDC / 5.0A, max. 120W

*In the case of special shaped tablet designs or unusual dimensions, please contact Charles Ischi AG for feasibility clarification.