

## Models P101 / P102 / P103 / P104 / P105

In combination with force gauges with internal or external sensors, **Test** testing frames become fully-fledged testing machines.

They allow reliable detection of forces and displacements (optionally) or torques and angles (optionally) when examining materials and components. They are designed to be used for force ranges up to 5000 Newton.

Potential applications include, for example, incoming / outgoing goods inspection and occasional quality control in production. These instruments are used in research as well.

In particular, actuation forces and strengths of components and devices such as springs, buttons, switches, levers, locks, etc., are measured.

### Application-specific test frames

The modular structure makes versions for all kinds of applications possible. Whether compressive or tensile forces or torques. Take advantage of our many years of experience. We will be happy to develop a test system for your specific tasks in quality assurance.



### P101

One-column test stand, preferred for the transmission of compressive forces of up to **500 Newton**.

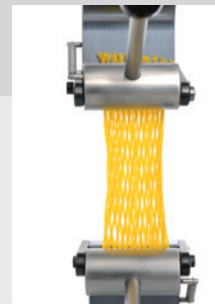
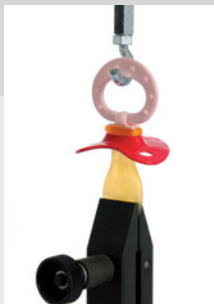
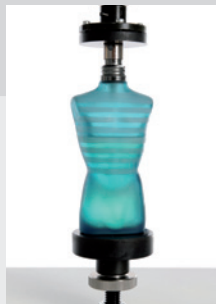
Force range	≤ 500 N
Total height	500 mm
Total width	210 mm
Total depth	285 mm
Total stroke	250 (70) mm
Width / depth of working space	100/100 (210/210) mm
Radius of action around force axis	105 mm
Crosshead length	150 mm
Crosshead bore	∅ 20 mm
Base plate bore	M8
Weight	~ 6 kg
Display for measured Stroke limit	Scale 0...70 mm
Travel limit	mechanically
Load limit	---
Drive	manual lever

## ... and what do you want to measure?

Depending on the unit under test, a wide variety of clamping and testing devices are used. A comprehensive collection of standardized clamping devices are available in our show-rooms for targeted preselection.

**Contact us!**  
**We will be pleased to Test your materials in advance or support you in the construction of a suitable testing device.**

For swift replacement of the clamps, we recommend adaptation via a quick release adapter (SP100). This makes your testing system highly flexible and quickly ready for a variety of tasks.



### P102

One-column test stand for manual transmission of compressive and tensile forces of up to **1000 Newton**. Also suitable as a basis for the positioning of torsion tests.

### P103

One-column testing device for the motorized transmission of compressive and tensile forces of up to **1000 Newton**. Integrated incremental position measurement and automatic shut-off for interruption upon reaching limits (force/stroke) available.

### P104

Two-column test stand for manual transmission of compressive and tensile forces of up to **5000 Newton**. Also suitable as a basis for the positioning of torsion tests.

### P105

Two-column testing device for the motorized transmission of compressive and tensile forces of up to **5000 Newton**. Integrated incremental position measurement and automatic shut-off for interruption upon reaching limits (force/stroke) available.

<b>Force range</b>	≤ 1000 N	≤ 1000 N	≤ 5000 N	≤ 5000 N
<b>Total height</b>	680 mm	885 mm	870 mm	870 mm
<b>Total width</b>	290 (200) mm	300 mm	590 (485) mm	485 mm
<b>Total depth</b>	300 mm	360 mm	310 mm	310 mm
<b>Total stroke</b>	495 mm	550 mm	590 mm	620 mm
<b>Width / depth of working space</b>	200/150 mm	120/110 mm	341/310 mm	345/310 mm
<b>Radius of action around force axis</b>	60 mm	57 mm	163 mm	167 mm
<b>Crosshead length</b>	60 mm	57 mm	---	---
<b>Crosshead bore</b>	Ø 14 mm	Ø 14 mm	M12	M12
<b>Base plate bore</b>	M8	M8	M12	M12
<b>Weight</b>	~ 10 kg	~ 21 kg	~ 32 kg	~ 43 kg
<b>Display for measured stroke limit</b>	Position measurement rod (optional)	electronic (optionally)	Position measurement rod (optional)	electronic (optionally)
<b>Travel limit</b>	---	0.1 mm resolution	---	0.1 mm resolution
<b>Load limit</b>	---	electronic (optionally)	---	electronic (optionally)
<b>Drive</b>	manual crank	motorized 230V / 50Hz~ / 1A 50...200 mm/min	manual crank	motorized 230V / 50Hz~ / 1A 50...200 mm/min

Subject to technical changes