



TEST SYSTEMS UP

**Modular Units
for Static and Dynamic
Testing Tasks**

- Hydraulic
- Electric

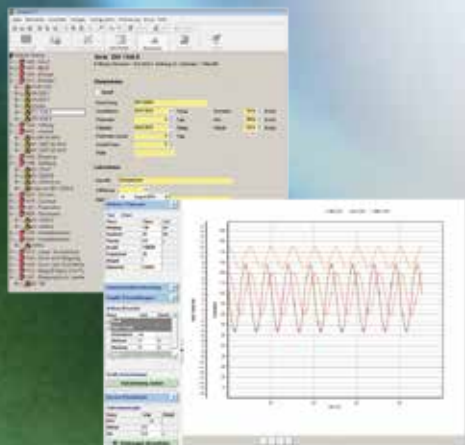
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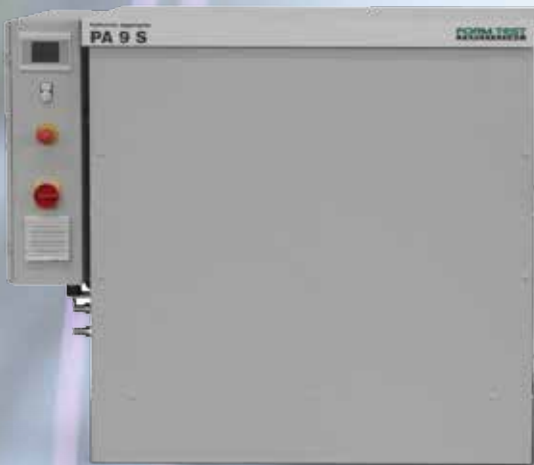


Universal Test Machine UP

Size	■ F_{nom} : 5 - 50 kN
Specimens	■ standard test pieces, components and parts in the destructive and non-destructive test range (example: metals, elastomers, composite materials)
Area of use	■ demanding static and dynamic testing in Research and Development and in quality control
Test fields	■ aviation and car industry, ship building, railway vehicles, medical technology
Application	■ static and dynamic tensile and compression tests ■ dynamic strength testing ■ cyclic testing, service load simulations
Test frame	■ closed, solid test frame in 2-column design with high stiffness ■ chrome-plated precision columns with extreme wear-resistance ■ continuously adjustable cross-head with manual clamping ■ high flexibility of adaption and fixing options ■ set-up by supported machine feet without a special bed-plate
Type of drive	■ hydraulic or electric ■ Optional assembly in the upper cross-head or in the machine base
Force measurement	■ strain gauge for tensile and compressive forces ■ Optional assembly at the piston rod or at the base plate
Options / accessories	■ hydraulic aggregate ■ broad range of specimen holders, tensioning equipment, compression plates and bending tables ■ T-slot table ■ transport devices ■ climate chambers ■ protective equipment ■ hydraulically or electromechanically adjustable lifting cylinders for the cross-head adjustment
Digital control system*	
Digital control system	■ control station RS-C30; 24-bit digital controller DIGIMAXX G-30 [®] for the fulfilment of demanding static and dynamic test requests
Software	■ „PROTEUS ^{MT} “ test software, the user-friendly operating surface for programming, execution and evaluation of static and dynamic tests

* For detailed information about our control systems please see our general catalogue PM 1000.01 or contact us.





Technical Data UP-H:

Drive:	hydraulic, 280 bar
	<ul style="list-style-type: none"> ■ test cylinder with hydrostatic bearing and integrated distance measuring system ■ a high-capacity hydraulic aggregate (9-180 l/min) is used for the fulfilment of the different performance parameters
Piston stroke:	50 - 400 mm
Adjustment way of the cross-head:	300 mm
Testing room height:	800 mm
Inner width – test frame:	440 mm
Classification:	class 1 (optionally 0.5) acc. to DIN EN ISO 7500-1; ASTM E4
Dimensions (wxdxh):	747 x 780 x 2415/3015 mm
Working height:	1000 mm
Weight:	approx. 500 kgs



Technical Data UP-E:

Drive:	electric
	<ul style="list-style-type: none"> ■ linear adjust cylinder with integrated distance measuring system
Piston stroke:	76-450 mm
Adjustment way of the cross-head:	300 mm
Testing room height:	800 mm
Inner width – test frame:	440 mm
Classification:	class 1 (optionally 0.5) acc. to DIN EN ISO 7500-1; ASTM E4
Voltage:	3x 400 Voltage, 50 Hz
Dimensions (wxdxh):	747 x 780 x 1879/2595 mm
Working height:	1000 mm
Weight:	approx. 500 kgs



Advantages of the universal test machine UP:

- universal application area for tensile and compression tests
- for static and dynamic test applications
- all-round application spectrum due to the variable test set-up (e.g. tension-torsion, multiaxial applications)
- customer-specific adjustments of the mechanical and performance-specific data are any time possible

The logo for FORM+TEST PRÜFSYSTEME features a stylized green and black square icon to the left of the text. The text 'FORM+TEST' is in a bold, green, sans-serif font, and 'PRÜFSYSTEME' is in a smaller, black, sans-serif font on a black rectangular background.

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