

Universal Testing Machine Barrus Grey 10kN

**DISA AG Sarnen**

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Applications

Unmatched precision and adaptability for demanding material testing applications with over 1000 ISO, EN, DIN, ASTM, and JIS standardized tests available.

Barrus Grey tensile testing machines offer high-precision material testing with servo-motor drive. They support tensile, compression, flexure, and stress relaxation tests, operating in extreme temperatures and customizable with advanced accessories. Integrated Ivory software ensures control and compliance with ISO and ASTM standards.

The Barrus Grey series, our standard yet robust model, is powered by a precise servo-motor drive, ensuring force measurement accuracy up to 0.5% and delivering micrometer-level displacement resolution.

Modular design

Adaptable to specialized testing needs with custom accessories such as tensile grips, compression plates, load cells, extensometers, and environmental chambers.

Mechanical & software driven safety

Features hardware end-stops, software-controlled force and position limiters, and optional plexiglass enclosures for enhanced safety.

Consistent performance

Equipped with high-performance Japanese Panasonic engines, achieving speeds of up to 1000 mm/min at maximum capacity, with customizable options for higher speeds.

European controllers

Optional dual testing spaces

Available with one or two testing areas, including custom sizes.

Affordable extra-height & extra-width options

Extra-height and width options are available at competitive prices.

European design/ Designed in Europe

European quality meeting the highest quality standards, offering the exceptional support and extended warranty.

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Technical data

General technical data for Barrus Grey

Load frame	Barrus GREY
Force capacity (kN)	10 kN
Standard height (mm)	1550
Extra height (mm)	
Standard width (mm)	800
Extra width (mm)	
Crosshead travel	yes
Vertical test space (mm)	1000
Horizontal test space (mm)	320
Maximum speed (mm/min)	1000
Minimum speed (mm/min)	0.001
Maximum return speed	500
Position control resolutions (µm)	0.3
Maximum force at full speed (kN)	10
Maximum speed at full force (mm/min)	500
Weight (kg)	160
Maximum power requirements	1kW
Control	from PC

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Specifications & Requirements

Strain measurement accuracy	0.5%
Accuracy	$\pm 0.5\%$ / $\pm 1\%$
Force measurement resolution	1/250,000
Displacement measurement resolution	1 μm
Ambient temperature	+10C° ... +35 C°
Humidity range	20% ... 90%

Power input specifications

Power supply	230V
Single phase voltage	yes
Power frequency	50/60 Hz
Humidity range	20% ... 90%