

## Universal Testing Machine Barrus RED 1000kN



## **Servo-Hydraulic System**

It is suitable for testing long samples or the samples having high strain capacity with its long range piston stroke.

### **General features**

Ideal system for testing common sized specimen with non-adjustable crosshead design.

Convenient working height and ergonomic controls improve operator productivity and comfort.

Long stroke, high speed actuator is well-suited for tension applications requiring repetitive testing of similar-sized specimens.

Anti-Rotation systems prevents actuator from rotating during stroke.

### **Load measurement**

High precision load measurement with sensitive load cell class 0.5

Load Cells can be replaced according to different load ranges to make much more accurate and sensitive measurements.

Load measurement resolution is 20 bit.

### **Hydraulic power unit**

Independent serve-hydraulic unit connected to test actuator and hydraulic grips.

Gear type low noise hydraulic pump with necessary equipment for safe operation.



## Technical data

### General technical data for Barrus RED

Load frame	Barrus RED
Force capacity (kN)	1000 kN
Standard height (mm)	3077
Standard width (mm)	1052
Standard length (mm)	760
Dimensions of Hydraulic Power Unit (mm)	650x1250x970 (WxLxH)
Vertical test space (mm)	≥700
Horizontal test space (mm)	685
Piston Stroke (mm)	>600
Maximum speed (mm/min)	100
Minimum speed (mm/min)	0.01
Resolutions	20bit
Maximum force at full speed (kN)	1000
Maximum speed at full force (mm/min)	100
Weight (kg)	2770
Control	from PC



## Specifications & Requirements

Strain measurement accuracy	0.5%
Accuracy	±0.5%
Force measurement resolution	1/250,000
Load Measuring Range:	2% - 100%
Displacement measurement resolution	1 µm
Ambient temperature	+0C° ... +40 C°
Humidity range	10% ... 90%

## Power input specifications

Power supply	380V
Power frequency	50/60 Hz

\* The pictures for illustration only. Includes optional elements. The delivered outfit may differ.





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