

## 160t / OTR Endurance Testing Machine

The world's most powerful tire testing machine



- 1 or 2 position test stand available
- 160 t max. wheel load
- 800mm - 4.600mm test-wheel-/ tire diameter
- 1.550mm max. section width
- max. section width 1.200mm
- U-shaped wheel carrier with two way guides
- different wheel spindles for various load ranges and rim patterns
- handling systems to support exchange
- quick-lock wheel spindle exchange system with hydraulic clamping
- precision load measurement in wheel spindle intakes with adapted measuring ranges 800kN / 1600kN
- bead-/ rim diameter 20" ... 64"
- 75 km/h max. speed
- 5.000mm x 1.600mm road wheel diameter x width
- high performance hydraulic direct drives for highest torque (240 kNm) and efficiency
- optical bulge catcher
- Rolling Resistance (torque-) measurement
- foldable platform hydraulic driven and positioned for
  - ink-footprint applications
  - plunger testing
- inflation pressure control system including cap test function
- tire inside/ outside temperature measurement systems
- TCP/ IP remote service connection
- compliant with the regulations for all valid standards and customizable
- state of the art operator workplace
  - fully machine function control
  - test definition, execution and standard reporting guided by a customizable GUI
  - customized GUI
  - data export for further treatment with common analysis tools.



## OTR Endurance Testing Machine

PARAMETER	Specification	Remarks
Tire Diameter Range	< 300/ 800kN: 800 ... 3.600 mm < 1.600kN: 1.400 ... 4.500 mm	
Deflection Accuracy	± 0.1 mm	
Loaded Radius (RL) Range	300 ... 2.250 mm	
RL Accuracy	± 0.1 mm	
Effective Rolling Radius (Re) Range/ Effective rolling circumference	Calculated values from rotation measurements of drum, wheel	
Re Accuracy	± 0.1 mm	
Carriage Travel Speed Loading	0,5... 20mm/s adjustable, multi- level storage	
Load Range	5...300 kN 10...800 kN 20...1.600 kN	
Load Range Accuracy	5...300 kN < ±150N/ 1,5% FS 10...800 kN < ±400N/ 1,5% FS 20...1.600 kN < 800N/ 1,5% FS	
Load Instrumentation resolution	1/32.000 FS	
Load Control accuracy	5...300 kN < ±10N 10...800 kN < ±20N 20...1.600 kN < ±40N	
Inflation pressure (Pi) regulation range	0 ... 16 bar/ 0 ... 1.600 kPa (measuring range 0...1.600 kPa)	Range1) 0...500 kPa/ Range2) ≥ 500...1.600 kPa
Pressure Instrumentation accuracy	± 0.1% FS	
Pi Control Accuracy	± 1.0 kPa	
Pi Control Capability	Cap & Control	
Rolling Resistance (RR)-measurement range	0 ... 75.000 Nm RR torque at drum	Range: 0... 75kNm 300% overload capacity
RR Accuracy	Range 0...75 kNm < 0.05% FS	

Contact us to learn more about **Altracon** ● the solution provider