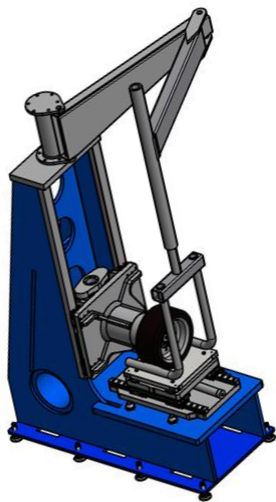


## Tire Multifunction Tester TMT PC/ LT

A combined Spring Rate-/ Load Distribution Tester and Footprint Analysis System

### Key facts

- Tire radial, lateral, longitudinal and torsional stiffness
- Loadprint/ Pressure map
- Footprint
- Loaded contour
- Bead unseating
- Plunger testing
- Pitch cut test
- Proven stiff L-shape design
- MC, PC, LT, T&B tires
- Combined spindle and hydraulic loading
- Wheel loads  $\leq 50$  kN



### Test Standards

- ASM F1971
- GBT 23663-2009, GBT 4502-2009
- SAE J2705, SAE J2704



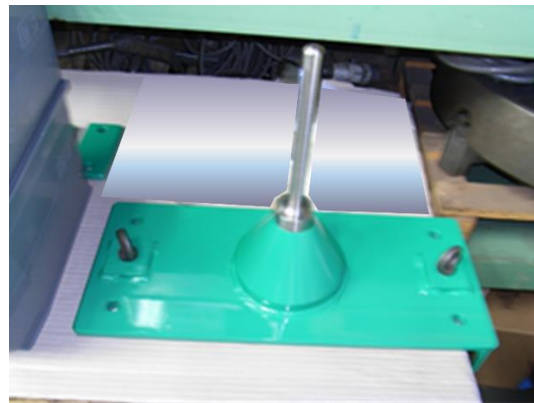
*Dynamic tire sidewall contour measurement*



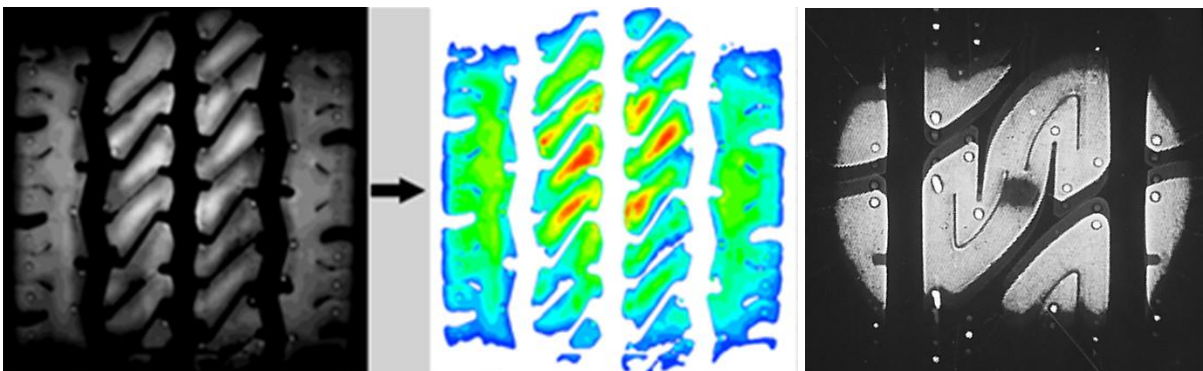
*Lateral stiffness measurement*



*Bead unseating test*



*Plunger pin unit*

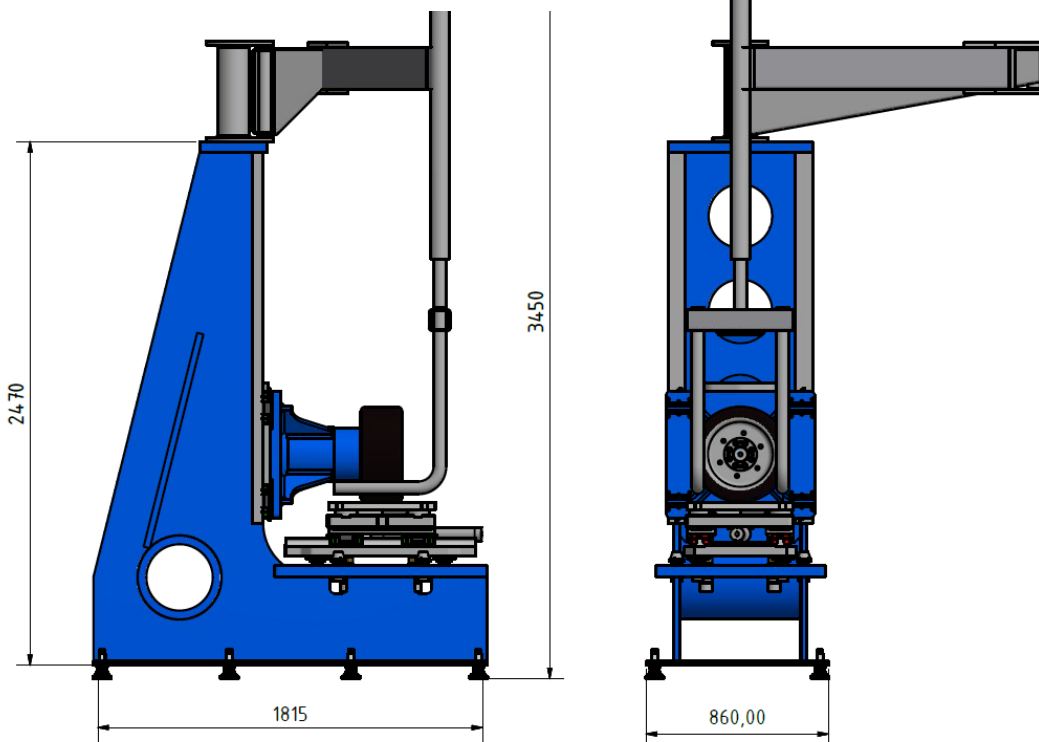
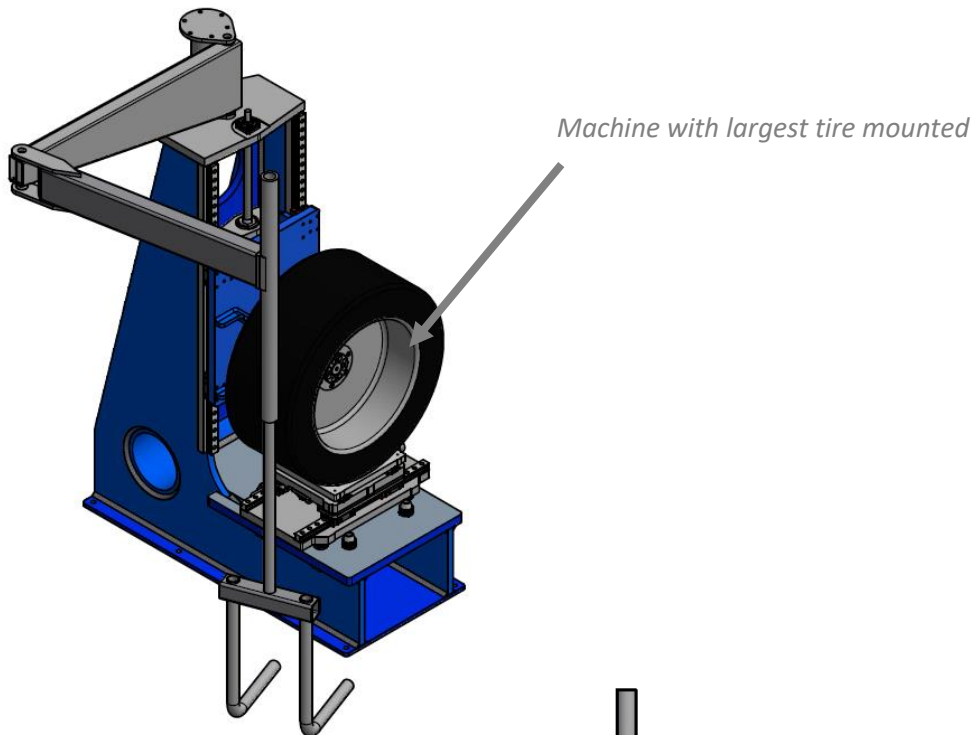


**Footprint-/ optical pressure mapping**  
*Foot-/ Loadprint Analysis example graphical report*

*Foot print deflection*

## TECHNICAL DATA

PARAMETER	SPECIFICATION
	<b>PC/ LT</b>
Tire Diameter Range	≤ 1.000 mm
Max. Section Width	450 mm
Max. Load	≤ 5000 kg
Internal Tire Pressure	0 - 6 bar
Pressure Accuracy	0.25 % of FS
Bead Diameter	≥ 10"
Ambient Temperature	0 - 45° C
Temperature Accuracy	0,1° C
Radial Force	50kN
Load Accuracy	≤ 0.5% set range load Fz (depending on measuring system)
Load plate	500 x 500mm
Ambient Temperature	0 – 45° C
Temperature Accuracy	0,1° C
Force Measurement Fz	50kN
Force Measurement Fx, Fy	20kN <i>(others on request)</i>
Force and Moment Measurement accuracies	≤ ± 0,5% set range (depending on measuring system)
Vertical positioning	Z = 700 mm/ ± 0,1 mm (200 ... 900 mm)
Vertical (radial) deflection	Z - 250 mm/ ± 0,01 mm
Longitudinal & Lateral Force Fx; Fy	± 1 N max. 20kN
Longitudinal/ lateral deflection	≤ 200 mm/ ± 0,01 mm
Longitudinal/ lateral sliding speed	variable 1 ... 100 mm/min
Torsional torque	± 5 kNm
Torsional deflection	≥ ± 15°/ ± 0,1°
Standard supply voltages	400 V (50/ 60 Hz, 3 phase)
Control Voltage	24 V
Camber adjustment (optional)	+/- 10°/ ± 0,1°



General Layout TMT PC/LT

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