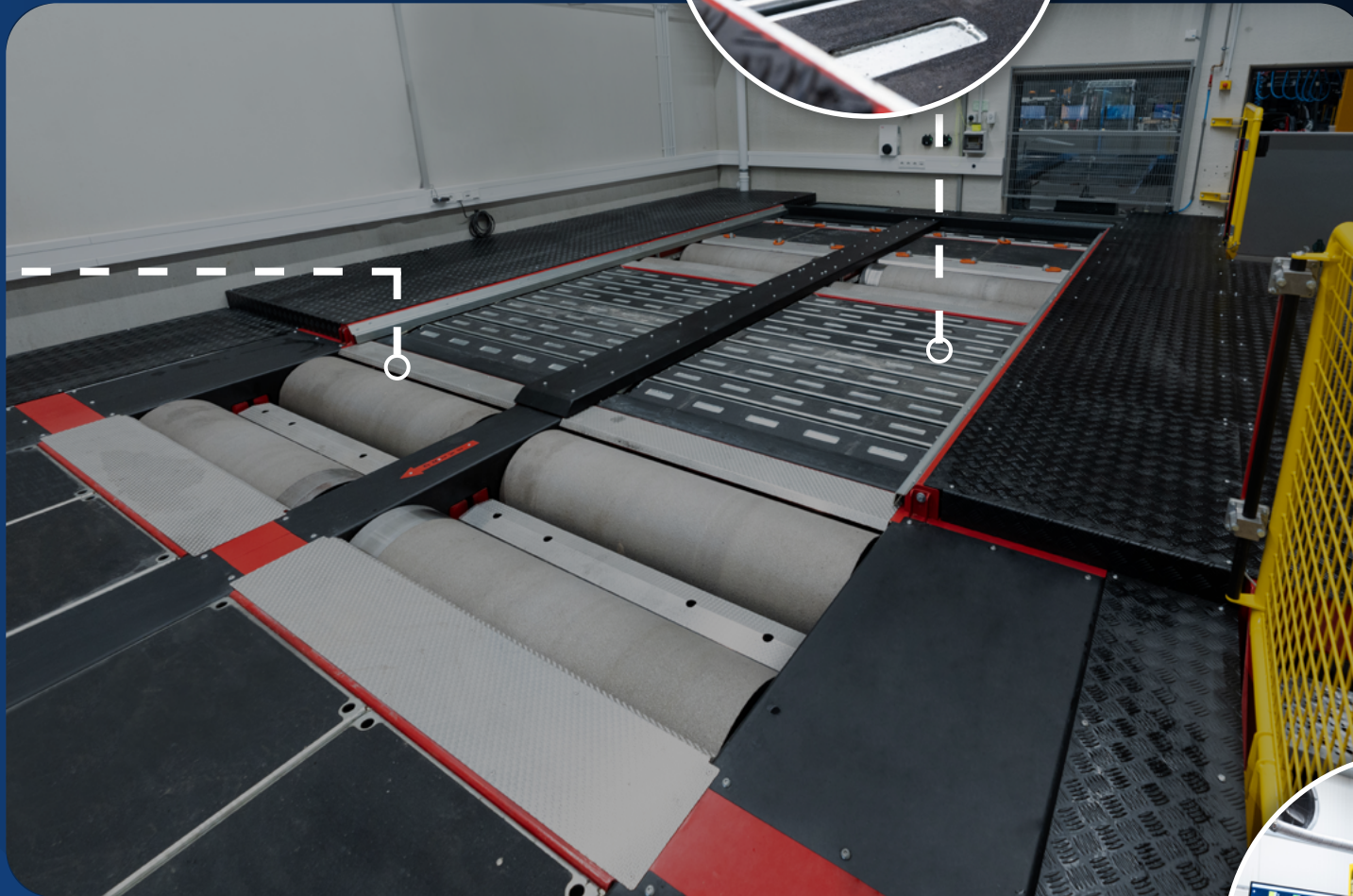




Model RC150-EOL

Automatic length adjustment
based on wheelbase data from
database, or manual input



Equipped with coated
rollers for enhanced
grip and improved
operational control,
even under
demanding conditions.

A large monitor arm enables
easy viewing of results from
inside the vehicle.



Testing at the limit and beyond... That's what we had in mind when developing our top of the line chassis dynamometer for agricultural and industrial wheel loaders.

The RC150-EOL allows you to do heavy duty testing for a whole range of vehicles. From the smallest wheel loader to the heavy duty class (up to 20ton) and all in between.

Zero speed max. traction force test, drive cycles, automated testing based on GPS data or full manual control. With the in house developed software and controls, we can easily customize the software to your requirements and needs. The RC150-EOL is suitable for R&D and EOL testing.

What you get

Technical specifications

Min. wheelbase drum top	850 [mm]
Min. wheelbase (CTC)	1450 [mm]
Max. wheelbase (CTC)	3200 [mm]
Min. track width	300 [mm]
Max. track width	3000 [mm]
Max. speed	150 [km/h]
Max. speed e-drive	50 [km/h]
Max. vehicle weight	20000 [kg]
Max. axle weight	10000 [kg]
Drum diameter	400 [mm]
Drum width	1350 [mm]
Distance between drum (CTC)	595 [mm]
Dimensions	8,15 x 4,70 x 1 [m]
Weight	14000 [kg]
Power requirements	3 x 400V + N+ PE 315 [A]
Air requirements min.	6 [bar]
Operating temperature	- 10°C to + 50°C
Humidity	max. 95%

	Total	Per axle	Per wheel
Max. retarder torque cold @ roller	21700 [Nm]	10850 [Nm]	5245 [Nm]
Max. static power cold*	1540 [kW]	770 [kW]	385 [kW]
Max. retarder torque continuous @ roller	7720 [Nm]	3860 [Nm]	1930 [Nm]
Max. static power continuous*	560 [kW]	280 [kW]	140 [kW]
Disc brake torque @ roller	24000 [Nm]	12000 [Nm]	6000 [Nm]
Brake force @ roller	120 [kN]	60 [kN]	30 [kN]
E-drive power	110 [kW]	55 [kW]	
E-drive torque @ roller	1520 [Nm]	760 [Nm]	
E-drive force @ roller	7,6 [kN]	3,8 [kN]	
Inertia	152,92 [kgm ²]	62,96 [kgm ²]	31,48 [kgm ²]

Brands we use

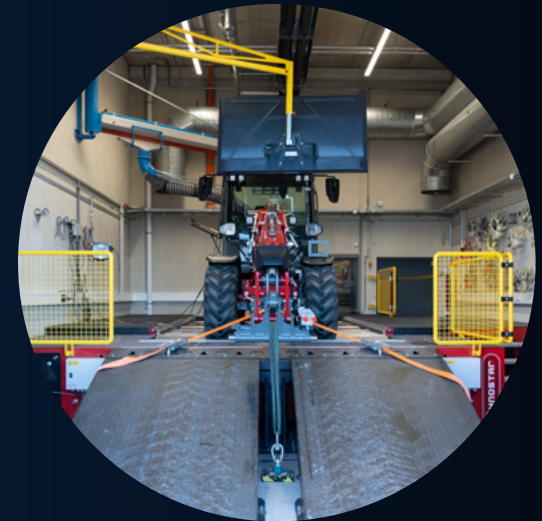
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SKF

Mechanical properties

- o 4 roller sets, each consisting of
 - o 2 interconnected rollers with carbon belts
 - o F16-GR retarder equipped with load cell
 - o Proportional controlled industrial hydraulic disc brake system with load cell
 - o Temperature controlled cooling fans
- o Tandem operation for high traction tests under zero or low speed.
- o Controllable per wheel depending on requirements
- o Switchable E-drive system for drive cycle simulation
 - o 2x 55kW electric motor
 - o Equipped with a load cell per motor
 - o Connection of rollers left-right (E-drive activation) by means of switchable coupling
 - o Operated by pneumatic cylinder, closed loop control
- o Length adjustment (manual input, or from database)
 - o Automatic length adjustment based on wheelbase data from database, or manual input
- o Driveline made of high-quality materials and components
- o Double emergency stop system according to machine directives with potential-free contacts
 - o Light curtain
 - o Walkways
 - o Audio/visual signaling
 - o Bi-directional emergency stop signaling
 - o Gas detection system (CO, CO2, HC std.)



Smart end-of-line R&D testing, built around your needs. In partnership with Dynostar, we deliver fully customized software for any dynamometer.

Software

Dyno-specific software with extensive customization options

Build your own vehicle database

Vehicle and dynamometer control based on force, torque, power or speed

Individual control of forces or parameters per wheel

Measurement and datalogging per wheel

Pre-programmed test profiles

Road cycles; Configurable road cycle profiles or based on GPS data

Traction force test; preprogrammed or custom profiles are possible

Vehicle control and datalogging via CAN

Fully automated testing

Readout and logging of both vehicle and test chassis dyno data



Control panel with emergency stop, reset, buzzer and HMI with 15.6" touchscreen

HMI

Complete overview with status of sensors and components

List of error messages and malfunctions

Load cell readout and calibration

Control panel with emergency stop, reset, buzzer and HMI with 15.6" touchscreen