

1. Specification on Landis Roll grinder type R

Max. roll diameter	:	1,550 mm
Minimum roll diameter (with new wheel)	:	525 mm
Max. distance between centres	:	7,000 mm
Number of steadies	:	2 off
Max. combined roll weight on steadies	:	55 tons
Roll speed range	:	8 – 32 rpm
Grinding wheel diameter (new size)	:	915 mm
Grinding wheel width	:	100 mm
Total machine weight	:	88 tons



The grinder as inspected under power prior to modernization.

Modernize machine

- Reconditioned the complete geometry of machine by grinding all slideways and fitting new anti-friction liners to the counter surfaces in order to align the machine to ISO standards.
- Upgraded the mechanical drivetrains of the machine by removing all existing elements and fitting new precision ground ballscrews, driven through low-backlash gearboxes to achieve CNC ability.
- Upgraded the complete electrical system of the machine, fitting new drives and motors throughout the machine and rewiring the complete machine.
- Retrofitted the machine with a new Siemens 840D CNC system.
- Lismar Eddy-current and Ultrasonic roll inspection system and integrate with CNC system.
- Single-point Vollmer profile measurement system as purchased from Remag and integrated with CNC system



The grinder following modernization.

2. **Dedicated spare parts**

- 2.1 1 off grinding spindle
- 2.2 1 set of micro-sphere spindle bearings
- 2.3 1 off full set of matched V-belts for the wheelhead spindle
- 2.4 1 off cambering axis ball screw and nut assembly with pre-installed roller.
- 2.5 4 off sets of paired white metal pads for the steadies.