

Independent Engineers Report relating to the Partially Refurbished Waldrich Roll Grinding Machine. Model WSIIa850

Scope and Method of Inspection:

Following the initial purchase of the machine, we have been directed to conduct an inspection of one Waldrich Roll Grinding machine and report any significant findings.

The work completed is designed to give a fair and balanced view of the condition of the machine and a preliminary appreciation of the scale of works required to complete the refurbishment by any potential purchasers of the machine in its present state.

The inspection took place on Monday 14th February 2022

The method of inspection used included visual inspection of all exposed parts, accessories present and within any open apertures already exposed, but excludes any components which would require dismantling of significant covers etc.

Disclaimer

We have carried out the inspection and report in good faith and with all the available information detailed above. It is the responsibility of any potential purchasers to verify the reports finding. Therefore, we cannot be held responsible or liable for anything related the reports content.

Site Visit Report:

1) Tailstock

The manual pinion drive and clamp assemblies are not present.
The quill drive assembly appears to be complete
Paintwork is in good condition
All other assemblies are complete

2) 2 x Steadies

The steadies have white metal inserts present
Clamp assemblies missing
Paintwork and the rest of the assembly is complete

3) Workpiece Bed Section

The bed ways are in excellent condition and are protected.
Paintwork in good condition

4) Workpiece Drive Headstock

Headstock appears to be complete
Paintwork in good condition

5) Workpiece Headstock Drive Motor

Motor Complete
Belt pulley has been removed and is on the workpiece bed section

6) Wheel head Carriage Bed Section

Bed sections are in exceptionally good condition and protected
Paintwork in good condition

7) Wheel Head Carriage

Long Travel worm and worm wheel drive present and in good condition, fully engaged with the drive rack

Long travel final drive gearbox is completely missing.

Action Required:

This drive will be required to be designed, gearbox and servo motor procured and fitted.
Lubrication will need to be designed and fitted

8) Wheel Head In/Out feed axis function on Carriage

The axis drive screw and nut are not fitted. The new screw and nut have been procured and ARE present.

The bearings, drive gearbox and motor are NOT present.

Action Required:

This drive will require the gearbox and servo motor to be designed, procured and fitted.
Lubrication will need to be designed and fitted

9) Wheel head cambering facility, U Axis

The axis original gearbox is present but will require replacement.

The drive motor is missing. I suspect this axis needs some more linkage parts.

Action Required:

This drive will require the gearbox and servo motor to be designed, procured and fitted.
Lubrication will need to be designed and fitted

10) Wheel Head Drive Spindle

The spindle appears to have been replaced/refurbished as there is a replacement spindle stored with the machine in addition to the one fitted. There is a wheel hub and two wheel mounts present.

11) Wheel Head Drive Motor

The motor is fitted and the pulley drives are fitted to the motor and spindle but there are no drive belts fitted.

12) Miscellaneous

Lubrication: Status uncertain, there are numerous pipes fitted and look in good condition. The pump and control are missing.

Action: Design, procure and fit new pump.

Telescopic Covers: Appear to be complete and refurbished, in good condition.

Electrical Control, Panel, Circuit Hardware: Not Present

Action: Design, procure and fit

Coolant: Not-Present

Action: Design, procure and fit

Levelators: There appear to be a complete set of levelators with the machine.

Summary:

This machine has undergone a partial mechanical refurbishment.

The work appears to have been done to a high standard with all the major component parts and particularly the bed ways being in very good condition and present.

The machine needs all the axis drives to be designed, procured and fitted

The machine needs all aspects of electronic and electrical control to be designed, procured and fitted.

The machine needs all coolant and lubrication requirements to be assessed and solutions designed, procured and fitted.