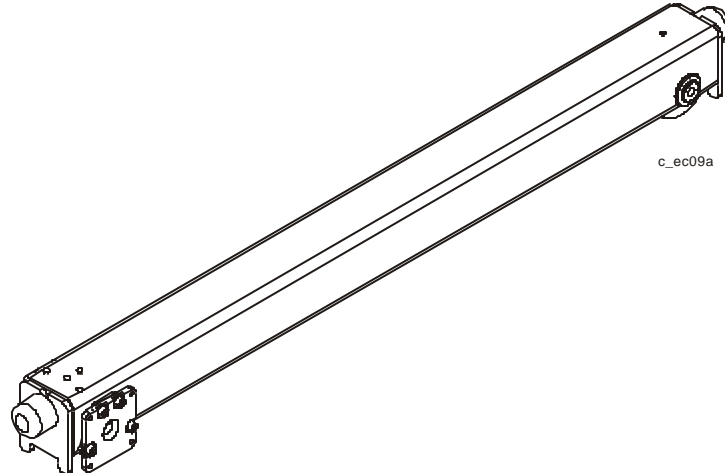




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2 End Truck RT09/RT11/RS11/RT14/RS14



2.1 General

End trucks are designed to carry the crane or hoist as a pair. Any other kind of use must be designed case by case. The end truck is suitable for both indoor and outdoor use.

2.2 Main components

One of the main components of end truck is the wheels. The standard end truck is equipped with a drive wheel and an idler wheel, two drive wheels can be furnished on the truck when needed.



Wheels are prealigned at the factory and cannot be realigned in the field.



Any welding near the wheels may affect the wheel alignment.

2.3 Assembling the end truck



Ensure that the working area is safe.

- Align and square the main girder to the end truck. Measure the cross length at the holes that are located on the top surface of the end truck above the wheels or at the pin holes in joint plate.
- The outer flange of the wheels is machined and can be used for measuring the rail gauge (span).
- The joint plate can be aligned and welded to the main girder when it is separated from the end truck.



If the joint plate has been removed from the end truck, make sure that all parts such as the friction rings, support plates are properly reinstalled before tightening the bolts and using the crane.

- Tighten the joint plate bolts to the recommended tightening torque. (see 'Recommended tightening torques' section).



The joint plate bolts are hand-tightened at the factory and must be properly tightened when building the crane.



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2.4 Inspection and service procedure for end truck

The following inspections and servicing procedures must be performed at regular intervals. See 'Inspection and servicing intervals' section for the inspections and servicing schedule.

- Check the tightness of the bolts on the end truck.
- Check the wheel for excessive wear.



Some wearing on the wheels is normal. If wearing of the wheels affects the movement of the crane, replace the wheels.

- The wheel bearings (RT09-RT/RS14) are permanently lubricated with grease and do not need additional lubrication..

2.5 Removing and replacing the drive wheel



Ensure that the working area is safe and the crane cannot be started accidentally when servicing. Be sure to switch off and lock out power at the main switch to avoid an electrical hazard.

- Disconnect the power supply plug from the motor.
- Remove the mounting bolts from the drive.
- Remove the drive from the end truck.
- Jack up the end truck to lift the wheel off the rail.
- Remove the bearing housing from each side of the end truck.
- Remove the wheel from under the end truck.

2.6 Removing and replacing the idler wheel



Ensure that the working area is safe and the crane cannot be started accidentally when servicing. Be sure to switch off and lock out power at the main switch to avoid an electrical hazard.

- Jack up the end truck to lift the wheel off the rail.
- Remove the retaining rings from shaft.
- Make sure the support sleeves and shimming washers do not drop out when removing the rings.
- Pull out the shaft from end truck.
- Remove the wheel from under the end truck.

2.7 Inspection and servicing intervals

The inspection and servicing interval for the end truck is 12 calendar months for a crane in an 8-hour per day, 5-day per week work period, under normal environmental conditions (free from excessive dust, moisture, and corrosive fumes). The inspection and servicing intervals of the end trucks could be defined by Safe Working Periods (SWPs) if it is being monitored. If the Safe Working Periods (SWPs) is being monitored, then the servicing interval must always be carried out at the end of the Safe Working Period (SWP%) of the crane or hoist, or by the end of the stated number of calendar months, whichever comes first. If the end trucks are being used intermittently, they should be inspected before being used again.



If the duty is heavier, or the environment severe, service intervals should be shortened and more frequent.



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Only authorized or adequately-trained personnel may carry out service or repair work. If any defects or abnormalities are observed, they must be investigated and corrective action must be taken in accordance with the instructions.