

OPERATOR GREASING REFERENCE · MODEL SPECIFIC

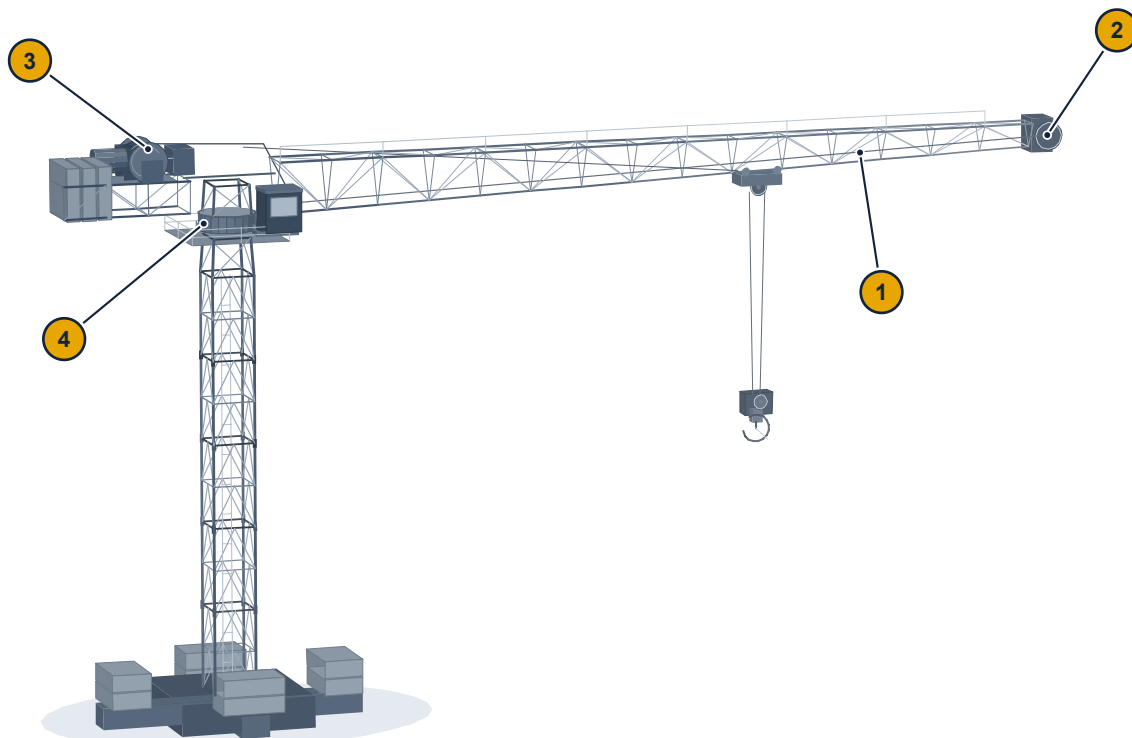
R275-12RB greasing

Saddle-jib tower crane. This is the only maintenance the crane operator carries out. Everything else on this machine is done by QnQ's crane technician.

Before you start

Most of these points are up the crane, so this is work at height and the usual fall protection applies. Isolate the crane first — nothing gets greased while it is working.

If a point cannot be reached safely, leave it and tell QnQ. We will do it on the next visit.



- 1 Hoist rope (runs the length of the jib) · 2 Rope pulleys / jib head · 3 Winch drum, on the counter-jib · 4 Slewing ring

The manual has no lubrication-point drawing, so QnQ drew this locator. **Not to scale.** The jib and counter-jib are in the right proportion to each other (4.9:1, measured off Fig. 6-1 in the manual) and the jib type is correct, but mast height, section size and jib length are indicative. Three of the four positions — the slewing ring, the winch on the counter-jib and the jib head — match where ZOOMLION place those mechanisms in Fig. 6-1. The hoist rope runs the whole length of the jib, so its marker shows the rope, not a spot. The other four greasing points are listed below by component — ask QnQ if you cannot find one.

What you do: the greasing below, at the intervals shown, recorded in Datum.

What you do not do: adjustments, torque checks, oil changes, wear measurements, brake work, or anything needing a tool other than a grease gun. Those are QnQ's. If something looks wrong — a dry rope, a nipple that will not take grease, a noise, play in a bearing — **write it in the log and call QnQ**. Do not attempt a repair.

1 Wire ropes — hoisting and trolley

WEEKLY

Grease: Graphite calcium-based grease ZG-SSY1405-65

Clean the rope first, then spray. A rope that is dry or furred takes grease badly, so cleaning is part of the job, not optional.

ZOOMLION R275-12RB manual • Table 6-1 (1)

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2 Rope pulleys

WEEKLY

Grease: Winter: calcium-based grease ZG-2. Summer: calcium-based grease ZG-5.

Two different greases depending on the season — check which one you are holding before you start.

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3 Winch drum bearing

WEEKLY

Grease: Calcium-based grease

Grease until you see fresh grease at the seal.

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4 Slewing ring — raceway and tooth surface

EVERY 100 OPERATING HOURS

Grease: Raceway: 2# extreme-pressure lithium base grease. Tooth surface: graphite calcium-based grease ZG-S.

Two different greases on the one component. Pump grease in while the slewing mechanism turns SLOWLY, so it fills evenly, and keep going until grease squeezes out of the seal — that is how you know the old grease has been pushed out. Clean debris off the exposed tooth surface first. Shorten the interval in rain, damp, dust, big temperature swings or continuous work. After the crane has stood idle a long time, put plenty of fresh grease in before working it.

ZOOMLION R275-12RB manual • §6.7

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5 Travel gear — wheel bearings and inside faces of the flanges

MONTHLY**Grease:** Calcium-based grease

Travelling cranes only. Skip if the crane is on a fixed base.

ZOOMLION R275-12RB manual • Table 6-2

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6 Anti-twist device bearing

EVERY 6 MONTHS**Grease:** Molybdenum disulfide calcium-based grease ZG-1

A different grease again — molybdenum disulfide, not the calcium greases used elsewhere. The manual lists this point but does not set an interval for it, so QnQ has put it with the 6-monthly nipple round.

ZOOMLION R275-12RB manual • Table 6-1 (6)

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7 Rope roller — pulley shaft

EVERY 6 MONTHS**Grease:** Above -10°C : 2# sodium-based grease. Below -10°C : thin grease oil.

Another seasonal one, and a sodium-based grease rather than calcium. Interval is QnQ's, with the 6-monthly round.

ZOOMLION R275-12RB manual • Table 6-1 (7)

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8 All lubricating nipples

EVERY 6 MONTHS**Grease:** As per Table 6-1 for that point

Work round every nipple on the crane. If one will not take grease, stop and report it — a blocked nipple means the bearing behind it is running dry.

ZOOMLION R275-12RB manual • Table 6-2

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Where this comes from. Every grease type, interval and method above is taken from the ZOOMLION manual for this model — Table 6-1 and Table 6-2. The greases are **not** the same on QnQ's two cranes, which is why this form is per machine. Do not work from the other one.

If in doubt, ask. QnQ Solutions Ltd • qnqsolutions.ca

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