HYODO YUSHI TMO150 20L

Evidence-led gearbox-oil handling guide

PRODUCT SCOPE

TMO150 20L is the 20-liter package identity requested for this product record. ABB official material describes TMO 150 as lubricating oil and documents the Kyodo Yushi TMO 150 name in robot gearbox maintenance procedures.

Verified facts

Product role	Robot gearbox lubricating oil
Package identity	20 L, from the complete requested model
ABB product family wording	TMO150 oil (10 or 20L)
Manual wording	Kyodo Yushi TMO 150
Documented service contexts	IRB 6660 axes 2/3 and IRB 7600 axes 4/5/6 procedures
Critical handling rule	Do not mix with other oil types in the cited IRB 6660 procedure

Verified related ApterPower product pages

- ABB TMO150 oil 3HAC032140-004
- ABB DSQC639 3HAC025097-001
- ABB DSQC609 3HAC14178-1
- ABB 3HAC043569-004
- ABB DSQC332
- ABB DSQC223 YB560103 BD/4

Pre-work verification

Confirm the robot-specific instruction before opening any oil circuit

1 IDENTIFY

Record TMO150 20L, the complete container label, batch marking and the installed robot model.

2 MATCH

Use the current maintenance manual for the exact robot, axis and gearbox; do not transfer a value from another robot family.

3 ISOLATE

Turn off electrical power, hydraulic pressure and air pressure before entering the robot working area.

4 PREPARE

Provide clean filling equipment, a suitable collecting vessel and the approved tools for the host procedure.

5 SEGREGATE

Prevent mixing TMO 150 with another oil type and keep filling equipment free from cross-contamination.

6 DOCUMENT

Record the planned quantity, plug locations, specified torque, responsible technician and acceptance criteria.

Release gate

Do not start work if the robot model, axis, lubricant label or applicable maintenance instruction is unresolved. A TMO150 20L container identity alone does not establish the gearbox quantity, plug torque or service motion.

Verified related ApterPower product pages

- ABB TMO150 oil 3HAC032140-004
- ABB DSQC639 3HAC025097-001
- ABB DSQC609 3HAC14178-1
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IRB 6660 procedure boundary

Axes 2 and 3 gearbox oil change - host-specific workflow

Sequence documented by ABB

- Apply the manual's danger instruction and isolate electrical, hydraulic and air supplies.
- Identify the filling, draining and ventilation plugs for the applicable axis gearbox.
- Position an oil collecting vessel, remove the drain plug and allow the old oil to drain as instructed.
- Remove the filling plug and ventilation plug where the procedure requires them.
- Do not mix Kyodo Yushi TMO 150 with other oil types.
- Refill with the documented oil; the manual states that refill quantity depends on the amount previously drained.
- Refit the filling and ventilation plugs and apply the torque stated by the IRB 6660 procedure.

IMPORTANT BOUNDARY

The 24 Nm plug torque stated in the IRB 6660 manual belongs to that robot procedure. It is not a property of TMO150 20L and must not be copied to another robot or gearbox without its exact maintenance instruction.

Verified related ApterPower product pages

ABB TMO150 oil 3HAC032140-004

ABB DSQC639 3HAC025097-001

ABB DSQC609 3HAC14178-1

ABB 3HAC043569-004

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IRB 7600 flushing context

Documented use of TMO 150 for a contaminated gearbox

OFFICIAL MAINTENANCE CONTEXT

The IRB 7600 manual lists Kyodo Yushi TMO 150 for flushing primary gears of axes 4 and 5 and the gearbox of axis 6 after contamination with another oil type. This is a robot-specific maintenance example, not a universal fill quantity.

Procedure facts retained as host-specific

Oil amount	700 ml for each gearbox and each flush
Flush count	Three flushes required
Affected drives	Primary gears axes 4 and 5; gearbox axis 6
Service motion	Axis motions are used to support the documented drain-and-flush process
Drain control	Both filling and draining plugs are opened as specified; residual oil is removed according to the axis procedure
Tool cleanliness	Oil-handling equipment must be kept suitable for the documented oil and contamination-control task

TRANSFER RESTRICTION

Do not use the IRB 7600 quantities, motion ranges or flush count for another robot. Confirm the current manual, robot serial context and service instruction first.

Verified related ApterPower product pages

- ABB TMO150 oil 3HAC032140-004
- ABB DSQC639 3HAC025097-001
- ABB DSQC609 3HAC14178-1
- ABB 3HAC043569-004
- ABB DSQC332
- ABB DSQC223 YB560103 BD/4

Completion and release

Close the maintenance record before returning the robot to service

Acceptance checklist

- Confirm the correct TMO150 20L container and retained batch/label record.
- Verify the robot-specific fill or flush quantity against the current approved manual.
- Confirm every filling, draining and ventilation plug is refitted as instructed.
- Inspect the serviced gearbox area for leakage and foreign material.
- Complete any specified service motion or controlled axis test within the approved work envelope.
- Record the oil used, quantity, date, technician, robot identity and final inspection result.

Verified related ApterPower product pages

ABB TMO150 oil 3HAC032140-004

ABB DSQC639 3HAC025097-001

ABB DSQC609 3HAC14178-1

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Talk to Apter Power

WHATSAPP / PHONE +86 180 3023 5313

EMAIL sales13@apterpower.com

WEBSITE www.apterpower.com