

ABB 3HAC032140-004

TMO 150 Lubricating Oil

ABB 3HAC032140-004 is the 10 L type designation for TMO 150 lubricating oil supplied for controlled ABB Robotics maintenance where the applicable product manual specifies this lubricant.

IDENTITY SNAPSHOT

H1 ABB Robotics spare-part identity	H2 TMO 150 lubricating oil
H3 10 L ABB type designation	H4 Maintenance-controlled consumable

System position

1	Applicable ABB robot manual
2	Specified TMO 150 maintenance task
3	3HAC032140-004 oil package
4	Recorded fill and post-service inspection

Document boundary

This dossier uses exact-model evidence and clearly identified family context. Unsupported values are intentionally left for nameplate, project-record or revision-manual verification.

Evidence and release scope	
Exact identity: ABB 3HAC032140-004	Primary evidence: ABB Robotics spare-parts page for 3HAC032140-004
Supporting evidence: ABB product listing: TMO150 oil, ABB type designation 10L	Purpose: support controlled identification, preparation and acceptance without transferring sibling-model data.

Architecture and interface control

ABB 3HAC032140-004 is the 10 L type designation for TMO 150 lubricating oil supplied for controlled ABB Robotics maintenance where the applicable product manual specifies this lubricant.

SYSTEM FLOW

1	Applicable ABB robot manual
2	Specified TMO 150 maintenance task
3	3HAC032140-004 oil package
4	Recorded fill and post-service inspection

Interface map

Container label	Complete 3HAC032140-004 and TMO 150 identity
Maintenance instruction	Defines the robot, axis or gearbox position and required quantity
Dispensing equipment	Clean, lubricant-compatible equipment reserved for the specified oil
Service documentation	Records batch identity, quantity, date and post-service inspection

Engineering rule

Use the full ABB 3HAC032140-004 identity in drawings, spares records and acceptance evidence. A similar family code is not proof of interchangeability.

Engineering questions to close

- Installed assignment: confirm the physical location and functional duty against the controlled drawing.
- Energy boundary: identify all electrical, mechanical, process or stored-energy sources.

- Interfaces: verify every connected device, termination and selector state before work.
- Return-to-service boundary: agree the expected states, tests and sign-off authority in advance.

Verified engineering data

Values below are limited to the reviewed exact-model or directly applicable manufacturer-family evidence.

ABB part number	3HAC032140-004
Product type	Lubricating oil
Lubricant designation	TMO 150
ABB type designation	10L
Catalogue area	ABB Robotics spare parts
Package selection	Match the exact part number and container designation
Compatibility basis	Applicable ABB robot product manual
Service record	Record quantity dispensed and maintenance position

CHANGE CONTROL

Record Capture the complete nameplate, revision and installed position.	Compare Check replacement hardware against project and service records.
Protect Apply the documented power-isolation and ESD procedure.	Prove Complete a model-specific functional test before release.

Configuration-control record	
Nameplate record: model, suffix, revision and label condition.	As-found record: position, connections, settings and fault indication.
Source record: manufacturer document title, revision and applicable section.	As-left record: measured results, restored configuration and outstanding actions.

Service logic

Use evidence in sequence; do not skip directly from a fault symptom to part substitution.

1	Capture symptoms and existing status
2	Verify power, wiring, slot and surrounding system
3	Test 3HAC032140-004 against the exact service procedure
4	Replace only after the module is isolated as the cause
5	Commission and archive results

Model-specific precautions

1 Confirm that the applicable ABB product manual specifies TMO 150 before opening 3HAC032140-004.	2 Match the complete 3HAC032140-004 label and 10L type designation to the work order.
3 Do not mix TMO 150 with another oil unless the ABB maintenance instruction expressly permits it.	4 Isolate robot power and stored mechanical energy before entering the service zone.
5 Use clean, lubricant-compatible dispensing tools to avoid contamination.	6 Drain and fill only at the plugs and robot position stated in the applicable product manual.

Acceptance evidence to capture

- Visual acceptance: correct identity, secure mounting, intact connector or container condition.
 - Protection acceptance: alarms, interlocks and fail-state response are confirmed.
- Functional acceptance: expected sequence, status, signal or service result is demonstrated.
 - Documentation acceptance: evidence is dated, attributable and stored with the maintenance record.

Decisions and Apter Power support

What is ABB 3HAC032140-004? It is ABB's 10 L type designation for TMO 150 lubricating oil in the Robotics spare-parts catalogue.	Which lubricant designation applies to ABB 3HAC032140-004? The exact lubricant designation is TMO 150.
What container designation is listed for ABB 3HAC032140-004? ABB lists the type designation as 10L.	Can ABB 3HAC032140-004 be used in every ABB robot gearbox? No. Use it only when the applicable robot product manual specifies TMO 150 for the exact maintenance position.

Apter Power verification record

Model identity	Keep the complete ABB model code and every suffix in purchasing, installation and acceptance records.
Verification boundary	Confirm the physical nameplate, installed position and revision-controlled project documents before field work.
Apter Power support	Use the contact details and Apter Power website links in this document for product and sourcing support.

Related Apter Power references	Scope note
ABB 3HAC028017-003 gearbox with motor	Portfolio reference only; verify compatibility independently.
ABB 3HAC044361-003 robotics spare	Portfolio reference only; verify compatibility independently.
ABB Robots product catalog	Portfolio reference only; verify compatibility independently.



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