

ABB

3HAC061275-001

Axis-3 Drive Unit

ABB 3HAC061275-001 is a SafeMove 2-supported axis-3 drive unit for an IRB 1200 Type B robot. It combines the axis-3 gearbox, an AC motor with resolver interface, the motor adapter and O-ring 3HAC048939-002.

System position

Robot family	Execution	Robot axis	Safety support
IRB 1200	Type B	Axis 3	SafeMove 2

Controlled drive assembly

For an ABB 3HAC061275-001 replacement, the installed IRB 1200 Type B keeps its controlled axis-3 mechanical drive path. The service sequence ends with recalibration and a first test run under the documented safety procedure.

IDENTITY / RESOURCE	DOCUMENTED VALUE
Exact article number	3HAC061275-001
Spare-part type	Axis-3 drive unit
Robot family	IRB 1200
Robot variant	Type B
Safety-function support	SafeMove 2
Gear component	Axis-3 gearbox
Motor type	AC motor

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Assembly interfaces

Mechanical drive chain

The assembly restores the axis-3 gearbox and motor path. The gear unit and motor adapter require supported handling because they are not screwed together during removal.

Motor and feedback

The included AC motor uses a resolver interface. Retain the connector identity and routing before removal, then restore the axis-3 motor connections after refitting.

Sealing interface

Inspect O-ring 3HAC048939-002 and replace it if damaged. Clean the mating surfaces and apply the documented flange sealing where the service instruction requires it.

Fastener control

Use the documented M4x40 drive-unit screws and tighten them to 4.2 Nm. Record completion before the robot is recalibrated.

Interface control record

CONTROL BAND	VERIFICATION
Mechanical	Upper-arm support, guide pins and seating
Electrical	Axis-3 motor connectors and 24 V brake release
Feedback	Resolver interface and retained connector layout
Release	Recalibration and controlled first test run

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Technical resource bands

Only values tied to the exact article number or its documented IRB 1200 Type B service procedure are listed.

PARAMETER	VALUE	PARAMETER	VALUE
Exact article number	3HAC061275-001	Included O-ring	3HAC048939-002
Spare-part type	Axis-3 drive unit	Upper-arm guide pin	3HAC049705-001
Robot family	IRB 1200	Guide-pin quantity	Three used together
Robot variant	Type B	Lifting support	2 m roundsling, 100 kg capacity
Safety-function support	SafeMove 2	Brake-release supply	24 V DC
Gear component	Axis-3 gearbox	Drive-unit screw	M4x40
Motor type	AC motor	Drive-unit screw torque	4.2 Nm
Feedback interface	Resolver interface	Calibration basis	Retain the factory calibration method
Included adapter	Motor adapter		

Identity decision

Accept only the complete ABB 3HAC061275-001 marking for the documented IRB 1200 Type B position.

Service decision

Retain the calibration method, support the arm, keep the three guide pins together and follow the documented isolation sequence.

Release decision

Reconnect the axis-3 motor interfaces, recalibrate and complete the first test run under the robot safety requirements.

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Service sequence and acceptance

1. Preserve calibration evidence

Select the required routine and create reference values before repair where the procedure requires it.

2. Establish the safe state

Jog all axes to zero, isolate every documented energy source and prove the work boundary safe.

3. Support and guide the arm

Use suitable lifting equipment and all three guide pins 3HAC049705-001 together.

4. Remove and refit the unit

Protect the loose gear-unit and motor-adapter relationship, inspect the O-ring and restore the fasteners.

5. Restore interfaces

Reconnect axis-3 motor connectors and inspect routing, seating, shielding and surrounding hardware.

Acceptance record

6. Recalibrate and test

Use the retained factory calibration method and complete the safety-controlled first test run.

CHECK	REQUIRED RESULT
Identity	3HAC061275-001
Mechanical	Guide pins removed; O-ring and fasteners verified
Calibration	Factory method retained and axis 3 recalibrated

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Engineering decisions

What is ABB 3HAC061275-001 used for in an IRB 1200?

It is the SafeMove 2-supported axis-3 drive unit for an IRB 1200 Type B robot.

Which parts are included in ABB 3HAC061275-001?

The documented assembly includes the axis-3 gearbox, AC motor with resolver interface, motor adapter and O-ring 3HAC048939-002.

Which IRB 1200 execution accepts ABB 3HAC061275-001?

The product manual identifies this drive unit for the IRB 1200 Type B execution, which supports SafeMove 2.

What motor feedback interface does ABB 3HAC061275-001 use?

Its AC motor uses a resolver interface.

Which O-ring is documented with ABB 3HAC061275-001?

O-ring 3HAC048939-002 is included; inspect it and replace it if damaged before refitting.

How is the upper arm guided during ABB 3HAC061275-001 replacement?

Use all three guide pins 3HAC049705-001 together and support the arm with the documented lifting equipment.

Related Apter Power robot products

[ABB 3HAC043569-004 — View product page](#)

[ABB DSQC639 3HAC025097-001 — View product page](#)

[ABB DSQC609 3HAC14178-1 — View product page](#)

Evidence: ABB Product manual - IRB 1200, 3HAC046983-001, revision AG; exact ABB search classification Spare Parts (IRB 1200).

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