

Service Manual

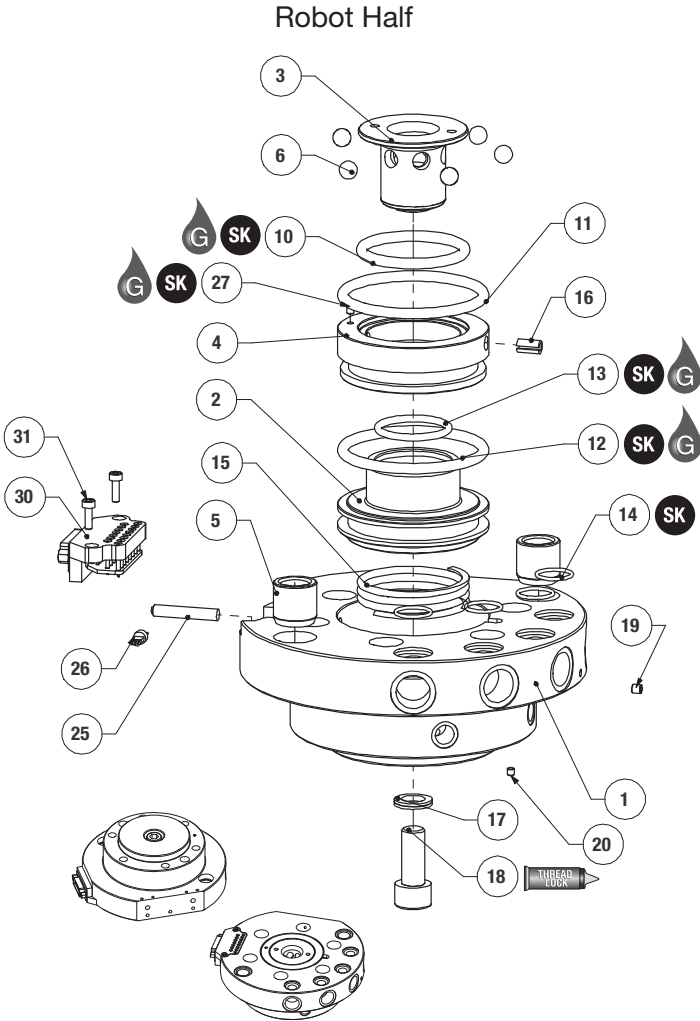
QC/TP Series | Automatic Tool Changers



WARNING: This is a controlled document. It is your responsibility to deliver this information to the end user of the DESTACO Robohand product. Failure to deliver this could result in your liability for injury to the user or damage to the machine. For copies of this manual, call your Customer Service Representative at 1.248.836.6700

QC/TP SERIES

Tool Changers | Maintenance and Assembly Procedure



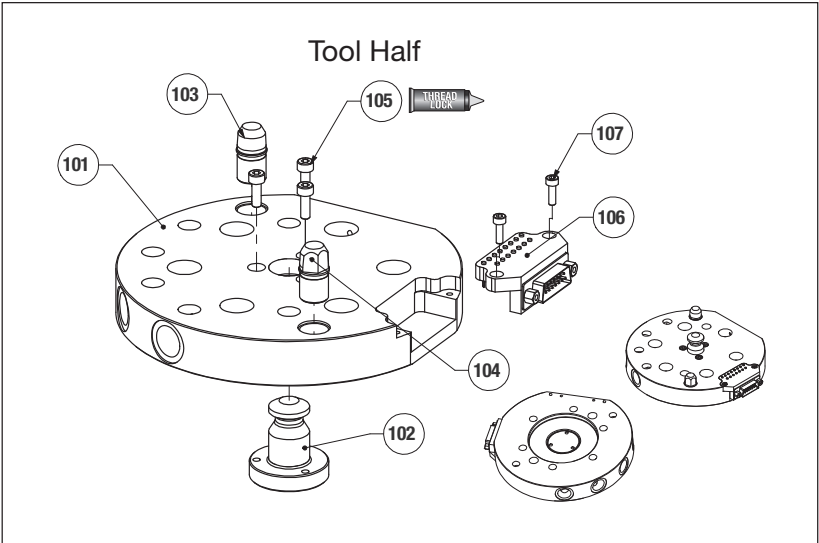
Item	Qty	Name
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Robot Side		
1	1	Body
2	1	Piston
3	1	Ball retainer
4	1	Ring
5	2	Bushing
6	4 to 6	Ball
10	1	Ring, O-Ring
11	1	Ring, O-Ring
12	1	Piston, O-ring
13	1	Piston, O-ring
14	4	Body, O-Ring
15	1	Spring
16	1	Ring, Pin (QC-150 only)
17	1	Retainer, O-Ring
18	1	Retainer, Washer
19	1	Body, SHC screw
20	1	Body, SHC screw
25	1	Sensor, (QC-150 only - optional)
26	1	Sensor Connector, (QC-150 only - optional)
27	1	Sensor, SS screw (QC-150 only)
30	1	I/O Module
31	2	Module, SHC Screw

Tool Side		
101	1	Body
102	1	Locking Pin
103	1	Centering Pin
104	1	Diamond Pin
105	3	Pin, Screw
106	1	I/O Module
107	2	Module, SHC screw

NOTE: Contact the Robohand Sales Department for a complete spare parts list with order numbers and prices.

SK Seal Repair Kit Order #'s
See Product Data Sheets



Seal Kit Items



Thread Locker



Krytox™ Lubricant



Lightweight Machine Oil



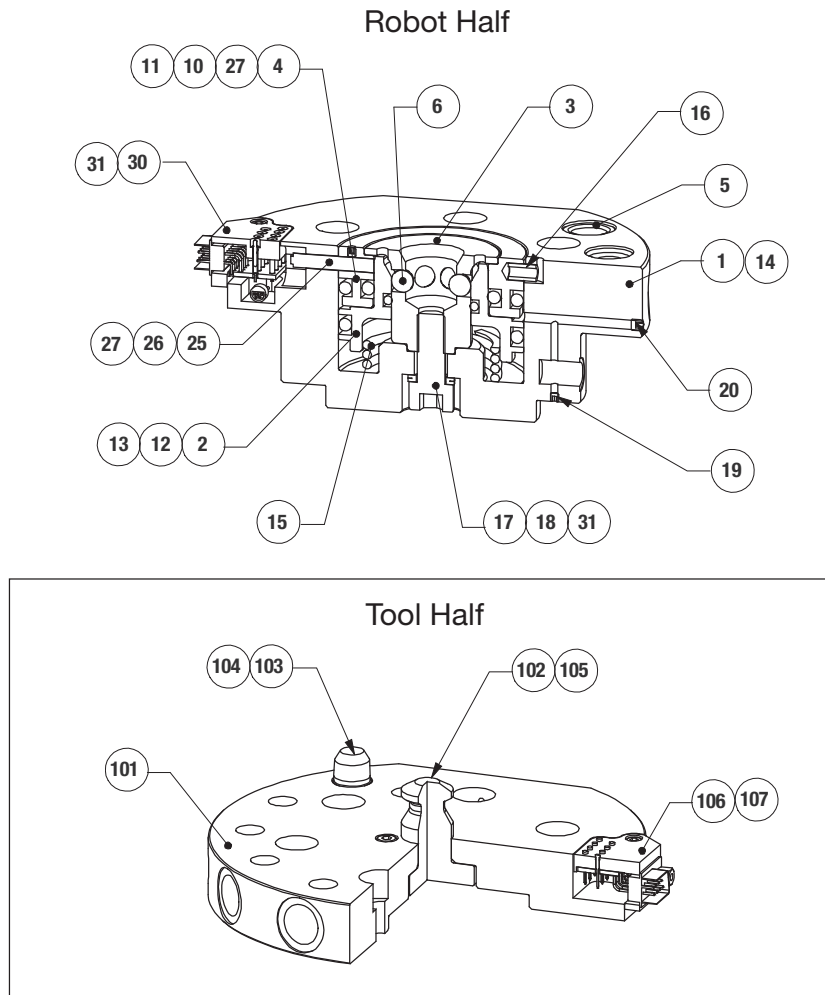
Teflon® Based Grease



Super Bonder



Third Angle Projection



Item	Qty	Name
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Robot Side

1	1	Body
2	1	Piston
3	1	Ball retainer
4	1	Ring
5	2	Bushing
6	4 to 6	Ball
10	1	Ring, O-Ring
11	1	Ring, O-Ring
12	1	Piston, O-ring
13	1	Piston, O-ring
14	4	Body, O-Ring
15	1	Spring
16	1	Ring, Pin (QC-150 only)
17	1	Retainer, O-Ring
18	1	Retainer, Washer
19	1	Body, SHC screw
20	1	Body, SHC screw
25	1	Sensor, (QC-150 only - optional)
26	1	Sensor Connector, (QC-150 only - optional)
27	1	Sensor, SS screw (QC-150 only)
30	1	I/O Module
31	2	Module, SHC Screw

Tool Side

101	1	Body
102	1	Locking Pin
103	1	Centering Pin
104	1	Diamond Pin
105	3	Pin, Screw
106	1	I/O Module
107	2	Module, SHC screw

NOTE: Contact the Robohand Sales Department for a complete spare parts list with order numbers and prices.

Assembly Procedure - Robot Side

- 1) Install the air port plugs (#19) and (#20) with thread-locker into the body (#1)
- 2) Lubricate and install seals (#12) and (#13) into the piston (#2)
- 3) Insert the springs (#15) into the body
- 4) Insert the piston sub-assembly into the body
- 5) Lubricate and install seals (#10) and (#11) into the ring (#4)
- 6) Insert the pin (#16) into the ring (#4)
- 7) Insert the ring sub-assembly into the body
- 8) Insert the balls (#6) into the ball retainer (#3)
- 9) Insert the ball and retainer sub-assembly into the body
- 10) Fasten the ball retainer with washer (#17) and screws (#18) with thread-locker
- 11) Press in the bushings (#5) into the body
- 12) Mount the O-Ring (#14) into the body
- 13) For QC150 with latch sensor only, fully insert the sensor (#25) into the body and slightly pull it back (0.5 to 1 mm). Fasten the sensor (#25) with screw (#27). Plug in male connector (#26) with the female connector of the I/O block (#30)
- 14) Mount the I/O block (#30) into the body and fasten with screw (#31)

Assembly Procedure - Tool Side

- 1) Insert the locking pin (#102) into the body #101 and fasten with screws (#105) with thread-locker
- 2) Press in the diamond pin (#104) into the body
- 3) Press in the pin (#103) into the body
- 4) Mount the I/O block (#106) into the body and fasten with screw (#107)

QC/TP SERIES

Tool Changers | Cross Reference

New Product #	Old Product #	Description
Robot Half Size 30		
QC-30-E15	QC2336-0-0-0	Robot Half, Imperial, 15 Pin I/O Module
QC-30-D15	QC1862-0-0-0	Robot Half, Imperial, Double 15 Pin I/O Module
QC-30M-E15	QC1956-0-0-0	Robot Half, Metric, 15 Pin I/O Module
QC-30M-E12	QC7499-0-0-0	Robot Half, Metric, 12 Pin I/O Module
Tool Half Size 30		
TP-30-E15	TP2337-0-0	Tool Half, Imperial, 15 Pin I/O Module
TP-30-D15	TP1506-0-0	Tool Half, Imperial, Double 15 Pin I/O Module
TP-30M-E15	TP1957-0-0	Tool Half, Metric, 15 Pin I/O Module
TP-30M-E12	TP7500-0-0	Tool Half, Metric, 12 Pin I/O Module
Accessories Size 30		
E15-QC30	502678	15 Pin I/O Block with Micro D-Sub Connector
E12-QC30	507494	12 Pin I/O Block with Turck M12 Connector
E15-TP30	502679	15 Pin I/O Block with Micro D-Sub Connector
E12-TP30	507495	12 Pin I/O Block with Turck M12 Connector
CABL-024	903319	Straight Male Cordset 1.2M for E15
SLKT-387	KQC30-OR	Seal Repair Kit, QC30
SLKT-388	KQC30-HW	Face Sealing Repair Kit, QC30
Robot Half Size 60		
QC-60-E15	QC6675-0-0-0	Robot Half, NPT, 15 Pin I/O Module
QC-60-G15	QC2166-0-0-0	Robot Half, NPT, 15 Pin Non-Recessed I/O Module
QC-60M-E15	QC6704-0-0-0	Robot Half, Metric, 15 Pin I/O Module
QC-60M-E12	QC7592-0-0-0	Robot Half, Metric, 12 Pin I/O Module
QC-60M-G15	QC4588-0-0-0	Robot Half, Metric, 15 Pin Non-Recessed I/O Module
QC-60A-E15	QC6708-0-0-0	Robot Half, BSPT, 15 Pin I/O Module
QC-60A-G15	QC1980-0-0-0	Robot Half, BSPT, 15 Pin Non-Recessed I/O Module
QC-60-E15-10P	QC6923-0-0-0	Robot Half, NPT, 15 Pin I/O Module, 10 Ports
QC-60M-E15-10P	QC7079-0-0-0	Robot Half, Metric, 15 Pin I/O Module, 10 Ports
QC-60A-E15-10P	QC7078-0-0-0	Robot Half, BSPT, 15 Pin I/O Module, 10 Ports
Tool Half Size 60		
TP-60-E15	TP6676-0-0-0	Tool Half, NPT, 15 Pin I/O Module
TP-60-G15	TP2093-0-0-0	Tool Half, NPT, 15 Pin Non-Recessed I/O Module
TP-60M-E15	TP6705-0-0-0	Tool Half, Metric, 15 Pin I/O Module
TP-60M-E12	TP7593-0-0-0	Tool Half, Metric, 12 Pin I/O Module
TP-60M-G15	TP4591-0-0-0	Tool Half, Metric, 15 Pin Non-Recessed I/O Module
TP-60A-E15	TP6709-0-0-0	Tool Half, BSPT, 15 Pin I/O Module
TP-60A-G15	TP1981-0-0-0	Tool Half, BSPT, 15 Pin Non-Recessed I/O Module
TP-60-E15-10P	TP6924-0-0-0	Tool Half, NPT, 15 Pin I/O Module, 10 Ports
TP-60M-E15-10P	TP7081-0-0-0	Tool Half, Metric, 15 Pin I/O Module, 10 Ports
TP-60A-E15-10P	TP7080-0-0-0	Tool Half, BSPT, 15 Pin I/O Module, 10 Ports
Accessories Size 60		
SLKT-389	KQC60-OR	Seal Repair Kit, QC60
Robot Half Size 150		
QC-150-E15	QC6677-0-0-0	Robot Half, NPT, 15 Pin I/O Module
QC-150-G15	QC2292-0-0-0	Robot Half, NPT, 15 Pin Non-Recessed I/O Module
QC-150-E15-LP	QC6677-052-0-0	Robot Half, NPT, 15 Pin I/O Module, PNP Latch sensor
QC-150-G15-LP	QC2292-052-0-0	Robot Half, NPT, 15 Pin Non-Recessed I/O Module, PNP Latch sensor
QC-150-E15-LN	QC6677-050-0-0	Robot Half, NPT, 15 Pin I/O Module, NPN Latch sensor
QC-150-G15-LN	QC2292-050-0-0	Robot Half, NPT, 15 Pin Non-Recessed I/O Module, NPN Latch sensor
QC-150M-E15	QC6706-0-0-0	Robot Half, Metric, 15 Pin I/O Module
QC-150M-G15	QC4593-0-0-0	Robot Half, Metric, 15 Pin Non-Recessed I/O Module
QC-150M-E15-LP	QC6706-052-0-0	Robot Half, Metric, 15 Pin I/O Module, PNP Latch sensor
QC-150M-G15-LP	QC4593-052-0-0	Robot Half, Metric, 15 Pin Non-Recessed I/O Module, PNP Latch sensor
QC-150M-E15-LN	QC6706-050-0-0	Robot Half, Metric, 15 Pin I/O Module, NPN Latch sensor
QC-150M-G15-LN	QC4593-050-0-0	Robot Half, Metric, 15 Pin Non-Recessed I/O Module, NPN Latch sensor
QC-150A-E15	QC6710-0-0-0	Robot Half, BSPT, 15 Pin I/O Module
QC-150A-G15	QC3066-0-0-0	Robot Half, BSPT, 15 Pin Non-Recessed I/O Module
QC-150A-E15-LP	QC6710-052-0-0	Robot Half, BSPT, 15 Pin I/O Module, PNP Latch sensor
QC-150A-G15-LP	QC3066-052-0-0	Robot Half, BSPT, 15 Pin Non-Recessed I/O Module, PNP Latch sensor
QC-150A-E15-LN	QC6710-050-0-0	Robot Half, BSPT, 15 Pin I/O Module, NPN Latch sensor
QC-150A-G15-LN	QC3066-050-0-0	Robot Half, BSPT, 15 Pin Non-Recessed I/O Module, NPN Latch sensor

New Product #	Old Product #	Description
Tool Half Size 150		
TP-150-E15	TP6678-0-0-0	Tool Half, NPT, 15 Pin I/O Module
TP-150-G15	TP2293-0-0-0	Tool Half, NPT, 15 Pin Non-Recessed I/O Module
TP-150M-E15	TP6707-0-0-0	Tool Half, Metric, 15 Pin I/O Module
TP-150M-G15	TP4595-0-0-0	Tool Half, Metric, 15 Pin Non-Recessed I/O Module
TP-150A-E15	TP6711-0-0-0	Tool Half, BSPT, 15 Pin I/O Module
TP-150A-G15	TP2259-0-0-0	Tool Half, BSPT, 15 Pin Non-Recessed I/O Module
Modules Size 60 and 150		
KG15-QC60	502675	15 Pin I/O Block (Non-Recessed) with D-Sub Connector - QC side
KE15-QC60	506671	15 Pin I/O Block with D-Sub Connector - QC side
KG15-TP60	502676	15 Pin I/O Block (Non-Recessed) with D-Sub Connector - TP side
KE15-TP60	506673	15 Pin I/O Block with D-Sub Connector - TP side
KE26-QC60	QE26	26 pin 5A Module with Industrial Connector - QC side
KE26-TP60	TE26	26 pin 5A Module with Industrial Connector - TP side
KE19-QC60	QE19	19 pin 5A Module with Industrial Connector - QC side
KE19-TP60	TE19	19 pin 5A Module with Industrial Connector - TP side
KE10-QC60	QE10	10 pin 13A Module with Industrial Connector - QC side
KE10-TP60	TE10	10 pin 13A Module with Industrial Connector - TP side
KG15-QC150	502675	15 Pin I/O Block (Non-Recessed) with D-Sub Connector - QC side
KE15-QC150	506671	15 Pin I/O Block with D-Sub Connector - QC side
KE26-QC150	QE26	26 pin 5A Module with Industrial Connector - QC side
KE26-TP150	TE26	26 pin 5A Module with Industrial Connector - TP side
KE19-QC150	QE19	19 pin 5A Module with Industrial Connector - QC side
KE19-TP150	TE19	19 pin 5A Module with Industrial Connector - TP side
KE10-QC150	QE10	10 pin 13A Module with Industrial Connector - QC side
KE10-TP150	TE10	10 pin 13A Module with Industrial Connector - TP side
KPN18-QC60	QNPT18	4 x 1/8 NPT Pneumatic Ports Module - QC side
KPP18-QC60	QBSPP18	4 x 1/8 BSPP Pneumatic Ports Module - QC side
KPT18-QC60	QBSPT18	4 x 1/8 BSPT Pneumatic Ports Module - QC side
KPN18-TP60	TNPT18	4 x 1/8 NPT Pneumatic Ports Module - TP side
KPP18-TP60	TBSPP18	4 x 1/8 BSPP Pneumatic Ports Module - TP side
KPT18-TP60	TBSPT18	4 x 1/8 BSPT Pneumatic Ports Module - TP side
KPN14-QC60	QNPT14	2 x 1/4 NPT Pneumatic Ports Module - QC side
KPP14-QC60	QBSPP14	2 x 1/4 BSPP Pneumatic Ports Module - QC side
KPT14-QC60	QBSPT14	2 x 1/4 BSPT Pneumatic Ports Module - QC side
KPN14-TP60	TNPT14	2 x 1/4 NPT Pneumatic Ports Module - TP side
KPP14-TP60	TBSPP14	2 x 1/4 BSPP Pneumatic Ports Module - TP side
KPT14-TP60	TBSPT14	2 x 1/4 BSPT Pneumatic Ports Module - TP side
KPN18-QC150	QNPT18	4 x 1/8 NPT Pneumatic Ports Module - QC side
KPP18-QC150	QBSPP18	4 x 1/8 BSPP Pneumatic Ports Module - QC side
KPT18-QC150	QBSPT18	4 x 1/8 BSPT Pneumatic Ports Module - QC side
KPN18-TP150	TNPT18	4 x 1/8 NPT Pneumatic Ports Module - TP side
KPP18-TP150	TBSPP18	4 x 1/8 BSPP Pneumatic Ports Module - TP side
KPT18-TP150	TBSPT18	4 x 1/8 BSPT Pneumatic Ports Module - TP side
KPN14-QC150	QNPT14	2 x 1/4 NPT Pneumatic Ports Module - QC side
KPP14-QC150	QBSPP14	2 x 1/4 BSPP Pneumatic Ports Module - QC side
KPT14-QC150	QBSPT14	2 x 1/4 BSPT Pneumatic Ports Module - QC side
KPN14-TP150	TNPT14	2 x 1/4 NPT Pneumatic Ports Module - TP side
KPP14-TP150	TBSPP14	2 x 1/4 BSPP Pneumatic Ports Module - TP side
KPT14-TP150	TBSPT14	2 x 1/4 BSPT Pneumatic Ports Module - TP side
KHN38-QC60	QQD38	2 x 3/8 NPT Fluid Ports Module - QC side
KHN38-TP60	TQD38	2 x 3/8 NPT Fluid Ports Module - TP side
KHN38-QC150	QQD38	2 x 3/8 NPT Fluid Ports Module - QC side
KHN38-TP150	TQD38	2 x 3/8 NPT Fluid Ports Module - TP side
ELCT-047	502363	Straight Female D-Sub User Plug (w/o cable) Solder Type for E15/G15 (QC-60/150 & TP-60/150)
ELCT-041	904831	Straight Female Plug (w/o cable) for E10-QC60/150
ELCT-042	904834	Straight Male Plug (w/o cable) for E10-TP60/150
ELCT-043	902484	Straight Female Plug (w/o cable) for E19-QC60/150
ELCT-044	902486	Straight Male Plug (w/o cable) for E19-TP60/150
ELCT-045	904837	Straight Female Plug (w/o cable) for E26-QC60/150
ELCT-046	904833	Straight Male Plug (w/o cable) for E26-TP60/150

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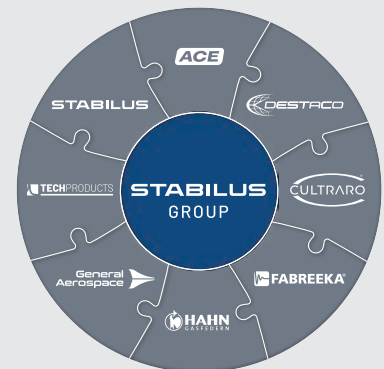
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