Automatic Tool Changers | Features and Benefits

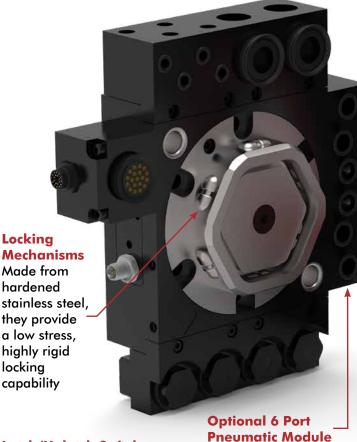
Additional Optional Air, Fluid, Electrical Modules are Available.

Air and fluid ports modules are available in NPT, BSPP, and BSPT (See Page TC-RQTP-17) Optional 19 Pin I/O Module

Spring loaded contacts are recessed for a better protection

V-Seal provides moisture resistance

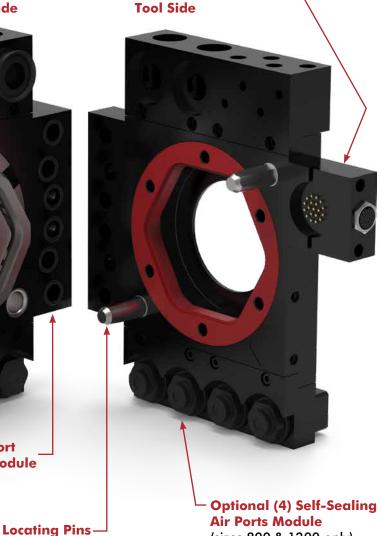


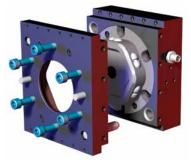


Latch/Unlatch Switch

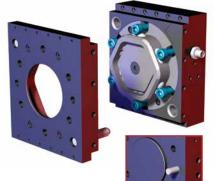
RQC's are pre-equipped for latch, unlatch (all sizes) and part presence sensing (sizes 800 & 1200 only)

Dry contact or inductive sensors with or w/o connectors are available





Tool Half Adaptor has tapped holes, two dowel pin holes for accurate location of payload, and features a ISO9409-1 mounting pattern



Robot Half Adaptor has counterbored holes for mounting with a dowel pin hole, a raised boss for location, and features a ISO9409-1 mounting pattern

(sizes 800 & 1200 only)

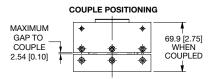
Back Side of Robot Half Adaptor



Automatic Tool Changers | Technical Information

RQC-200/RTP-200

Combined Weight: 3 Kg [6.7 lb] Max. Payload: 90 Kg [200 lb] Max. Moment: 810 Nm [7200 in-lb]





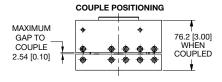


RQC-200 Robot Adaptor Module

Tool Adaptor Module

RQC-400/RTP-400

Combined Weight: 4.7 Kg [10.4 lb] Max. Payload: 180 Kg [400 lb] Max. Moment: 1580 Nm [14000 in-lb]





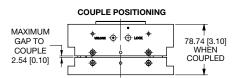


Robot Adaptor Module

Tool Adaptor Module

RQC-800/RTP-800

Combined Weight: 7.1 Kg [15.8 lb] Max. Payload: 360 Kg [800 lb] Max. Moment: 2490 Nm [22000 in-lb]



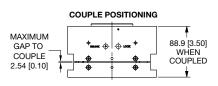


Robot Adaptor Module

Tool Adaptor Module

RQC-1200/RTP-1200

Combined Weight: 8.3 Kg [18.4 lb] Max. Payload: 550 Kg [1200 lb] Max. Moment: 3390 Nm [30000 in-lb]



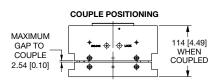


RQC-1200 Robot Adaptor Module

RTP-1200 **Tool Adaptor Module**

RQC-2400/RTP-2400

Combined Weight: 30 Kg [66.1 lb] Max. Payload: 1089 Kg [2400 lb] Max. Moment: 7000 Nm [61955 in-lb]





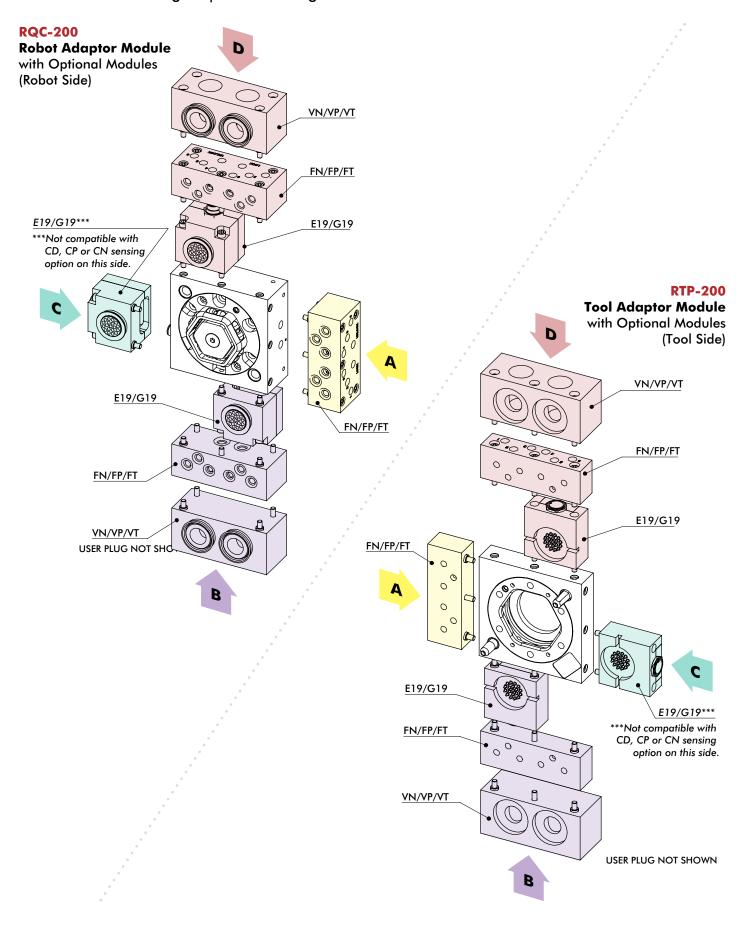
RQC-2400 Robot Adaptor Module



RTP-2400 **Tool Adaptor Module**

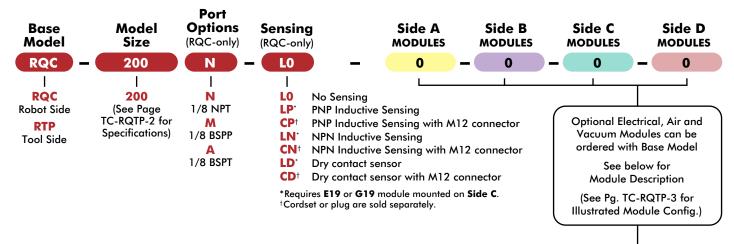
RQC-200/RTP-200

Automatic Tool Changers | Module Usage Illustrations



RQC-200/RTP-200

Automatic Tool Changers | Ordering Information



Side A	Side B	Side C	Side D	Order Code	Optional Modules			
•	•	•	•	0	No Module			
	•	•***	•	E19†***	19 pin, 3 Amp, 48 VDC Module w/Turck M16 Conn, w/o Cordset			
	•	•***	•	G19†***	19 pin, 5 Amp, 120 VDC Module w/Industrial User Conn., w/o Cable			
•	•		•	FN	6X 1/8" NPT Air Ports Module, Face Seal, 10 Bar			
•	•		•	FP	6X 1/8" BSPP Air Ports Module, Face Seal, 10 Bar			
•	•		•	FT	6X 1/8" BSPT Air Ports Module, Face Seal, 10 Bar			
	•		•	VN	2X 3/4" Vacuum + 4 X 1/4" Air NPT Ports Module, Face Sealing			
	•		•	VP	2X 3/4" Vacuum + 4 X 1/4" Air BSPP Ports Module, Face Sealing			
	•		•	VT	2X 3/4" Vacuum + 4 X 1/4" Air BSPT Ports Module, Face Sealing			

 † Cordset or plug are sold separately. ***Not compatible with **CD**, **CP** or **CN** sensing option on **Side C**.

NOTE: Only (1) module can be mounted per side. Modules usage is based on the size of the Base Model and which side the module can be mounted.

RQC-200 (ROBOT SIDE)

Automatic Tool Changers | Technical Specifications | Dimensions



Specification:

Max. Payload W: 90 Kg [200 lb]

Weight: 2 Kg [4.41 lb]

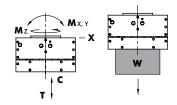
Cylinder Bore: Ø53mm [2.09in] Displacement: 41.3 cm³ [2.52in³]

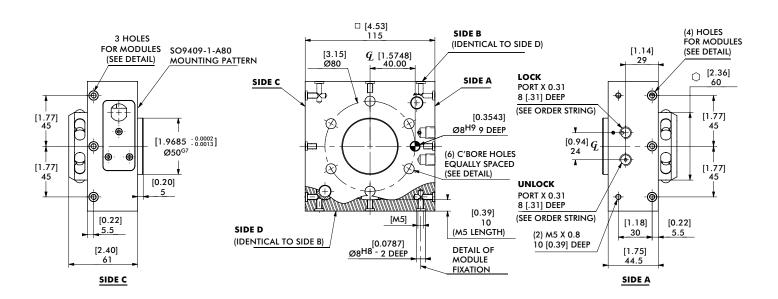
Loading Capacity:

Max. Tensile T: 1330 N [300 lb]

Max. Compressive C: 1780 N [400 lb]

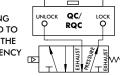
Max. Moment (Mx/My/Mz): 810 Nm [7200 in-lb]

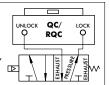




FAILSAFE OPERATION: 4-WAY VALVES WITH A SPRING RETURN ARE RECOMMENDED TO MAINTAIN AIR PRESSURE TO THE LOCK PORT DURING EMERGENCY

STOP CONDITIONS.





UNLESS OTHERWISE NOTED ALL TOLERANCES ARE AS SHOWN BELOW



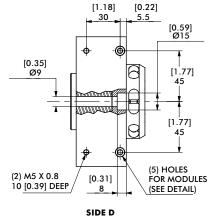


ALL DOWEL HOLES ARE SF (SLIP FIT). LOCATIONAL TOLERANCE ±.0005" OR [±.013MM]



IMPERIAL ([IN.]) 0.00 = ±.01 0.000 = ±.005 0.0000 = ±.0005

METRIC (MM)



RTP-200 (TOOLING SIDE)

Automatic Tool Changers | Technical Specifications | Dimensions

Specification:

Max. Payload W: 180 Kg [400 lb]

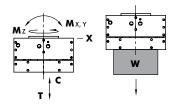
Weight: 1 Kg [2.2 lb]

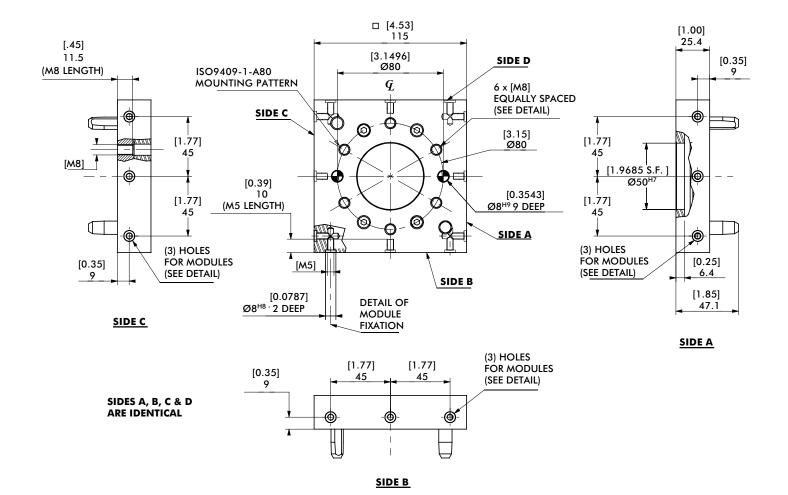
Loading Capacity:

Max. Tensile T: 1330 N [300 lb]
Max. Compressive C: 1780 N [400 lb]

Max. Moment (Mx/My/Mz): 810 Nm [7200 in-lb]







UNLESS OTHERWISE NOTED ALL TOLERANCES ARE AS SHOWN BELOW

DIMENSIONS ARE SYMMETRICAL ABOUT CENTERLINE THIRD ANGLE

ALL DOWEL HOLES ARE SF (SLIP FIT).
LOCATIONAL TOLERANCE
±.0005" OR [±.013MM]

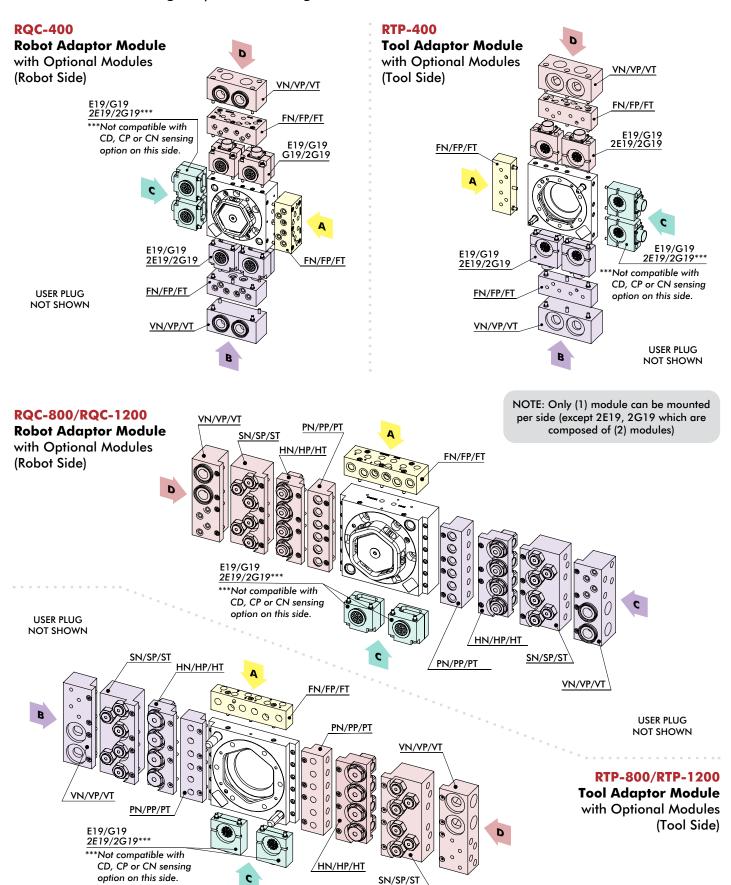
→
METRIC THREAD

IMPERIAL ([IN.]) 0.00 = ±.01 0.000 = ±.005 0.0000 = ±.0005

METRIC (MM) [0] = [±.25] [0.0] = [±.13]

RQC-400, 800, 1200/RTP-400, 800, 1200

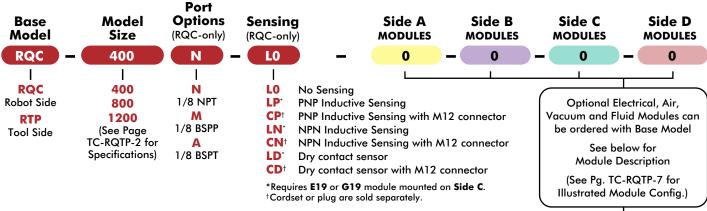
Automatic Tool Changers | Module Usage Illustrations





RQC-400, 800, 1200/RTP-400, 800, 1200

Automatic Tool Changers | Ordering Information



400	800/1200	Side A	Side B	Side C	Side D	Order Code	Optional Modules		
•	•	•	•	•	•	0	No Module		
	•			•		E19†	19 pin, 3 Amp, 48 VDC Module w/Turck M16 Conn, w/o Cordset		
	•			•		2E19†***	2X 19 pin, 3 Amp, 48 VDC Module w/Turck M16 Conn, w/o Cordset		
	•			•		G19	19 pin, 5 Amp, 120 VDC Module w/Industrial User Conn., w/o Cable		
	•			•		2G19""	2X 19 pin, 5 Amp, 120 VDC Module w/Industrial User Conn., w/o Cable		
•			•	•	•	E19†	19 pin, 3 Amp, 48 VDC Module w/Turck M16 Conn, w/o Cordset		
•			•	•***	•	2E19†***	2X 19 pin, 3 Amp, 48 VDC Module w/Turck M16 Conn, w/o Cordset		
•			•	•	•	G19	19 pin, 5 Amp, 120 VDC Module w/Industrial User Conn., w/o Cable		
•			•	•***	•	2G19'''	2X 19 pin, 5 Amp, 120 VDC Module w/Industrial User Conn., w/o Cable		
•		•	•		•	FN	6X 1/8" NPT Air Ports Module, Face Seal, 10 Bar		
•		•	•		•	FP	6X 1/8" BSPP Air Ports Module, Face Seal, 10 Bar		
•		•	•		•	FT	6X 1/8" BSPT Air Ports Module, Face Seal, 10 Bar		
	•	•				FN	6X 1/4" NPT Air Ports Module, Face Seal, 10 Bar		
	•	•				FP	6X 1/4" BSPP Air Ports Module, Face Seal, 10 Bar		
	•	•				FT	6X 1/4" BSPT Air Ports Module, Face Seal, 10 Bar		
	•		•		•	PN	6X 1/4" NPT Air Ports Module, Face Seal, 10 Bar		
	•		•		•	PP	6X 1/4" BSPP Air Ports Module, Face Seal, 10 Bar		
	•		•		•	PT	6X 1/4" BSPT Air Ports Module, Face Seal, 10 Bar		
	•		•		•	SN	6X 1/4" NPT Air Ports Module, Self Sealing, 10 Bar		
	•		•		•	SP	6X 1/4" BSPP Air Ports Module, Self Sealing, 10 Bar		
	•		•		•	ST	6X 1/4" BSPT Air Ports Module, Self Sealing, 10 Bar		
•			•		•	VN	2X 3/4" Vacuum + 4 X 1/4" Air NPT Ports Module, Face Sealing		
•			•		•	VP	2X 3/4" Vacuum + 4 X 1/4" Air BSPP Ports Module, Face Sealing		
•			•		•	VT	2X 3/4" Vacuum + 4 X 1/4" Air BSPT Ports Module, Face Sealing		
	•		•		•	HN	4X 3/8" NPT Fluid Ports Module, 100 Bar		
	•		•		•	HP	4X 3/8" BSPP Fluid Ports Module, 100 Bar		
	•		•		•	HT	4X 3/8" BSPT Fluid Ports Module, 100 Bar		

[†]Cordset or plug are sold separately. *** Not compatible with CD, CP or CN sensing option on Side C.

NOTE: Only (1) module can be mounted per side. (Except 2E19 and 2G19, which are composed of (2) modules). Modules usage is based on the size of the Base Model and which side the module can be mounted.

Electrical and pneumatic accessories are ordered separately.

Please note some electrical accessories can only be used with certain modules for either RQC or RTP "Base Models".

For pneumatic accessories, size of "Base Model" is considered.

ELECTRICAL ACCESSORIES

ELCT-048 90° Female Plug, w/o Cable, Solder Type, Cable Clamp for G19 (RQC Only) **ELCT-049** 90° male Plug, w/o Cable, Solder Type, Cable Clamp for G19 (RTP Only) **CABL-028** 90° Female M12 Cordset with 2M Cable for CP, CN, and CD (RQC Only) **CABL-029** 90° Female Cordset with 4M Cable for E19 (RQC Only) 90° male Cordset with 2M Cable for E19 (RTP Only) **CABL-031 OSRK-004** PNP Inductive Sensor Repair Kit (RQC Only)

PNEUMATIC ACCESSORIES

OSRK-005

OSRK-006

RQC-400 Standard Seal Repair Kit **SLKT-402 SLKT-403 RQC-800 Standard Seal Repair Kit SLKT-404 RQC-1200 Standard Seal Repair Kit**

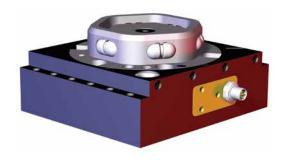


NPN Inductive Sensor Repair Kit (RQC Only)

Dry Contact Sensor Repair Kit (RQC Only)

RQC-400 (ROBOT SIDE)

Automatic Tool Changers | Technical Specifications | Dimensions



Specification:

Max. Payload W: 180 Kg [400 lb]

Weight: 3.6 Kg [7.94 lb]

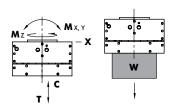
Cylinder Bore: Ø73mm [2.87in] Displacement: 80.9 cm³ [4.93in³]

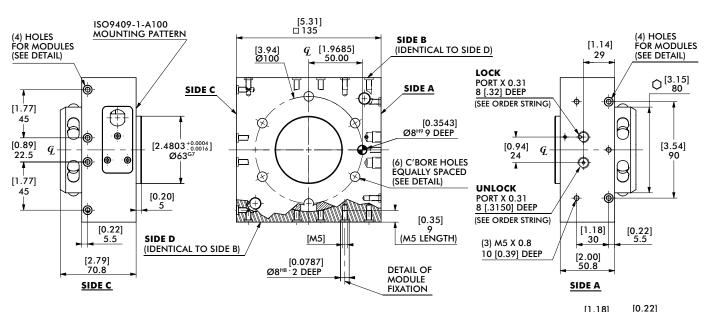
Loading Capacity:

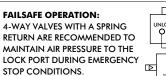
Max. Tensile T: 2670 N [600 lb]

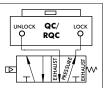
Max. Compressive C: 3560 N [800 lb]

Max. Moment (Mx/My/Mz): 1580 Nm [14000 in-lb]







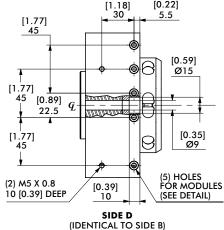


UNLESS OTHERWISE NOTED ALL TOLERANCES ARE AS SHOWN BELOW

DIMENSIONS ARE SYMMETRICAL ABOUT CENTERLINE THIRD ANGLE

ALL DOWEL HOLES ARE SF (SLIP FIT).
LOCATIONAL TOLERANCE
±.0005" OR [±.013MM]

METRIC THREADS COURSE PITCH IMPERIAL ([IN.]) 0.00 = ±.01 0.000 = ±.005 0.0000 = ±.0005 METRIC (MM) $[0] = [\pm .25]$ $[0.0] = [\pm .13]$ $[0.00] = [\pm .013]$



RTP-400 (TOOLING SIDE)

Automatic Tool Changers | Technical Specifications | Dimensions

Specification:

Max. Payload W: 180 Kg [400 lb]

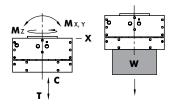
Weight: 1.1 Kg [2.43 lb]

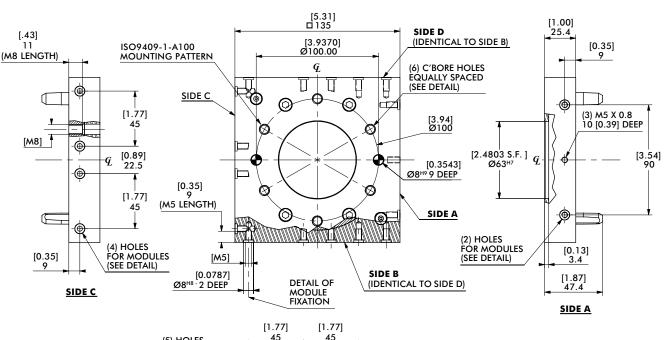
Loading Capacity:

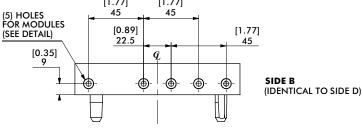
Max. Tensile T: 2670 N [600 lb]
Max. Compressive C: 3560 N [800 lb]

Max. Moment (Mx/My/Mz): 1580 Nm [14000 in-lb]









UNLESS OTHERWISE NOTED ALL TOLERANCES ARE AS SHOWN BELOW

DIMENSIONS ARE SYMMETRICAL ABOUT CENTERLINE

THIRD ANGLE PROJECTION

ALL DOWEL HOLES ARE SF (SLIP FIT).
LOCATIONAL TOLERANCE
±.0005" OR [±.013MM]

→
METRIC THREA

IMPERIAL ([IN.]) 0.00 = ±.01 0.000 = ±.005 0.0000 = ±.0005 METRIC (MM) [0] = [±.25] [0.0] = [±.13] [0.00] = [±.013]

RQC-800, RQC-1200 (ROBOT SIDE)

Automatic Tool Changers | Technical Specifications | Dimensions



RQC-800 Specification:

Max. Payload **W**: 360 Kg [800 lb] Weight: 5.3 Kg [11.68 lb] Cyl. Bore: Ø80mm [3.15in] Displacement: 95.6 cm³ [5.83in³]

Loading Capacity:

Max. Tensile T: 5340 N [1200 lb] Max. Compressive C: 7120 N [1600 lb] Max. Moment (Mx/My/Mz): 2490 Nm [22000 in-lb]

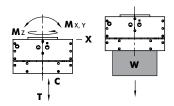
RQC-1200 Specification:

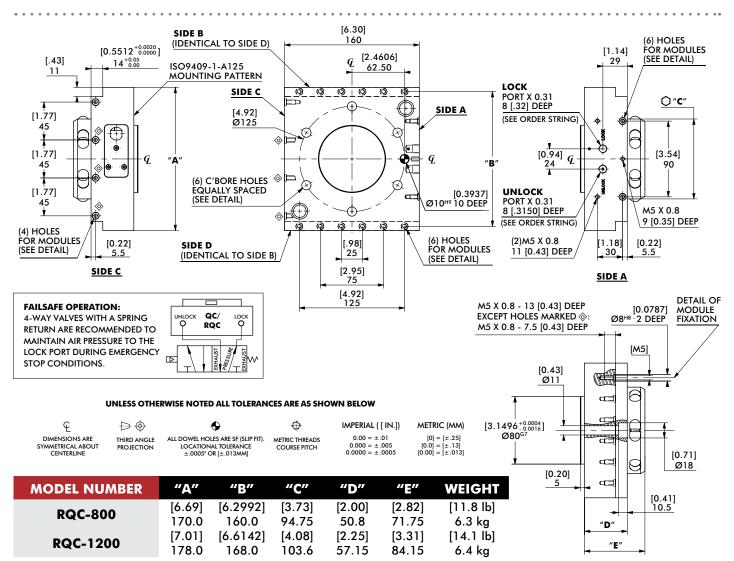
Max. Payload **W**: 550 Kg [1200 lb] Weight: 6.4 Kg [14.11 lb] Cyl. Bore: Ø95mm [3.74in]

Displacement: 153.7 cm³ [9.38in³]

Loading Capacity:

Max. Tensile T: 8000 N [1800 lb] Max. Compressive C: 10700 N [2400 lb] Max. Moment (Mx/My/Mz): 3390 Nm [30000 in-lb]





RTP-800, RTP-1200 (TOOLING SIDE)

Automatic Tool Changers | Technical Specifications | Dimensions

RTP-800 Specification:

Max. Payload W: 360 Kg [800 lb] Weight: 1.8 Kg [3.97 lb]

Loading Capacity:

Max. Tensile T: 5340 N [1200 lb] Max. Compressive C: 7120 N [1600 lb]

Max. Moment (Mx/My/Mz): 2490 Nm [22000 in-lb]

RTP-1200 Specification:

Max. Payload W: 550 Kg [1200 lb]

Weight: 1.9 Kg [4.19 lb]

Loading Capacity:

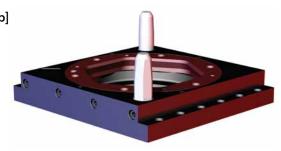
Max. Tensile T: 8000 N [1800 lb]

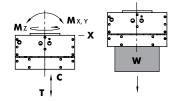
Max. Compressive C:

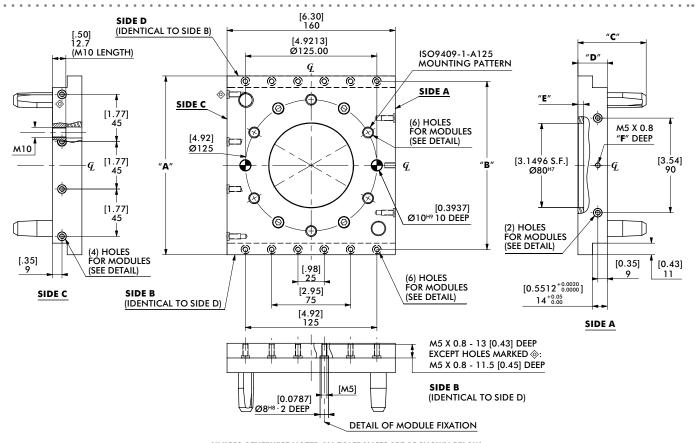
10700 N [2400 lb]

Max. Moment (Mx/My/Mz):

3390 Nm [30000 in-lb]







UNLESS OTHERWISE NOTED ALL TOLERANCES ARE AS SHOWN BELOW

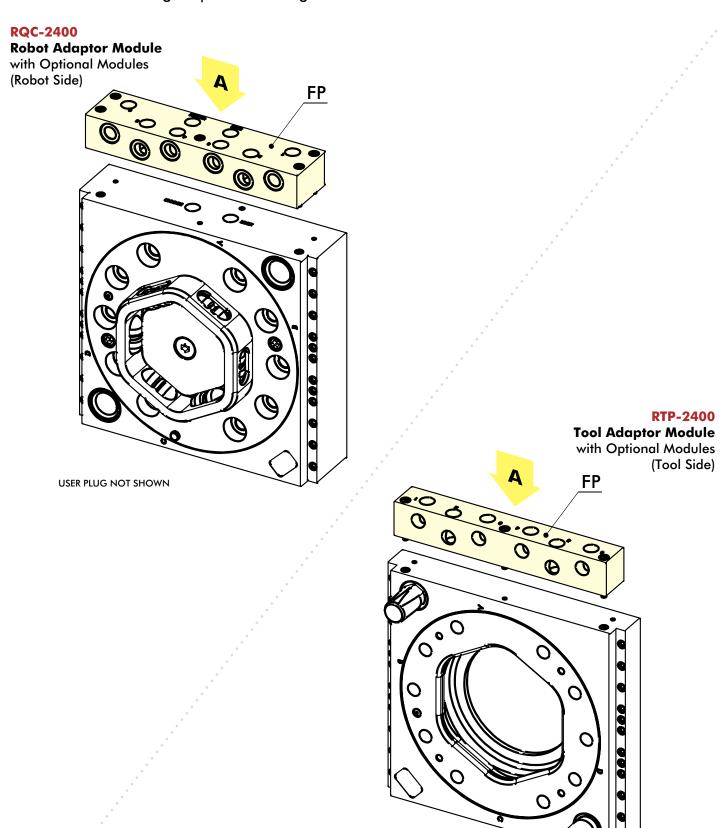
0 IMPERIAL ([IN.]) METRIC (MM) E $\triangleright \Phi$ DIMENSIONS ARE SYMMETRICAL ABOUT CENTERLINE ALL DOWEL HOLES ARE SF (SLIP FIT). LOCATIONAL TOLERANCE ±.0005" OR [±.013MM] 0.00 = ±.01 0.000 = ±.005 0.0000 = ±.0005 $[0] = [\pm .25]$ $[0.0] = [\pm .13]$ $[0.00] = [\pm .013]$ THIRD ANGLE PROJECTION METRIC THREADS COURSE PITCH

MODEL NUMBER	"A"	"B"	"C"	"D"	"E"	"F"	WEIGHT
RTP-800	[6.69]	[6.2992]	[2.56]	[1.10]	[0.22]	[0.39]	[4.00 lb]
RIP-800	170.0	160.0	64.94	27.94	5.5	10.0	1.8 kg
RTP-1200	[7.01]	[6.6142]	[2.71]	[1.25]	[0.13]	[0.30]	[2.90 lb]
KIP-1200	178	168.0	68.75	31.75	3.25	7.5	1.32 kg



RQC-2400/RTP-2400

Automatic Tool Changers | Module Usage Illustrations

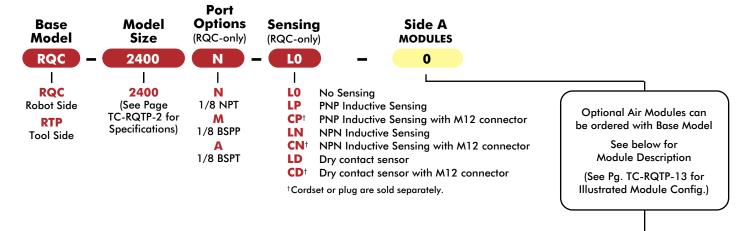


USER PLUG NOT SHOWN



RQC-2400/RTP-2400

Automatic Tool Changers | Ordering Information



Side A	Order Code	Optional Modules
•	0	No Module
•	FP	6X 1/8" BSPP Air Ports Module, Face Seal, 10 Bar

Electrical and pneumatic accessories are ordered separately.

Please note some electrical accessories can only be used with certain modules for either **RQC** or **RTP** "Base Models".

For pneumatic accessories, size of "Base Model" is considered.

ELECTRICAL ACCESSORIES

ELCT-048	90° Female Plug, w/o Cable, Solder Type, Cable Clamp for G19 (RQC Only)
ELCT-049	90° male Plug, w/o Cable, Solder Type, Cable Clamp for G19 (RTP Only)
CABL-028	90° Female M12 Cordset with 2M Cable for CP, CN, and CD (RQC Only)
CABL-029	90° Female Cordset with 4M Cable for E19 (RQC Only)
CABL-031	90° male Cordset with 2M Cable for E19 (RTP Only)
OSRK-004	PNP Inductive Sensor Repair Kit (RQC Only)
OSRK-005	NPN Inductive Sensor Repair Kit (RQC Only)
OSRK-006	Dry Contact Sensor Repair Kit (RQC Only)

PNEUMATIC ACCESSORIES

SLKT-XXX RQC-2400 Standard Seal Repair Kit



RQC-2400 (ROBOT SIDE)

Automatic Tool Changers | Technical Specifications | Dimensions



RQC-2400 Specification:

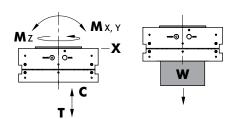
Max. Payload W: 1089Kg [2400 lb]

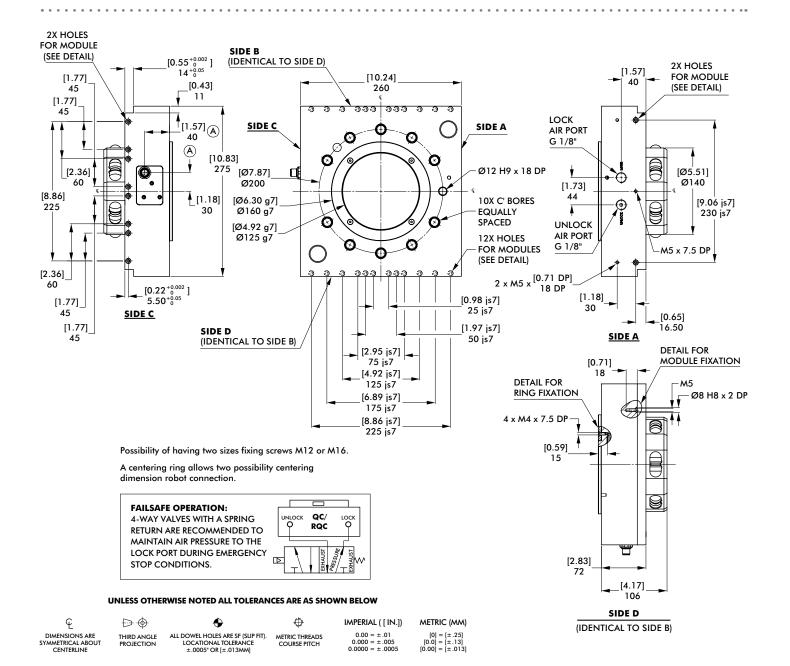
Weight: 22 Kg [48.5 lb] Cyl. Bore: Ø80mm [3.15in] Displacement: XXXcm³ [XXXin³]

Loading Capacity:

Max. Tensile T: 16000 N [3597 lb] Max. Compressive C: 22000 N [4946 lb]

Max. Moment (Mx/My/Mz): 7000 Nm [91955 in-lb]







RTP-2400 (TOOLING SIDE)

Automatic Tool Changers | Technical Specifications | Dimensions

RTP-2400 Specification:

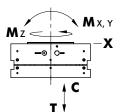
Max. Payload W: 1089Kg [2400 lb]

Weight: 8 Kg [17.64 lb]

Loading Capacity:

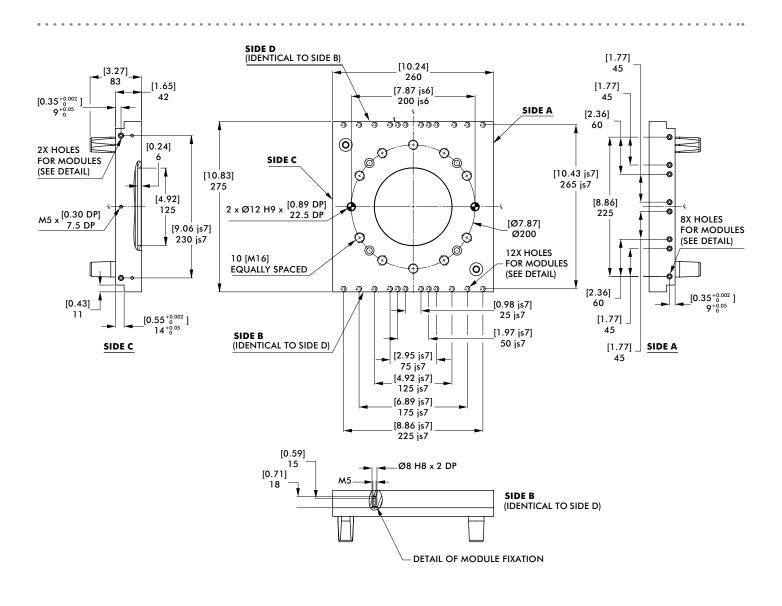
Max. Tensile T: 16000 N [3597 lb] Max. Compressive C: 22000 N [4946 lb]

Max. Moment (Mx/My/Mz): 7000 Nm [91955 in-lb]









UNLESS OTHERWISE NOTED ALL TOLERANCES ARE AS SHOWN BELOW

DIMENSIONS ARE SYMMETRICAL ABOUT CENTERLINE

THIRD ANGLE

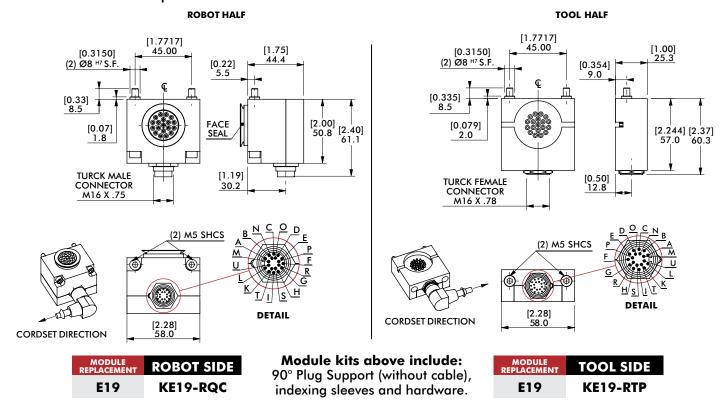
ALL DOWEL HOLES ARE SF (SLIP FIT).
LOCATIONAL TOLERANCE
±.0005" OR [±.013MM]

METRIC THREADS COURSE PITCH IMPERIAL ([IN.]) 0.00 = ±.01 0.000 = ±.005 0.0000 = ±.0005 METRIC (MM) $[0] = [\pm .25]$ $[0.0] = [\pm .13]$

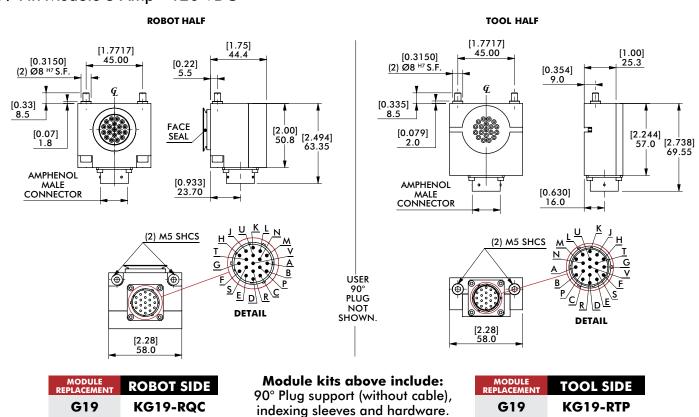


Automatic Tool Changers | Technical Specifications | Dimensions

19 Pin Module 3 Amp - 48 VDC

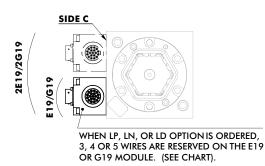


19 Pin Module 5 Amp - 120 VDC



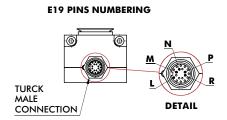
Automatic Tool Changers | Technical Specifications | Dimensions

Modules Connecting with Latch/Unlatch Sensors

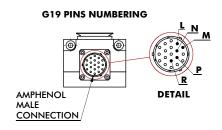


Reserved Pin Numbers on E19/G19								
Sensor/Switch	RQC 200 & 400	RQC 800 & 1200						
LP or LN (Inductive)	R: + 10 - 30 VDC L: Common M: Lock N: Unlock	R: + 10 - 30 VDC L: Common M: Lock N: Unlock P: Ready to Couple						
LD (Dry Contact)	R: + 10 - 30 VDC L: Common M: Lock N: Unlock	R: + 10 - 30 VDC L: Common M: Lock P: Ready to Couple						

Pin Numbering



Wire Color on CABL-029 Cordset							
Contact Wire Color							
R	Red						
L	Brown						
M	Orange						
N	Grey/Brown						
P	White						



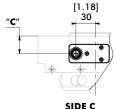
Lock/Unlock Tool Plate Presence Sensing Options (with inductive Sensors and Dry Contact Switches)



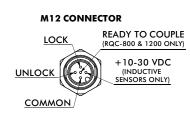
SIDE C

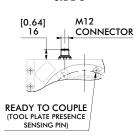
MODEL	"A"	"B"	"C"
RQC-200	[0.563]	[0.886]	[0.652]
KQC-200	14.3	22.5	16.55
RQC-400	[0.811]	[1.329]	[0.685]
KQC-400	20.6	33.7	17.4
RQC-800	[0.811]	[1.772]	[0.821]
K-000	20.6	45.0	20.8
RQC-1200	[1.061]	[1.772]	[1.071]
KQC-1200	26.9	45.0	27.2

SENSING ACCESSORIES CP, CN, OR CD BY M12 CONNECTOR (3, 4, OR 5 PINS) (SEE BELOW)



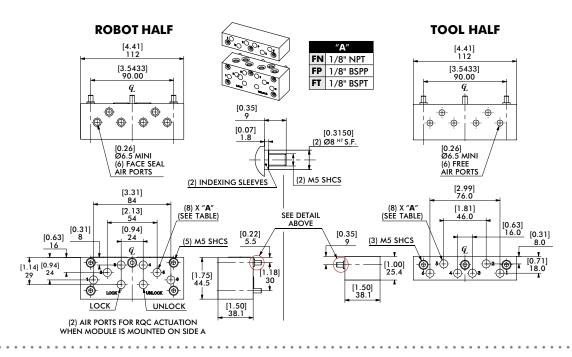
[0.42] 10.8 E19 MODULE	G19 MODULE	[0.06]
[2.00]		₹
TOOL PLATE PRESENCE SENSING PIN		



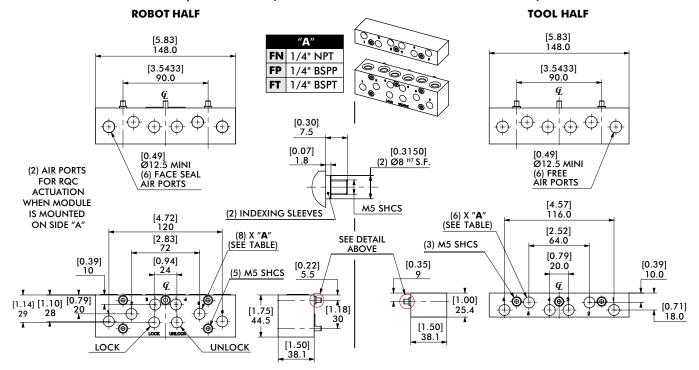


Automatic Tool Changers | Technical Specifications | Dimensions

6 x 1/8" Air Ports Module | Face Seal (for RQC/RTP-200 & RQC/RTP-400)



6 x 1/4" Air Ports Module | Face Seal (for RQC/RTP-800 & RQC/RTP-1200)



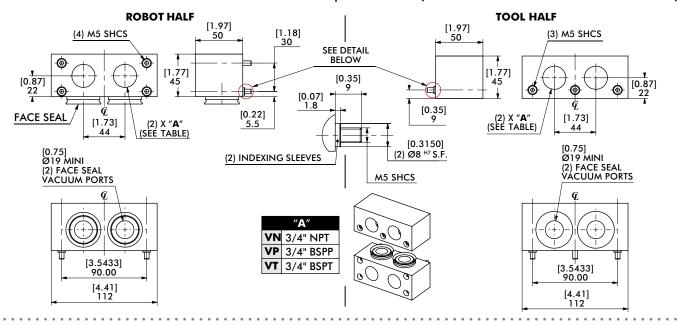
MODULE REPLACEMENT	FOR RQC-200/400	FOR RQC 800/1200	MODULE REPLACEMENT	FOR RTP-200/400	FOR RTP 800/1200
FN	KFN-RQC200	KFN-RQC800	FN	KFN-RTP200	KFN-RTP800
FP	KFP-RQC200	KFP-RQC800	FP	KFP-RTP200	KFP-RTP800
FT	KFT-RQC200	KFT-RQC800	FT	KFT-RTP200	KFT-RTP800

Module kits above include: Couplings, indexing sleeves and hardware.

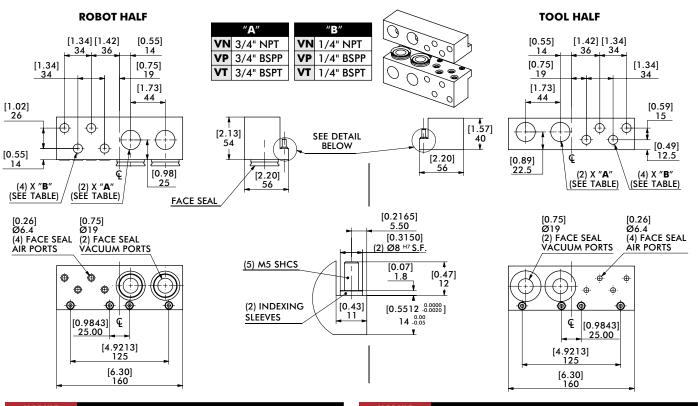


Automatic Tool Changers | Technical Specifications | Dimensions

2 x 3/4" Vacuum Ports Module | Face Seal (for RQC/RTP-200 & RQC/RTP-400)



2 x 3/4" Vacuum Ports Module | Face Seal (for RQC/RTP-800 & RQC/RTP-1200)



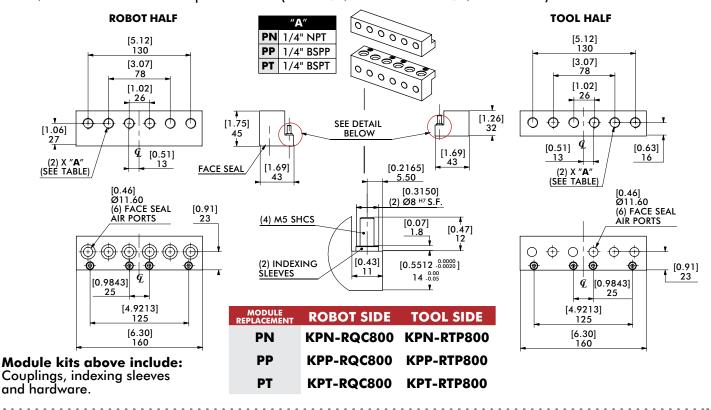
MODULE REPLACEMENT	FOR RQC-200/400	FOR RQC 800/1200	MODULE REPLACEMENT	FOR RTP-200/400	FOR RTP 800/1200
VN	KVN-RQC200	KVN-RQC800	VN	KVN-RTP200	KVN-RTP800
VP	KVP-RQC200	KVP-RQC800	VP	KVP-RTP200	KVP-RTP800
VT	KVT-RQC200	KVT-RQC800	VT	KVT-RTP200	KVT-RTP800

Module kits above include: Couplings, indexing sleeves and hardware.

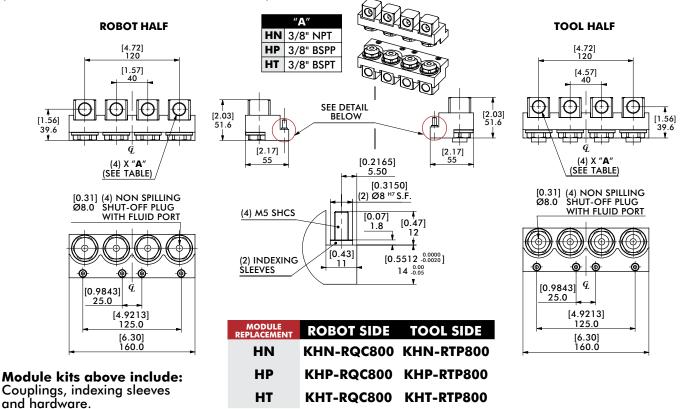


Automatic Tool Changers | Technical Specifications | Dimensions

6 x 1/4" Air Ports Module | Face Seal (for RQC/RTP-800 & RQC/RTP-1200)



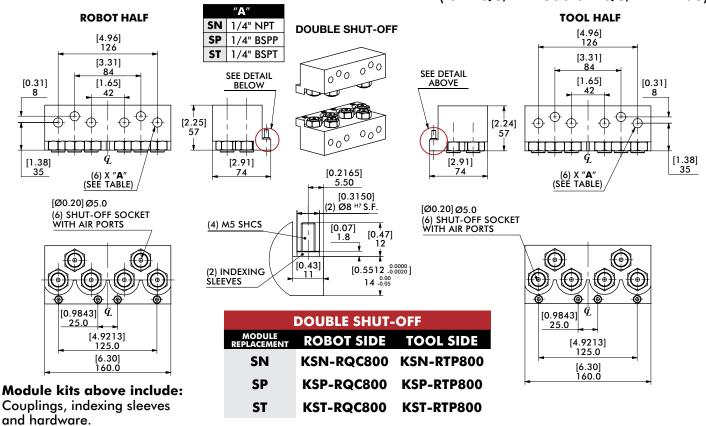
4 x 3/8" Fluid Ports Module | Non Spilling | Double Shut-Off (for RQC/RTP-800 & RQC/RTP-1200)



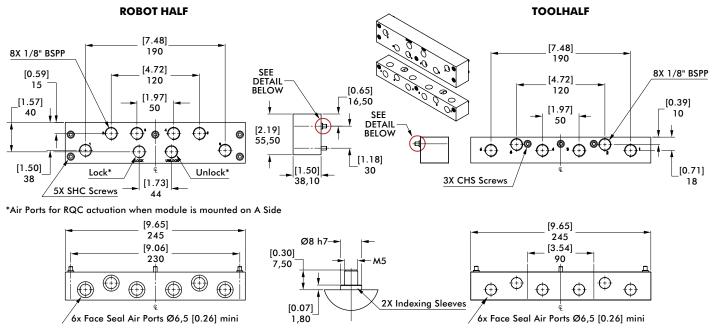


Automatic Tool Changers | Technical Specifications | Dimensions

6 x 1/4" Air Ports Module | Double Shut-Off Flat Face (**SN/SP/ST**) (for RQC/RTP-800 & RQC/RTP-1200)



8 x 1/8" Air Ports Module | Face Seal (FN) (for RQC/RTP-2400)



Module kits above include: Couplings, indexing sleeves and hardware. MODULE REPLACEMENT ROBOT SIDE TOOL SIDE

FN KPN-RQC2400 KPN-RTP2400