

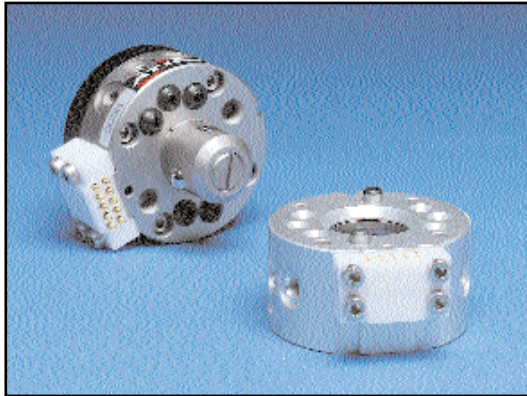
QC-5

"In our two years' experience with these tool changers, we have been impressed with a number of features.

Reliability...Simplicity...Durability and Repeatability...

Good job, ATI!"

Alex Zalucky, Robotic Development



QC-5 Master & Tool plate w/ E10 electrical module.

BENEFITS AND FEATURES

Master forces separation of tool to prevent sticking while unlocking—a common problem when working with light payloads.

Extremely high repeatability

No-Touch Locking™ technology allows up to 3.0 mm plate separation when locking.

Patented Fail-safe Locking Mechanism

Long-life Bushings For Pneumatic Pass-through

Specifications	Data	Comments		
Suggested Payload Limit	18 lb (8 kg)	Higher payloads possible with low moment		
Locking Force @ 80 psi (5.5 bar)	155 lb (690 N)	Fail-safe takes over when load exceeds locking force.		
Static Moment Capacity (X & Y)	110 lb-in (12.5 Nm)	Dynamic moment capacity 3x higher than static moment capacity. Tests show failure point at 12x X & Y static moment specifications.		
Static Moment Capacity (Z)	150 lb-in (17 Nm)			
Positional Repeatability (X, Y, & Z)	0.0004 in (0.010 mm)	Repeatability tested at rated load for one million cycles.		
Weight (when coupled)	0.8 lb (0.36 kg)	0.57 lb Master plate; 0.23 lb Tool plate		
Minimum/Maximum distance between Master & Tool plate before locking	0.04 in / 0.06 in 1.5 in / 3.0 mm	No-Touch Locking™ technology allows Master & Tool plates to lock with plate separation.		
Pneumatic Pass-through Ports (qty) size	(6) M5 or #10-32	Max pressure of 100 psi (7 bar)		
Option	# pins	Elec. rating	Description*	Comments
E10	10	3A/50V	Solder connection, miniature size	Gold-plated contact pins
E20	20	3A/50V	Solder connection, miniature size	Gold-plated contact pins
E30	30	3A/50V	Solder connection, miniature size	Gold-plated contact pins

HOW TO ORDER THE QC-5:

9120-005 - -000

M: Master
T: Tool

OPTION
(000 = no option)

Example:

9120-005M-000-000: QC-5 Master plate, no options

9120-005T-E10-000: QC-5 Tool plate w/ E10 electrical module