

QC-21

“ATI units have the best locking mechanism in event of air failure.”

Matthew Cygler, Robotic Automation PTY LTD



QC-21 Master & Tool plate w/ L19 electrical module.

BENEFITS AND FEATURES

Large 1/8 NPT Ports in a Small Lightweight Package

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

Patented Fail-safe Locking Mechanism

- ◆ Locking mechanism design results in low force acting on the piston.
- ◆ Large piston diameter and outward ball travel increase moment capacity.
- ◆ All locking parts made of R_C 58 stainless steel.

Long-life Bushings for Pneumatic Pass-through

Specifications	Data	Comments
Suggested Payload Limit	55 lb (25 kg)	Higher payloads possible with low moment
Locking Force @ 80 psi (5.5 bar)	520 lb (2314 N)	Fail-safe takes over when load exceeds locking force.
Static Moment Capacity (X & Y)	500 lb-in (56.5 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)	690 lb-in (78 Nm)	
Positional Repeatability (X, Y, & Z)	0.0006 in (0.015 mm)	Repeatability tested at rated load for one million cycles.
Weight (when coupled)	1.9 lb (0.85 kg)	1.1 lb Master plate; 0.8 lb Tool plate
Maximum allowable distance between Master and Tool plate before locking.	0.12 in (3.0 mm)	No-Touch Locking™ technology allows Master & Tool plates to lock with plate separation.
Pneumatic Pass-through Ports (qty) size	(8) 1/8 NPT	Max pressure of 100 psi (7 bar)

Option	# pins	Elec. rating	Description*	Comments
D15	15	3A/50V	D-sub connector, miniature size	Gold-plated contact pins
L19	19	3A/50V	MS miniature quick-disconnect connector	Gold-plated contact pins
L26	26	3A/50V	MS miniature quick-disconnect connector	Gold-plated contact pins

HOW TO ORDER THE QC-21:

9120-021 - -

M: Master
T: Tool

OPTION B
OPTION A

(000 = no option)

Example:

9120-021M-000-000: QC-21 Master plate, no options

9120-021T-L19-000: QC-21 Tool plate w/ L19 electrical module

Please contact sales for further option information concerning this model.