

QC-150

"ATI has been FANUC Robotics North America, Inc. preferred tool changer since 1996."

Peter H. Stephan, Program Manager for Stamping



QC-150 Master & Tool plate w/ T19 electrical module & F02 self-sealing fluid module.

BENEFITS AND FEATURES

Extremely Strong Locking Mechanism

No-Touch Locking™ technology allows up to 7.0 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	440 lb (200 kg)	Higher payloads possible with low moment
Locking Force @ 80 psi (5.5 bar)	3620 lb (16109 N)	Fail-safe takes over when load exceeds locking force.
Static Moment Capacity (X & Y)	12000 lb-in (1175 Nm)	Dynamic moment capacity 3x higher than static moment capacity. Tests show failure point at 10x X & Y static moment specifications.
Static Moment Capacity (Z)	10000 lb-in (1017 Nm)	
Positional Repeatability (X, Y, & Z)	0.0006 in (0.015 mm)	Repeatability tested at rated load at one million cycles.
Weight (when coupled)	18 lb (8.25 kg)	12.0 lb Master plate; 6.25 lb Tool plate
Maximum allowable distance between Master & Tool plate before locking.	0.28 in (7.0 mm)	No-Touch Locking™ technology allows Master & Tool plate to lock with plate separation.
Pneumatic Pass-through Ports (qty) size	(10) 3/8 NPT	Max pressure of 100 psi (7 bar)

Option	# pins	Elec. rating	Description*	Comments
H10	10	13A/600V	MS cylindrical, threaded connector	Contact pins isolated from each other
S19/S26	19/26	3A/250VAC	MS miniature quick-disconnect connector	Fluid-resistant, untouchable master pins
R19/R26	19/26	3A/250VAC	MS miniature quick-disconnect connector	Fluid-resistant, untouchable master pins
J16	16	3A/250VAC	MS miniature quick-disconnect connector	Serrated rhodium-plated contact pins
T19	19	3A/250VAC	MS cylindrical, threaded connector	Fluid-resistant, untouchable master pins
F02	n/a	n/a	(2) 3/8 NPT self-sealing ports	For fluid or pneumatic pass-through
P14	n/a	n/a	Additional (2) 1/4 NPT pneumatic ports	Provides a total of 12 pneumatic ports
P38	n/a	n/a	Additional (4) 3/8 NPT pneumatic ports	Provides a total of 14 pneumatic ports
SIP	n/a	n/a	Lock/unlock sensing	See page 26

HOW TO ORDER THE QC-150:

9120-150 - -

M: Master
T: Tool

OPTION B
OPTION A
(000 = no option)

Example:

9120-150M-000-000: QC-150 Master plate, no options

9120-150T-T19-F02: QC-150 Tool plate w/ T19 electrical module & F02 fluid module

9120-150M-R19-000: QC-150 Master plate w/ R19 electrical module