

QC-60

“Four years of problem-free operation in both arc welding and material handling environments.”

Greg Terry, Calsonic Yorozu Corporation



QC-60 Master & Tool plate w/ L19 electrical module.

BENEFITS AND FEATURES

Lightweight Design with High Strength

No-Touch Locking™ technology allows up to 5.0 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	165 lb (75 kg)	Higher payloads possible with low moment
Locking Force @ 80 psi (5.5 bar)	1660 lb (7387 N)	Fail-safe takes over when load exceeds locking force.
Static Moment Capacity (X & Y)	1740 lb-in (197 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)	2600 lb-in (294 Nm)	
Positional Repeatability (X, Y, & Z)	0.0006 in (0.015 mm)	Repeatability tested at rated load for one million cycles.
Weight (when coupled)	4.5 lb (2.06 kg)	3.0 lb Master plate; 1.5 lb Tool plate
Maximum allowable distance between Master & Tool plate before locking.	0.20 in (5.0 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	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
P18	n/a	n/a	Additional (4) 1/8 NPT pneumatic ports	Provides a total of 12 pneumatic ports
SIP	n/a	n/a	Lock/unlock sensing	See page 26

HOW TO ORDER THE QC-60:

9120-060 - -

M: Master
T: Tool

OPTION B
OPTION A
(000 = no option)

Example:

- 9120-60M-000-000:** QC-60 Master plate, no options
- 9120-60T-L19-000:** QC-60 Tool plate w/ L19 electrical module
- 9120-60M-D15-000:** QC-60 Master plate w/ D15 electrical module