

MODEL TC-20

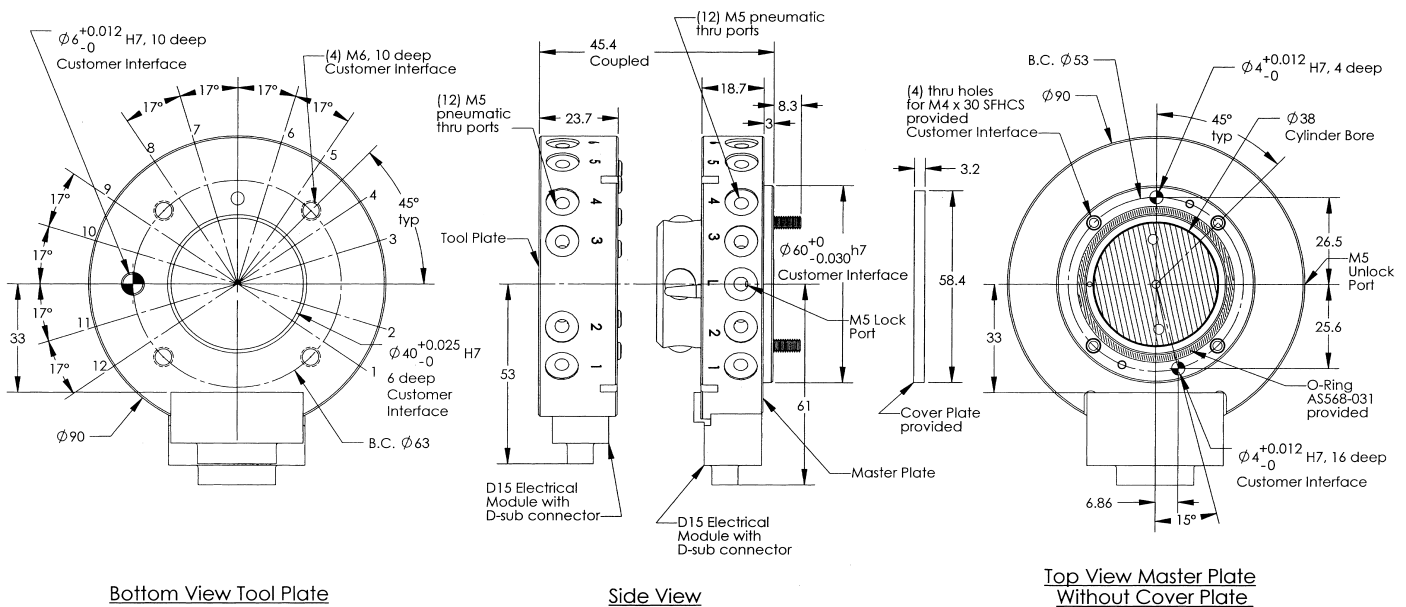
Payload Capacity—kg/lbs. 25/55
 Static Moment X & Y Resistance†—Nm/lb-in 56.5/500
 Static Moment Z Resistance†—Nm/lb-in 78/690
 Positional Repeatability X, Y & Z—mm/in 0.015/0.0006
 Weight when Coupled—kg/lb 0.85/1.9
 Locking Force @ 80 psi (5.5 bar)—N/lb 2314/520

Diameter when Coupled—mm/in 90/3.5
 Height when Coupled—mm/in 45.4/1.8
 Pneumatic Port Type—Pass Through (12) M5 or #10-32
 Pneumatic Port—“Lock” & “Unlock” M5 or #10-32
 Max. Allowable Distance Between
 Plates before Locking—mm/in 3.0/0.12

†Can handle a dynamic moment 3 times higher than the static moment capacity. Moment tests show failure point at 12 times static moment specifications.

Options

Option	# Pins	Electrical Rating	Description	Comments
D15	15	3A/150V	D-sub connector, miniature size	Gold-plated contact pins
K19	19	3A/50V	MS miniature quick-disconnect connector	Sealed, no-touch master pins
K26	26	3A/50V	MS miniature quick-disconnect connector	Sealed, no-touch master pins
SIP	N/A	N/A	Lock/unlock sensing	See page 19



Bottom View Tool Plate
 Interface Advice:
 The tool interface plate should be designed to use M6 screws
 $\phi 6$ dowel pin and the $\phi 40$ recess.

Side View
 Interface Advice:
 The robot interface plate should be designed to use M4 screws,
 $\phi 4$ dowel pin and the $\phi 60$ boss. Reference Note 3.

Top View Master Plate Without Cover Plate
 Interface Advice:
 The robot interface plate should be designed to use M4 screws,
 $\phi 4$ dowel pin and the $\phi 60$ boss. Reference Note 3.

Warning:
 Do not apply lock air pressure without master interface plate properly
 attached; otherwise, damage may occur to cover plate and o-ring.

ALL DIMENSIONS ARE IN MM

- Notes:**
- Optional electrical module shown; consult catalog for other options.
 - Mounting hardware is provided; cover plate, o-ring and master plate screws.
 - Cover plate is not necessary if robot interface plate provides sealing.
 The recommended interface plate bore depth without a cover plate is 2.5mm,
 with a cover plate is 5.6mm.
 - Orientation marks are provided to assist in robot teaching.
 - Misalignments allowed when coupling; consult specifications.
 - DXF, DWG and IGES images available upon request.