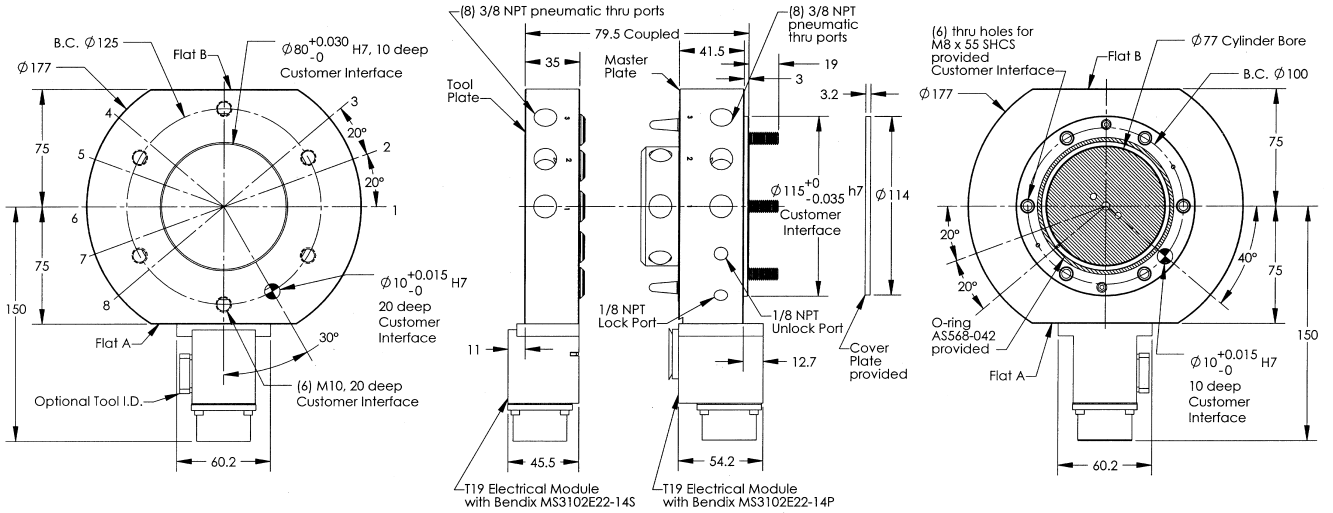
MODEL TC-100

Payload Capacity–*kg/lbs* 150/330
Static Moment X,Y & Z Resistance†–*Nm/lb-in* 784/6940
Positional Repeatability X, Y & Z–*mm/in* 0.015/0.0006
Weight when Coupled–*kg/lb* 5.8/13
Locking Force @ 80 psi (5.5 bar)–*N/lb* 12149/2730
Diameter when Coupled–*mm/in* 177/6.9
Height when Coupled–*mm/in* 79.5/3.1
Pneumatic Port Type–Pass Through (8) . . . . . 3/8 NPT
Pneumatic Port–"Lock" & "Unlock" . . . . . 1/8 NPT
Max. Allowable Distance Between
Plates before Locking-*mm/in* 7.0/0.28

†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
MT8	8	20A/500V	MS cylindrical, threaded connector	Sealed, no-touch master pins
S19/S26	19/26	5A/250V	MS miniature quick-disconnect connector	Fluid resistant, untouchable master pins
R19/R26	19/26	5A/250V	MS miniature quick-disconnect connector	Fluid resistant, untouchable master pins
J16	16	5A/250V	MS miniature quick-disconnect connector	Serrated rhodium-plated contact pins
T19	19	5A/250V	MS cylindrical, threaded connector	Fluid resistant, untouchable master pins
F02/F04	—	—	(2) or (4) 3/8 G/NPT self-sealing ports	For fluid or pneumatic pass-through
P14	—	—	Additional (2) 1/4 NPT pneumatic ports	Provides a total of 10 pneumatic ports
P18	—	—	Additional (4) 1/8 NPT pneumatic ports	Provides a total of 12 pneumatic ports
P38	—	—	Additional (4) 3/8 NPT pneumatic ports	Provides a total of 12 pneumatic ports
V34	—	—	3/4 G vacuum port	Vacuum only
SIP	—	—	Lock/unlock sensing	See page 19



Bottom View Tool Plate

Interface Advice:
The tool interface plate should be designed to use M10 screws, Ø10 dowel pin and Ø80 recess.

Side View

Top View Master Plate Without Cover Plate

Interface Advice:
The robot interface plate should be designed to use M8 screws, Ø10 dowel pin and Ø115 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.

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

ALL DIMENSIONS ARE IN MM