

# MODEL TC-41

Payload Capacity—kg/lbs . . . . . 50/110  
 Static Moment X & Y Resistance†—Nm/lb-in . . . . . 157/1390  
 Static Moment Z Resistance†—Nm/lb-in . . . . . 216/1910  
 Positional Repeatability X, Y & Z—mm/in . . . . . 0.015/0.0006  
 Weight when Coupled—kg/lb . . . . . 2.2/4.8  
 Locking Force @ 80 psi (5.5 bar)—N/lb . . . . . 4540/1020  
 Diameter when Coupled—mm/in . . . . . 130/5.12

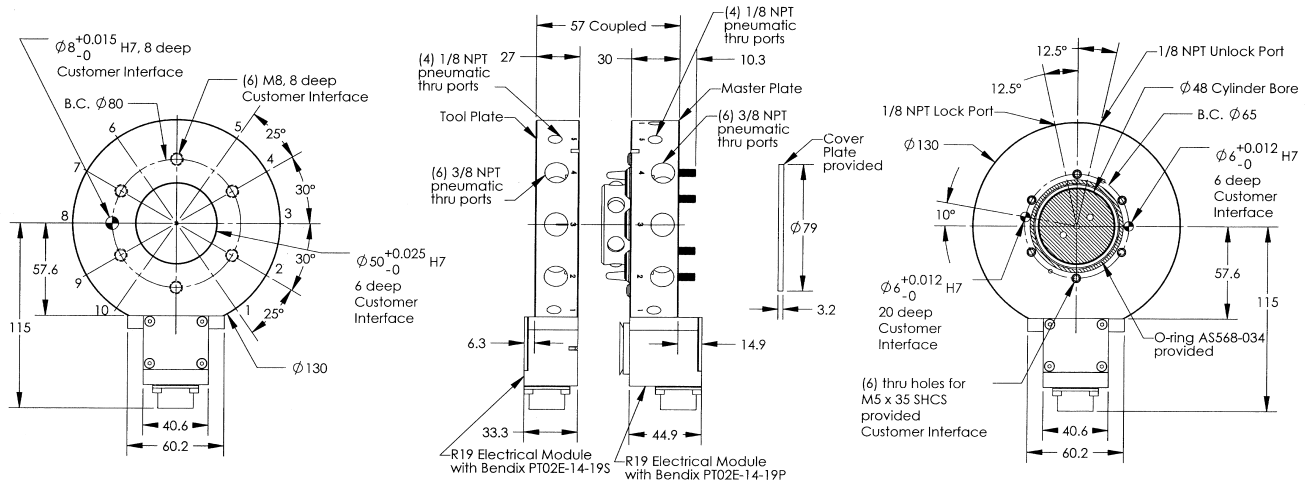
Height when Coupled—mm/in . . . . . 57/2.25  
 Pneumatic Port Type—Pass Through (6) . . . . . 3/8 NPT  
 (4) . . . . . 1/8 NPT  
 Pneumatic Port—“Lock” & “Unlock” . . . . . 1/8 NPT  
 Max. Allowable Distance Between  
 Plates before Locking—mm/in . . . . . 5.0/0.20

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

**Special Feature:** Large 3/8 NPT ports.

## 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
P18	—	—	Additional (4) 1/8 NPT pneumatic ports	Provides a total of 14 pneumatic ports
P14	—	—	Additional (2) 1/4 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 M8 screws,  $\phi 8$  dowel pin and  $\phi 50$  recess.

**Side View**

**Top View Master Plate Without Cover Plate**

Interface Advice:  
 The robot interface plate should be designed to use M5 screws, and  $\phi 6$  dowel pins. 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 with cover plate is 2.5mm.
  - Orientation marks are provided to assist in robot teaching.
  - Misalignments allowed when coupling; consult specifications.
  - DXF, DWG and IGES images available upon request.