

- Available in Ten Sizes—The Tool Changer accommodates payloads ranging from 5 to 455 kg. Standard models include as many as 74 electrical lines and 14 pneumatic ports.
- 3 year warranty—Based on years of observation and analysis by our customers in the field, and extensive laboratory testing.
- Long-life bushings for pneumatic pass-through.
- Small size and weight to payload ratio.
- All locking parts are made of R<sub>C</sub>58 stainless steel.
- Maximum pressure of 100 psi (7 bar).

## Specifications

### Additional Specifications

1. The Z-axis force must be less than the coupling force to achieve the specified repeatability.
2. The Master Plate can only be decoupled if air pressure is applied to the Unlock port, even if Z-axis force exceeds the coupling force.
3. Extra electrical contact option and extra pneumatic line option cannot be provided together.
4. Special Tool Changer models and options are available. Call for details.
5. Interface plates are available for any robot model.

### Tool Changer Model Number

Specification Description	TC-5 Page 6	TC-11 Page 7	TC-20 Page 8	TC-21 Page 9	TC-40 Page 10	TC-41 Page 11	TC-60 Page 12	TC-71 Page 13	TC-100 Page 14	TC-150 Page 15	TC-300 Page 16
Static Moment Capacity (X& Y) (English, lb-in)	110	220	500	500	1390	1390	1740	3500	6940	10400	29100
Static Moment Capacity (X& Y) (Metric, N-m)	12.5	25	56.5	56.5	157	157	197	395	784	1175	3289
Static Moment Capacity (Z) (English, lb-in)	150	300	690	690	1910	1910	2600	3500	6940	9000	25000
Static Moment Capacity (Z) (Metric, N-m)	17	34	78	78	216	216	294	395	784	1017	2825
Pneumatic Pass-Through (Qty) Size	(6) M5 or #10-32	(6) M5 or #10-32	(12) M5 or #10-32	(8) <sup>†</sup> 1/8 NPT	(8) <sup>†</sup> 1/8 NPT	(6) 3/8 NPT (4) 1/8 NPT	(8) <sup>†</sup> 1/8 NPT	(8) <sup>†</sup> 1/4 NPT	(8) <sup>†</sup> 3/8 NPT	(10) <sup>†</sup> 3/8 NPT	(10) <sup>†</sup> 3/8 BSPT
Pneumatic Lock & Unlock Port Size	M5 or #10-32	M5 or #10-32	M5 or #10-32	M5 or #10-32	1/8 NPT	1/8 NPT	1/8 NPT	1/8 NPT	1/8 NPT	1/8 NPT	1/4 BSPT

<sup>†</sup>Additional pneumatic pass-through ports are available for these models.  
All models can handle a dynamic moment 3X higher than the static moment capacity. Moment tests show failure point at 12 times X & Y static moment specifications.