

	<b>U-4618</b>	<b>U-4619</b>	<b>U-4619-HA</b>	<b>U-4620</b>	<b>U-4621</b>	<b>U-4622</b>	<b>U-4623</b>
<b>Model Number</b>	Page 6	Page 7	Page 8	Page 9	Page 10	Page 11	Page 12
<b>Moment Resistance†</b> <small>Variable from 10 to 90 psi (0.68 to 6.2 bar)</small>	15-62 in-lb 2-7 Nm	29-274 in-lb 3-31 Nm	29-274 in-lb 3-31 Nm	129-704 in-lb 15-80 Nm	260-1,736 in-lb 29-196 Nm	409-3,982 in-lb 46-450 Nm	1,240-11,159 in-lb 140-1,261 Nm
<b>Torque Resistance†</b> <small>Variable from 10 to 90 psi (0.68 to 6.2 bar)</small>	12-66 in-lb 1-7 Nm	56-362 in-lb 6-41 Nm	56-362 in-lb 6-41 Nm	96-784 in-lb 11-89 Nm	231-1,766 in-lb 26-200 Nm	681-4,660 in-lb 77-527 Nm	1,426-12,833 in-lb 161-1,450 Nm
<b>Force Resistance†</b> <small>Variable from 10 to 90 psi (0.68 to 6.2 bar)</small>	18-91 lbf 80-405 N	25-229 lbf 111-1,019 N	25-229 lbf 111-1,019 N	67-425 lbf 298-1,891 N	97-762 lbf 432-3,390 N	142-1,353 lbf 631-6,021 N	300-2,697 lbf 1,334-11,997 N
<b>Angular Compliance</b>	±8 deg (0.14 rad)	±8 deg (0.14 rad)	±13 deg (0.23 rad)	±8 deg (0.14 rad)	±8 deg (0.14 rad)	±8 deg (0.14 rad)	±8 deg (0.14 rad)
<b>Rotary Compliance</b>	±24 deg (0.42 rad)	±24 deg (0.42 rad)	±24 deg (0.42 rad)	±24 deg (0.42 rad)	±24 deg (0.42 rad)	±28 deg (0.49 rad)	±24 deg (0.42 rad)
<b>Axial Compliance</b> <small>Compression</small>	0.18 in 4.6 mm	0.31 in 7.9 mm	0.31 in 7.9 mm	0.42 in 10.7 mm	0.55 in 14.0 mm	0.75 in 19.1 mm	1.06 in 26.9 mm
<b>Repeatability (x, y &amp; z)</b> <small>Measured at center and O.D. of tool plate</small>	±0.0005 in ±0.0127 mm	±0.0005 in ±0.0127 mm	±0.0005 in ±0.0127 mm	±0.0005 in ±0.0127 mm	±0.0005 in ±0.0127 mm	±0.0005 in ±0.0127 mm	±0.0005 in ±0.0127 mm
<b>Repeatability (about z axis)</b> <small>Measured at center and O.D. of tool plate</small>	±0.017 deg	±0.017 deg	±0.017 deg	±0.017 deg	±0.017 deg	±0.017 deg	±0.017 deg
<b>Mass</b>	0.2 lb (0.09 kg)	1 lb (0.45 kg)	1 lb (0.45 kg)	2.25 lb (1.02 kg)	5 lb (2.27 kg)	12.25 lb (5.56 kg)	32 lb (14.52 kg)
<b>Height</b>	1.12 in (28.5 mm)	2.03 in (51.6 mm)	2.67 in (67.8 mm)	2.49 in (63.3 mm)	3.10 in (78.7 mm)	4.14 in (105.2 mm)	5.61 in (142.6 mm)
<b>Diameter</b>	1.95 in (49.5 mm)	3.40 in (86.4 mm)	3.40 in (86.4 mm)	4.50 in (114.3 mm)	5.91 in (150.2 mm)	8.00 in (203.2 mm)	10.93 in (277.6 mm)
<b>Pre-Trip Compliance</b> <small>Range of Adjustability</small>	Factory adjustable from 0 to 0.080 in. 0 to 2.03 mm	0 to 0.100 in 0 to 2.54 mm	0 to 0.100 in 0 to 2.54 mm	0 to 0.100 in 0 to 2.54 mm	0 to 0.100 in 0 to 2.54 mm	0 to 0.100 in 0 to 2.54 mm	0 to 0.100 in 0 to 2.54 mm
<b>Temperature Rating</b>	-30° to 185°F -34° to 85°C	-30° to 210°F -34° to 99°C	-30° to 210°F -34° to 99°C	-30° to 210°F -34° to 99°C	-30° to 210°F -34° to 99°C	-30° to 210°F -34° to 99°C	-30° to 210°F -34° to 99°C
<b>Sensor</b>	10-30 VDC 200mA normally closed switch						
<b>Response Time</b>	2-6 ms	2-6 ms	2-6 ms	2-6 ms	4-10 ms	4-10 ms	4-10 ms

NOTE: Collision sensor must be electrically isolated from the robot when the tooling below it has a voltage potential.

†Resistance at the factory setting of 0.025" (0.64 mm) compliance. Resistance increases slightly as the pre-trip compliance is increased.



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