







## INSTALLATION INFORMATION 3A SERIES MULTI-AXIS LOAD CELLS

- Interface model 3A Series multi-axis load cells must be mounted on a surface that is flat and rigid enough so as to not deform appreciably under load.
- Fasteners should be Grade 8.8 for 3A60 thru 3A160 and Grade 10.9 for 3A300 and 3A400
- Sensors should be mounted using the recommended screws and mounting torques in the table below.
- Dowel pins should be used at all mounting surfaces.
- For 3A300 and 3A400 at least two dowel pins should be used on the live end. Up to 5 can be used.
- For sensors 500N and above, a thin coating of Loctite 638 or similar is recommended on the three mounting surfaces to prevent slippage.
- Mounting fixtures and plates may only contact the sensor at the indicated mounting surfaces.

MOUNTING DETAILS										
	Model	Rated load/ Capacity	Dimensions	Material	Measuring platform / Live End			Stator / Dead End		
					Thread	Tightening Torque (Nm)	Cylinder pin Hole (mm)	Thread / Cylinderhead Screw	Tightening Torque (Nm)	Cylinder pin Hole (mm)
	3A40	±2N ±10N ±20N ±50N	40 mm x 40 mm x 20 mm	aluminum alloy	internal thread 4x M3x0.5 depth 8 mm	1	no	internal thread 4x M3x0.5 depth 8 mm	1	no
	3A60A	±10N ±20N ±50N ±100N	60 mm x 60 mm x 25 mm	aluminum alloy	internal thread 4x M3x0.5 depth 12 mm	1	2 x Ø2 E7 depth 12 mm	2 x DIN EN ISO 4762 M4x0.7 6.8	2	2 x Ø3 E7 depth 5 mm
		±200N ±500N		stainless steel	internal thread 4x M3x0.5 depth 12 mm	1	2 x Ø2 E7 depth 12 mm	2 x DIN EN ISO 4762 M4x0.7 6.8	2	2 x Ø3 E7 depth 5 mm
	3A120	±50N ±100N ±200N ±500N ±1000N	120 mm x 120 mm x 30 mm	aluminum alloy	Internal thread 4x M6x1 Depth 12 mm	10	2 x Ø5 E7 Depth 12 mm	4 x DIN EN ISO 4762 M6x1 6.8	10	2 x Ø5 E7 depth 3 mm
		±1kN ±2kN ±5kN		stainless steel	internal thread 4x M6x1 Depth 12 mm	15	2 x Ø5 E7 Depth 12 mm	4 x DIN EN ISO 4762 M6x1 10.9	15	2 x Ø5 E7 depth 3 mm
	3A160	±2kN ±5kN	160 mm x 160 mm x 66 mm	tool steel	internal thread 4x M10x1.5 depth 15 mm	50	2 x Ø8 H7 depth 15 mm	4 x DIN EN ISO 4762 M12x1.75 10.9	80	2 x Ø8 H7 depth 5 mm
		±10kN ±20kN ±50kN		tool steel	internal thread 4x M10x1.5 depth 15 mm	60	2 x Ø8 H7 depth 15 mm	4 x DIN EN ISO 4762 M12x1.75 10.9	100	2 x Ø8 H7 depth 5 mm
	3A300	±50kN	300 mm x 300 mm x 100 mm	tool steel	internal thread 4x M24x3	500	5x Ø25 H7	4 x DIN EN ISO 4762 M24x3 10.9	500	2 x Ø25 H7 depth 40 mm
		±100kN ±200kN				800			800	
	3A400	±500kN	400 mm x 400 mm x 100 mm	tool steel	internal thread 4x M30x3.5	1800	5x Ø30 E7	4 x DIN EN ISO 4762 M30x3.5 10.9	1800	2 x Ø30 E7 depth 40 mm

