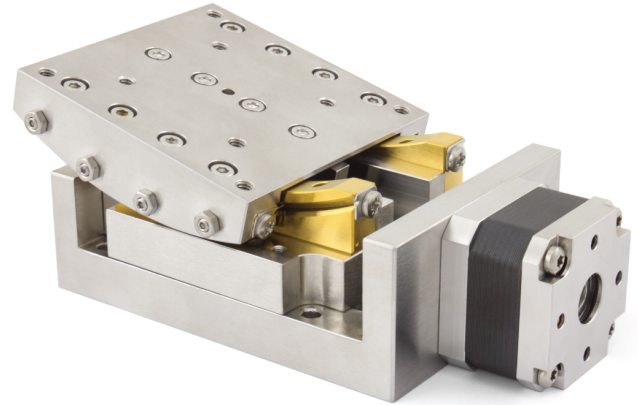


TSX Goniometer Stage

UHV Goniometer Stage

AML ultra high vacuum compatible goniometer stages are manufactured with UHV compatible material and construction methods in an ISO 7 cleanroom and utilize AML D35.1 UHV stepper motors.

The TSX72K0 features a rigid stainless-steel construction and low gear ratio, allowing for a high load capacity, whilst maintaining smooth motion through its 30 degrees of travel. Eight mounting holes are positioned on the top plate to allow for a wide variety of mounting positions and easy integration.

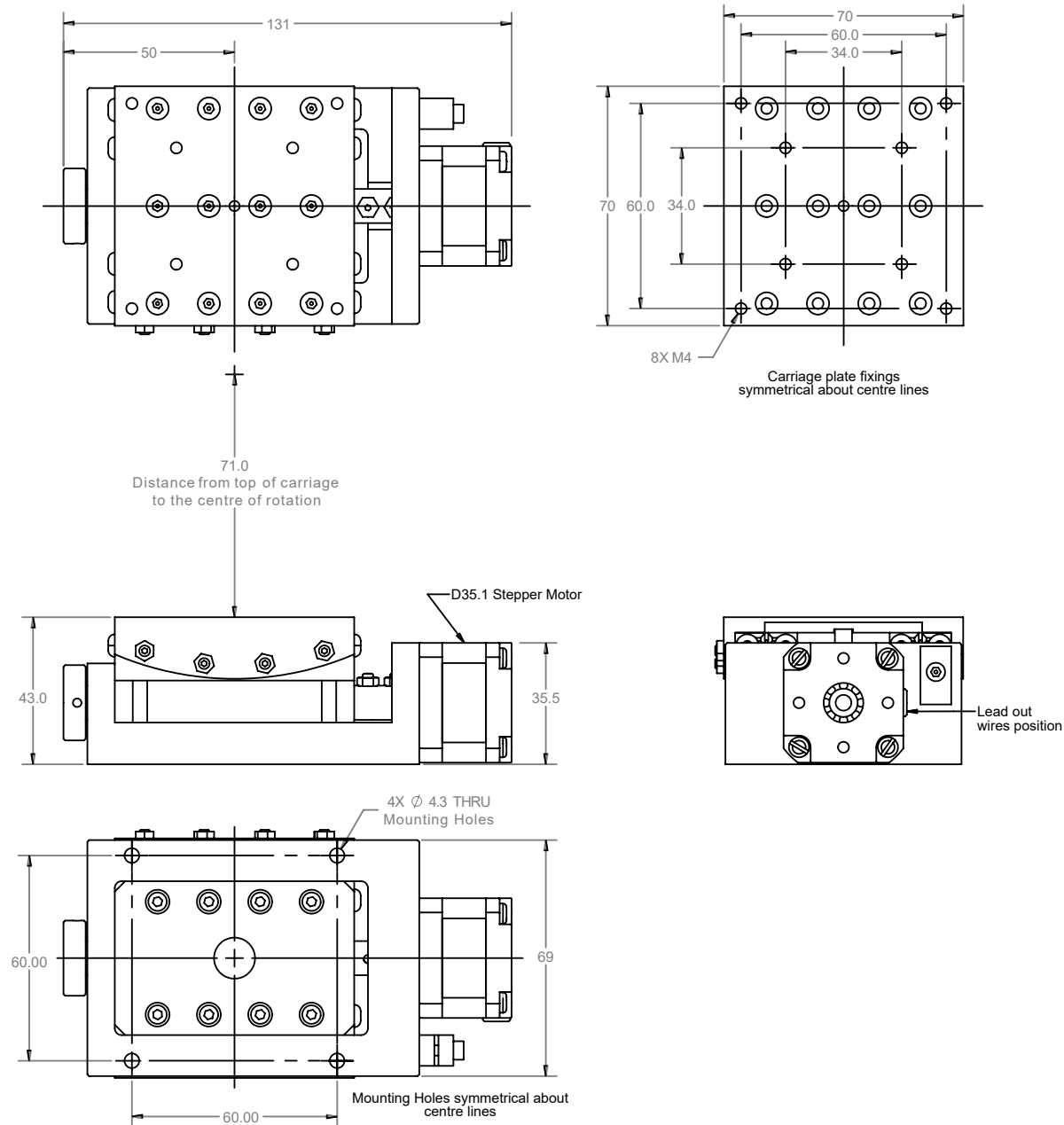


SPECIFICATIONS

Travel range	±15°
Resolution in full steps	0.005°
Work distance (rotation centre to table)	71 mm
Maximum loaded speed	25°/s
Table size	70 mm x 70 mm
Maximum torque	10 N·m
Bi-directional repeatability	±176 µrad
Centred load capacity (Normal)	40 kg
Wobble	±310 µrad
Radial compliance	30 µrad/N·m
Vacuum	1 x 10 ⁻¹⁰ mBar
Maximum temperature	200°C
Motor	D35.1
Mass including motor	1.72 kg
Cable length	1.5 m

As standard, TSX goniometer stages are supplied lubricated with Nyetorr® 6300 low-vapour pressure (6×10^{-12} mbar) grease. Dry lubrication with molybdenum disulfide is available as an alternative option but this will reduce the expected life.

DIMENSIONS



ORDERING INFORMATION

Order Code	
TSX72K0	Goniometer stage 0.005° / step resolution
TSX72K0-LS	TSX72K0 with limit switches

Related Products	
SMD3	Stepper Motor Drive
MLF18F	18-way Electrical Feedthrough
MLF18SMD3	3 metre lead, SMD3 to MLF18F
RSX3K6	Rotation stage 0.1° / step resolution
LTVL-xxx	Translation Stage, 5 µm (xxx = travel in mm)



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AML pursues a policy of continuous improvement and reserves the right to make detail changes to specifications without consultation. E and OE.