

MXL-6D45 | Configuration review

REQUEST WORKSHEET - NOT A RELEASED DATASHEET

Use this sheet to define a quotation and drawing review. Targets and reference names do not establish an approved MXL geometry, measured performance or replacement fit.

Requested MXL measurement envelope

Architecture	Six-component force / torque configuration
Measured components	6-Axis Force & Torque [Fx...Mz]
Force target	145-1160 N requested, depending on axis
Moment target	5-20 N m requested
MXL mounting / dimensions	Drawing review required
Calibration and limits	Actual crosstalk, combined loads, safe/ultimate overload, temperature and environment require model-specific evidence.

Configuration-specific review points

- Specify all six rated components and the simultaneous combined-load envelope.
- A tool offset changes the moment at the sensor origin: include the tool mass, center of gravity and maximum reach.
- Match the serial-specific calibration matrix, coordinate frame, sampling, filter delay and controller protocol.

Third-party reference - separate from MXL approval

ATI Mini45, standard reference | Official Mini45 page; drawing suffix and calibration selected separately | reviewed 2026-10-31
diameter 45 x 15.7 mm including standard interface plates on the cited page
Choose the actual DAQ, network or EtherCAT interface and serial-specific calibration; no generic bridge or connector is assumed
SI-145-5, SI-290-10 and SI-580-20 are distinct calibrations. Individual ranges do not approve an arbitrary combined load.
[Open primary manufacturer reference](#)

Application and documentation checklist

Complete the values below, then use the website or email template. A request does not establish document availability, quotation terms or a delivery date.

Force capacities, with units and sign convention

Moment capacities, with units (if measured)

Largest simultaneous load / tool offset / stop event

Mounting footprint, bore and cable clearance

Original manufacturer, model and drawing revision

Excitation, bridge resistance, sensitivity and pinout

DAQ / PLC / PC protocol and useful bandwidth

Temperature, ingress, cable motion and environment

Quantity, delivery country and purchasing organization

Request the applicable engineering records

- ☐ Approved drawing / STEP CAD and model-specific datasheet
- ☐ Serial calibration record, uncertainty and traceability scope
- ☐ Coordinate definition and applicable decoupling matrix
- ☐ Connector pinout, cable specification and mating parts
- ☐ Supported SDK / driver / sample code versions and release files
- ☐ EtherCAT ESI / PDO mapping if supported by the supplied module
- ☐ Configuration-specific quotation, supply and delivery terms

[Open this model and document request on the website](#)

[Open a model-specific email request template](#)