

MT-PLC Family Selection Workbook

Magatom Dynamics Co., Ltd. / reviewed 2026-10-27

Planning resource only. Not a released product datasheet, approved CAD drawing, measured calibration certificate or conformity statement.

Requested family envelopes

MT-PLC-12 / Universal tension & compression: requested 1 to 500 kN. Outer mounting flange + central threaded hub. Review: Bidirectional force points, thread engagement and fixture stiffness.

MT-PLC-1201 / 1201-style compression: requested 2 to 1800 kN. Outer mounting flange + spherical compression contact. Review: Contact radius, platen hardness, overload peaks and assembled height.

MT-PLC-3201 / 3201-style stainless steel: requested 2.5 to 1000 kN. Stainless radial-web body + sealed cable/connector assembly. Review: Media, seal conditions, cable exit and complete-assembly evidence.

MT-PLC-FLG / Flange-to-flange: requested 0.5 to 200 kN. Inner and outer bolted flange interfaces. Review: Both bolt circles, locating pilots, fastener access and axial stiffness.

MT-PLC-FAT / Fatigue & dual bridge: requested 1.25 to 2000 kN. Radial-web load path with optional independent bridges. Review: Mean force, alternating amplitude, frequency, cycles and two acquisition chains.

Identify the complete interface

Record original manufacturer, full model and suffix, serial if available and drawing revision. Keep original dimensions separate from proposed MT-PLC dimensions.

OD: _____ mm / in; BCD: _____ mm / in; hole count/bore/counterbore: _____; pilot: _____; cell height: _____; base/button stack: _____; thread/pitch/tolerance: _____; permitted engagement/insertion depth: _____; sensor/assembly/packed mass: _____.

Define the measured force

Loading mode: _____; nominal/peak/mean/alternating force: _____; unit: _____; frequency/waveform: _____; cycles: _____; side force/moment/torque: _____; temperature/medium/exposure: _____.

1 lbf = 4.4482216152605 N; 1 in = 25.4 mm. Convert values, but do not substitute a nearby original nominal capacity or thread designation.

Define the measurement chain

Bridge(s): _____; excitation: _____; output/polarity: _____; pinout/cable revision: _____; amplifier/input: _____; sample rate/filter/bandwidth: _____; PLC/network: _____; calibration range/direction/uncertainty: _____.

Request the reviewed documents

Request the configuration-specific STEP drawing, released datasheet, dimensions, material/seal/fatigue evidence and calibration scope. Confirm availability with the actual configuration before purchase.

Send the completed brief to inquiry@pancakeloadcells.com, or use <https://pancakeloadcells.com/contact>.