



MACK TRON 2[®] B80 SMART INTEGRATED SERVOMOTOR



CANopen

EtherCAT

Modbus-RTU - RS485

48 Vdc 1.2-3.5pk Nm

MACK TECHNOLOGY: MACK TRON 2 B 80 (MKT2B80)



Brushless servo-motor with integrated drive

MackTron2 is the upgraded version of the previous Mack Tron integrated-drive servomotor. Powered by 48Vdc, it delivers torque from 1.2 Nm (M1) up to 3.5 Nm (Mpk).

Designed for fast and simple wiring, MackTron2 combines high performance with a compact footprint. It's the ideal solution for decentralized architectures, significantly reducing control panel space—or even eliminating the panel altogether. Its ultra-compact dimensions allow installation in tight spaces without impacting machine design.

STANDARD FEATURES

- ◆ B.E.M.F. and waveform current
- ◆ Very low torque fluctuation at low speeds
- ◆ Serial encoder, absolute single-turn or multi-turn
- ◆ Automatic management of the electromagnetic holding brake
- ◆ Bi-colour status and diagnostic LED
- ◆ SpeederOne.2 software interface
- ◆ RS485 for configuration, diagnostic and positioning
- ◆ IP class protection IP54 and IP65
- ◆ STO Safe Torque Off
- ◆ SBC Safe Brake Control
- ◆ 3 digital inputs programmable
- ◆ Limit switches directly managed by MackTron2
- ◆ Performances declared in the worst conditions: torque curves measured with motor thermally insulated (in air) at 40°C ambient temperature

OPERATIVE MODE

- ◆ CANopen
- ◆ EtherCAT
- ◆ Modbus-RTU-RS485
- ◆ Analogic throttle for speed and torque control

HYBRID SINGLE CABLE

- ◆ Power supply and signals in a single cable
- ◆ Mobile usage for chain track, flame / oil resistant
- ◆ Vinyl flex external sheath - PVC
- ◆ 5 million bending cycles
- ◆ Minimum bending radius: 60 mm static, 120mm dynamic
- ◆ Operating temperature: -20°C / +80°C (dynamic)
- ◆ Trail speed: 300m/min. max
- ◆     DIN VDE
- ◆ Acceleration: 20m/sec²

MODEL	MKT2B80
SIZE	M
M1 Torque at 100Rpm (TA=40°C)	1.2 Nm
Mpk Peak Torque	3.5 Nm
Power Supply	48 Vdc (24 Vdc available with reduction of rated speed)
Winding Code	P32
N _n Rated Speed at 48 VDC	3000 Rpm



Less wiring through the single hybrid cable
Power supply, safeties, signals and
Modbus-RTU- RS485

Holding brake available

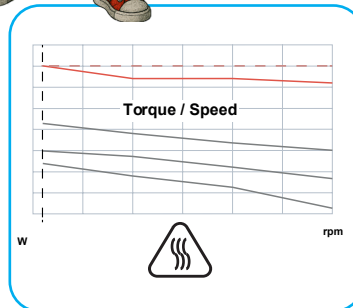
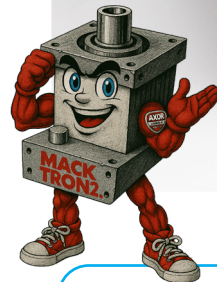


Mobile cable usage in Vinyl flex - PVC



ANALOG
THROTTLE

Analog Throttle
Speed/Torque control



Torque Curves



Freeware



Digital inputs management (limit switch)



CB CanBUS control mode
EC EtherCAT control mode

Connector orientation front/rear

Bi-colour status and diagnostic LED



Hibryd single cable