Tolomatic™
EXCELLENCE *IN MOTION*

Nidec — *All for dreams*

CONTROL TECHNIQUES
www.controltechniques.com

SERVO SYSTEMS FOR TOLOMATIC LINEAR ACTUATORS

Tolomatic has teamed up with Nidec to provide high-torque Control Techniques motion control systems for our high-force actuators.
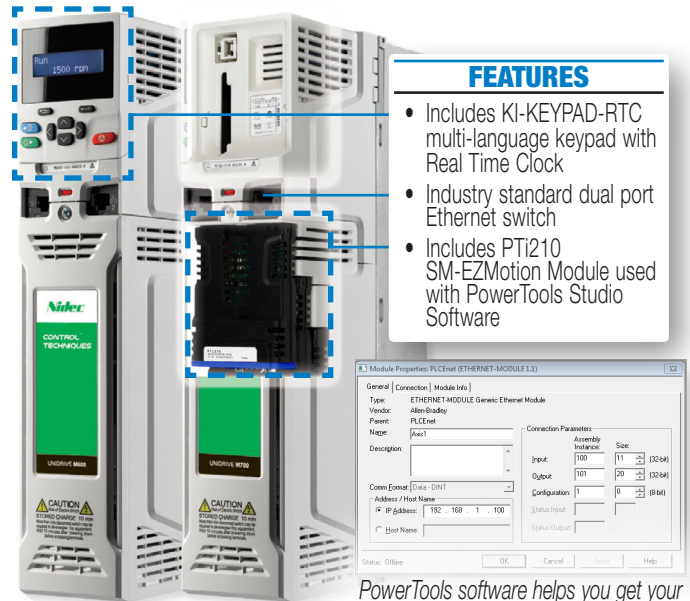
Each system provides a servo motor with absolute encoder paired with a matching servo drive, SM-EZmotion control module, power/brake cable, and feedback cable.

UNIDRIVE M700 SERVO SERIES
WITH SM-EZMOTION AND POWERTOOLS SOFTWARE

The Nidec Unidrive M700 is a state-of-the-art family of servo drives with ratings from 2 kW to 11 kW.

M700 servo drives for Tolomatic actuators are provided with the PTi210 SM-EZMotion module to provide a fully programmable single axis motion control system.
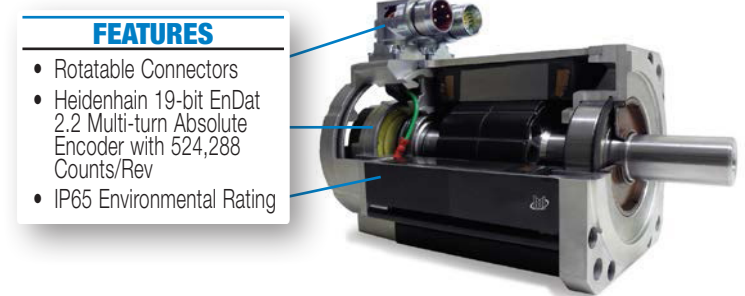
FEATURES
- Includes KI-KEYPAD-RTC multi-language keypad with Real Time Clock
- Industry standard dual port Ethernet switch
- Includes PTi210 SM-EZMotion Module used with PowerTools Studio Software

PowerTools software helps you get your servo system up and running quickly

UNIMOTOR HD BRUSHLESS AC SERVO MOTOR

The Unimotor HD is a high dynamic servo motor range, designed for maximum torque density. This AC brushless servo motor range provides an exceptionally compact, low inertia solution for applications where rapid acceleration and deceleration is required.

FEATURES
- Rotatable Connectors
- Heidenhain 19-bit EnDat 2.2 Multi-turn Absolute Encoder with 524,288 Counts/Rev
- IP65 Environmental Rating

SM-EZMOTION MODULE

- Simple drag and drop programming allows the user to create programs "out of the box" without having to write any code

- Programming can be completed in 5 steps, with the software guiding the user through drive configuration, I/O configurations and programming steps

- Four digital inputs and two digital outputs for high-speed I/O operations

PTi210 SM-EZMotion Module

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NIDEC SYSTEMS FOR TOLOMATIC ACTUATORS

Selecting Nidec Systems for use with Tolomatic Actuators

1. Use Tolomatic's on-line Sizelt software to define your motion profiles and select the appropriate linear actuator

2. Using the required torque and speed provided by the Sizelt software, use the table below to find the Nidec servo motor, servo drive, power cable, and feedback cable

200 Volt Motor/Drive Systems (180-264 VAC)

SYSTEM RATED TORQUE (NM)	SYSTEM PEAK TORQUE (NM)	RATED SPEED (RPM)	MOTOR INERTIA (KG-CM²)	SERVO MOTOR WITH ABS ENDAT ENCODER	M700 SERVO DRIVE WITH EZMOTION MODULE AND KEYPAD	POWER CABLE (xx= 05, 10, and 15m)	FEEDBACK CABLE (xx= 05, 10, and 15m)
77.5	246.4	1,000	103.52	190EDF100JAECA	M700-06200440A10101AB100-EZ	MBBEBC0xx0	SIBAAA0xx0
70.0	140.0	1,000	22.10	190EDF100JAECA	M700-05200250A10101AB100-EZ	MBBDBC0xx0	SIBAAA0xx0
42.5	123.2	2,000	54.61	190EDC200JAECA	M700-06200440A10101AB100-EZ	MBBEBC0xx0	SIBAAA0xx0
34.5	114.0	1,000	27.20	142EDE100BAECA	M700-05200250A10101AB100-EZ	MBBAAA0xx0	SIBAAA0xx0
21.4	70.0	2,000	22.10	142EDD200JAECA	M700-05200250A10101AB100-EZ	MBBBAB0xx0	SIBAAA0xx0
20.9	46.5	3,000	22.10	142EDD300JAECA	M700-05200250A10101AB100-EZ	MBBDBC0xx0	SIBAAA0xx0
15.6	51.8	2,000	8.38	115EDD200BAECA	M700-04200185A10101AB100-EZ	MBBAAA0xx0	SIBAAA0xx0
10.5	34.4	3,000	6.40	115EDD300BAECA	M700-04200185A10101AB100-EZ	MBBAAA0xx0	SIBAAA0xx0

400 Volt Motor/Drive Systems (342-528 VAC)

SYSTEM RATED TORQUE (NM)	SYSTEM PEAK TORQUE (NM)	RATED SPEED (RPM)	MOTOR INERTIA (KG-CM²)	SERVO MOTOR WITH ABS ENDAT ENCODER	M700 SERVO DRIVE WITH EZMOTION MODULE AND KEYPAD	POWER CABLE (xx= 05, 10, and 15m)	FEEDBACK CABLE (xx= 05, 10, and 15m)
68.5	172.8	1,500	103.52	190UDF150JAECA	M700-05400270A10101AB100-EZ	MBBCAB0xx0	SIBAAA0xx0
42.5	129.6	2,000	54.61	190UDC200JAECA	M700-05400270A10101AB100-EZ	MBBCAB0xx0	SIBAAA0xx0
31.7	96.0	1,500	27.20	142UDE150BAECA	M700-04400150A10101AB100-EZ	MBBCAB0xx0	SIBAAA0xx0
29.6	72.0	2,000	27.20	142UDE200BAECA	M700-04400150A10101AB100-EZ	MBBCAB0xx0	SIBAAA0xx0
23.0	48.0	3,000	27.20	142UDE300BAECA	M700-04400150A10101AB100-EZ	MBBCAB0xx0	SIBAAA0xx0
15.6	48.0	2,000	8.38	115UDD200BAECA	M700-03400100A10101AB100-EZ	MBBAAA0xx0	SIBAAA0xx0
13.6	32.0	3,000	8.38	115UDD300BAECA	M700-03400100A10101AB100-EZ	MBBAAA0xx0	SIBAAA0xx0

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COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 = Certified site: Hamel, MN

USA - Headquarters   MEXICO