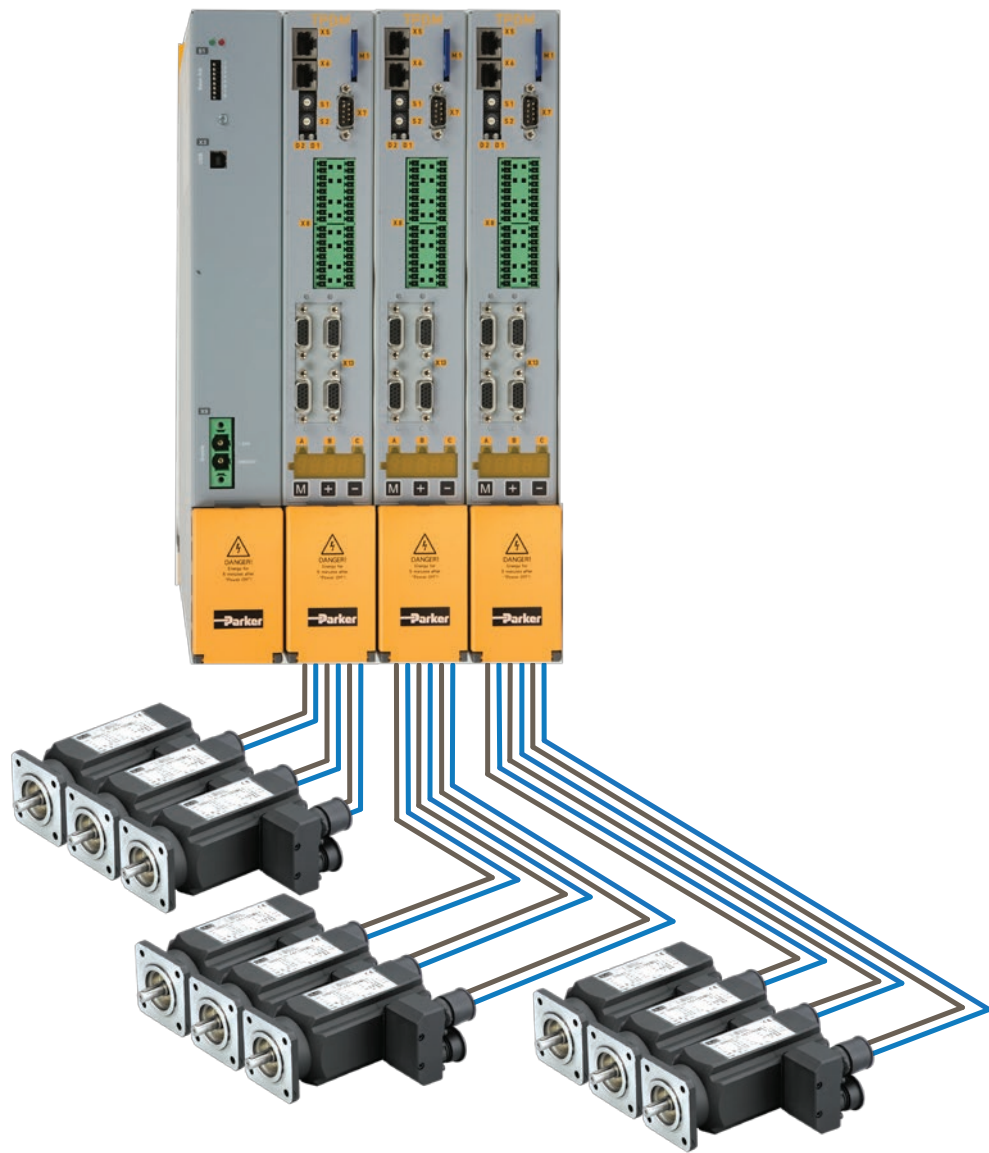
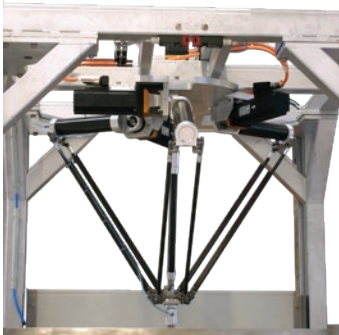




aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding



TPD-M

Triple Axis Servo Drive System



ENGINEERING YOUR SUCCESS.



WARNING – USER RESPONSIBILITY

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

- This document and other information from Parker-Hannifin Corporation, its subsidiaries and authorized distributors provide product or system options for further investigation by users having technical expertise.
- The user, through its own analysis and testing, is solely responsible for making the final selection of the system and components and assuring that all performance, endurance, maintenance, safety and warning requirements of the application are met. The user must analyze all aspects of the application, follow applicable industry standards, and follow the information concerning the product in the current product catalog and in any other materials provided from Parker or its subsidiaries or authorized distributors.
- To the extent that Parker or its subsidiaries or authorized distributors provide component or system options based upon data or specifications provided by the user, the user is responsible for determining that such data and specifications are suitable and sufficient for all applications and reasonably foreseeable uses of the components or systems.

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Parker Hannifin

The global leader in motion and control technologies

A world class player on a local stage

Global Product Design

Parker Hannifin has more than 40 years experience in the design and manufacturing of drives, controls, motors and mechanical products. With dedicated global product development teams, Parker draws on industry-leading technological leadership and experience from engineering teams in Europe, North America and Asia.

Local Application Expertise

Parker has local engineering resources committed to adapting and applying our current products and technologies to best fit our customers' needs.

Manufacturing to Meet Our Customers' Needs

Parker is committed to meeting the increasing service demands that our customers require to succeed in the global industrial market. Parker's manufacturing teams seek continuous improvement through the implementation of lean manufacturing methods throughout the process. We measure ourselves on meeting our customers' expectations of quality and delivery, not just our own. In order to meet these expectations, Parker operates and continues to invest in our manufacturing facilities in Europe, North America and Asia.

Electromechanical Worldwide Manufacturing Locations

Europe

Littlehampton, United Kingdom
Dijon, France
Offenburg, Germany
Filderstadt, Germany
Milan, Italy

Asia

Wuxi, China
Jangan, Korea
Chennai, India

North America

Rohnert Park, California
Irwin, Pennsylvania
Charlotte, North Carolina
New Ulm, Minnesota



Offenburg, Germany

Local Manufacturing and Support in Europe

Parker provides sales assistance and local technical support through a network of dedicated sales teams and authorized technical distributors throughout Europe.

For contact information, please refer to the Sales Offices on the back cover of this document or visit www.parker.com



Milan, Italy



Littlehampton, UK



Filderstadt, Germany



Dijon, France

Triple Axis Servo Drive - TPD-M

Overview

Description

TPD-M is a multi axis system where each power module can supply up to three servo motors. The base configuration consists of a common DC bus supply (PSU) and multiples TPD-M modules, connected through DC bus bars.

The modules are available as one, two or three axis versions. This makes the system very flexible.

The TPD-M drive has been specifically designed for the Packaging OEM market but it can also be used in many other centralized automation structures which incorporate a large number of servo axes offering significant advantages.

TPD-M controls also induction motors with feedback or sensorless in V/f mode.

- Packaging machines
- Material forming machines
- Textile machines
- Paper and converting lines
- Plastics machines
- Machines tools

Motion control functionality is performed by means of EtherCAT Real Time CoE (CAN over Ethernet) communication, CAN / CANopen DS402 communication.



Technical characteristics - Overview

TPD Axis	Continuous current [A _{rms}]	Peak current A (≤ 2 s)
3 axis	2 + 2 + 2	4 + 4 + 4
	8 + 5 + 5	16 + 10 + 10
2 axis	2 + 2	4 + 4
	5 + 5	10 + 10
	8 + 8	16 + 16
	15 + 5	30 + 10
1 axis	5/10/15/30	10/20/30/60

Features

- The most compact multi-axis servo drive on the market
- Quick and simple wiring
- One, two or three axis versions combined in one housing
- Removable SD card
- Common DC bus connection for energy exchange between drives
- Feedback: Resolver, Hiperface and EnDat interface, Hall sensors, rotary and linear encoders
- New feedback: Hiperface DSL feedback ®
Reduced cabling; only one cable connection between drive & motor
- Fieldbus: CANopen - standard, EtherCAT - option
- Serial link and CAN auto-address

TPD-M Overview

TPD-M has been developed for all applications where multiple drives are normally used and gives both OEMs and end users the opportunity to reduce build, configuration and operating costs, while boosting productivity and profitability.

Typical applications for TPD-M include packaging machines, material forming machines, textile, paper, converting and plastics machines, where large numbers of axes are required.

Features and Benefits

Control cabinet space, size and cost savings

The integration of three servo power stages in a single housing offers machine builders the opportunity of having more compact control cabinets. Each TPD-M module is only 50 mm width (100 mm in the single axis 30 A version).

Reduced system complexity

The complexity of the system is significantly reduced due to the following benefits:

- **Fewer components (cables, connectors, filters and braking resistors)**
- **Fewer communication interconnections between devices**
- **Centralized filtration and braking resistance**

Reduce setup and maintenance costs

Due to the modular nature of TPD-M, machine design is much more straight forward. Additional axes can be added easily, simply by reproducing schemes from other existing axes. Programming time is reduced as only one drive unit needs to be configured.

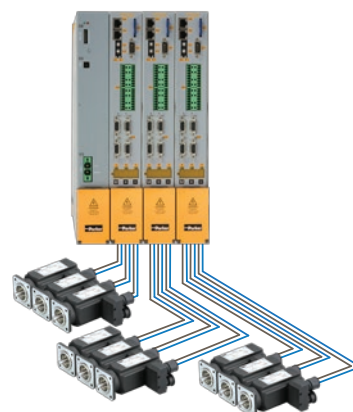
Efficient power control

TPD-M works on a common DC bus power supply that allows the system to absorb and re-supply much of the braking energy to other TPD-M units rather than dissipating it in the form of heat via external resistors. In some instances, resistors can be removed completely and in others smaller resistors are required.

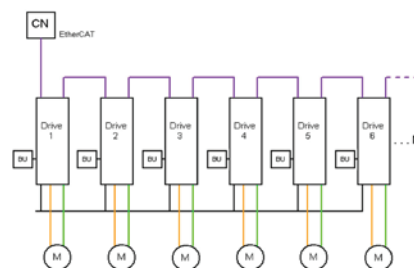
Standard Version

TPD-M servo drives are available as one, two or three axis versions. As standard TPD-M is supplied with:

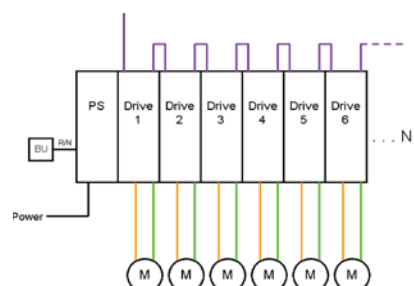
- **CANopen**
- **STO functionality (certification expired)**
- **Digital and analog inputs/outputs**
- **Mechanical brake control**



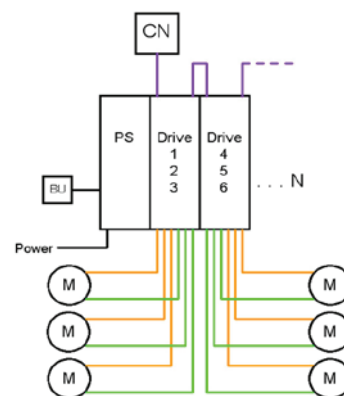
TPD-M system with Parker servo motors



Traditional solution: one drive for each axis



Rack solution: one drive for each axes in a rack solution



TPD-M solution: one drive for three axis in a rack solution. Only one Power Supply

TPD-M Overview

Application

TPD-M servo drive is particularly suitable for all centralised automation systems, such as those found in many packaging machines, where large numbers of drives are often required.

- **Packaging lines**
- **Material forming machines**
- **Textile machines**
- **Paper and converting lines**
- **Plastics machines**
- **Machine tools**



Functionality

Additional features of TPD-M include an USB interface for configuration and setup plus a standard SD card interface for storing system parameters.

TPD-M can be integrated into a larger hybrid motion solution (centralized and decentralized) using Parker Motornet DC system.



Options

The capabilities of TPD-M can be further enhanced with numerous options which are available upon request, including:

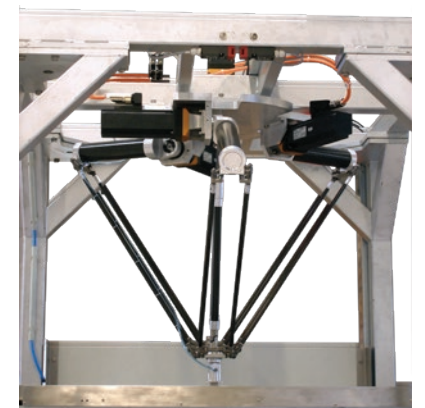
- **EtherCAT communication**
- **Hiperface DSL® feedback**
- **Braking resistors**
- **Additional inputs/outputs**



Safety technology (certification expired)

TPD-M supports the "Safe Torque Off" (STO) safety function in the sense of the "Safe Stop", with protection against unexpected startup. Switching off the motor torque must be effected by the machine controller.

According to a risk analysis which must be carried out according to the machine standard 89/392/EEG or EN 292; EN ISO 13849-1 and EN 1050, the machine manufacturer must project the safety system for the entire machine including all integrated components. This does also include the electrical drives.



Technical Characteristics

Technical Data

Type		3 axis	
	Unit	2 + 2 + 2	8 + 5 + 5
Rated Output Current	[A _{rms}]	2 + 2 + 2	8 + 5 + 5
Peak Output Current (≤ 2 s)	[A]	4 + 4 + 4	16 + 10 + 10
Maximum Continuous Module Output Current	[A]	6	16 ⁽¹⁾
Maximum DC Voltage Supply		750 VDC	

⁽¹⁾ The max continuous module current is clamped to 16 A

Type		2 axis				1 axis			
	Unit	2 + 2	5 + 5	8 + 8	5 + 15	5	10	15	30
Rated Output Current	[A _{rms}]	2 + 2	5 + 5	8 + 8	5 + 15	5	10	15	30
Peak Output Current (≤ 2 s)	[A]	4 + 4	10 + 10	16 + 16	10 + 30	10	20	30	60
Maximum Continuous Module Output Current	[A]	4	10	16	30	5	10	15	30
Maximum DC Voltage Supply		750 VDC							

PSUP - Power Supply Unit

Mains Supply

Power Supply Type	Unit	PSUP10			PSUP20			PSUP30 ⁽²⁾		
Input Voltage		3*230 ... 480 VAC ±10 % 50...60 Hz (Rated voltage 3*400 VAC)								
Output Voltage		325...680 VDC ±10 %								
Supplied Voltage	[VAC]	230	400	480	230	400	480	230	400	480
Output Power	[kVA]	6	10	10	12	20	20	18	30	30
Peak Output Power (<5 s)	[kVA]	12	20	20	24	40	40	34	60	60

Control Supply

Rated Input Voltage		24 VDC ±10 %								
Maximum Ripple		1 V _{pkpk}								
Supply Current	[A]	PSUP10D6: 0.2 A			PSUP20D6: 0.3 A			PSUP30D6: 0.3 A		

⁽²⁾ Operation of the PSUP30 only with line choke.

Environmental Characteristics

Type	TPD-M	PSUP
Operating Temperature	0...+40 °C	
Storage Temperature	-25 °C...+55 °C	
Shipping Temperature	-25 °C...+70 °C	
Product Enclosure Rating	IP20 (only in closed electrical cabinet) UL open type equipment	
Altitude	1000 m ASL. Derate output current by 1.5 % per 100 m to a maximum of 2000 m	
Operating Humidity	Class 3K3 - Maximum 85 % non-condensing	
Storage Humidity	Class 1K3 - Maximum 95 % non-condensing	
Shipping Humidity	Class 2K3 - Maximum 95 % at 40 °C	
Operating Vibration	IEC60068-2-6 10...57 Hz width 0.075 mm 57...150 Hz accel. 9.81 m/s ²	

TPD-M Features

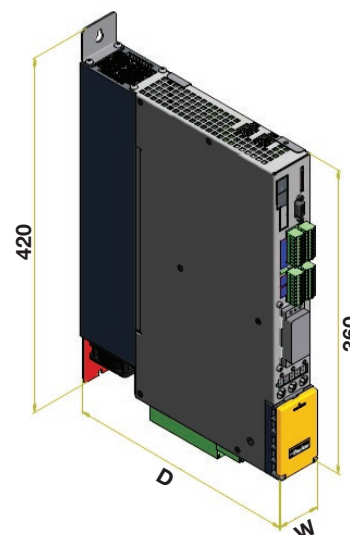
Communication	
	• via USB port
Networks and Bus Systems	
	• CANopen, 20...1000kbit/s, SDO1, PDO1...PDO4 • EtherCAT, 100Mbit/s, 1 ms cycle time • Via Gateway • Profibus • DeviceNet
Inputs / Outputs	
	• 4 digital input, • 2 digital output, • 1 analog input • 1 analog output for each axes. • 1 incremental encoder input, • 1 incremental encoder output • Additional I/O • 3 analogue inputs 12bit, • 2 incremental encoder input, • 2 incremental encoder output • Auxiliary Encoder
Supported Feedback	
	• Resolver, • SinCos, • SinCos + EnDat, • SinCos + Hiperface, • SinCos (1 per pole pitch), • Quadrature, • Quadrature + Hall, • SinCos + Hall, • Hiperface DSL®
Programming / Configuration	
	• PicoPLC • MotionWiz with Oscilloscope function, real time and debugging features • Removable SD card for • software upgrade, • parameters and • application memory
Technology Functions	
	• Torque control • Speed control • Position control • Electronic gearbox • Camming
Safety Functions (certification expired)	
	• 1 Safety Torque Off circuit for 3 axis module • 2 independent Safety Torque Off circuit for 2 axis module • 1 Safety Torque Off circuit for 1 axis module

Standards & Conformance

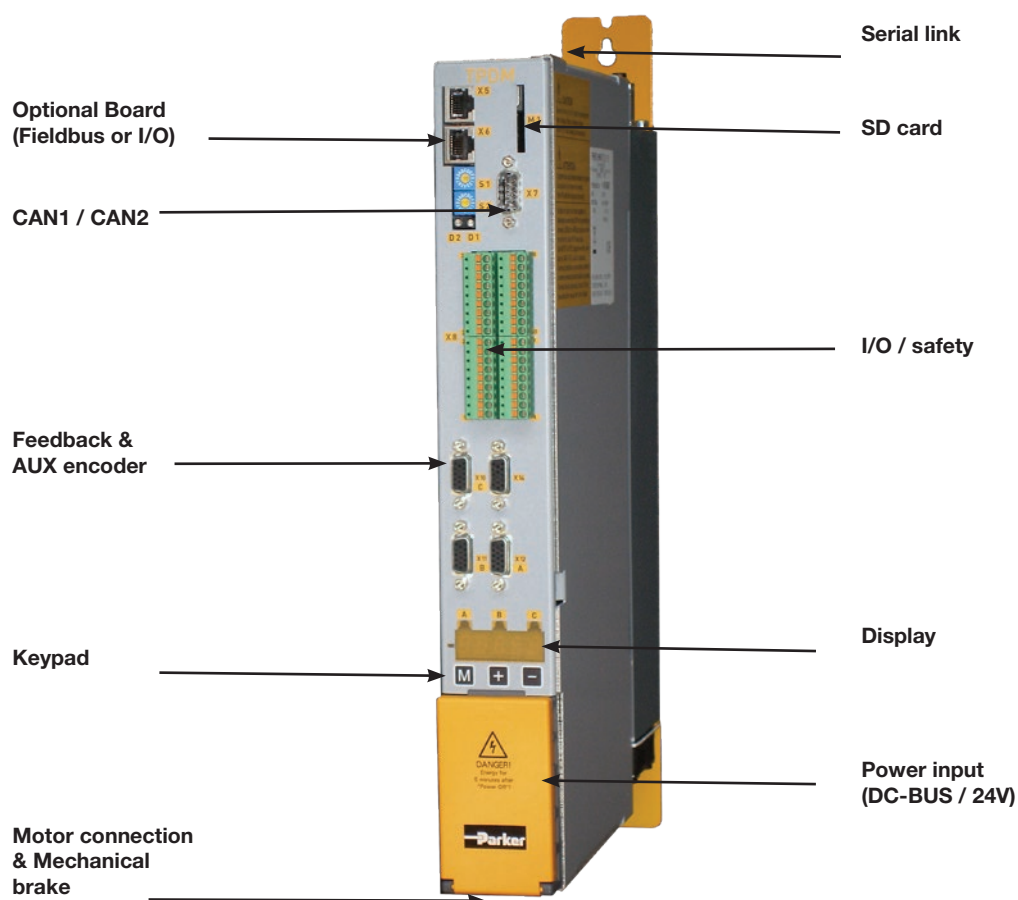
2006/95/EC	Low voltage directive
EN 60204-1	Safety of machinery - Electrical equipment of machines - Part 1: General requirements
EN 61800-5-1	Adjustable speed electrical power drive systems - safety requirements, thermal and energy
UL508C	(USA) Power Conversion Equipment
2004/108/EC	EMC directive
EN 61800-3	Adjustable speed electrical power drive systems - Part 3: EMC product standard including specific test method

Dimensions

Type	W [mm]	D [mm]	Weight [kg]
TPD-M 1/2/3 axes	50	270	4.3
TPD-M single axis 30 A	100	270	8.6
PSUP10	50	270	3.6
PSUP20 / PSUP30	100	270	5.4



Connector Layout



Accessories and Options

Hiperface DSL® Feedback

Description

The Single Cable Servo Drive System from Parker is a combination of the low inertia servo motor SME and the triple axis servo drive TPD-M based on the Hiperface DSL® digital feedback technology. The encoder feedback communication is fully integrated into the motor power cable and thus no separate feedback cable between drive and motor is required.

The new feedback system is a purely digital encoder communication protocol with exceptional performance. The absolute position determination, a resolution of up to 20 bit per turn, as well as 4096 maximum rotations, is unique in it's class.

The System is completed by the multi-axis servo drive TPD-M which represents one of the most compact solutions on the market giving the possibility of controlling up to three single cable SME servo motors with one 50 mm drive module.

Therefore, the Single Cable Servo Drive System from Parker is a bespoke solution to provide machine builders with lower cabling and installation cost and the possibility to reduce control panel size and machine footprint.



TPD-M triple axis servo drive connected to SME motors via Hiperface DSL® interface: One cable per servo motor instead of two.

Feedback-Features

- One cable connection between drive and motor instead of two
- No need for separate feedback cable and connector
- Fully digital and interference-free communication
- Synchronous, bidirectional, multi-channel
- Easy setup and reduced wiring

Applications

- Packaging Machinery
- Material Handling
- Machine Tools
- Robotics
- Paper & Converting

Configuration Software - MotionWiz

MotionWiz is free of charge downloadable configuration software that allows users to configure and optimise the TPD-M series with a few easy clicks of the mouse.

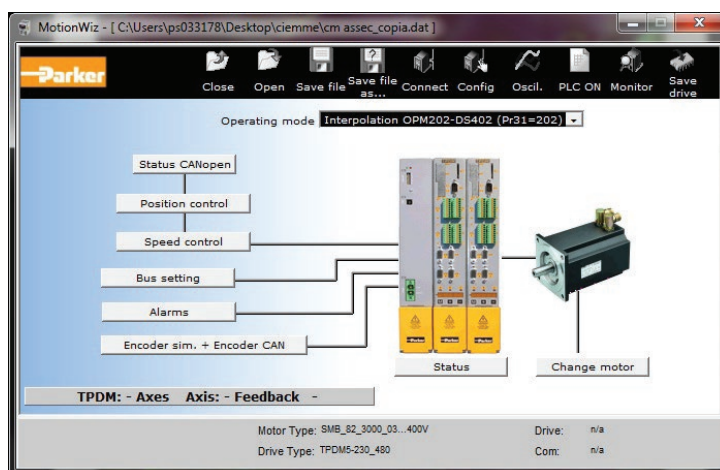
MotionWiz features an intuitive, easy and simple to use Windows® style environment to aid installation, optimisation and diagnostic use.

MotionWiz permits operation in both “on line” mode, directly in the controller, and in “offline” mode, remotely on the PC before downloading to the controller.

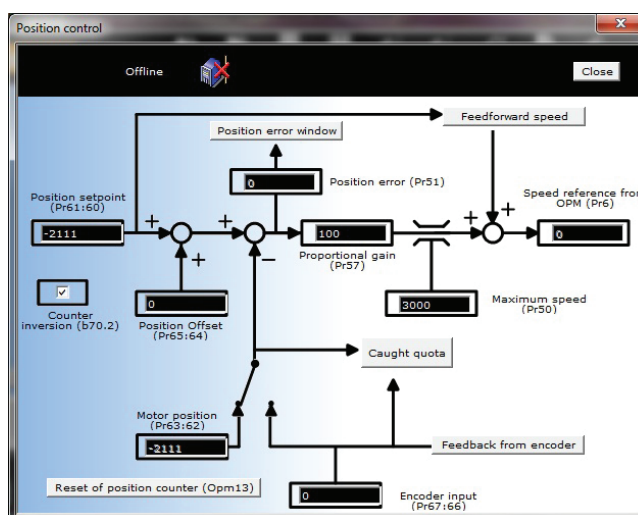
To simplify the configuration of systems with a large number of similar axes but with different motion profiles, MotionWiz allows users to copy the configuration from one application to another.

Inside the MotionWiz configurator is a database containing the technical characteristics of the full range of Parker motors and drives.

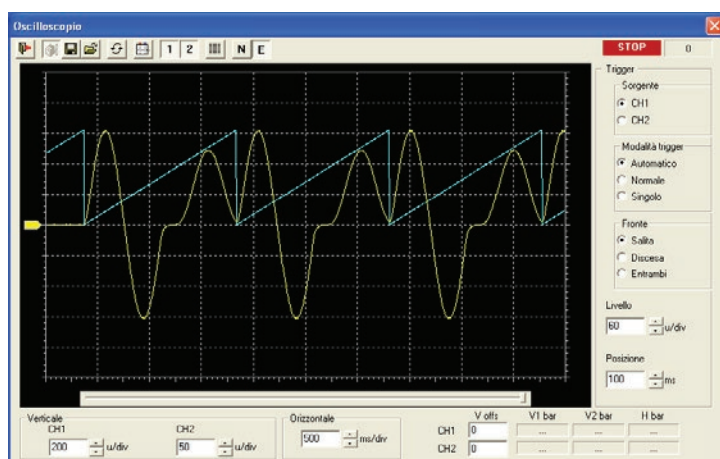
MotionWiz can be downloaded at www.parker.com/eme/tpdm



MotionWiz: General settings



MotionWiz: Position control



MotionWiz Oscilloscope: Real speed & torque trends

Parker Solutions for Servomotors and Accessories

NX: Brushless servo motors

The NX series brushless servo motors are characterized by a 10-pole innovative design for highest quality of motion, improved torque density and a compact and robust design. A large set of torque / speed characteristics, options and customization possibilities are available, making NX Series servomotors the ideal solution for most servosystems applications. The NX Series is available in sizes from 0,45 to 64 Nm.



SMB/H-MB/H: Brushless servo motors



The MB/H and SMB/H Series of highly-dynamic brushless servo motors utilise "salient pole" technology to produce an extremely compact design. Motor dimensions are drastically reduced and significant gains in terms of torque and dynamic performance are achieved. The high quality Neodymium-Iron-Boron magnets and the encapsulation method used to fasten them to the shaft, allows the two Series' to achieve very high acceleration and withstand high overloads without risk of demagnetisation or detachment of the magnets. The MB/H and SMB/H Series is available in sizes from 0.2 to 285 Nm.

Interact Xpress: HMI

Interact Xpress is Parker's HMI hardware and software solution, for the process's control in distributed applications where multiple HMIs are deployed on a single machine or across several remote stations. Interact Xpress software, features an advanced development environment for easy creation of rich graphics and multimedia applications. Interact Xpress allows you to run, view and edit on line - from any PC - applications in Internet Explorer™ browser. Available with 6, 8, 10 and 15 inch, these units are specifically designed to optimize the performance, storage and connectivity features of the software.



PIO: I/O System



Parker's PIO modular bus terminal system offers a range of popular industrial fieldbus networks to interface to a wide variety of control signals from field-based devices. Connection to field level devices can be implemented quickly and reliably with PIO.

PS/RS Series: Planetary Gearheads

Stealth advanced gearheads are available in either in-line or right-angled versions with 8 frame sizes and 12 gear ratios. With input speeds up to 6000 min⁻¹ and exceptionally quiet, strong and reliable operation, you can be confident that there is a Stealth advanced gearhead to fit any of your high performance servo application needs.



Order Code

TPD-M System

	1	2	3	4	5	6	7
Order example	TPD	M	02 02 02	D	L	E5	G

1 Drive Family	
TPD	Triple Power Drive
2 Axes	
M	Multi Axis
3 Drive Size	
02 02 02	3 axis 2 A + 2 A + 2 A
08 05 05	3 axis 8 A + 5 A + 5 A
02 02	2 axis 2 A + 2 A
05 05	2 axis 5 A + 5 A
08 08	2 axis 8 A + 8 A
15 05	2 axis 15 A + 5 A
5	single axis 5 A
10	single axis 10 A
15	single axis 15 A
30	single axis 30 A
4 Fieldbus	
D	CANopen
5 Feedback system	
Empty field	Resolver
E	EnDat / Incremental / SinCos encoder
H	Incremental encoder + Hall sensors
L	DSL feedback
6 Option board	
Empty field	No option
E5	EtherCAT option board
E7	Analogic expansion board
7 Accessories	
G	Fixing shield

Mains module: PSUP

	1	2	3	4	5
Order example	PSU	P	10	D6	USB M00

1 Device family	
PSU	Power module
2 Device typ	
P	Power module
3 Nominal power; supply voltage	
10 D6	10 kW; 400 VAC (3-phase)
20 D6	20 kW; 400 VAC (3-phase)
30 D6	30 kW; 400 VAC (3-phase) ¹⁾
4 Interface	
USB	USB connection
5 Options	
M00	no additional supplement

¹⁾ Operation of the PSUP30 only with line choke.
Required line choke for the PSUP30: 0.45 mH / 55 A

We offer the following line chokes:

LCG-0055-0.45 mH (WxDxH: 180 mmx140 mmx157 mm; 10 kg)

LCG-0055-0.45 mH-UL (with UL certification)

(WxDxH: 180 mmx170 mmx157 mm; 15 kg)

Capacitor module

	1	2
Order example	PSC	023 M00

1 Accessories	
PSC	Capacitor module
2 Type	
023 M00	23 µF no additional supplement
047 M00	47 µF no additional supplement
068 M00	68 µF no additional supplement

Mains filter for PSUP

	1	2
Order example	NFI	03/01

1 Accessories	
NFI	Mains filter
2 Type	
03/01	for PSUP10 Reference axis combination 3 x 480 V 25 A 6 x 10 m motor cable length
03/02	for PSUP10 Reference axis combination 3 x 480 V 25 A 6 x 50 m motor cable length
03/03	for PSUP20, PSUP30 Reference axis combination 3 x 480 V 50 A 6 x 50 m motor cable length

Braking resistors

	1	2
Order example	BRM	05/01

1 Accessories	
BRM	Braking resistor
2 Type	
13/01	30 Ω / 0.5 kW _{cont.} for PSUP10D6, for PSUP20D6 (2x30Ω parallel)
14/01	15 Ω / 0.5 kW _{cont.} for PSUP10D6 (2 x 15 Ω in series) for PSUP20, PSUP30
12/01	18 Ω / 4.5 kW _{cont.} for PSUP30

Motor output choke

For disturbance suppression when the motor connecting cables are long.

	1	2
Order example	MDR	01/04

1 Accessories	
MDR	Motor output choke (for TPD-M >20 m motor cable)
2 Type	
01/01	up to 16 A rated motor current
01/02	up to 30 A rated motor current
01/04	up to 6.3 A rated motor current

Other Accessories

Order Code	Description
Motionwiz	Programming Software
Exp-Ground	Fixing shield assembly
USBTODRIVE	USB to RS232/422 converter with cable



Parker's Motion & Control Technologies

At Parker, we're guided by a relentless drive to help our customers become more productive and achieve higher levels of profitability by engineering the best systems for their requirements. It means looking at customer applications from many angles to find new ways to create value. Whatever the motion and control technology need, Parker has the experience, breadth of product and global reach to consistently deliver. No company knows more about motion and control technology than Parker. For further info call 00800 27 27 5374



Aerospace

Key Markets

Aftermarket services
Commercial transports
Engines
General & business aviation
Helicopters
Launch vehicles
Military aircraft
Missiles
Power generation
Regional transports
Unmanned aerial vehicles

Key Products

Control systems & actuation products
Engine systems & components
Fluid conveyance systems & components
Fluid metering, delivery & atomization devices
Fuel systems & components
Fuel tank inerting systems
Hydraulic systems & components
Thermal management
Wheels & brakes



Climate Control

Key Markets

Agriculture
Air conditioning
Construction Machinery
Food & beverage
Industrial machinery
Life sciences
Oil & gas
Precision cooling
Process
Refrigeration
Transportation

Key Products

Accumulators
Advanced actuators
CO₂ controls
Electronic controllers
Filter driers
Hand shut-off valves
Heat exchangers
Hose & fittings
Pressure regulating valves
Refrigerant distributors
Safety relief valves
Smart pumps
Solenoid valves
Thermostatic expansion valves



Electromechanical

Key Markets

Aerospace
Factory automation
Life science & medical
Machine tools
Packaging machinery
Paper machinery
Plastics machinery & converting
Primary metals
Semiconductor & electronics
Textile
Wire & cable

Key Products

AC/DC drives & systems
Electric actuators, gantry robots & slides
Electrohydraulic actuation systems
Electromechanical actuation systems
Human machine interface
Linear motors
Stepper motors, servo motors, drives & controls
Structural extrusions



Filtration

Key Markets

Aerospace
Food & beverage
Industrial plant & equipment
Life sciences
Marine
Mobile equipment
Oil & gas
Power generation & renewable energy
Process
Transportation
Water Purification

Key Products

Analytical gas generators
Compressed air filters & dryers
Engine air, coolant, fuel & oil filtration systems
Fluid condition monitoring systems
Hydraulic & lubrication filters
Hydrogen, nitrogen & zero air generators
Instrumentation filters
Membrane & fiber filters
Microfiltration
Sterile air filtration
Water desalination & purification filters & systems



Fluid & Gas Handling

Key Markets

Aerial lift
Agriculture
Bulk chemical handling
Construction machinery
Food & beverage
Fuel & gas delivery
Industrial machinery
Life sciences
Marine
Mining
Mobile
Oil & gas
Renewable energy
Transportation

Key Products

Check valves
Connectors for low pressure fluid conveyance
Deep sea umbilicals
Diagnostic equipment
Hose couplings
Industrial hose
Mooring systems & power cables
PTFE hose & tubing
Quick couplings
Rubber & thermoplastic hose
Tube fittings & adapters
Tubing & plastic fittings



Hydraulics

Key Markets

Aerial lift
Agriculture
Alternative energy
Construction machinery
Forestry
Industrial machinery
Machine tools
Marine
Material handling
Mining
Oil & gas
Power generation
Refuse vehicles
Renewable energy
Truck hydraulics
Turf equipment

Key Products

Accumulators
Cartridge valves
Electrohydraulic actuators
Human machine interfaces
Hybrid drives
Hydraulic cylinders
Hydraulic motors & pumps
Hydraulic systems
Hydraulic valves & controls
Hydrostatic steering
Integrated hydraulic circuits
Power take-offs
Power units
Rotary actuators
Sensors



Pneumatics

Key Markets

Aerospace
Conveyor & material handling
Factory automation
Life science & medical
Machine tools
Packaging machinery
Transportation & automotive

Key Products

Air preparation
Brass fittings & valves
Manifolds
Pneumatic accessories
Pneumatic actuators & grippers
Pneumatic valves & controls
Quick disconnects
Rotary actuators
Rubber & thermoplastic hose & couplings
Structural extrusions
Thermoplastic tubing & fittings
Vacuum generators, cups & sensors



Process Control

Key Markets

Alternative fuels
Biopharmaceuticals
Chemical & refining
Food & beverage
Marine & shipbuilding
Medical & dental
Microelectronics
Nuclear Power
Offshore oil exploration
Oil & gas
Pharmaceuticals
Power generation
Pulp & paper
Steel
Water/wastewater

Key Products

Analytical Instruments
Analytical sample conditioning products & systems
Chemical injection fittings & valves
Fluoropolymer chemical delivery fittings, valves & pumps
High purity gas delivery fittings, valves, regulators & digital flow controllers
Industrial mass flow meters/controllers
Permanent no-weld tube fittings
Precision industrial regulators & flow controllers
Process control double block & bleeds
Process control fittings, valves, regulators & manifold valves



Sealing & Shielding

Key Markets

Aerospace
Chemical processing
Consumer
Fluid power
General Industrial
Information technology
Life sciences
Microelectronics
Military
Oil & gas
Power generation
Renewable energy
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EMI shielding
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High temperature metal seals
Homogeneous & inserted elastomeric shapes
Medical device fabrication & assembly
Metal & plastic retained composite seals
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Thermal management
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