Product Overview
Intelligent Servo Drives
Intelligent Motors

Your Next Intelligent Move

TECHNOSOFT
MOTION TECHNOLOGY
Technosoft Intelligent Servo Drives belong to a new family of fully digital servo drives with embedded intelligence, based on the latest DSP controller technology. These state-of-the-art intelligent drives offer features usually found only in high-power servo-amplifiers:

- **Software configurability** to drive AC or DC brushless, DC brush or step motors
- **Multi-mode motion operation**: contouring, profiling, gearing, electronic camming
- **Stand-alone or multi-axis configuration**
- **Typical feedback devices**: tacho generators, incremental encoders, digital or linear Halls
- **Distributed control over CAN, CANopen, EtherCAT, Ethernet**
MEDICAL
• Respiratory devices
• Surgical instruments & robots
• Clinical Diagnosis
• Dosing machines
• Liquid Handling System
• Ophthalmology equipment
• X-Ray equipment
• Biomechatronics
• Centrifugal pumps

Instrumentation & Optics
• Digital microscopes
• Laser measuring systems
• Aerial view cameras
• Photometry
• Lens shaping and polishing
• Auto focus & auto zooming

Research Laboratories
• Analysis equipment
• Pipetting
• Laboratory automation

Industrial Equipment
• Elevators
• Elevator doors
• Solar cells
• Hydraulic pumps
• Solar trackers
• Photovoltaic panels
Factory Automation

- Pick and place robots
- Cartesian robots
- Welding robots
- Printing equipment
- Bonding systems
- Laser cutting
- Laser marking
- Wafer inspection

Semiconductor Equipment

- Flexible automation
- Atomic layer etching
- Trim and form
- Pick and place handler

Packaging

- Bottling machines
- Labeling machines
- Gluing machines
- Package printing
- Material dosing

Robotics

- Robots and cobots
- Exoskeletons
- Grippers
- Automated guided vehicles (AGVs)
- Warehouse automation
<table>
<thead>
<tr>
<th>Family</th>
<th>iPOS2401</th>
<th>iPOS360x</th>
<th>iPOS4808</th>
</tr>
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<tbody>
<tr>
<td>Drive</td>
<td>iPOS2401MX CAN/CAT Intelligent Servo Drive 25W</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>iPOS3602 VX / MX Intelligent Servo Drive 75 W</td>
<td>iPOS3604 VX / MX Intelligent Servo Drive 144 W</td>
<td>iPOS3602 HX/BX Intelligent Servo Drive 75 W</td>
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<tr>
<td>• DC</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>• Step (up to 256 pulse)</td>
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<tr>
<td>Output Current - Nominal</td>
<td>1 A</td>
<td>2 A</td>
<td>4 A</td>
</tr>
<tr>
<td>Peak Current</td>
<td>1 A</td>
<td>3.2 A</td>
<td>10A</td>
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<td>CAN / CANopen</td>
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<td>TMLCAN</td>
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<td>✓</td>
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<tr>
<td>Control Functions, Position, Speed, Torque</td>
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<td>Linear Hall</td>
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<td>Sin / Cos Encoder</td>
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<td>✓</td>
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</tr>
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<td>Resolver</td>
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<td>Others</td>
<td>47x19x8</td>
<td>56 x 29 x 7 (VX)</td>
<td>56 x 29 x 7 (VX)</td>
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<td>Size (mm)</td>
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<td>55 x 26 x 13 (MX)</td>
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<td>10 (VX) / 8 (MX)</td>
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<td>0 - 40 °C</td>
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(*) Extended temperatures available on request.
<table>
<thead>
<tr>
<th>iPOS4808</th>
<th>iPOS80x0</th>
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<td>Intelligent Servo Drive 400 W</td>
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<td></td>
<td>- Step (up to 512 µsteps)</td>
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<td>- Brushless (AC &amp; DC)</td>
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<td>- Linear</td>
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<td>12-48 V</td>
<td>12-48 V</td>
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<td>20 A</td>
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<td>40 A</td>
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<td>Linear Hall</td>
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<td>Sin / Cos Encoder</td>
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<td>Resolver</td>
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<td>60 x 44 x 21 (CAN)</td>
<td>89 x 77 x 17 (CAN)</td>
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<tr>
<td>64 x 44 x 21 (CAT)</td>
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<td>43 / 45</td>
<td>110 / 120</td>
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<tr>
<td>0 - 40 °C</td>
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<td>0 - 40 °C</td>
<td>Ambient Temp. Range (*)</td>
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(*) Extended temperatures available on request
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<tr>
<th>Family</th>
<th>iMOT17 Step</th>
<th>iMOT17 Brushless</th>
<th>iMOT23 Step</th>
<th>Gearheads</th>
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<td>Drive</td>
<td>iMOT17xS XM-CAN Intelligent Step Motors 0.3 Nm</td>
<td>iMOT 17xS TM-CAN Intelligent Step Motors 0.3 Nm</td>
<td>iMOT 23xS XM-CAN Intelligent Step Motors 1-1.8 Nm</td>
<td>GP Gearheads up to 90 Nm</td>
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</tr>
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<tr>
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<td>0.3-0.9 Nm</td>
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<td>EtherCAT</td>
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<tr>
<td>Control Functions Position, Speed, Torque</td>
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<td>Electronic Gearing</td>
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<td>Internal</td>
<td>Internal</td>
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<tr>
<td>Digital Hall</td>
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<td>Linear Hall</td>
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<tr>
<td>Sin / Cos Encoder</td>
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<tr>
<td>SSI Encoder</td>
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<td>BISS Encoder</td>
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</tr>
<tr>
<td>Resolver</td>
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<tr>
<td>Size (mm)</td>
<td>51÷65x43x57</td>
<td>51÷65x43x57</td>
<td>51÷65x43x57</td>
<td>68÷92x58x73</td>
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<td>285-600</td>
<td>325-700</td>
<td>700-1100</td>
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<td>0 - 40 °C</td>
<td>0 - 40 °C</td>
<td>0 - 40 °C</td>
<td>0 - 40 °C</td>
</tr>
</tbody>
</table>

(*) Extended temperatures available on request
iPOS Line

**iPO2401 MX CAN/CAT**  
Intelligent Servo Drives  
24 V, 1 A  
25 W

- Suitable for rotary, linear brushless, DC brush and step motors  
- 12-24 V power supply (motor and logic)  
- 1 A continuous, 1 A peak current  
- 5 Digital inputs, 3 digital outputs and 2 analog inputs  
- High resolution stepper control up to 512 microsteps / step  
- Quadrature and Sin / Cos encoders, Hall sensors or linear Halls  
- RS-232 and CAN (TMLCAN and CANopen protocols)  
- EtherCAT extension with CoE protocol  
- Size: 47 x 19 x 8 mm (CAN model) / 50 x 20 x 15 mm (CAT model)

Ordering information:  
P024.300.E101 — iPOS2401 MX-CAN, 24 V, 0.9 A, pin-plug, encoder, CAN  
P024.200.E121 — iPOS2401 MX-CAT Combo, 24 V, 1 A, EtherCAT

**iPOS3602 VX / iPOS3602 MX**  
Intelligent Servo Drives  
36 V, 2 A  
75 W

- Suitable for rotary, linear brushless, DC brush and step motors  
- 12-36 V power supply (motor and logic)  
- 2 A continuous, 3.2 A peak current  
- Digital inputs (5), digital outputs (4 VX model / 3 MX model) and analog inputs (2 VX model / 1 MX model)  
- High resolution stepper control up to 512 microsteps / step  
- Quadrature and Sin / Cos encoders, Hall sensors or linear Halls  
- RS-232 and CAN (TMLCAN and CANopen protocols)  
- Optional EtherCAT extension with CoE protocol  
- Mounting: vertical (VX model), horizontal (MX model)  
- Size: 56 x 29 x 7 mm (VX model) / 55 x 26 x 13 mm (MX model)

Ordering information:  
P028.001.E001 — iPOS3602 VX-CAN Servo Drive, 36 V, 2 A, CAN  
P028.001.E101 — iPOS3602 MX-CAN Servo Drive, 36 V, 2 A, CAN

**iPOS3604 VX / iPOS3604 MX**  
Intelligent Servo Drives  
36 V, 4 A  
144 W

- Suitable for rotary, linear brushless, DC brush and step motors  
- 12-36 V power supply (motor and logic)  
- 4 A continuous, 10 A peak current  
- Digital inputs (5), digital outputs (4 VX model / 3 MX model) and analog inputs (2 VX model / 1 MX model)  
- High resolution stepper control up to 512 microsteps / step  
- Quadrature and Sin / Cos encoders, Hall sensors or linear Halls  
- RS-232 and CAN (TMLCAN and CANopen protocols)  
- Optional EtherCAT extension with CoE protocol  
- Mounting: vertical (VX model), horizontal (MX model)  
- Size: 56 x 29 x 7 mm (VX model) / 55 x 26 x 13 mm (MX model)

Ordering information:  
P028.002.E001 — iPOS3604 VX-CAN Servo Drive, 36 V, 4 A, CAN  
P028.002.E101 — iPOS3604 MX-CAN Servo Drive, 36 V, 4 A, CAN
iPOS3602 BX / HX
Intelligent Servo Drives

36 V, 2 A
75 W

- Suitable for rotary, linear brushless, DC brush and step motors
- 12-36 V single power supply
- Continuous current: 2 A
- Peak current: 3.2 A
- Digital inputs (5) / outputs (4) and analog inputs (2)
- High resolution stepper control up to 512 microsteps / step
- Quadrature and Sin / Cos encoders, Hall sensors or linear Halls
- RS-232 and CAN (TMLCAN and CANopen protocols)

- Size: 80 x 55 x 16 mm (BX model) / 73x45x16 mm (HX model)

Ordering information:
- P028.001.E201 iPOS3602 BX-CAN Servo Drive, 36 V, 2 A, CAN
- P028.001.E501 iPOS3602 HX-CAN Servo Drive, 36 V, 2 A, CAN

iPOS3604 BX / HX
Intelligent Servo Drives

36 V, 4 A
144 W

- Suitable for rotary, linear brushless, DC brush and step motors
- 12-36 V single power supply
- Continuous current: 4 A
- Peak current: 10 A
- Digital inputs (5) / outputs (4) and analog inputs (2)
- High resolution stepper control up to 512 microsteps / step
- Quadrature and Sin / Cos encoders, Hall sensors or linear Halls
- RS-232 and CAN (TMLCAN and CANopen protocols)

- Size: 80 x 55 x 16 mm (BX model) / 73x45x16 mm (HX model)

Ordering information:
- P028.002.E201 iPOS3604 BX-CAN Servo Drive, 36 V, 4 A, CAN
- P028.002.E501 iPOS3604 HX-CAN Servo Drive, 36 V, 4 A, CAN

iPOS4808 VX / iPOS4808 MY
Intelligent Servo Drives

48 V, 8 A
400 W

- Suitable for DC brushed, brushless, step or linear motors
- 12-48 V motor power supply, 12-36 V logic supply
- 8 A continuous, 20 A peak current
- Digital inputs (8) / outputs (6 VX model / 6 MY model) and analog inputs (2)
- High resolution stepper control up to 512 microsteps / step
- Quadrature and Sin / Cos encoders, Hall sensors or linear Halls
- Optional feedback extension for: SSI and BiSS encoders
- RS-232 and CAN (TMLCAN and CANopen protocols)
- Optional EtherCAT extension with CoE protocol
- Mounting: vertical (VX model), horizontal (MY model)
- Size: 56 x 44 x 7 mm (VX model) / 60 x 44 x 12 (MY model)

Ordering information:
- P027.014.E001 iPOS4808 VX-CAN Servo Drive, 48 V, 8 A, CAN
- P027.014.E101 iPOS4808 MY-CAN Servo Drive, 48 V, 8 A, CAN
- P027.414.E101 iPOS4808 MY-CAN Servo Drive, 50 V, 8 A, CAN
iPOS4808 MY CAN / CAT - STO COMBO 48 V, 8 A
Intelligent Servo Drive

- Suitable for DC brushed, brushless, step or linear motors
- 12-48 V motor power supply, 12-36 V logic supply
- 8 A continuous, 20 A peak current
- Digital inputs (6) / outputs (5) and analog inputs (2)
- High resolution stepper (512 µsteps) or step-less control
- Quadrature and Sin/Cos encoders, digital and linear Halls
- Dual Feedback and absolute encoders support (SSI and BiSS)
- STO (Safe Torque Inputs) capability
- RS-232, TMLCAN and CANopen, CoE protocol for the EtherCAT version
- Size: 60/64 (CAN/CAT Combo) x 44 x 21 mm

Ordering information:
P027.314.E111   iPOS4808 MY-CAN-STO Combo, 48 V, 8 A, CAN, STO
P027.314.E121   iPOS4808 MY-CAT-STO Combo, 48 V, 8 A, EtherCAT, STO

iPOS4808 BX CAN / CAT
Intelligent Servo Drive

- Suitable for DC brushed, brushless, step or linear motors
- 12-48 V motor power supply, 12-36 V logic supply
- 8 A continuous, 20 A peak current
- Digital inputs (6) / outputs (5) and analog inputs (2)
- High resolution stepper control up to 512 microsteps / step
- Quadrature and Sin / Cos encoders, Hall sensors or linear Halls
- Dual Feedback and absolute encoder support (SSI and BiSS)
- RS-232, CAN (TMLCAN and CANopen protocols) and EtherCAT extension with CoE protocol
- Size: 89 x 77 x 17 mm (CAN) / 103 x 71 x 17 mm (CAT)

Ordering information:
P027.014.E201   iPOS4808 BX-CAN Servo Drive, 48 V, 8 A, CAN
P027.014.E221   iPOS4808 BX-CAT Servo Drive, 48 V, 8 A, EtherCAT

iPOS8010 BX CAN / CAT
Intelligent Servo Drive

- Suitable for DC brushed, brushless, step or linear motors
- 12-80 V motor power supply, 12-36 V logic supply
- 10 A/20A continuous, 20 A /40A peak current
- Digital inputs (4) / outputs (4) and analog inputs (2)
- High resolution stepper control up to 256 microsteps / step
- Quadrature and Sin / Cos encoders, Hall sensors or linear Halls
- Dual Feedback and absolute encoder support (SSI and BiSS)
- 2 Safe Torque Off (STO) inputs
- RS-232, CAN (TMLCAN and CANopen protocols) and EtherCAT extension with CoE protocol
- Size: 139 x 94 x 16 mm

Ordering information:
P029.025.E201   iPOS8010 BX-CAN Servo Drive, 80 V, 10 A, CAN
P029.025.E221   iPOS8010 BX-CAT Servo Drive, 80 V, 10 A, EtherCAT
P029.026.E201   iPOS8020 BX-CAN Servo Drive, 80 V, 20 A, CAN
P029.026.E221   iPOS8020 BX-CAT Servo Drive, 80 V, 20 A, EtherCAT
iPOS360x SX/SY
Multi-axis Motion System
12-36 V
4 x 144 W

• Up to 4 axis motion system based on iPOS4808 MY
• For brushless, DC brushed or step motors
• 12-50V motor supply, 12-36V logic supply
• Each axis supports 8A continuous, 20A peak current
• EtherCAT communication bus supporting full CoE protocol
• RS232 for setup
• Size: 96x100x74x16 mm

Ordering information:
P027.051.E424 iPOS4808 SY-CAT, 4 axis system-4808, EtherCAT
P027.051.E423 iPOS4808 SY3-CAT, 3 axis system-4808, EtherCAT

iMOTIONCUBE
Intelligent Servo Drive
80 V, 20 A
1.6 kW

• Suitable for DC brushed, brushless, step or linear motors
• 12-80 V motor power supply, 12-36 V logic supply
• 20 A continuous, 40 A peak current
• Digital inputs (4) / outputs (4) and analog inputs (2)
• High resolution stepper control up to 512 microsteps / step
• Quadrature and Sin / Cos encoders, Hall sensors or linear Halls
• Dual Feedback and absolute encoder support (SSI and BiSS)
• RS-232 and CAN (TMLCAN and CANopen protocols)
• Size: 60 x 40 x 20 mm

Ordering information:
P025.126.E101 iMOTIONCUBE Intelligent Drive 80V 20A CAN
P025.126.E201 iMOTIONCUBE evaluation module

iPOS360x SX/SY
Multi-axis Motion System
12-36 V
4/6 x 144 W

• Suitable for DC brushed, brushless, step or linear motors
• Can be supplied from 1 to 6 axis of any combination of iPOS3602 and iPOS3604
• iPOS360x SX systems with up to 4 axis for RS232, TMLCAN, CANopen or Ethernet
• iPOS360x SY systems with up to 6 axis for RS232, TMLCAN, CANopen or EtherCAT
• 12-36 V power supply (motor and logic separately)
• 2A continuous / 3.3A peak, respectively 4A continuous / 10A peak per axis
• Size: 100 x 98 x 36 mm (4x) / 160 x 122 x 36 mm (6x)
iMOT Line

iMOT17xS
Intelligent Step Motors

- Fully programmable intelligent step motors due to TML instruction set
- 12-36 V motor power supply, 12-36 V logic supply
- 3 motor sizes offering from 0.2 to 0.4 Nm
- Minimal power consumption due to true servo closed loop operation
- Integrated position sensor with 4096 counts/rotation
- Programmable digital I/Os and analogue inputs
- RS-232, CANopen, EtherCAT and Ethernet optional

Ordering information:
P036.1x1.E120  iMOT17xS XM-CAN Intelligent Step Motor
P036.1x1.E320  iMOT17xS TM-CAN Intelligent Step Motor
P036.1x1.E323  iMOT17xS TM-CAT Intelligent Step Motor

iMOT17xB
Intelligent Brushless Servo Motors

- Fully programmable intelligent brushless motors due to TML instruction set
- 12-36 V motor power supply, 12-36 V logic supply
- 3 motor sizes offering from 0.1 to 0.3 Nm @ 3'000 rpm
- Torque up to 18 Nm when provided with the GP gearheads
- Integrated position sensor with 4096 counts/rotation
- Programmable digital I/Os and analogue inputs
- RS-232, CANopen, EtherCAT, TMLCAN, and Ethernet optional

Ordering information:
P042.1x1.E120  iMOT17xB XM-CAN Intelligent Brushless Motor
P042.1x1.E320  iMOT17xB TM-CAN Intelligent Brushless Motor
P042.1x1.E322  iMOT17xB TM-CAT Intelligent Brushless Motor

iMOT23xS
Intelligent Step Motors

- Fully programmable intelligent step motors due to TML instruction set
- 12-36 V motor power supply, 12-36 V logic supply
- 3 motor sizes offering from 1 to 1.8 Nm
- Minimal power consumption due to true servo closed loop operation
- Integrated position sensor with 4096 counts/rotation
- Programmable digital I/Os and analogue inputs
- RS-232 and CAN (optional EtherCAT and Ethernet communication busses)

Ordering information:
P036.222.E120  iMOT232S XM-CAN Intelligent Step Motor, CAN
P036.223.E120  iMOT233S XM-CAN Intelligent Step Motor, CAN
Through high level software programmability, Technosoft drives and motors offer extended flexibility and versatility resulting in easy-to-use solutions for a variety of motion control applications.

**Single-Axis Servo, Stand Alone or Host Controlled**

The drives can run a locally stored TML program, in stand-alone mode or they can be programmed and controlled from a host controller system, via a communication channel: RS-232, RS-485, EtherCAT or CAN-bus (with CAN / CANopen drive versions). ‘Immediate’ on-line commands and TML instructions (loading and running of programs, setup of parameters, queries on drive status) can be sent and executed.

**Events and Interrupts Handling**

Programmable events on Technosoft drives, combined with the TML specific interrupts structure, allow you to simultaneously handle different tasks as: protections, time intervals, I/O status or capture, control error or status variable values, besides the main program’s TML motion sequences.

**Multiple-Axis Coordination**

In distributed multiple-axes structures, a host can provide data points to axes in the network (EtherCAT, CAN, CANopen or RS485). Also, locally stored motion profiles can be executed at the host’s command, or coordinated via on-board I/Os. Moreover, any axis can request and receive information from other axes in the system, via specific TML commands.

**Multi-dimensional Paths**

All Technosoft drives, together with the multi-axis controller TMC-3D, can execute 2D, 2°D or 3D coordinated moves. The trajectories are defined through a series of linear or circular segments. Optionally, for each segment a vector speed and acceleration can be specified. TMC-3D splits each segment into PVT points and sends these points to the slaves. On receiving the PVT points, the slaves rebuild their paths using 3rd order interpolation.

**Multiple I/O Treatment / Multiple-Axis I/O Handshake**

PLC-specific functionalities of Technosoft drives allow you to configure and use the I/O resources of the drive. Also the I/Os available on the drives allow you to create handshake structures between the axes, by appropriate TML programming. Activation of specific axes, completion of programmed tasks on axes, chaining of actions from one axis to another can easily be implemented, further increasing the flexibility of the motion system configuration.

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**Technosoft Motion Language Examples**

Through high level software programmability, Technosoft drives and motors offer extended flexibility and versatility resulting in easy-to-use solutions for a variety of motion control applications.

**GP High Efficiency Gearheads**

- Torque output 5 to 90 Nm
- All steel construction with ratios 5 to 500:1
- Assembled to the iMOT Line of brushless and step motors
- Three families 40 mm, 57 mm and 86 mm diameter
- Intermittent torque from 7.5 to 150 Nm
- Efficiency up to 92%
- Average backlash <30 arc minutes
- Exact ratios simplify calibration in position control applications
- Non standard ratios from 3 to 1000:1

**Ordering information:**

P042.621.E100 GP40M100:1-A-1 Gearbox, Size 17, Ratio 100:1
(example, see documentation for complete program)
Technosoft Motion Modes

Technosoft drives and motors allow you to program their built-in motion controller in order to set different motion modes and trajectories — internal and external — depending on the way the motion reference is generated.

Trapezoidal Speed Profiles
Program a speed profile with a trapezoidal shape of the speed, due to a limited acceleration.

Trapezoidal Position Profiles
Program a position profile due to a limited acceleration. You must specify the position you want to reach, the acceleration / deceleration rate and the travel speed. The built-in reference generator computes the position trajectory, which results in a trapezoidal or triangular speed profile.

S-curve Profiles
Program a position profile with an S-curve shape of the speed. This shape is due to the jerk limitation, which leads to a trapezoidal or triangular profile of the acceleration, and to an S-curve speed profile.

On-the-fly Change of Motion Parameters
Almost any motor mode can be switched to another mode on the fly. This feature is especially useful for position/speed control applications, where the target reference is provided by the internal trajectory generator using position / speed profile modes, position / speed contouring modes, electronic gearing, electronic cam and stop modes.

PT Mode
Programs a positioning path described through a series of points where each point specifies the desired Position and Time (the PT data). Between points, the built-in reference generator performs a linear interpolation.

PVT Mode
Programs a positioning path described through a series of points. Each point specifies the desired Position, Velocity and Time (the PVT data). Between points, the built-in reference generator performs a 3rd order interpolation.

Electronic Gearing
Sets the drive as a master or a slave for electronic gearing mode. When set as a master, the drive sends its position via a multi-axis communication channel, like the CANbus. The master sends either the load position or the position reference once, at each slow loop sampling time interval. When set as a slave, the drive follows the master’s position with a programmable ratio. The slave can also superpose the electronic gearing movement with another mode.

Electronic Camming
Similarly to the electronic gearing mode, the drives can be programmed to implement electronic camming. When set as master, the drive sends its position via a multi-axis communication channel. The master sends either the load position or the position reference once at each slow loop sampling time interval. When set as slave, a drive executes a cam profile function of the master position.

External Mode
Programs the drives to work with an external reference provided by another device. There are 3 types of external references: analogue, digital and online.

Additive Position Profile
On-the-fly end-point modification during drive’s execution of the motion profile. While a motor is executes a position profile, a new target position can be specified by adding a new position increment to the ‘old’ target position.

Fast Position Capture
Lets you store motor/load positions based on the transition of a digital input, allowing close correlation of axis positions to external events.

Homing
Is a sequence of motions, usually executed after power-on, through which the load is positioned into a well-defined point.

Test Mode
Sets the drives in a special test configuration setup. This configuration is supposed to be used during drive setup.
For a fast and easy way of learning how to use our intelligent servo drives, Technosoft offers starter kits for each product.

These evaluation kits are ready-to-run packages that include the complete hardware and software you need in order to evaluate and develop your motion applications.

Starter kits include:

- The EasyMotion Studio software
- The intelligent drive of your choice
- A motor (brushless or stepper)
- An I/O board
- A collection of application notes

**EasyMotion Studio**

EasyMotion Studio gives you access to the performance of the Technosoft Motion Language (TML). The TML is a high-level set of instructions that can be used to configure and parameterize the MotionChip-based drives, and to execute advanced motion operations. EasyMotion Studio platform simplifies the setup and motion programming, as well as the development and graphical evaluation of your motion sequences.

With the EasyMotion Studio, you can:
- Define the system architecture
- Identify the parameters of the motor, sensor or load
- Tune and adjust digital control loops
- Define motion sequences, import G-code files (for TMC-3D)
- Build the application in TML for single or multi-axis
- Analyze and evaluate the dynamic behavior of your motion system through real time data acquisition

**Motion Libraries for PCs and PLCs**

Motion Libraries are collections of functions allowing you to implement motion control applications on a PC computer or PLC, in order to run Technosoft intelligent drives based on the MotionChip technology. They enable you to communicate with a drive, set up its parameters, interrogate about its status, send motion commands, define motion events, test input and set output port statuses.

- **PC Motion Libraries running under Windows**: C/C++, C#, Visual Basic, Delphi Pascal and LabVIEW
- **PC Motion Libraries running under Linux**: C/C++
- **PLC Motion Libraries for Siemens, OMRON and B&R**: TML_LIB_S7, TML_LIB_CJ1 and TML_LIB_x20

**Starter Kits**

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- An I/O board
- A collection of application notes
Since over 20 years Technosoft has delivered motion solutions in various fields of the industry. This experience has matured into the continuous improvement of the performance and robustness of our products.

**Our commitment**
Satisfy our customer’s expectations by mastering all the technological aspects related to digital motion control solutions.

**Your satisfaction**
Technosoft is certified according to the ISO 9001:2015 standard. This rigorous management system and continuous improvement of the processes reinforce every day our competitiveness and the satisfaction of our customers.