

HP800 Series Touch Screen

IT7000 Series HMI



- 7", 10" & 15" display sizes
- IP65 rating (front side)
- Built-in Ethernet and serial ports
- VNC remote access
- Javascript programming
- Canvas control for graphic creation
- Support for OPC UA and Modbus RTU/TCP protocols
- IIoT ready (MQTT)
- Real-time clock



- Industrial touch screen display
- 15.6" (1366 x 768) and 21.5" (1920 x 1080)
- IP65 front panel
- Capacitive and resistive touch panel models
- HDMI, DP and VGA interfaces
- 16:9 format
- Panel mount and VESA-mount (75 x 75mm)

GL10 and GR10 Expansion Modules



- Local & remote I/O expansion for H3U, H5U and AM600; remote for AC700 and AC800 series
- EtherCAT coupler for remote expansion (up to 16 modules)
- Digital input/output modules
- Analog input/output modules
- Temperature sensing modules
- Encoder/counter and touch probe modules
- Pulse drives position control modules
- EtherCAT switch



- Compact footprint
- Able to control up to 32 EtherCAT axes
- Up to 16 local expansion modules (GL10)
- Built-in I/Os
 - 16 DI (with 4 x 200 kHz channels)
 - 14 DO (with 4 x 200 kHz channels)
- PLCoopen-compliant axis control
- Axis group for lineal and circular interpolation, CAM table functionality
- Simulation mode for offline debugging
- Supports function block and function for encapsulation, code reusability, and scalability
- ST, LD, and SFC language support
- Multiple communication protocols:
 - Modbus RTU/TCP
 - Ethernet IP
 - CANopen/CANlink
 - OPC UA

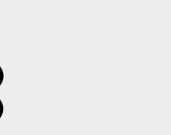
AM400/600 Motion Controller



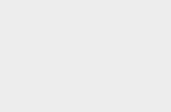
- Able to control up to 32 EtherCAT axes
- Up to 16 local expansion modules (GL10)
- 16 x high-speed inputs
- 8 x high-speed outputs
- Built-in 2 x incremental encoder inputs
- IEC 61131-3 programming environment (CODESYS)
- Multiple communication protocols:
 - Modbus RTU/TCP
 - Ethernet IP
 - CANopen/CANlink
 - PROFINET slave (can be used as gateway)



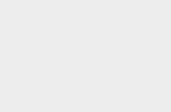
2003
founded



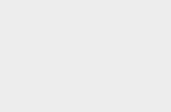
\$3,405 million
revenues in 2022



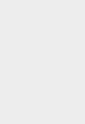
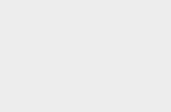
3.36 million
servo drives and
motors shipped in 2022



13,598
MV drives delivered
by end of 2022



4.3 million
AC drives
shipped in 2022



20k
Shenzhen, China

#5
No.5
for servo drives
globally in 2022*

2,248,000
EV powertrains
shipped in 2022

17,000+
industrial robots
delivered by end of 2022

100+
Inovance's products are
in use in 100+ countries

*According to leading market research company Interact Analysis

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Industrial Automation Solutions

Inovance's product range overview

Inovance offers the full range of industrial automation products:
LV & MV AC drives, servos, PLCs & HMs, motion controllers & I/Os,
CNCs, and industrial robots



An overview of our advanced products for industrial automation.

MD800 Compact AC MultiDrive



- 50% footprint reduction*
- Common rectifier: 1-N drives
- Single and dual drive modules
- 1/3 ph 200 V, 3 ph 400 V
- 0.2 kW to 11 kW (dual: up to 5.5 kW)
- Individual STO SIL 3 PL e capability on each drive module
- +24 VDC backup control supply
- Induction and PMS motor control (sensorless)
- Built-in Modbus RTU, CANopen
- EtherCAT (CiA402, EoE), PROFINET IO, Ethernet/IP (optional)

*Compared to traditional single drive modules

MD520 High Performance AC Drive



- 1/3 ph 200 V, 3 ph 400 V
- 0.4 kW to 500 kW
- Dual rated
- STO SIL 3 PL e
- Built-in LED colour display
- Induction, PMS and synchronous reluctance motor control (open and closed loop)
- Application dedicated functions (centre winder, wobble control, brake control, & master-slave)
- Built-in user programmable logic
- EtherCAT, PROFINET, Ethernet/IP, & Modbus TCP (option cards)

Wide range of MD520 Option Cards

- Feedback: MD38PGMD (incremental quadrature encoder, HTL/line driver), MD38PG4 (resolver), ES510-PG-CT1 (serial encoder), & MD520-PG-S1 (sincos)
- I/O extension: MD38I01 (5 DI, 1 AI, 1 RO, 1 DO, 1 AO, 1 RS485 and 1 CANlink), MD38I02 (3 DI), & MD38I03 (3 DI, 1 RO, 1 RS485)
- Communication: MD38TX1 (RS485, Modbus RTU), MD38CAN1 (CANopen, CANlink), MD-SI-DP1 (PROFIBUS-DP), MD500-ECAT (EtherCAT), MD500-PN1 (PROFINET), MD500-EN1 (Ethernet/IP), & MD500-EM1 (Modbus TCP)

MD810 AC MultiDrive



- Common rectifier: 1-N drives
- Single and dual drive modules
- 3 ph 400 V
- 1.5 kW to 160 kW (dual: up to 18.5 kW)
- STO SIL 3 PL e
- +24 VDC backup control supply
- Induction and PMS motor control (open and closed loop)
- Built-in Modbus RTU, CANopen
- EtherCAT, PROFIBUS-DP, & PROFINET variants
- Application dedicated functions (centre winder, wobble control, & master-slave)

SV660 Single-Axis Servo Drive



- 1/3 ph 200 V, 3 ph 400 V
- 0.1 kW to 7.5 kW
- STO SIL 3 PL e (-FS EtherCAT variant)
- Ultra-fast 4.5 kHz current loop (EtherCAT)
- Easy set-up and tuning
- EtherCAT, pulse, & CANopen variants available

SV670 Single-Axis Servo Drive



- 1/3 ph 200 V, 3 ph 400 V
- 0.1 kW to 7.5 kW
- STO SIL 3 PL e
- Ultra-fast 4.5 kHz current loop
- Easy set-up and tuning
- Feedback encoder interface: serial (Wetton), Nikona, Tamagawa and Harmonic
- EtherCAT & pulse/CANopen variants available
- Second encoder interface (full closed loop): incremental quadrature, serial (Wetton), BISS-C, Endat 2.2 and SSI
- Linear motor control

IS810N Multi-Axis Servo Drive



MS1 Servo Motors



- 23 and 26 bit serial encoders
- Rated power: 50 W – 7.5 kW
- MS1H1, MS1H4 (3,000 rpm):
 - Frames: 40, 60, 80
 - Rated torque: 0.16 – 3.18 N·m
- MS1H2 (3,000 rpm):
 - Frames: 100, 130
 - Rated torque: 3.18 – 15.8 N·m
- MS1H3 (1,500 rpm):
 - Frames: 130, 180
 - Rated torque: 5.39 – 48 N·m

- 3 ph 400 V
- Single and dual axes modules
- 0.85 kW to 75 kW (dual: up to 18.5 kW)
- STO SIL 3 PL e
- Ultra-fast 4.5 kHz current loop
- Feedback encoder interfaces: serial (Wetton) and Endat 2.2
- Second encoder interface: incremental quadrature
- EtherCAT CoE (CiA 402)
- +24 VDC backup control supply
- PMS and asynchronous motor control (closed loop)

LMC Linear motors



- Available sizes: 88, 118, 168, 188, 218 mm
- Rated force from 51 to 1235 N
- Peak force from 99 to 2717 N
- Speed up to 5 m/s
- Acceleration up to 5 g
- Effective stroke up to 6000 mm (LMC118)
- Position repeatability of $\pm 2 \mu\text{m}$
- Low cogging, silent operation

SVD60 Extra Low Voltage Servo

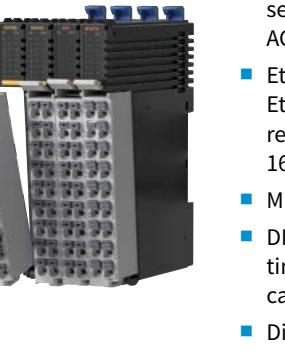


- Supply voltage: 24 to 72 VDC
- STO SIL 3 PL e (-FS variant)
- Ultra-fast 4.5 kHz current loop
- EtherCAT and CANopen variants available
- 23 bit serial encoder
- MS1H4 motors (3000 rpm):
 - Frames: 60, 80
 - Rated torque: 1.27, 2.39 N·m

SV680 Single-Axis Servo Drive



GL20 expansion modules



- Local & remote I/O expansion for Easy and AM300/500 series, remote for AC700, AC800, H5U & AM series
- EtherCAT, PROFINET, and Ethernet/IP couplers for remote expansion (up to 16 expansion modules)
- Min EtherCAT cycle 125 μ s
- DI/DO hardware response time within 100 μ s. AI/AO capture cycle up to 62.5 μ s
- Digital I/O modules
- Analog I/O modules
- Temperature sensing modules

AM320/521/522/523 CODESYS Controllers



- Compact footprint
- Quad-core processor
- Up to 8 (AM521), 16 (AM522) or 32 (AM523) EtherCAT axes
- Dual network port (in AM320 with independent IP address)
- Up to 16 local expansion modules (GL20)
- 4 encoder inputs (8x high speed inputs, up to 200 kHz)
- 2 expansion slots (GE20)
- IEC 61131-3 programming environment (CODESYS)
- Multiple communication protocols: Modbus RTU/TCP, Ethernet/IP, OPC UA, CANopen (optional card)

AC700 & AC800 Series IPC Motion Controllers



- CPU: Celeron series (AC703) or Intel i5 (AC810)
- Dual EtherCAT ports with redundancy support (AC802, AC810)
- Up to 256 EtherCAT axes
- Multiple communication protocols:
 - Modbus RTU/TCP
 - Ethernet IP
 - OPC UA
- Remote commissioning and IIoT capabilities
- IEC 61131-3 programming environment (CODESYS)
- Webvisu functionality (AC703, AC810)

Flex'n CNC

- CPU : Celeron series J6413 or Intel i3
- 8GB RAM, 128GB SSD
- Integrated Security Chip
- Protocols: EtherCAT, Modbus TCP, Ethernet/IP, OPC UA
- Fast commissioning with Engineering tool, Backup, logic analyzer
- Integrated axis optimization tools
- Integrated CAD/CAM with nesting
- Ready to use solutions: cutting (laser, plasma, waterjet) and milling