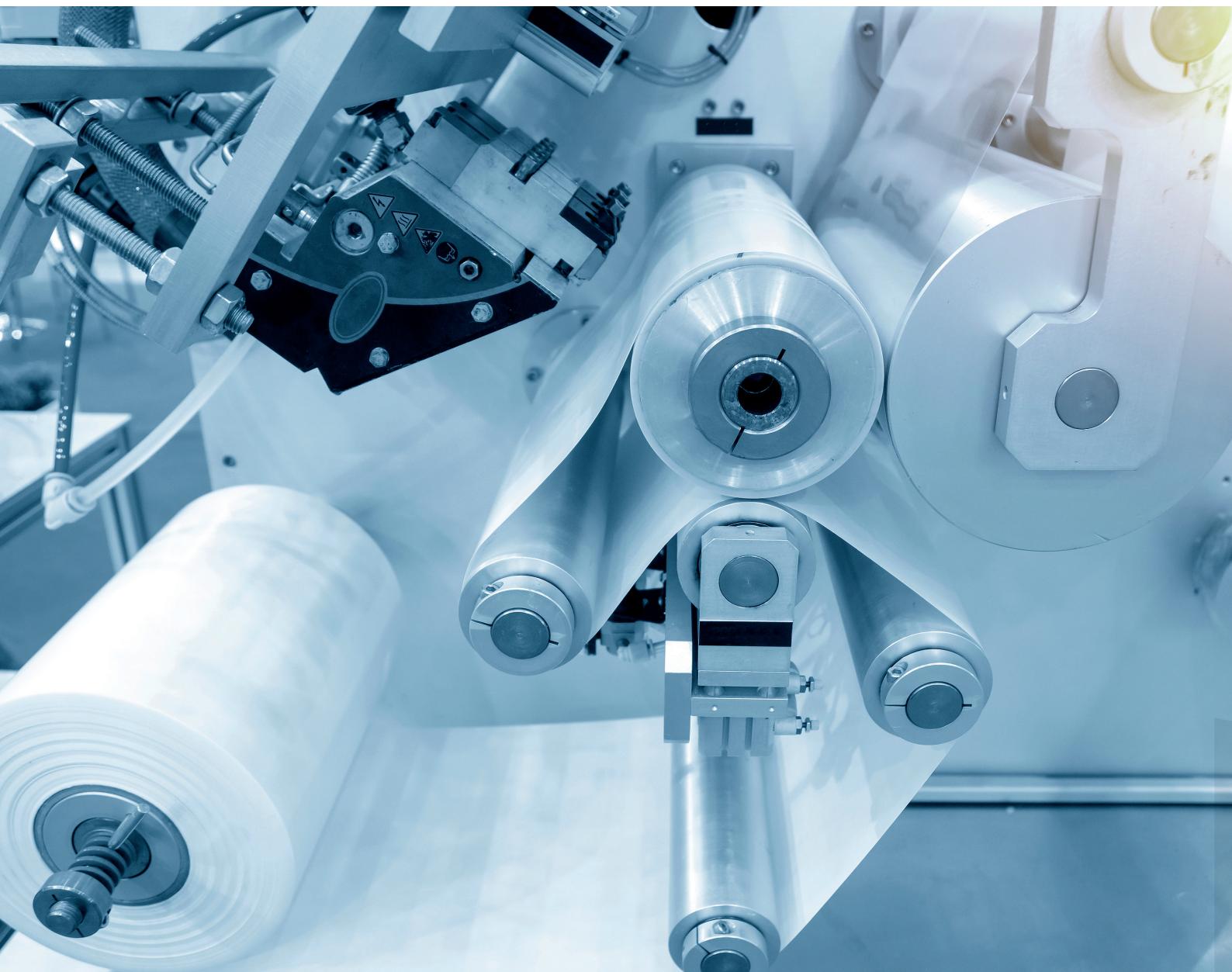


Industrial Automation Products

Inovance's complete product range

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



A brief overview of our best selling products



MD800 – Compact AC MultiDrive

- 50% footprint reduction*
- Common rectifier: 1-8 drives
- Single and dual drive modules
- 1 ph 200 V, 0.2 kW to 2.2 kW
- 3 ph 400V, 0.4 kW to 7.5 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)
- Complies with CE & UL

*Compared with traditional single drive modules

MD810 – AC MultiDrive

- Common rectifier: 1-N drives
- Single and dual drive modules
- 3 ph 400 V
- Inverter Unit
 - 1.5 kW to 160 kW (dual: up to 18.5 kW)
- Rectifier Unit
 - 22 kW to 355 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)
- Complies with CE & UL



MD520 – High Performance AC Drive

- Open and closed loop, 1/3 ph 200 V, 3 ph 400 V
- Dual rated (G & P ratings)
 - 3 ph 380 - 480 VAC, 0.4 to 500 kW
 - 3 ph 200 - 240 VAC, 0.4 to 75 kW
 - 3 ph 200 - 240 VAC, 0.4 to 2.2 kW
- Induction motor and PM synchronous motor control:
 - Open loop V/F (induction motors only) and SVC
 - Closed loop FVC
- Starting torque
 - 150% at 0.25 Hz for SVC
 - 180% at 0 Hz for FVC
- STO SIL 3 PL e
- Built-in LED colour display

- EtherCAT, PROFINET, Ethernet/IP, & Modbus TCP (option cards)
- PTC input as standard
- Application dedicated functions (centre winder, wobble control, brake control, & master-slave)
- Output frequency: 599 Hz
- Application dedicated functions:
 - Master-slave function (torque, speed)
 - Textile wobble control
- Brake control logic
- 4 motor parameter sets
- 4 independent S-ramps
- Simplified parameters for easy start up
- Complies with CE, UL & SIL 3

MD290 - General Purpose AC Drive

- Open loop, three phase 380 to 480 VAC, 0.4 to 450 kW
- Three phase 200 to 240 VAC, 0.4 kW to 75 kW
- Dual rated (G & P ratings)
- Open loop V/f (with slip compensation)
- Automatic torque boost
- Slip compensation
- Communications options:
 - Modbus-RTU
 - CANlink
 - PROFIBUS-DP
 - PROFINET
 - CANopen

- Simplified parameters for easy start-up
- 4-independent S-ramps
- Flexible, programmable I/O connection
- User programmable function
- Variable DC injection braking
- Comprehensive trip diagnostics
- Output frequency 500 Hz
- Complies with CE and UL



MD310 - Compact Vector, Economic AC Drive

- Open loop, three phase, 400 VAC, 0.4 - 18.5 kW
- Open loop V/f & sensorless vector control
- Starting torque:
 - 150% at 0.25 Hz for SVC
- Automatic torque boost
- Slip compensation
- Communications options:
 - o Modbus-RTU
 - o CANlink

- 4-independent S-ramps
- Flexible, programmable I/O connection
- Variable DC-injection braking
- Comprehensive trip diagnostics
- Built-in dynamic braking unit
- Complies with CE

MD200 - General Purpose, Economic Drive

- Open loop single phase 200 to 240 VAC, 0.4 to 2.2 kW
- Three phase 380 to 480 VAC, 0.4 to 3.7 kW
- Open loop V/F control & sensorless vector control
- Starting torque of 150% at 3 Hz
- Automatic torque boost
- Slip compensation
- Communications options:
 - o Modbus RTU (standard version)
 - o CANlink (variant)

- Simplified parameters for easy start-up
- 2-independent S-Ramps
- Flexible, programmable I/O connection
- Variable DC-injection braking
- Comprehensive trip diagnostics
- Built-in dynamic braking unit
- Complies with CE and UL



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

H3U PLC - High Performance with Motion Control



- Combined CPU and power supply supports local and remote I/O
- Basic instruction: 100 ns/instruction
- Program capacity of 64,000 steps
- Device memory:
 - Auxiliary relays – 9,216 points
 - Timers – 512 points
 - Counters – 256 points
 - Data registers – 9,552 points
 - File registers – 32,768 points
- High-speed inputs of up to 200 kHz
- High-speed outputs of up to 200 kHz
- Two-axis circular and point-point interpolated motion
- Communications options:
 - Ethernet (MODBUS-TCP)
 - RS485 (Modbus-RTU)
 - CANopen
 - CANlink

AM400/600 Motion Controller

- Able to control up to 32 EtherCAT axes
- Up to 16 local expansion modules (GL10)
- 16 x high-speed inputs, 200 kHz
- 8 x high-speed outputs, 200 kHz

- IEC 61131-3 programming environment (CODESYS)
- Multiple communications protocols:
 - Modbus RTU/TCP
 - Ethernet IP
 - CANopen/CANlink
 - OPC UA



SV660 – Single-Axis Servo Drive

- 1/3 ph 220 V, 3 ph 380 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, PROFINET & CANopen variants available



SV670 – Single-Axis Servo Drive

- 1/3 ph 220 V, 3 ph 380 V
- 0.1 kW to 7.5 kW
- STO SIL 3 PL e (-FS variant)
- Ultra-fast 4.5 kHz current loop
- Easy set-up and tuning
- Analog input & output
- Feedback encoder interface: serial (Wetton), Nikon and Tamagawa
- Second encoder interface: incremental quadrature
- EtherCAT, pulse, PROFINET & CANopen variants available
- +24 VDC backup control supply variant available

IT7000 Series HMI

- 7", 10" & 15" display sizes
- IP65 rating (front side), IP20 Panel
- 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



Easy Series PLC

- Compact footprint
- Up to 16 local expansion modules (GL20)
- Built-in I/Os
 - 8 high speed inputs (200 kHz)
 - 8 DO (with 4 x 200 kHz channels & PWM support)
- PLCopen-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, SFC language support
- Multiple communications protocols:
 - Modbus RTU/TCP
 - CANopen (optional)
 - Ethernet/IP (scanner)

GL10 and GR10 Expansion Modules

- Local & remote I/O expansion for H3U, H5U and AM600; remote for AC700 and AC800
- 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



GL20 Expansion Modules

- Local & remote I/O expansion for Easy series; remote for AC700, AC800, H5U & AM600
- EtherCAT, PROFINET, Ethernet/IP and I/O-Link couplers for remote expansion (up to 16 modules)
- Min EtherCAT cycle 125 µs
- DI/DO hardware response time within 100 µs. AI/AO capture cycle up to 62.5 µs
- Digital I/O modules
- Analog I/O modules
- Temperature sensing modules



2003
founded

20k

20,256
employees



IPO:2010



3,405M USD
revenues in 2022



Global
network of offices
and distributors



100+

Inovance's products are
in use in 100+ countries



3.36 million
servo drives and
motors shipped in 2022



17,000+
industrial robots
delivered by end of 2022



3.72 million
elevator drives
installed worldwide
by the end of 2022

#5

No.5

for servo drives
globally in 2021*

#8

No.8

for LV AC drives
globally in 2021*

#3

No.3

in Asia Pacific region*
AC drives market share
(excluding Japan)

*According to leading market research company Interact Analysis

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