

## Automation Solutions

## For all industrial applications



# INOVANCE

Forward, Always Progressing

## About Inovance

The Inovance Group is a leading provider of industrial automation solutions. The company was founded in 2003 in Shenzhen, China, and listed on the Shenzhen Stock Exchange in 2010.

Inovance's flexible production techniques and expert understanding of all industry sectors – from elevators to plastics to electric vehicles to robotics – has allowed the company to establish globally leading industry-specific business units. For example, Inovance's elevator and escalator business unit Monarch is one of the world's largest suppliers of elevator and escalator control solutions.

Inovance forms long-term partnerships with its customers. To achieve this, the group offers more than just products: working with Inovance gives customers access to world-class manufacturing and R&D facilities, as well as highly skilled engineering and industry-sector specialists.

Inovance is tracked by Forbes as a high potential business and is regularly featured in the global business press.

In 2012, Inovance embarked on a rapid program of global expansion. From an international export office in Hong Kong, Inovance has now established offices in India, South Korea, Turkey, Germany, France and Italy, as well as a significant European R&D presence.

## Automation solutions for all industries

Inovance's dedicated industry-specific business units deliver complete solutions for:

- Elevators & escalators
- Plastic injection machines
- Textile machinery
- Machine tools
- Air compressors
- Hoists & cranes
- Printing and packaging machines
- Robotics
- Electric vehicles
- Light rail transit



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## Your partner for industrial automation

AC drives   MV drives   Servo drives and motors   Intelligent controllers   PLCs & HMIs   Industrial robots   Industrial IoT   Electric vehicle inverters

### Inovance Panel Mount series

The IPM series offers panels across a range of sizes between 19" and 21.5".

### PA9000 Compact series

The PA9000 Compact series is an ultra-compact and lightweight EtherCAT CNC. With its passively cooled and rugged design, combined with its small size and weight, it is ideal for compact machines and use in cabinets.

### AM600

AM600 is a centralized motion controller with built-in PLC functionality. A standard EtherCAT port controls up to 32 synchronized axes. PLC open libraries support linear/circular/helical interpolation, cam profiles and robot kinematics. IEC 61131-3 and CODESYS programming are included with the InoProShop software tools. Additional modules can be added to the main CPU module to be able to manage different I/O types.

### MD810 AC drive system

The MD810 series is the AC version of our modular multi-axes drive system with common DC bus technology and a power range of 1.5-160 kW.

### IS810 servo drives

The IS810 is a high-performance modular multi-axis servo drive with a 625 kHz ultra-fast current loop. It has a power range of 850 W-110 kW and is designed for high performance in demanding applications. IS810 was created to work seamlessly with the MS1 - a compact IP67 servo motor.

### MD290 / MD500 AC drive series

The MD290 (v/f control) / MD500 (vector control) series is a general purpose single axis AC drive with a wide power range of 0.4-450 kW. This high-performance drive is designed to operate in harsh environments, and it can meet the most demanding requirements for torque accuracy and dynamic response.

### MD200 smart AC drive

The MD200 series is an entry level AC drive with a power range of 0.4-3.7 kW. It is easy to use, smart and reliable, and has a compact form factor.

### MS1 servo motors

The highly dynamic MS1 servo motor range has a wide variety of power ratings from 0.16-47 Nm, as well as flange and brake options.

### SV660 servo drives

SV660 is a high-performance single axis servo drive with a 625 kHz ultra-fast current loop and a power range of 100 W-7.5 kW. The SV660 supports EtherCAT communications, and is designed for seamless integration with the MS1 servo motor.

### SV820 multi-axis servo drives

SV820 is a high-performance, compact servo drive for 3 or 4 axis applications. It has a 625 kHz ultra-fast current loop and is designed to seamlessly integrate with MS1 motors from 50-750 W. SV820 supports CANopen and EtherCAT communication protocols.

### IT6000 control panel

IT6000 is a smart, high performance, color HMI. It comes in three model sizes: 4.3", 7" and 10.1".

## CNC systems by Inovance

### ADVANTAGES:

#### Rapid processing times

- Superior path algorithms
- Fast interpolation cycle time of 1 ms
- Communication cycle time  $\leq$  1 ms
- PLC cycle time  $\leq$  1 ms

#### EtherCAT<sup>®</sup> interface

- Easy communications
- Simple integration of 3rd party components
- Customizable functionality
- A proprietary development platform is not required

#### Maximum openness

- Maximum technical openness through Compile Cycles
- Flexibility to allow creation of bespoke CNC functions
- C language
- Customers can develop confidential CNC functions without involving a third party - giving total confidence that IP is protected
- Real-time machine control

#### Soft PLC

- Allows easy CNC adaption
- Modular PLC structure
- Powerful PLC / CNC interface
- Easy commissioning
- Function library for applications

#### HMIs

- Intuitive operation
- Application specific HMIs available
- Drag and drop tools into toolchanger
- Zoom and rotate 3D simulations
- 'Smart operation concept' means Inovance HMIs are as easy to operate as a smartphone
- Customizable HMI layout

## About Inovance Technology Europe

Inovance Technology Europe is the European division of Inovance.

With its network of offices and R&D facilities in Germany, France, Italy and Turkey, Inovance Technology Europe is able to offer rapid delivery and local service and support across the continent.

Inovance has invested heavily in European R&D capacity, and has based its large local engineering research team in Germany, with a secondary research team located in Italy.

The company's European R&D teams develop fully compliant European products designed for the local market, and are currently working on a variety of CNC real-time machine control products.

Inovance's European development efforts are rapidly expanding to encompass high-end motion control, servos and drives.

## Local Service and Support

Technology leadership is combined with local engineering expertise provided by skilled engineering teams based across Europe. Inovance's locally-based engineers form close ongoing partnerships with customers, guaranteeing rapid product availability, and ensuring quick access to on-site technical support and engineering knowhow.

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