Smart Machine Suite

DIAStudio

Save Time and Bring Convenience to Your Design

DIAStudio is an integrated engineering platform designed for machinery system development.

To simplify and reduce the time required, tasks such as product selection (Delta's HMIs, PLCs, servo drives and motors, AC motor drives), PLC programming, parameter setting, machine commissioning, and HMI integration can all be executed smoothly on one platform with DIAStudio key tools.

DIAStudio
Smart Machine Suite

DIASelector Product Selection
- Provides a desktop (Windows), web, and app-Based (Android & iOS) mechanism for quick product selection

DIADesigner Programming and Configuration
- Provides an integrated environment of controllers and terminal equipment for project management, IEC61131-3 programming and parameter setting, adjusting and monitoring, allowing users to quickly implement complex industry applications

DIADesigner-AX Motion Controller Programming
- Supports Delta's new generation motion controller (AX series) based on IEC 61131-3 programming with a large number of built-in application commands and a powerful motion control library

DIAScreen HMI Programming
- Provides wizards for configuration, communication, user interface design, and variable tag sharing with DIADesigner and DIADesigner-AX

Applications
Automated equipment: Electronics manufacturing, Labeling, Food packaging, and Textiles machines

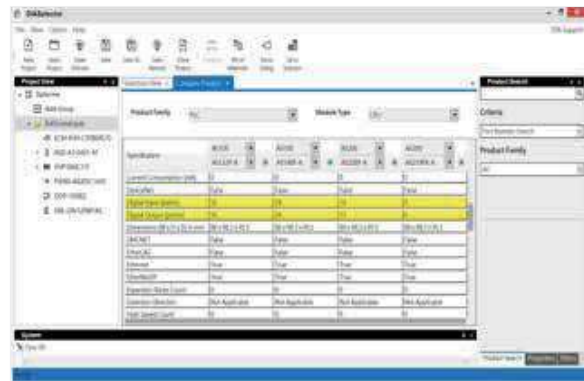# DIASelector Product Selection

Quick & Smart Selection Tool

Easy product selection with specifications, patterns and key words to select Delta's controllers, servo drives, motor drives, sensors, and HMIs for various automation projects.

- Desktop (Windows), Web, and Android / iOS versions are available
- Smart selection wizard for efficient product selection
- Integrated product information and up-to-date data
- Data sharing with EPLAN
- Collaborate and share on cloud, work across team

Product Selection / Search / Filter

Product Comparison

Smart Wizard

Servo Sizing

Friendly model selection by application scenarios for 8 servo types

Other Features

- Product information (catalogs / manuals) for download
- Compatible accessories recommendations
- BOM list generation based on projects and sharing by email

DELTA

Smart Machine Suite

DIADesigner PLC Programming and Configuration

Integrated Development & Engineering Software

Provides a programming environment for machine system developers to enhance system configuration and development efficiency.

- Manages multiple products in one project:
  - PLCs / AC servo drives / AC motor drives
- Project management interfaces:
  - Basic view for beginners
  - Advanced view for advanced users
- Programming:
  - Compliant with IEC 61131-3 standards
  - LD, ST, SFC, CFC

- Intuitive network and hardware configuration
- Commission: Oscilloscope / Parameter / Servo Tuning
- Data management
- One wire communication
- Library manager
- DIACloud communication

User-oriented Project Management

Basic designer view:
Wizard Design for operation guidance
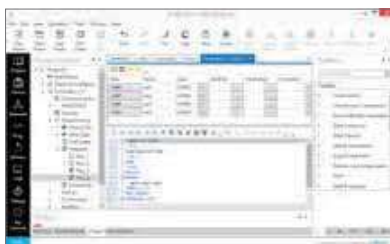

Advanced designer view:
Complete functions via menus

Supports IEC61131-3 Standard Programming Language
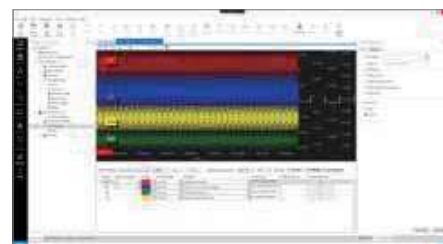
Ladder Logic

ST Structure Text

Sequence Function Chart

Intuitive Topology Configuration

Commissioning Tool

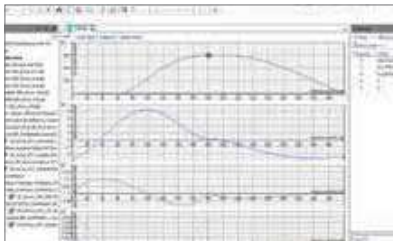# DIADesigner-AX Motion Controller Programming

Motion Development & Engineering Software

DIADesigner-AX is the IEC 61131-3 programming tool for Delta's new generation motion controller. It offers built-in commands and a powerful motion control function library. Multilingual function and a user-friendly interface create an efficient development environment.

- IEC 61131-3 programming tool for Delta's new-generation motion cotroller AX Series
- Built-in commands and a powerful motion control function library
- Open and modular platform allows secondary development of customized functionalities and components by users from different industries
- Motion control programming based on standard PLC open motion control
- Easy tag sharing between **DIAScreen** and AX Series Controllers

Electronic Cam

- Provides E-Cam synchronous control function
- Graphic interface for programming E-Cam curves

Multi-Axis Function Block

- Motion control using IEC 61131-3 function blocks

DIAScreen HMI Programming

Intuitive Visualization Software

User-friendly HMI programming software for DOP-100 and TP Series

- Abundant elements and smooth animation
- Advanced alarms
- User authority management
- Integrates HMI and text panel software functions and user interface for consistent UX
- Tag sharing between projects on **DIADesigner** and **DIADesigner-AX**

Tag Sharing

Compatible with HMIs and text panels

Interface unity

DOP Series

TP Series

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