



**FOREMOST
MOTION**

Product Catalog

2026

NEXT GENERATION OF AUTOMATION



CONTROLLERS



SERVO DRIVES



SERVO MOTORS



INDUSTRIAL ROBOTS

An engineering company turning industrial machines into smarter, faster, more reliable systems.

Foremost Motion is an engineering company developing industrial automation and software built on computer-based control technologies. We deliver end-to-end solutions to industrial machine manufacturers — from control products and motion systems to tailored software and turnkey application solutions.

We supply the controller, servo, drive, HMI and robot product groups of the brands we represent — VEICHI first among them — together with commissioning, application software and after-sales support. For us, every company we work with is a solution partner: their success is our success.

- Understand needs and deliver customized solutions
- Track technology and offer the most innovative solutions
- Optimize production, increase efficiency, reduce cost
- Minimize error margins and ensure flawless delivery
- Provide solutions that make partners sector pioneers

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Controllers

VEICHI VH600 is a medium motion controller (PLC) built for high-end machine and factory automation, with ultra-high-speed processing and a rich set of integrated functions. Its IEC 61131-3 CODESYS platform delivers up to 128-axis control and 8-axis synchronization as fast as 1 ms over EtherCAT.

Highlights

- CODESYS / IEC 61131-3 (LD, FBD, ST, SFC, CFC)
- 8-axis synchronization ~1 ms over EtherCAT
- Up to 128 axes; e-cam, e-gear, interpolation, robotics
- 2×EtherNet (built-in switch), CANopen, RS485, OPC UA
- 16 right-side expansion modules, SD card



Technical Specifications

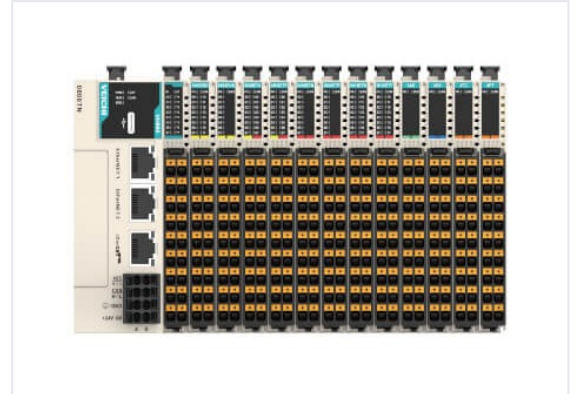
AXIS COUNT	Up to 128 (VH600-0808TN/P)
SUPPLY	DC 24 V
COMMUNICATION	EtherCAT (128 slaves), 2×EtherNet, CANopen (31 slaves), RS485
HIGH-SPEED I/O	8×200 kHz counter + 8×200 kHz pulse output
EXPANSION	16 modules right; analog/digital/RS485/RTC left
PROCESSOR	Multi-core (up to 4 cores)
MOTION	Linear/circular interpolation, e-gear, e-cam, G-code, robotics

IO Modules

VEICHI VH right expansion modules flexibly grow the I/O capacity of VH200/VH300/VH500/VH600 PLCs. Over a new-generation D-BUS at up to 100 Mbps they add up to 16 modules — digital I/O, analog I/O and PT/TC temperature modules. Push-in terminals mean no rewiring when a module is swapped.

Highlights

- D-BUS speed up to 100 Mbps
- Up to 16 right-side modules
- Digital, analog and PT/TC temperature modules
- Push-in terminals — no rewiring on swap
- Status/diagnostic LEDs, color-coded wiring



Technical Specifications

DIGITAL INPUT	16/8 channels; 24 Vdc, ~4 mA, 100 µs
DIGITAL OUTPUT	16/8 channels NPN/PNP; 24 Vdc, 0.5 A/ch
ANALOG INPUT	VH-4AD: 4 ch, 16-bit, ±10 V / ±20 mA
ANALOG OUTPUT	VH-4DA: 4 ch, 12-bit, ±10 V / 0–20 mA
TEMPERATURE	VH-4PT (RTD), VH-4TC (thermocouple)
BUS SPEED	Up to 100 Mbps (D-BUS)
EXPANSION / HOSTS	Up to 16 modules; VH200 / VH300 / VH500 / VH600

MODULE FAMILIES

Digital I/O 8	Analog I/O 3	Temperature & Weighing 3	Remote I/O Adapter 3	Left Extension 8
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SD700

SINGLE-AXIS

VEICHI SD700 is a high-performance single-axis servo drive for precise position, speed and torque control. With a speed-loop bandwidth up to 3 kHz and settling time down to 1 ms it stays stable in highly dynamic applications, offering a 23-bit absolute encoder, multi-stage vibration suppression and rich communication interfaces. It pairs with V9E servo motors in packaging, machine-tool and general automation machines.

Highlights

- 3 kHz speed-loop bandwidth; 1 ms settling time
- 23-bit absolute encoder (2.5 Mpps); 17-bit compatible
- Multi-stage vibration / resonance suppression
- EtherCAT, CANopen, MECHATROLINK, RS-485; pulse + analog
- STO (SIL3) safety; CE / UL / EAC



Technical Specifications

CONTROL MODE	Position / speed / torque (pulse, analog, bus)
BANDWIDTH	Speed loop up to 3 kHz; settling 1 ms
ENCODER	23-bit absolute (2.5 Mpps); 17-bit compatible
INPUT	1/3-phase 220 V, 3-phase 380 V, 50/60 Hz
CURRENT CLASSES	1.1 A – 520 A
COMMUNICATION	EtherCAT, CANopen, MECHATROLINK, RS-485
SAFETY	STO (SIL3); CE / UL / EAC

SD860

MULTI-AXIS · COMMON DC BUS

The VEICHI SD860 multi-drive servo system combines many axes on a common DC bus for a high-density, energy-efficient architecture. Its dual-axis single-chip design lowers communication latency and improves interpolation; with EtherCAT bus synchronization, STO safety and energy shared across axes it cuts cabinet volume by up to 60%. It is used in machine tools, 3C, lithium-ion and photovoltaic production and robotics.



Highlights

- Common DC bus — energy shared across axes
- Dual-axis single chip; low-latency interpolation
- EtherCAT bus (>100 Mbps) synchronization
- Up to 60% cabinet space saving
- STO safety; CE / UL

Technical Specifications

ARCHITECTURE	Multi-axis multi-drive; dual-axis single chip; expandable
COMMON DC BUS	510–720 Vdc; 22 / 42 / 60 A
INPUT	3-phase 380 V
CURRENT CLASSES	3.8 – 24 A (peak 11.4 – 60 A)
COMMUNICATION	EtherCAT (>100 Mbps); 100 MHz internal bus
CARRIER / OUTPUT FREQ.	8 kHz; 0–500 Hz
SAFETY / PROTECTION	STO; CE / UL; IP20

Servo Motors

The VEICHI V9E series are general-purpose servo motors for applications demanding precise positioning and high dynamics. With a 40–180 mm flange range, a 24-bit battery-free multi-turn encoder and IP67 protection they cover a wide power range maintenance-free. Together with SD700 servo drives and the SD860 multi-axis servo system they form a complete drive solution.



Highlights

- 0.32–47.8 N·m, up to 7000 rpm
- 24-bit battery-free multi-turn encoder (maintenance-free)
- 40–180 mm flange range
- IP67 protection, Class F insulation
- Full compatibility with SD700 / SD860; CE / UL

Technical Specifications

TORQUE RANGE	0.32 – 47.8 N·m
SPEED	Rated 1500/2000/3000 rpm; max up to 7000 rpm
FLANGE	40 – 180 mm
ENCODER	24-bit and above; battery-free multi-turn option
PROTECTION / INSULATION	IP67; Class F

AC Drives (Inverters)

VEICHI AC310 is a high-performance frequency inverter (VFD) driving both asynchronous and permanent-magnet synchronous motors (open- and closed-loop). Its book-style narrow body saves up to 60% space, with SIL3 STO safety and rich expansion interfaces — used in fans, pumps, compressors, wire-drawing, injection molding and machine tools.

Highlights

- Async + PM sync; V/F, open/closed-loop vector
- Book-style narrow body — up to 60% space saving
- SIL3-compliant STO safety function
- Modbus-RTU standard; PROFIBUS/CANopen/PROFINET opt.
- 150% torque at 0.5 Hz; 1:1000 speed range



Technical Specifications

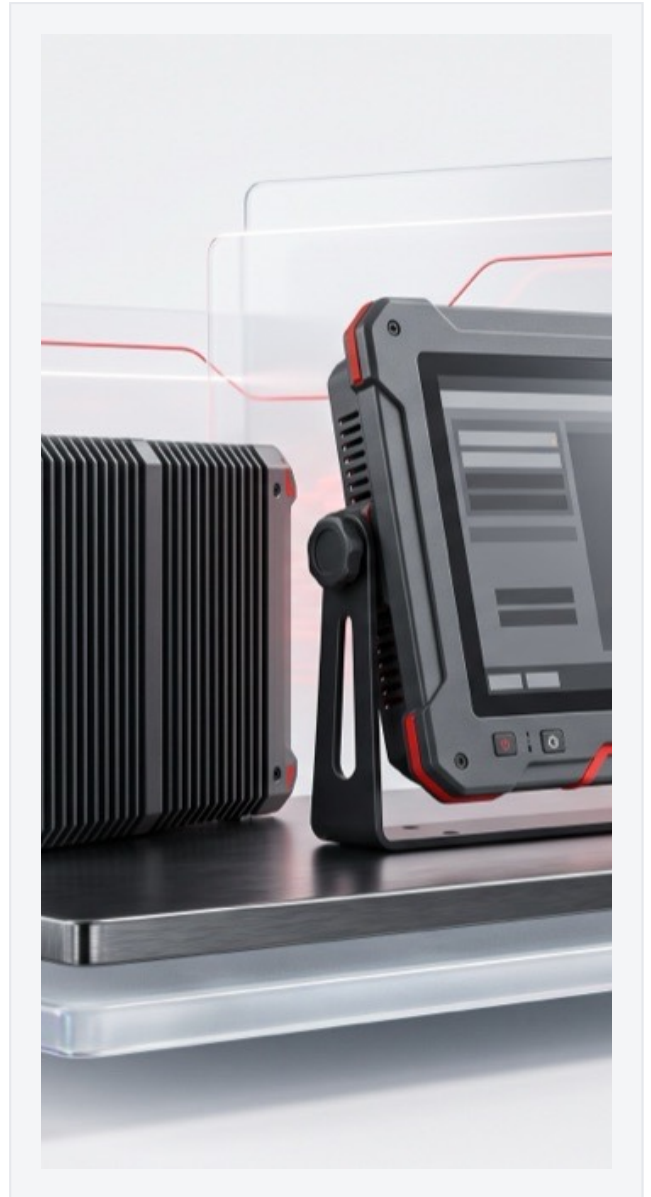
POWER RANGE	3-phase 380 V: 0.75–1120 kW; 220 V: 0.75–220 kW
INPUT	1/3-phase 220 V, 3-phase 380 V, 50/60 Hz
CONTROL MODE	V/F, vector w/o PG (VC), vector w/ PG
OUTPUT FREQUENCY	0–599 Hz (G type)
CARRIER FREQUENCY	1.0–16.0 kHz
OVERLOAD	150%/1 min, 180%/10 s, 200%/0.5 s
COMMUNICATION	Modbus-RTU; PROFIBUS-DP/CANopen/PROFINET (opt.)
PROTECTION / EFFICIENCY	IP20, forced air; efficiency ≥ 96%

IPC & Monitors

Industrial computers (Box & Panel PC) and touch monitors built for harsh shop-floor conditions. A powerful, stable platform for your Windows-based interfaces and CAD/CAM software.

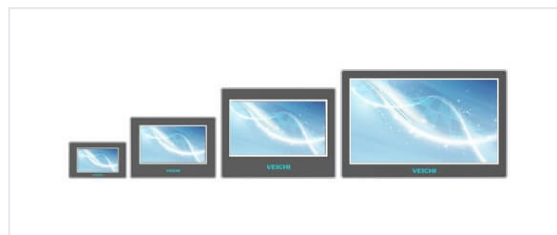
Highlights

- Industrial Box & Panel PC
- Touch monitor options
- Fanless / rugged design
- Windows software compatibility



HMI Panels

The VEICHI VI20 series are new-generation industrial IoT operator panels with high-brightness HD displays and wide viewing angles. They bring edge computing with 300+ protocols, VPN/routing and MQTT, plus optional FLink (2G/4G/WiFi) modules and the FlexCloud platform for remote monitoring and configuration.



Highlights

- HD high-brightness display, up to 170° viewing
- Edge computing: 300+ protocols, VPN/routing, MQTT
- FLink IoT (2G/4G/WiFi) and FlexCloud platform
- 4.3"–15.6" size options
- Front panel IP65; CE & RoHS

Technical Specifications

SCREEN SIZES	4.3" / 7" / 10.1" / 15.6" (16:9 TFT)
RESOLUTION	800×480, 1024×600, 1920×1080
BRIGHTNESS	250–400 cd/m ² ; LED, 50,000 h
TOUCH	4-wire resistive
PROCESSOR	600 MHz / 1 GHz ARM Cortex-A8 (U1: dual-core)
MEMORY	From 128 MB Flash + 128 MB DDR3
INTERFACES	Ethernet 10/100M, USB Host/OTG, RS232/485/422
POWER / PROTECTION	DC 24 V (9–28 V); front IP65 / rear IP20

Spindle Motor

High-speed spindle motors for wood, marble, metal and jewelry machining. Together with their drives they deliver an optimized torque-speed curve and long service life.

Highlights

- High-speed options
- Air / liquid cooled types
- Drive-optimized torque
- Long-life bearing design



Handwheel (MPG)

Portable handwheel (MPG) units that let the operator move axes manually and precisely. They bring speed and safety to setup, calibration and maintenance.

Highlights

- Portable / panel type
- Axis & step selection
- E-stop & enabling switch
- Precise jog control



Gear Reducers

Gear reducers multiply the torque of servo and AC motors and reduce speed precisely, driving the load accurately and steadily. A helical planetary design delivers low backlash, high torsional rigidity and quiet running for synchronized transmission in precise positioning and high-cycle machinery. Lifetime lubrication makes them maintenance-free, and standard servo flange sizes bolt them straight onto the motors. Depending on the application, single/two-stage ratios, flange or shaft output and right-angle (worm) types can be selected.



Highlights

- Low backlash: down to ≤ 1 arcmin (helical gears)
- High torsional rigidity and low noise (56–68 dB(A))
- 3–100:1 ratios; single- and two-stage
- Lifetime lubrication — maintenance-free; IP65
- Direct mounting to standard servo flanges

Technical Specifications

BACKLASH	≤ 1 –8 arcmin (by type)
RATIO	3–100:1 (single / two-stage)
RATED TORQUE	~11–1480 N·m; peak up to ~2210 N·m
EFFICIENCY	96–97%
TORSIONAL RIGIDITY	1.3–228 N·m/arcmin
OUTPUT	Square flange; shaft (keyed / DIN 5480 / plain) or pinion
RADIAL / AXIAL LOAD	Up to 20,000 N / 17,000 N
INPUT SPEED	Up to 6,000–10,000 rpm
PROTECTION / TEMP.	IP65; $-25...+90$ °C

Industrial Robots

The VEICHI industrial robot family covers assembly, pick-and-place, welding, painting and palletizing with SCARA (4-axis), 6-axis articulated and collaborative (cobot) models. The robots are developed around VEICHI's own servo motor, drive, encoder and reducer technology (SD200 drive, RB200 joint modules) for high repeatability and low maintenance. With payloads from 1 kg to 50 kg and reach from 370 mm to 1920 mm they address a wide application range.

Highlights

- SCARA (4-axis): 3–50 kg payload, 400–1200 mm reach
- 6-axis articulated: 1–30 kg payload, 370–1920 mm reach
- Collaborative (cobot) model options
- Assembly, pick-and-place, welding, painting, palletizing, SMT
- VEICHI integrated drivetrain: servo + encoder + reducer (SD200 / RB200)



Technical Specifications

ROBOT TYPES	SCARA (4-axis), 6-axis articulated, collaborative
SCARA PAYLOAD / REACH	3–50 kg / 400–1200 mm
6-AXIS PAYLOAD / REACH	1–30 kg / 370–1920 mm
AXIS COUNT	4 (SCARA) / 6 (articulated)
CORE COMPONENTS	RB200 joint modules, FT1 frameless motor, SD200 drive
APPLICATIONS	Welding, painting, assembly, pick-and-place, palletizing, inspection

Application solutions tailored to each sector



Woodworking

Axis synchronization, nesting optimization and operator-friendly interfaces for CNC routers, sizing and drilling machines. Control optimized for high speed and clean cuts.

Controllers

Servo Drives

Spindle Motor

HMI Panels



Marble Processing

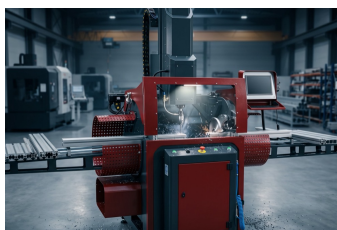
Water/dust-resistant components, precise axis control and efficient cutting optimization for marble cutting, polishing and processing machines.

Controllers

Servo Drives

AC Drives (Inverters)

Spindle Motor



Profile Machining

High repeatability with multi-axis control, automatic feeding and precise dimensional control for aluminium and PVC profile machining machines.

Controllers

Servo Drives

IO Modules

HMI Panels



Garment Sewing (Back-Pocket)

Pattern control, synchronized axis motion and high-speed stitch optimization for back-pocket sewing, pocket-hemming and automatic pocket-setting machines in apparel and garment production.

Controllers

Servo Drives

HMI Panels

IO Modules



Wire Bending Machines

3D bending control, angular precision and fast recipe changeover for wire & flat-bar bending and wire straightening machines.

Controllers

Servo Drives

Handwheel (MPG)

HMI Panels



Tube Bending Machines

Multi-axis synchronized control, springback compensation and repeatable bend quality for tube bending machines.

Controllers

Servo Drives

IO Modules

HMI Panels



Gold & Jewelry Machines

High-precision micro-machining, fine spindle control and detailed quality for milling and engraving jewelry machines.

Controllers

Servo Drives

Spindle Motor

HMI Panels



Fabric Cutting (Cutter)

Fast contour following, synchronized blade control and automatic nesting for minimal waste in automatic fabric cutter machines.

Controllers

Servo Drives

IO Modules

HMI Panels



Foam Cutting

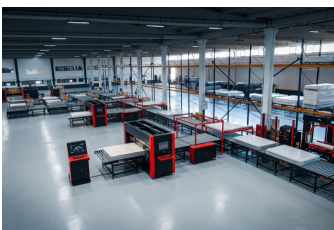
Precise axis control, synchronized blade/wire motion and repeatable cut quality with clean edges for foam cutting machines.

Controllers

Servo Drives

IO Modules

HMI Panels



Mattress Manufacturing

Synchronized axis control, pattern management and line automation across the whole mattress production line — from foam cutting and quilting to spring assembly and packaging. A high-cycle, stable and operator-friendly control architecture.

Controllers

Servo Drives

HMI Panels

IO Modules



**FOREMOST
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Contact

PHONE

+90 216 606 40 44

MOBILE

+90 539 930 80 89

EMAIL

hasan@foremostmotion.com

WEB

www.foremostmotion.com



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