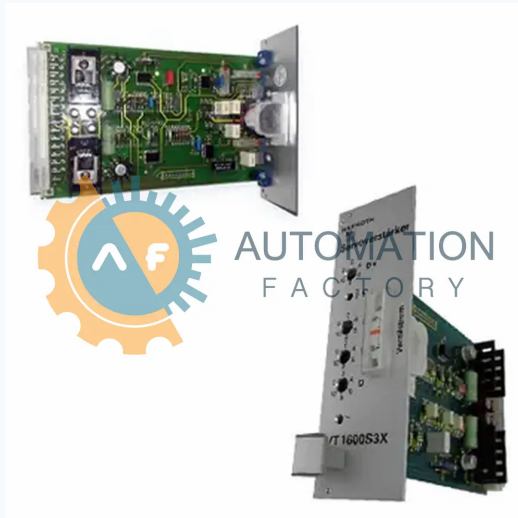


Bosch Rexroth Indramat — VT 1600 Servo Amplifiers

VT 16000-2X-151-A

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The **VT 16000-2X-151-A** is a multi-axis servo amplifier unit manufactured by **Bosch Rexroth Indramat** within the VT 1600 Servo Amplifiers series. It provides closed-loop position, pressure, and synchronization control for up to four hydraulic axes in presses, die-casting machines, and similar automation cells. By housing several detachable signal modules on one backplane, the card forms the electronic core that translates CNC or PLC commands into proportional valve currents and precise hydraulic motion.

Each combination module offers **8 analog inputs** for reading displacement transducers, pressure sensors, and temperature probes, while **4 analog outputs** deliver reference currents or voltages to proportional valves and external indicators. Axis motion is handled by a **PDT1** position controller that combines proportional, differential, and first-order lag elements for stable following error management. Pressure regulation is executed by the integrated **PIDT1** algorithm, adding integral action to maintain the setpoint under load changes. For multi-axis movements, a **PI** synchronization controller ties slave cylinders to a master reference so that platen alignment remains constant during the stroke.

Sequencing resources include **32 cross-axis cams** that trigger outputs at specified positions and a storage capacity of **2000 NC sets** to keep part programs local to the hardware. Programs are coded in the standardized **DIN 66 025** NC language, easing migration from earlier Rexroth motion platforms. Encoder feedback options span two counter channels and four SSI inputs, and the amplifier accepts command words from PLCs through its COM252M communication software. Up to four plug-in modules fit the rack, allowing designers to combine digital I/O

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with the analog and encoder boards needed for each hydraulic axis.

Specifications

Combination Module Analog Inputs:	8	Combination Module Analog Outputs:	4	Communication Software:	COM252M
Counter Module Encoders:	2	Cross Axis Cams:	32	Digital Module Inputs:	8
Digital Module Outputs:	8	Max Hydraulic Axes:	4	Max Nc Sets:	2000
Max Plug-in Modules:	4	Nc Language:	DIN 66 025	Position Controller:	PDT1
Pressure Controller:	PIDT1	Ssi Module Encoders:	4	Supported Plcs:	S5-115U, S5-135U, S5-155U, S7-400
Synchronization Controller:	PI	Last Verified:	10/28/2026 7:58 PM		

Contact Us

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