Okuma — MIV Servo Drives

MIV0102-1-B1



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The **MIV0102-1-B1** inverter unit is manufactured by Okuma as part of the **MIV Servo Drives** series. It functions as the power stage in an Okuma motion axis, transforming incoming DC bus energy into three-phase output power for compatible servo motors. Within an automated machining center, the unit communicates with the CNC controller and receives motor feedback so that feed, spindle, or auxiliary axes can accelerate, decelerate, and hold position accurately. The inverter is housed in a modular chassis that allows multiple drive sections to be installed side by side in a compact control cabinet while retaining independent regulation for each connected axis.

The L-axis channel delivers **1.33 hp** of mechanical output, which is equivalent to **1.0 kW**. This channel is governed by the **ICB1 inverter control board**, which manages carrier modulation and processes current feedback during motor operation. Its control program is stored in **Standard ROM 1**, supporting the unit's standard motion functions and diagnostic routines. Motor compatibility includes **BL and PREX motors**, allowing the inverter to operate with supported brushless motors and higher-torque PREX models. With the appropriate encoder feedback connected, the drive uses closed-loop control to monitor motor response and correct deviations across the operating speed range.

The M-side channel delivers **2.67 hp** of continuous mechanical output, which is equivalent to **2.0 kW**. Its higher capacity supports axes that require greater torque during acceleration, including larger linear tables and rotary heads. Both power channels operate within the same **modular inverter assembly**, reducing the cabinet space required for separate drive units. Thermal information is communicated through the backplane so the control system can coordinate current limits among neighboring inverter modules. The shared rack connections also

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distribute control signals and DC bus power without requiring an independent cabinet interface for every axis. Each channel remains separately regulated, allowing the machine control to command different motion profiles while monitoring current and feedback data for the associated motor.

Specifications

Compatible Motor Type:	BL motor, PREX motor	**Control ROM type:**	Standard ROM 1	**Inverter control board type:**	ICB1
L side Capacity (hp):	1.33 hp	**L side Capacity (kW):**	1.0 kW	**M side Capacity (hp):**	2.67 hp
M side Capacity (kW):	2.0 kW	**Product Type:**	Okuma Inverter Unit	**Last Verified:**	11/15/2026 4:12 PM

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