

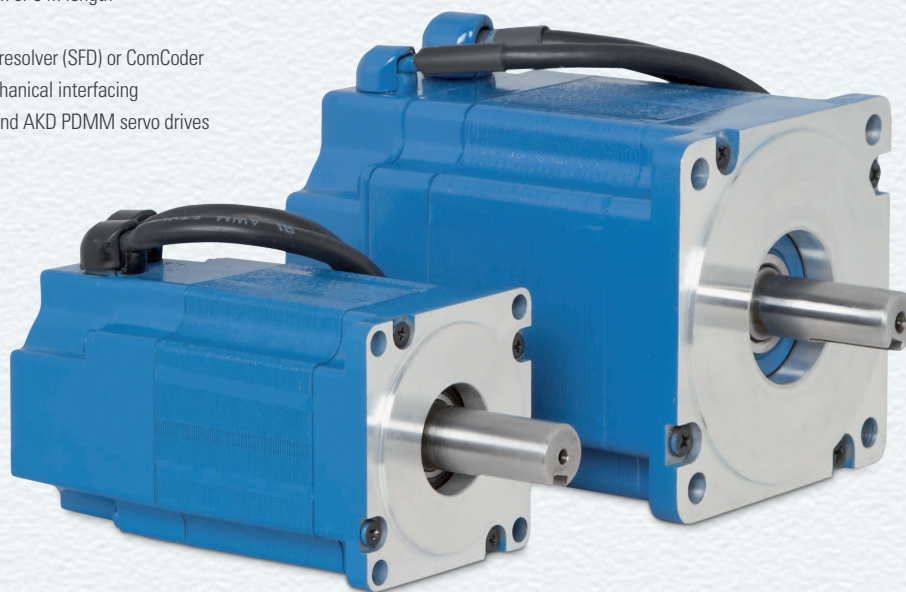
Economy with Performance and Functionality

VLM servomotors close the performance gap between steppers and high-end servomotors

- ▶ **Excellent price-performance ratio in Nm/Euro**
- ▶ **2 frame sizes, 6 motor sizes and 12 standard windings**
- ▶ **Feedback devices - digital resolver (SFD), resolver, encoder or Hall sensors**
- ▶ **Control with all AKD series servo drives**
- ▶ **Electronic nameplate auto-setup with the digital resolver (SFD) option**

Pratice-oriented Performance Data and Functions

- Torque range up to 4.5 Nm (continuous) and 16 Nm (peak)
- Frame sizes 60 and 90 mm (NEMA23/NEMA34)
- Speed range up to 6000 rpm
- Permanently mounted cable with 1 m or 3 m length
- Various connector options available
- Feedback options - resolver, digital resolver (SFD) or ComCoder
- Three shaft options for flexible mechanical interfacing
- Compatible with AKD, AKD BASIC and AKD PDMM servo drives
- CE and RoHS compliant, UL certified
- High quality robust design

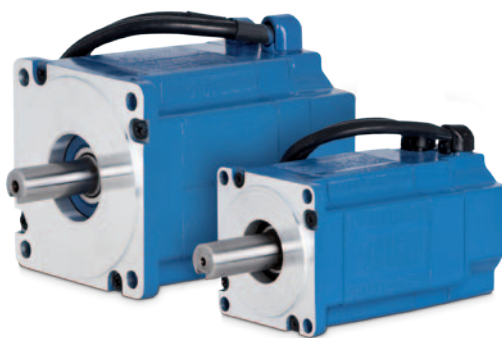
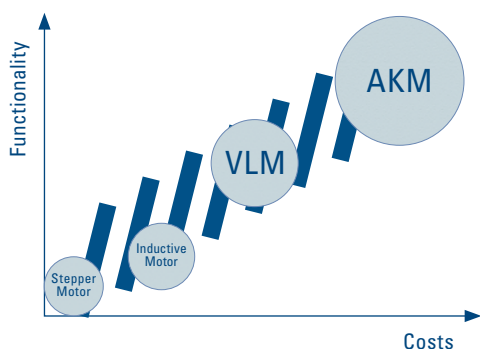


Kollmorgen VLM series servo motors offer an exceptional torque to cost ratio. The VLM2 and VLM3 model close the gap between basic stepper or induction motors and high-performance servomotors. Features and options are adapted in regard to cost: The VLM servomotors are supplied with fixed cables and connectors. An electronic nameplate option is available with digital resolver (SFD) feedback option allowing VLM motors ready for use immediately after connection.

VLM servomotors are particularly suited for use with the AKD servo drive and the AKD BASIC servo drive with integrated motion control. This economically priced servomotor may also be controlled with the AKD PDMM for applications that require full motion and machine control without an external PLC, with extremely cost-effective results.

VLM Servomotors with Performance Plus

VLM servomotors combine economic efficiency with functionality and performance. Positioned between the limited capability of stepper or induction motors and high-end servomotors, these cost effective motors deliver a measurable increase in performance when the use of high-end servomotors is inefficient, and when stepper or induction motors would compromise performance requirements.



		VLM21	VLM22	VLM23	VLM31	VLM32	VLM33
Frame Size (NEMA/mm)		23/60 mm			34/90 mm		
Supply Voltage	V AC	120/240			120/240		
Continuous Torque (Stall) T_{cs}	Nm	0,48	0,83	1,18	1,96	3,55	4,53
Rated Torque T_{rd}	Nm	0,44	0,73	1,00	1,82	3,32	
Peak Torque T_p	Nm	1,66	2,94	4,2	6,4	12,0	15,9
Max Mechanical Speed N_{max}	rpm	6000			6000		
Weight	kg		1,9	2,3	3	4,7	6,3
Feedback Options		Hall sensor, digital resolver (SFD), resolver, encoder					
Kollmorgen Servo Drives		AKD, AKD BASIC, AKD PDMM (with Motion Controller and PLC)					
Connections		Permanently mounted cable with connectors or free ends, length 1 m or 3 m					
Shaft Options		Key, smooth, flat			Key, smooth		

Dimensions in mm		VLM21	VLM22	VLM23	VLM31	VLM32	VLM33
Flange □	F	58			89		
Length	Z	102,40	127,80	153,20	110,50	148,60	186,70

