Software

IVI delivers the software that you need!

MacTalk For setup, monitoring and diagnostics Mac-Talk is the preferred choice for most users.

Although advanced functionality is included, all operations are very intuitive and easy to use. Moreover MacTalk is used both for QuickStep and MAC motor® (integrated servo motors).

MacTalk allows you to adjust all vital parameters and save them in a file or load them from a file. It is also possible to monitor parameters and motor status in real time.

When commissioning a system MacTalk even provides a convenient way to test and adjust your system. You can easily set up a test sequence and then adjust parameters like velocity, acceleration and torque. It is possible to select the distance moved and the delay between the moves. Also more observed memory and and and a select and select and select and select and select and the delay between the moves. Also more observed memory and select and selec advanced parameters are easily adjusted.

A nice feature is the update function: if A mice leadure is the update function: In your PC is connected to the internet you can update the MacTalk software itself – and even the motor system's firmware can be updated. Once bought, MacTalk will stay "fresh" – always including the latest functionality.

Graphical Programming Like the Nano-PLC in the servo motors (MAC motor®) programming QuickStep very user friendly, icon-based command a graphical programming environmen Each I/O point, which can be defined input, output or analogue input, can b used in the program. Many command available with different kinds of relativ absolute movements, jumps and IF commands, timers and other functions

ep is ands in	in the QuickStep motor can be accessed and changed if required.	Visual .N Delphi
nt. I as	OCX software	 Borland LabView
be Is are	If your application is controlled by a PC you might prefer JVL's OCX software.	Excel
tive or	The OCX (OLE Custom Controls – also known as ActiveX Controls) enables	and any o supportin
ns.	applications to be easily developed for example in:	

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It is possible to request input conditions and set outputs. All registers and parameters Visual Basic al C++ Net d C++ Builder other environmer ing OCX controls.

Specifications									
		1	P	A)	S	3		J.
	Main motor type	MIS231	MIS232	MIS234	MI5340	MIS341	MIS342		
	Holding torque	1.2 [170]	1.9 [269]	3.3 [425]	3.0 [425]	6.1 [863]	9.0 [1274]	Nm [Oz-In]	
	Resolution	1600	1600	1600	409600	409600	409600	Counts per rev.	
	Supply voltage (main)	12-48	12-48	12-48	12-80	12-80	12-80	VDC	
	Supply voltage (control and main I/O)	12-28	12-28	12-28	12-28	12-28	12-28	VDC	
	Typical supply current (main) @24 / 48 / 80/DC	2.2/2.1/-	2.2/2.2/-	2.5 / 2.0 / -	5.1/5.1/5.1	5.6 / 5.3 / 5.6	6.0/5.4/6.1	ADC RMS	
	Nominal speed range	0-1023	0-1023	0-1023	0.01 - 3000	0.01 - 3000	0.01 - 3000	RPM	
	Rated mechanical power (max.)	74	85	77	260	288	315	W	
	Rotor inertia	0.3 [0.00423]	0.48 [0.00677]	0.96 [0.0135]	1.4 [0.0198]	2.7 [0.0381]	4.0 [0.0564]	kgcm ² [Oz-In-Sec]	
	Flange dimensions	57x57 [2.3]	57x57 [2.3]	57x57 [2.3]	87x87 [3.4x3.4]	87x87 [3.4x3.4]	87x87 [3.4x3.4]	mm [Inch]	
	Length	96 [3.78]	118.5 [4.67]	154 [6.06]	95.0 [3.74]	126.0 [4.96]	156.0 [6.14]	mm [inch]	_
	Shaft diameter	6.35 [0.25]	6.35 [0.25]	10.0 [0.3937]	9.53 [0.3752]	9.53 [0.3752]	14.0 [0.5512]	mm [inch]	
	Weight	0.9 [1.98]	1.23 [2.71]	1.823 [4.02]	2.05 [4.52]	3.13 (6.9)	4.2 [9.26]	kg [lb]	



program that includes all the necessary units and comport to build up a complete motor control system. JVL is represented throughout Europe and Asia by independictive to a solic the sector. onenti program that includes all the necessary units and components to build up a complete motor control system. ML is represented throughout Europe and Asia by independent distributors and in USA by a sister company. ML International AgS. In Germany we have our own office, ML beutschland, All distributors are carefully selected by NL to have the necessary knowledge and experience to help our customers in the best pushide way in the richicie of motion control components.

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QuickStep

- the integrated stepper motor

A new way of saving money **All Electronics Inside**

Stepper motors with integrated controller



Save Money and Troubles

Cave money and me	abioo		
Formerly building up a motion control system was a complicated affair involving many components: • PLC	Electrical noise from the cables carrying the high motor currents added to the problems.	By investing in a modern integrated QuickStep motor from JVL you achieve the following benefits:	
Indexer/controller Indexer/controller Driver Stepper Motor (or a servo motor wi/Encoder and Hall Sensor) A lot of cabling to connect all these items And finally a complex software that had to be programmed properly	JVL has reduced these problems to a minimum with the introduction of the integrated QuickStep motor to the motion control market. In these motors the Indexer/controller, Driver, and optional wireless, ethernet, and an encoder are all built together with the motor in one compact unit.	 Reduced material costs because the driver and controller are integrated into the motor. Most cabling to the control panel is eliminated Reduced labour costs since cabling is minimised. Assembly time is greatly reduced Better quality and reliability 	
It required a lot of expertise to make the system function correctly, and installation was very time consuming and many sources of potential faults.	One software package, MacTalk, makes set-up extremely easy, and the different motor types adapt the motor to almost any application.	 Fewer connections, less wiring Ease of serviceability Double supply facility to ensure that position and parameters are maintained after emergency stop Switching noise from the drive 	
Previous system build-up		due to commutation is contained in the motor	
PLC Cable 1 Indexer/ Cable 2 Dr controller	iver Cable 3 Motor Optional: Encoder Limit sw. and local I/O	 OEM cost savings Same physical size even with various options such as Ethernet and wireless 	



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JVL Industri Elektronik A/S

.integration in motion

M is a motion control company, located in Denmar

M is a motion control company, located in Denmark, up stornth of Copenhagen. The development, research and production facilities of JM employ only the latest technology for the development and production of electronic controls for integrated step- and servo motors. More than 50% of the staff are engineers with a very high degree of experience and competence in the field of motion control. We can therefore offer a product

