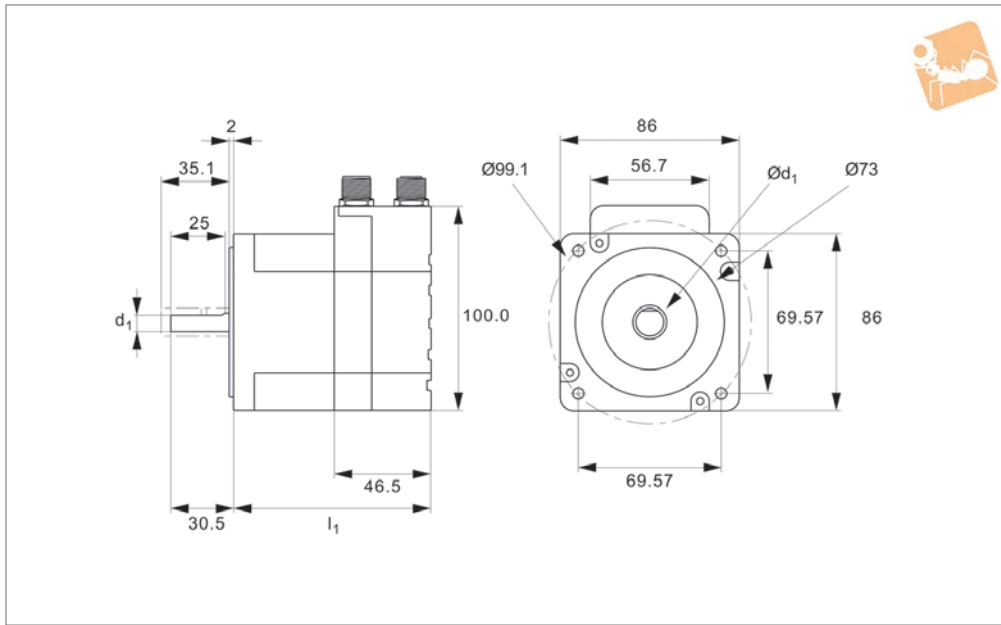
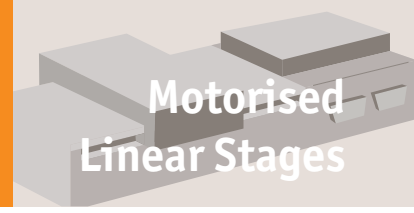




Intelligent NEMA 34 Stepper Motors with mactalk software

Motorised Linear Stages



L3536

MOTORISED LINEAR STAGES

Material

Combined 2 phase, high torque stepper motors with in-built power driver and controller.
IP42/55 rated (IP 67 optional).

Technical Notes

Allows easy control from a PC or PLC for single or multiple motors. Low cost alternative to motors, drivers and controllers. Easy to use free software, little cabling. The I/O points can be set up by users as Input or Output or as analogue input.

Resolution: 409600 counts/rev.
Mainly supply voltage: 12-80V DC.
Control and main I/O supply voltage: 12-28V DC.
Nominal speed range 0.01-3000 rpm.

Tips

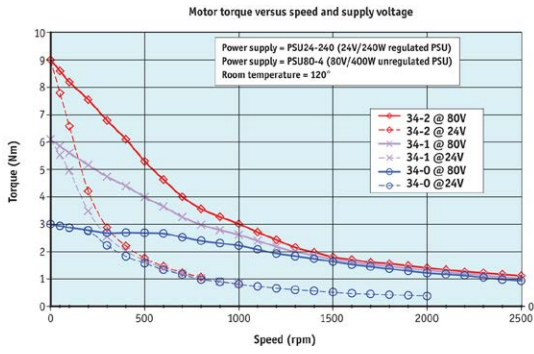
8 I/O's that can be configured to Inputs, Outputs or analogue Inputs. Can readily be programmed in Labview, VB etc. The motor can be run independently from PC if required (programmed can be downloaded to motor). Easy connection via

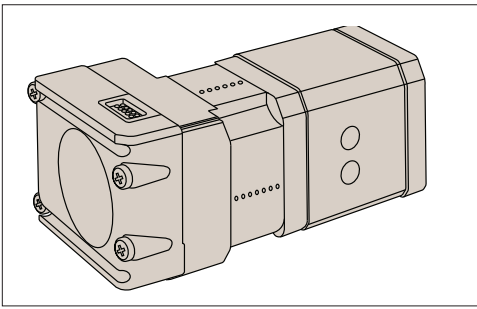
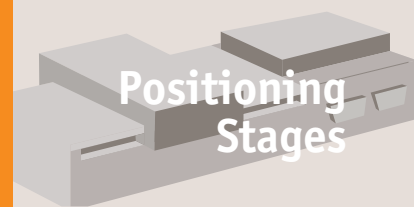
USB port, RS 485, optional wireless and ethernet control.
Optional encoders, gearing, motor brake etc.

Important Notes

We have a free motor selection help service - including a free motor configuration software programme and technical help to ensure the motor is to your requirement - please consult our technical department for full motor specifications.

Order No.	Holding torque Nm	Flange dimensions	Length	Shaft $+0 -0.013$	Power W max.	Rotor inertia $\text{kg}\cdot\text{cm}^2$	Typical supply current @24V DC ADC RMS	Typical supply current @48V DC ADC RMS	Typical supply current @80V DC ADC RMS	Weight kg
L3536.34-0	3,0	87x87	95	9,53	260	1,4	5,1	5,1	5,1	2,0
L3536.34-1	6,1	87x87	126	9,53	288	2,7	5,6	5,3	5,6	3,1
L3536.34-2	9,0	87x87	156	14,0	315	4,0	6,0	5,4	6,1	4,2
L3536.34-3	10,5	87x87	220	14,0	>320	5,3	6,3	5,7	6,6	5,3





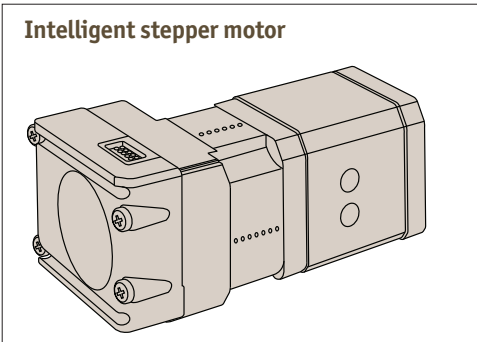
Intelligent stepper motor

- No need for separate motion controller.
- Inbuilt motor, driver and controller.

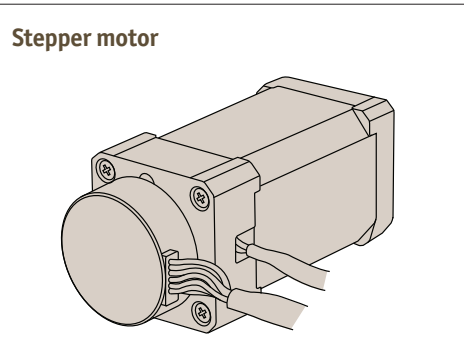
Options

- Standard
- With rotary encoder (512 line)

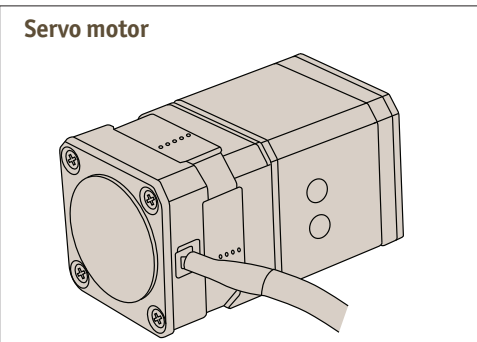
Separate motor controllers (single axis)



- Standard
- With rotary encoder (512 line)



- Standard
- With rotary encoder (1000 line)



- Standard
- With rotary encoder (1000 line)



Controllers



L3294 Single axis stepper motor controller

- Communicate via RS-232 or Ethernet interface
- Uses virtually any programming language



L3295 Two axis stepper motor controller

- Communicate via RS-232 or Ethernet interface
- Programming via Labupu, VB, C++ and OSX etc.
- Stand alone programs can be downloaded
- Max output of 1.5A



L3296 Multi axis stepper motor controller

- Communicate via RS-232 or Ethernet interface
- Can control 4 axis and perform coordinated or independent motion of each or all the axis simultaneously
- Uses virtually any programming language



L3297 Single axis servo motor controller

- Communicate via RS-232 or Ethernet interface
- Uses virtually any programming language

Accessories



Joysticks



Digital readout



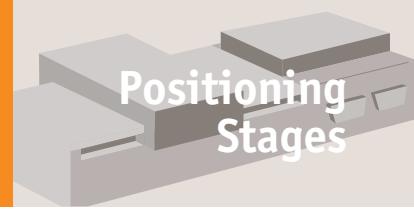
Connector RS232-USB



Connector RS422-USB

Positioning Stages from Automation Components

MOTORISED LINEAR STAGES



These have major benefits as they combine the motor (from size NEMA17 up) with an inbuilt driver and controller.

- Stepper or servo motor versions.
- Simple to install
- CE certified
- Free software programming

Plug and play

- Download free software
- Connect motor to computer (USB port)
- Connect power supply to the motor
- Start controlling/programming

- Low cost solution.
- The I/O points can be set by users to input, output or analogue input.
- NEMA17, 23, 34, 43 and larger sizes available.
- 12-48VDC.
- High torque stepper motors (1.2 to 10.5 Nm).
- Simple Windows software program provided free).
- Also Labview VB etc. programs.
- IP67, Motor brake.
- Optional Joysticks.

Positioning Stages from Automotion Components

MOTORISED LINEAR STAGES



Setup save/open
The complete setup can be either saved or reloaded from a file using these buttons.

System control
Use these buttons to save data permanently. Reset the motor etc.

Error Handling
Use these fields to define error limits for the position range etc.

Motor status
This field shows the actual motor load, position and speed etc.

Run status
Shows what the status of the motor is. The Bus voltage for the motor and the temperature of the driver is also shown.

Inputs
The status of the digital inputs are shown here and the analogue value.

Outputs
The status of the outputs are shown here and can be activated by the cursor.

Errors
If a fatal error occurs information will be displayed here.

Warnings
Here different warnings are shown.

Startup mode
The basic functionality of the unit is setup in this field

Profile data
All the main parameters for controlling the motor behaviour are setup in this field.

Driver parameters
These fields are used to define standby and running current.

Gear factor
The gear ration can be entered here.

Motion parameters
The distance the motor has to run is entered here.

Zero search
All the parameters regarding the position zero search can be specified.

Autocorrection
The parameters used to get the correct position if it is a motor with encoder.

Communication
The actual address of the motor can be entered

Help line
Left area: If parameters entered are outside their normal values, errors are shown here.
Right area: Here it is possible to see if a motor is connected, the type, version and serial no.

Introduction

The software is the main interface for setting up the motor for a specific application. The program offers the following features:

- Choice of the operating mode of the motor
- Changing main parameters such as speed, motor current, zero search type, etc.
- Monitoring the actual motor parameters

in real time, such as supply voltage, input status, etc.

- Changing protection limits such as position limits.
- Saving all current parameters to disc.
- Restoring all parameters from disc.
- Saving all parameters permanently in the motor.

Command toolbox description

The toolbox used for the programming covers 14 different command types. The idea for the commands is to have an easy access to the most common functions in the motor. Some functions seem to be “missing” at first sight but the button “Set register in the quickstep motor” or “Wait for a register value before continuing” gives direct access to 50 function registers. In total this gives a very powerful programming tool since >95% of a typical program can be built using the simple command icons and the last part is obtained by accessing the basic motor registers directly if required.

Inserts a remark/comment in the program source code

Set the motor in the desired mode such as position or velocity mode.

Initiates any motor movement relative or absolute.

Unconditional jump from one program line to another.

Inserts a delay in the program specified in milliseconds.

Write a value to almost any register in the basic unit.

Wait for a certain state at one or more of the digital inputs.

Initiates a zero search to a sensor or a torque (no sensor).

Set a certain state at one or multiple digital outputs.

Conditional jump from one program line to another. Input dependent.

Wait for a certain state at one or multiple digital inputs.

Conditional jump from one program line to another. Input dependent.

Save the actual motor position to an intermediate register.

Preset the position counter to a certain value.