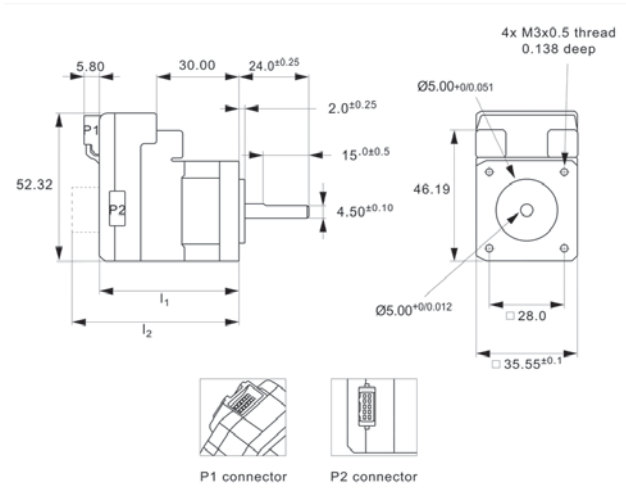
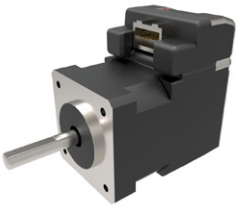




L3530

Material
Combined 2 phase, high torque stepper motors with in-built power driver and controller.
IP20 rated (IP 67 optional).

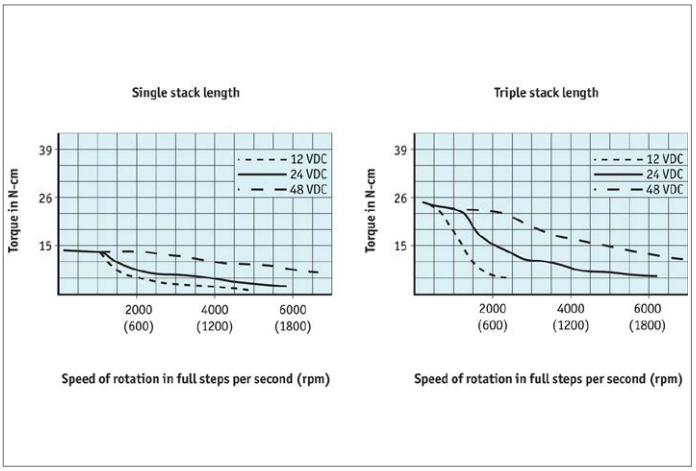
Technical Notes
Allows easy control from a PC or PLC for single or multiple motors. Low cost alternative to motors, drivers and controllers. Easy to use free software, little cabling.

Voltage 12 to 48V DC.
20 microstepping resolutions up to 51,200 steps per rev.
Up to 8 I/O lines, one 10 bit selectable analogue input.

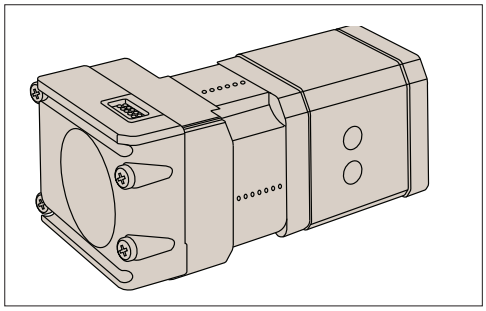
Tips
Can readily be programmed in Labview, VB etc. The motor can be run independently from PC if required (programmed can be downloaded to motor). Easy connection via RS422/485.
Optional encoders, gearing, motor brake etc.

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	l_1 max.	l_2 max.	Shaft +0|-0.013	Rotor inertia kg·cm²	Weight kg
L3530.14-1	0.13	35x35	49	67	5.00	0.014	0.15
L3530.14-3	0.25	35x35	77	95	5.00	0.057	0.38



Positioning Stages from Automotion Components



Intelligent stepper motor

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

Options

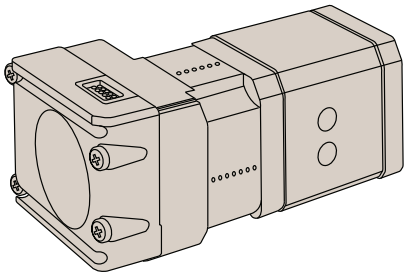
- Standard
- With rotary encoder (512 line)

Separate motor controllers (single axis)

Single axis stepper controller

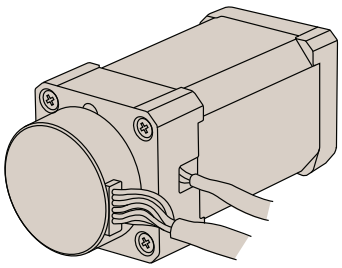
Single axis servo controller

Intelligent stepper motor



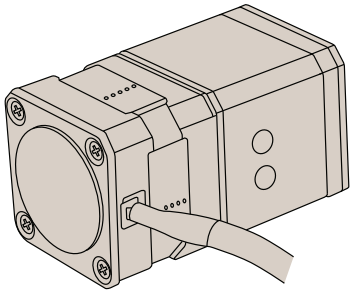
- Standard
- With rotary encoder (512 line)

Stepper motor



- Standard
- With rotary encoder (1000 line)

Servo motor



- 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 and programming language

L3297 Single axis servo motor controller

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

Accessories

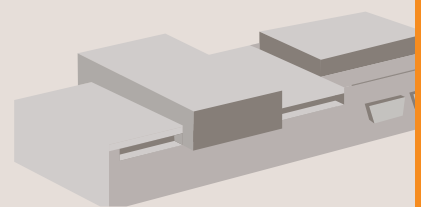
Joysticks

Digital readout

Connector RS232-USB

Connector RS422-USB

Positioning Stages from Automotion Components



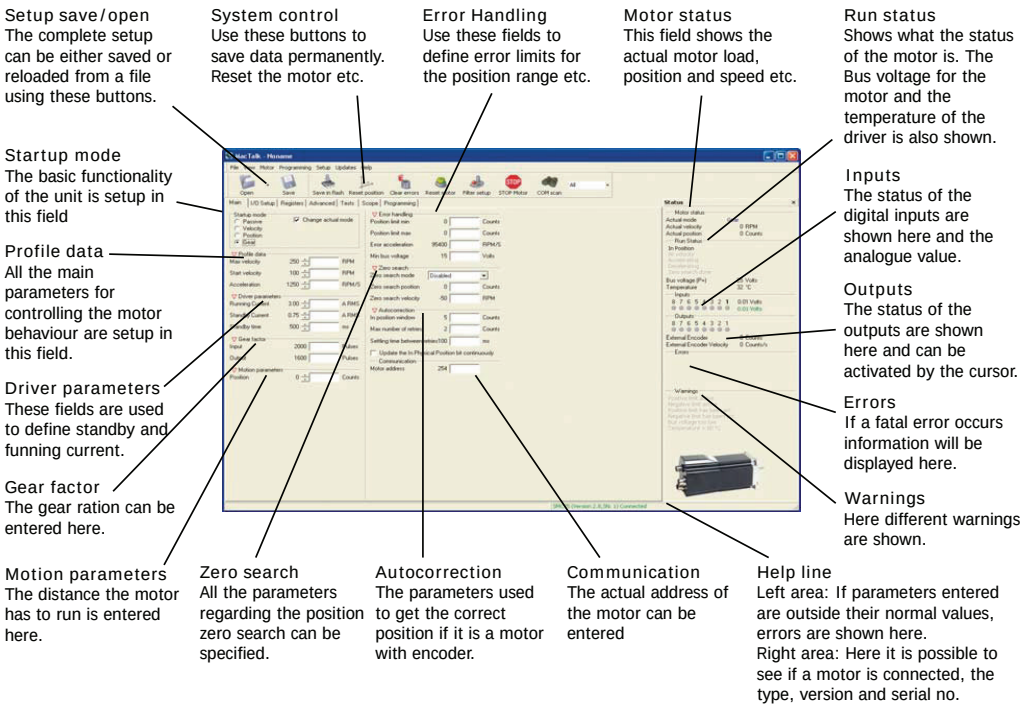
These have major benefits as they combine the motor (from size NEMA17 up) with an inbuilt driver and controller.

- 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.



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
- 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.