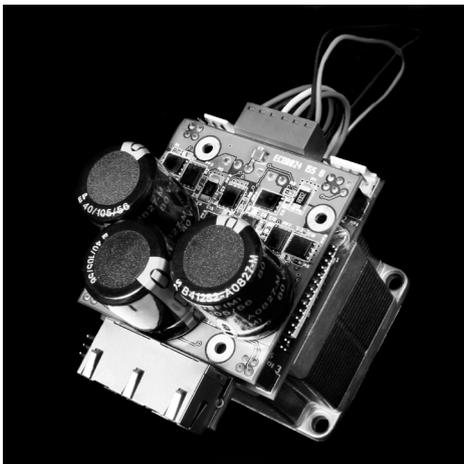


## Overview of Red Drive

# RED DRIVE



**Rotalink**  
Miniature Motors, Transmission and Control

### Unsurpassed flexibility

A unique range of programmable motor control boards used to turn a low-cost brushed DC, brushless DC or stepper motor into a precise and responsive servo.

The Red Drive range includes 1 Amp, 2 Amp and 10 Amp boards able to run brushed DC motors as well as 6 and 10 Amp boards capable of brushless commutation and driving stepper motors. All are able to operate at up to 30 volts, letting the Red Drive series drive servos based on any one of Rotalink's wide range of DC motors. These range in power from 1 Watt to 100 Watts.

A Red Drive can accept digital and analogue inputs and produce digital outputs. This allows it to interface with other control electronics as well as work in conjunction with photo-sensors, limit switches, potentiometers and a host of other devices.

Most importantly, the board has been designed from the ground up to work seamlessly with Rotalink's range of encoders to achieve precise acceleration, position and speed control.

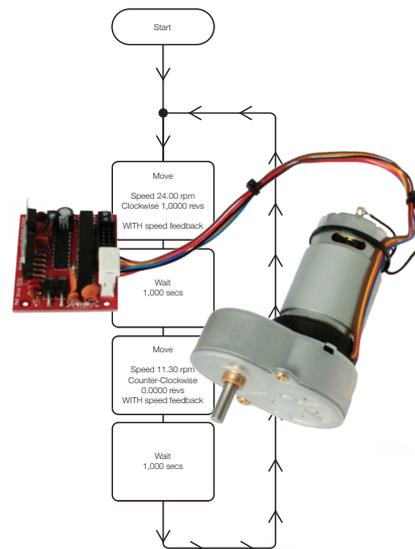
### Create complex programs with simple tools

The key feature of the Red Drive system is the software used to program it, which is available freely from our website. A Red Drive program consists of a flow chart constructed from drag and drop blocks on a desktop computer and loaded onto the red drive in few clicks via a serial adapter.

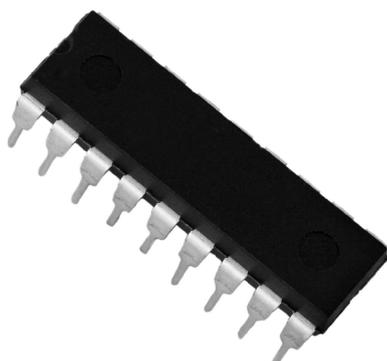
The range of blocks available has been carefully chosen to enable the controller's full capabilities to be utilized. This visual interface minimizes the time taken to locate bugs in a program, streamlines development and makes it easy to reprogram completed machines to fit different applications.

### From the test bench to the marketplace

To begin working with the Red Drive system, contact our Internal Sales Engineer at [info@rotalink.com](mailto:info@rotalink.com) for a sample control board. This will come bundled with all the leads, connectors and software required to begin working with it, along with a motor and gearbox tailored to your project. Once the sample arrives, support and advice are available to ensure your development goes smoothly.



Once a design is ready for production Rotalink is able to supply the servo motor with just the Red Drive chip rather than the full control board. This chip can be built into a streamlined version of the control board by the customer. Unused input and output connectors can be removed, filters may be unnecessary and MOSFETs can be scaled down to better suit the power required.



#### Contact:

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