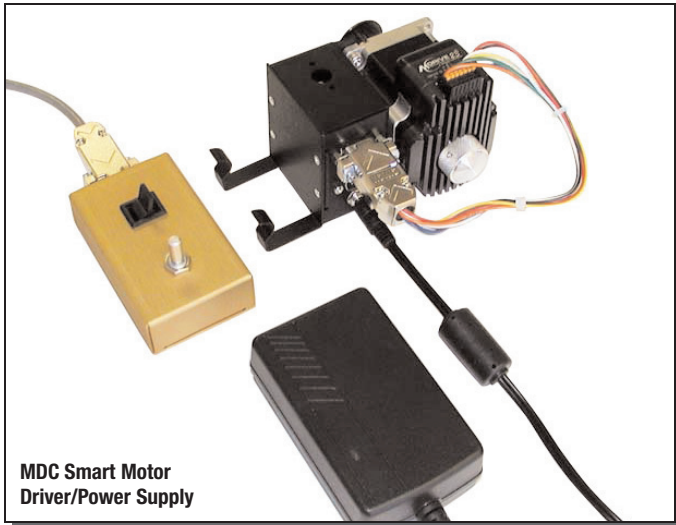


### SMART MOTOR TECHNOLOGY

#### Features

- Motor with integrated controller and power supply
- Cost effective solution
- Extremely compact
- Choice of joystick control or computer interface
- Motors available in 3 different stack sizes
- Optional encoders available
- Can be customized for a variety of applications



MDC Smart Motor  
Driver/Power Supply

### INTRODUCING NEW SMART MOTOR TECHNOLOGY

Add motorization, convenience and precise control to any motion component with the NEW SMSCS or SMMCS motor, driver and power supply package.

**SMSCS (Smart Motor Speed Control System)** includes a NEMA 23 stepper motor with integrated controller, a power supply and cabling. Compact in size the entire controller, its inputs and outputs mount right to the motor. The SMSCS is preprogrammed but it can not be controlled by a computer. A text program is stored within the controller and variables can be changed by the user. A disc and program is supplied. Mechanical or optical end point limit switches can be provided.

The motor is controlled or operated by hand with a joystick. Various motor configurations are available with single or double ended shafts in three different stack sizes. Encoders are optional.

**SMMCS (Smart Motor Motion Control System)** is programmable for computer control via an RS-232 interface. The SMMCS includes four I/O's for use with limit switches or to communicate with PLC's and one 10 bit analog input. The SMMCS has microstep resolution up to 51,200 steps/revolution. The entire controller, its inputs and outputs mount right to the motor. This motor can be actively controlled by a computer. A text program is stored within the controller and variables can be changed by the user. Disk program and cable are supplied.

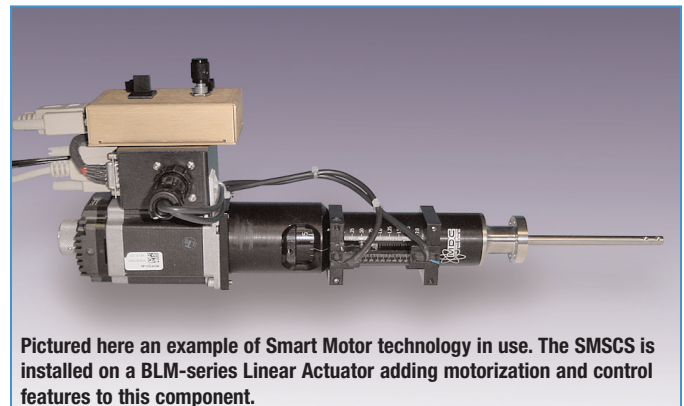
#### APPLICATIONS

Compact and cost effective **MDC Smart Motors** can be used for a wide variety of stepper motor applications. They can be coupled directly to MDC rotary and linear motion components, XYZ stages and magnetic transporters, as well as to any other manipulation drives that currently support a 23D frame size stepper motor.

Motor drives can be added to assist in performing repetitious motion and can also be used where applications demand precise reproducibility. Motors can perform continuous rotation or add stability to vertically mounted applications.

For additional details regarding MDC's new Smart Motor product line, please contact-

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Pictured here an example of Smart Motor technology in use. The SMSCS is installed on a BLM-series Linear Actuator adding motorization and control features to this component.