

MDrive[®] Linear Actuators

All-in-one linear motion systems

Delivering long life, high accuracy and unsurpassed repeatability,
all in a package that is extremely compact and affordable.



IMS
INTELLIGENT MOTION
SYSTEMS, INC.

Schneider
Electric



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White paper: reduce machine cost, size and time-to-market
www.imshome.com/mdrive

Integrated linear motion

MDrive Linear Actuators are compact, powerful, easy to use and low cost, and can reduce machine cost, size and time-to-market.

Extremely compact design

Motor, mechanicals and electronics form a single, compact unit that dramatically reduces the space requirements in linear motion applications.

Great versatility

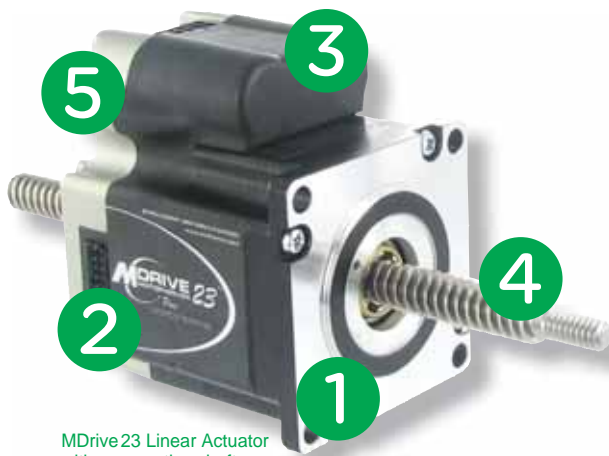
For a wide range of linear motion applications, three (3) frame sizes and two (2) control options — MDrivePlus or MDriveHybrid — provide a rich choice of features at low cost.

Unique to the market, a rugged internal encoder integrated with the screw is available.

Easy installation and setup

Minimized wiring and production time along with user-friendly software all contribute to the easy integration of MDrive products.

Available QuickStart Kits provide everything needed for initial setup and testing.

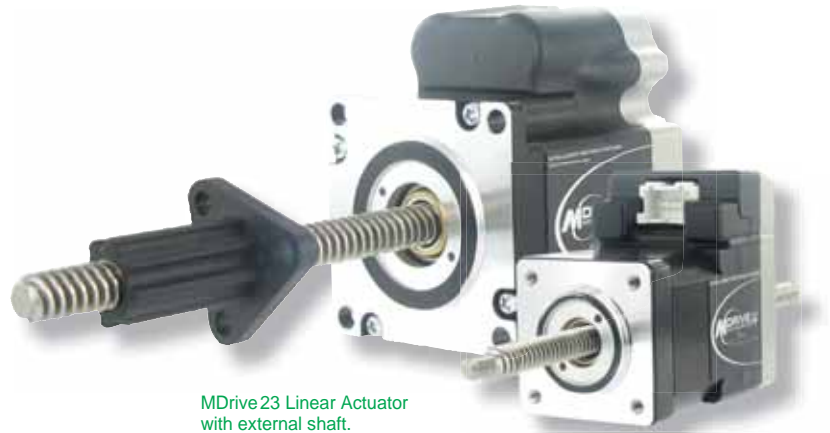


MDrive 23 Linear Actuator
with non-captive shaft.

- 1 Compact motor
- 2 Integrated driver
- 3 Fully programmable controller*
- 4 Stainless steel screw
- 5 Internal encoder optional
except Hybrid products which all include encoders

*Motion Control versions

The products



MDrive 23 Linear Actuator with external shaft.

MDrive 14 Linear Actuator with non-captive shaft.

Linear actuator motors without the integrated electronics of MDrive products are also available. Contact the factory for more information.

Linear actuator styles

MDrive Linear Actuators are available in two shaft styles:

- Non-captive shaft — a threaded shaft extends through the product and moves axially as the motor rotates.
- External shaft — a rotating screw, integral to the MDrive rotor, moves the nut axially along the threaded shaft. Choice of nut styles include: anti-backlash for higher precision, or general purpose for higher load limit.

Operating versions

Two control options are available for MDrive Linear Actuators:

- MDrivePlus — provides an all-in-one motor+mechanical+electronics solution that will satisfy a wide range of linear motion applications.
- MDriveHybrid — for more demanding applications, Hybrid Motion Technology™ adds benefits that include: preventing loss of synchronization (unintentional stalling), offering torque mode, saving energy and reducing heat through variable current control, allowing use of a motor's maximum torque.

Lead screws

MDrive Linear Actuator precision rolled lead screws are designed specifically to deliver maximum life and quiet operation in motion control applications. Corrosion resistant, non-magnetic screws are manufactured from premium grade stainless steel with an optional teflon coating, and are available with a choice of pitches, end finishes and lengths.

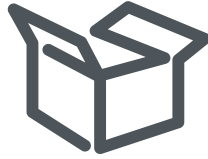


Hybrid Motion Technology not only bridges the gap between servo and step motor technologies, it also delivers unique capabilities and enhancements over both.

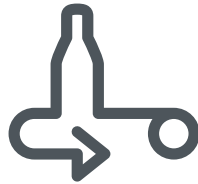
Specifications	Size 14	Size 17	Size 23
Length without screw	2.3" (58.4mm)	2.2" (55.9mm)	2.65" (67.3mm)
Screw lengths	3 to 18" (76 to 457mm)	3 to 18" (76 to 457mm)	3 to 24" (76 to 610mm)
Screw diameter	0.25" (6.35mm)	0.25" (6.35mm)	0.375" (9.525mm)
Nominal load limit	up to 50 lbs	up to 50 lbs	up to 200 lbs
Communications	SPI, RS-485, CANopen		

The applications

MDrive Linear Actuator motion systems offer clear advantages in a very cost effective package for a wide range of motion control applications such as:



Printing, paper,
packaging



Handling,
labeling



Electronics
manufacture



Medical
technology



Laboratory
equipment

USA SALES OFFICES

Eastern Region

Tel. 862 208-9742 - Fax 973 661-1275

e-mail: e.region@imshome.com

Northeast Region

Tel. 860 368-9703

e-mail: n.region@imshome.com

Central Region

Tel. 860 295-6102

e-mail: c.region@imshome.com

Western Region

Tel. 602 578-7201

e-mail: w.region@imshome.com

IMS EUROPEAN SALES MANAGEMENT

4 Quai Des Etroits

69005 Lyon, France

Tel. +33/4 7256 5113 - Fax +33/4 7838 1537

e-mail: europa.sales@imshome.com

TECHNICAL SUPPORT

Tel. +00 (1) 860 295-6102 - Fax +00 (1) 860 295-6107

e-mail: etech@imshome.com

Schneider Electric Motion USA

370 North Main Street, P.O. Box 457

Marlborough, CT 06447 - U.S.A.

Tel. +00 (1) 860 295-6102 - Fax +00 (1) 860 295-6107

e-mail: info@imshome.com

www.schneider-electric-motion.us