



## MicroDrive MD-L Series

Total Process Control

*Torque and Angle Control over the Total Screw Rundown*

### FEATURES

- **5% accuracy of indicated value**
- **Programmable torque, angle, direction, and RPM - over eight (8) steps per program**
- **16 Programs' storage**
- **10K data storage**
- **Lever, push-to-start, or remote start**
- **Screw counting**
- **Program sequencing**
- **Joint graphing**
- **PLC functionality**
- **20 I/O**

The MicroDrive MD-L Series consists of the G4 controller, MD-L torque controlled screwdriver, current version of Windows Paramizer software, appropriate cables and power supply. Torque, angle, direction, and RPM are fully configurable over a maximum of 8 steps per program.

The G4 control box consists of a matrix LCD, three-color LED and jog-dial user interface. The controller holds 16 programs, each with eight independent steps that are accessible via the LCD display, RS232-C, Windows Paramizer software, or a PLC. A USB port is used for full bandwidth torque measurement data transfer. Three RS232 ports allow for inputs from multiple transducers and simultaneous graphing (optional). The controller also has 10K of joint data storage. PLC functionality for feeder control, screw joint counting or program sequencing is also available.



The MD-L series screwdriver has an ergonomically designed electroplated aluminum ESD safe body, configurable built-in push-to-start compliant bit and lever start, reverse button, and internal rotary encoder mounted directly on the shaft. Torque is fully controlled by custom algorithms embedded in the G4 controller.



Accurate to 5% of the indicated value shown				
Model Number	Torque Range In/lbs	RPMs	Weight	Chuck
MD50-L	1.3 - 4.4	500 - 1000	1.8 Lbs	4mm 1/2 moon
MD80-L	2 - 7	500 - 1000	1.8 Lbs	4mm 1/2 moon
MD100-L	2.6 - 8.8	500 - 1200	1.8 Lbs	1/4: Hex
MD200-L	5.3 - 17.7	500 - 700	1.8 Lbs	1/4: Hex
MD200-LX	5.3 - 17.7	500 - 1200	2.2 Lbs	1/4: Hex
MD300-LX	8 - 26.5	500 - 1000	2.2 Lbs	1/4: Hex
MD400-LX	13.2 - 35.4	500 - 700	2.2 Lbs	1/4: Hex

Optional Torque-Test Pro software displays and overlays graphs and prints out reports with graphs and data tables via the USB data port.



1 Park Drive, Unit 9, Westford MA 01886 Phone: (978) 692-5166 Fax: (978) 692-3042 <a href="http://www.kolverUSA.com">www.kolverUSA.com</a>	WerastraBe 62 D-78056 Villingen-Schwenningen Germany
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# SPECIFICATIONS

Die Zeichnung ist unser Eigentum. Sie ist dem Empfänger nur zum persönlichen Gebrauch anvertraut und darf weder kopiert noch veröffentlicht oder offen zugänglich gemacht werden. Weder die Herstellung noch die Weitergabe ist ohne schriftliche Genehmigung gestattet.

quick chuck for 4mm halfmoon bit

A

27

12

49,62

41

26,6

12

Ø 9

Ø 27

Ø 20

231

35,5

26

16,5

0

Ø 16<sup>0</sup><sub>-0,02</sub>

M11,8x0,75

M 1:3

-0,2

-0,1

Frei abtoleranzen ISO 2768-1 H		Werkstoff:													
Oberflächen DIN ISO 1302															
Werkstückkanten DIN 6784		<b>MICRODRIVE MD 80</b>													
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Microtec Systems GmbH Werastr.62 78056 VS-Schwenningen															



- Matrix LCD and jog-dial for user dialogue
- 12 isolated PLC-inputs, 8 outputs, sink or source type (both without modification)
- Simple PLC functions can be included (e. g. for feeder control or screw joint counting)
- USB port for full bandwidth torque measurement data transfer
- 3 RS232-ports
- input for redundancy transducer (torque/angle)
- 10 k joint data can be stored in the controller
- screw tightening sequence over (max.) 8 independent steps
- Optical (3 color LED) and acoustic signal
- Remote programmable via RS232-C
- 16 program banks, accessible via PLC or RS232-C
- screwdriver serial number identification
- Ultra compact size

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