

## MINI MD-SERIES DC TORQUE CONTROL SYSTEM

- Single automation fastening system replaces up to 15 power tools. Program the digital torque and angle setting with up to 15 preset torque values and 2 multi-step sequence programs.
- Programmable fastening sequences and workflows. Easy to program and can remember up to 15 models with 20 steps.
- Color LCD touch-screen provides an intuitive interface - quickly program and select fastening parameters.
- Digital I/O allows interfacing with a machine & PLC interface for line control.
- Monitor fastening quality with the screw counting process. Count the number of screws delivered and detects cross-threading, omissions, and unfinished rundowns.
- Data collection—record and store torque and fastening data. SD Card data memory slot (memory card included)
- Free product (ParaMon) PC software — no annual licensing required — savings of \$2K.
- Gain visibility into the fastening process with torque data analysis. Real time torque data and curve display. Perform analytics with Standard Deviation, Mean, Average, CP, CPK.
- Suitable for micro-torque applications with models ranging from 1.4 - 97.3 ozf.in. (0.98 - 68.7 cN.m)
- ESD safe tool prevents electrostatic discharge.



### MDC-22 Mini Controller

Item # 310343

#### Specifications

- For electric screwdriver models: Mini MD-Series (2200 models)
- Front panel 5" Color LCD (800 x 480 )with touch-screen
- Power Input (Electric): DC24V 2.5A
- 8 Input & 8 Output flexible I/O (25P D-Sub)
- Communication Port 1 x RS232C, 1 x Ethernet
- Language: English, French, Spanish, Czech, German, Italian
- 8GB SD Card data memory slot (memory card included)
- SMPS Adapter (24VDC 1A, 100-277 VAC)
- Features a built-in stand, which can fold up snugly to the controller and mounted on the wall.



## IN-LINE MODELS



### Torque Ranges

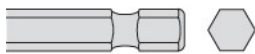
Models	Driver Type	Item #	ozf.in	cN.m	Adjustable RPM	Grip Dia	Drive Size	Weight oz.
MD2201-E	Lever Start	310360	1.4 - 9.8	0.98 - 6.9	50 - 2000	1 1/4"	4mm Dr.	7.4
MD2203-A	Lever Start	310361	5.5 - 27.8	3.9 - 19.6	50 - 1800	1 1/4"	1/4" F/Hex	7.8
MD2203-E	Lever Start	310362	5.5 - 27.8	3.9 - 19.6	50 - 1800	1 1/4"	4mm Dr.	7.8
MD2205-A	Lever Start	310363	6.9 - 38.9	4.9 - 27.5	50 - 1500	1 1/4"	1/4" F/Hex	8.1
MD2205-E	Lever Start	310364	6.9 - 38.9	4.9 - 27.5	50 - 1500	1 1/4"	4mm Dr.	8.1
MD2208-A	Lever Start	310365	12.5 - 62.5	8.8 - 44.1	50 - 950	1 1/4"	1/4" F/Hex	8.1
MD2208-E	Lever Start	310366	12.5 - 62.5	8.8 - 44.1	50 - 950	1 1/4"	4mm Dr.	8.1
MD2213-A	Lever Start	310367	20.8 - 97.3	14.7 - 68.7	50 - 750	1 1/4"	1/4" F/Hex	8.1

## ROBOTIC MODELS

### Torque Ranges

Models	Driver Type	Item #	ozf.in	cN.m	Adjustable RPM	Grip Dia	Drive Size	Weight oz.
MDA2201-E+C	Robotic	310368	1.4 - 9.8	0.98 - 6.9	50 - 2000	1 1/4"	4mm Dr.	7.4
MDA2203-A+C	Robotic	310369	5.5 - 27.8	3.9 - 19.6	50 - 1800	1 1/4"	1/4" F/Hex	7.8
MDA2203-E+C	Robotic	310372	5.5 - 27.8	3.9 - 19.6	50 - 1800	1 1/4"	4mm Dr.	7.8
MDA2205-A+C	Robotic	310414	6.9 - 38.9	4.9 - 27.5	50 - 1500	1 1/4"	1/4" F/Hex	8.1
MDA2205-E+C	Robotic	310373	6.9 - 38.9	4.9 - 27.5	50 - 1500	1 1/4"	4mm Dr.	8.1
MDA2208-A+C	Robotic	310415	12.5 - 62.5	8.8 - 44.1	50 - 950	1 1/4"	1/4" F/Hex	8.1
MDA2208-E+C	Robotic	310416	12.5 - 62.5	8.8 - 44.1	50 - 950	1 1/4"	4mm Dr.	8.1
MDA2213-A+C	Robotic	310417	20.8 - 97.3	14.7 - 68.7	50 - 750	1 1/4"	1/4" F/Hex	8.1

**Note:** The A+C and E+C models is equipped with a bit cushion, which reduces impact and vibration transmitted in the screw tightening process. Ideal for fastening delicate components such as disk drives, plastics, and electronics.



The models with 1/4" F/Hex drive size use 1/4 hex bits



The models with 4mm drive size support both 4mm d-cut and 4mm Hios bits

## Accessories

### Power Tool Cables

Each Mini MD-Series electric screwdriver is supplied with the standard 3-meter length cable. The driver cable connects the electric screwdriver to the MDC-22 mini controller.

3m length cable  
Item # 310358



### I/O Cables

I/O Cables for connecting the Mini Controller to the 44P I/O Wiring Box device or a bit socket tray.

[Learn More>](#)



### 44P I/O Wiring Box

It provides easy and convenient wiring for 12 inputs and outputs for the MDC-22 Mini controller .

Item # 310055

[Learn More>](#)



### Bit Socket Tray

An error-proofing solution minimizes the risk of errors by automatically selecting the correct torque according to the socket or bit selected. It connects to the MDC-22 mini controller. It will improve productivity and reduce operator errors. Saves downtime by automatically changing program settings for multiple fastening strategies.

[Learn More>](#)



### Position Control Torque Arms

Equipped with position encoders, the position control torque arm is an error-proofing system that detects and eliminates costly screw-fastening errors during the assembly process. The poka-yoke system reduces the risks of improperly fastening screws, ensuring that every screw is correctly tightened in the correct sequence.

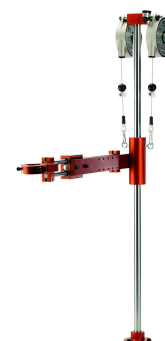
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### Torque Arms

Providing ergonomic solutions for your assembly line workers lessens fatigue, prevents injuries, and boosts productivity. Torque arm absorbs the torque reaction generated by a power tool. Mountz offers various arm configurations for flexible and mobile workstation designs. The ergonomic torque arms improve employee safety.

[Learn More>](#)



### Tool Balancers

Provides easy handling for operators that work with power tools for long, continuous hours. A balancer enables a tool to be positioned over the workstation and helps workers avoid fatigue which can lead to low productivity, mistakes, and injuries.

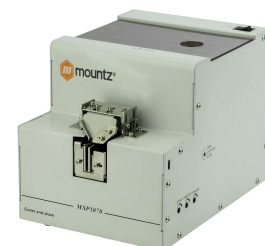
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### Screw Presenters

Implementing a screw presenter makes the manufacturing process more efficient by mechanically presenting a screw to a fixed pick-up point. Screw presenters are essential tools for any assembly process that requires large numbers of screws.

[Learn More>](#)



### Vacuum Adapter Kits

Vacuum adapter kits can be mounted on an electric screwdriver. The screwdriver is fitted with a suction head that holds the screw on the bit, enabling the operator to pick it up with the tool itself. This kit is a useful, time-saving device that works with most fasteners.

#### Item # 310357

Specification: For the 4mm Drive, M16

Screwdriver types: MD2205-E, MD2208-E and MDA2205-E+C

#### Item # 310356

Specification: For 4mm Drive, M18

Screwdriver types: MD2201-E, MD2203-E, MDA2201-E, MDA2201-E+C

MDA2203-E and MDA2203-E+C



**Note:** Mouthpiece and bit purchased separately.

### Tooling Package Includes

#### Mini MD In-Line Screwdriver

Power tool table (3 meter length)  
Tool hanger hook  
Tool calibration report

#### Mini MD Robotic Screwdriver

Power tool table (3 meter length)  
Mounting flange  
Tool calibration report

#### With MD-22 Mini controller

Quick Start Guide  
100-240V AC/DC Adapter

Product Dimensions

