



MITO Screwdrivers | Torque range 2.5 – 13.3 in-lb

MITO screwdrivers are the ideal solution for high-precision low torques. Their accurate and smooth torque control makes them perfect for the mobile, watchmaking and eyewear industry.

Precise low-torque screwdrivers

Kolver's experience with current-controlled technology has led to the creation of the MITO series; truly accurate current-controlled torque drivers designed for applications in which torques below 13.3 in-lb are required.

Long-lasting accuracy

MITO drivers feature an innovative electric motor coupled with planetary gearboxes, producing extremely low inertia and minimal friction for long life and very accurate torque production.

Compact ergonomic design

All MITO screwdrivers feature an ESD-safe housing, either in hand-held option or aluminium body for automation.

MITO drivers are available in pistol or inline style, catering to operator preference and comfort.

Foot pedals are available in cases where the operator would like the convenience of manual operation with the MITO/CA series.

Available Housings



INLINE (MITO..D) – Inline versions available in lever start, current-controlled style.



PISTOL GRIP – Trigger start, pistol grip available with top connector (MITO15P/U) or bottom connector (MITO15P).



ALUMINIUM BODY (MITO..CA) – For automation, they can also be used with foot pedals for manual operations. Also available with flange mount.





Inline MITO Screwdrivers

| Code | Model | Torque in-lb | RPM min-max | Dimensions in | Weight lb | Bit Drive |
|--------|---------|--------------|-------------|---------------|-----------|-----------|
| 170015 | MITO15D | 2.5 - 13.3 | 450 - 850 | 8.5 x 1.3 | 0.8 | Hex 1/4" |

Pistol grip MITO Screwdrivers

| Code | Model | Torque in-lb | RPM min-max | Dimensions in | Weight lb | Connector Option |
|----------|-----------|--------------|-------------|-----------------|-----------|------------------|
| 170014 | MITO15P | 2.5 - 13.3 | 450 - 850 | 7.6 x 6.3 x 1.8 | 1.1 | Bottom connector |
| 170014/U | MITO15P/U | 2.5 - 13.3 | 450 - 850 | 7.7 x 6.3 x 1.8 | 1.1 | Top connector |

Aluminium housing MITO Screwdrivers

| Code | Model | Torque in-lb | RPM min-max | Dimensions in | Weight lb | Bit Drive |
|--------------------------------|-------------|--------------|-------------|---------------|-----------|-----------|
| 170016 | MITO15CA | 2.5 - 13.3 | 450 - 850 | 7.6 x 1.3 | 0.8 | Hex 1/4" |
| Model with flange mount | | | | | | |
| 170016/FN | MITO15CA/FN | 2.5 - 13.3 | 450 - 850 | 10.7 x 1.3 | 2.9 | Hex 1/4" |

Control units for MITO Screwdrivers

| Code | Model | Single Program | Torque Value in in-lb | Serial Port | Multitorque (8 P-sets) | USB Port | PC Software | Weight lb | Dimensions in |
|--------------|--------------|----------------|-----------------------|-------------|------------------------|----------|-------------|-----------|-----------------|
| 032000 | EDU2AE | • | - | - | - | - | - | 5.3 | 7.7 x 6.7 x 4.3 |
| 032000/HPRO | EDU2AE/HPRO | • | • | • | - | - | - | 5.3 | 7.7 x 6.7 x 4.3 |
| 032000/TOP | EDU2AE/TOP | - | • | • | • | - | - | 5.5 | 7.5 x 8.1 x 4.7 |
| 032000/TOP/E | EDU2AE/TOP/E | - | • | • | • | • | • | 5.5 | 7.5 x 8.1 x 4.7 |

See page 18 for a complete list of features.

IMPORTANT: Continuous use over 80% of torque range is not recommended.



PLUTO Hand-held Screwdrivers | Torque range 4.4 – 620 in-lb

PLUTO® (PLUs TORque) are among the most advanced DC tools in the assembly market. Priced at the same level as obsolete air tools, PLUTO® screwdrivers are available in plenty of options to meet any assembly requirement.

Extremely versatile

PLUTO® Series screwdrivers feature a wide torque range: starting at 4.4 in-lb with PLUTO3, they reach up to 620 in-lb with PLUTO70ANG. Pick the one that best suits your application among the many current-controlled models.

Also, you can handle up to 8 different joints by connecting your PLUTO screwdriver to one of our EDU2AE/TOP multiprogram control units (see page 18).

Precise and accurate

High performances are guaranteed on any type of joint. PLUTO® current-controlled tools can reach 620 in-lb with a repeatability of +/-5% with a unique electronic torque control system.

Long-lasting quality

PLUTO® Screwdrivers feature an innovative coreless motor with low inertia and friction and absence of iron losses for extreme efficiency and extended life.

Planetary gearboxes are made of high-quality composite materials for excellent accuracy and repeatability throughout the wide 4.4 - 620 in-lb torque range.

Highest environmental protection requirements

- Low energy consumption
- No polluting emissions
- Low noise level
- Minimal vibrations
- ESD-safe

Available Housings



INLINE (PLUTO..D) – Inline versions available in lever start. Current-controlled style. Bit Drive: 1/4" hex quick change chuck. Available with reduced front ring upon request.



PISTOL GRIP – Trigger start, pistol grip available with top connector (PLUTO..P/U) or bottom connector (PLUTO..P). Current-controlled style. Bit Drive: 1/4" hex quick change chuck



ALUMINIUM BODY (PLUTO..CA/SR) – For 20+ in-lb torque models. Current-controlled style. With start and reverse buttons.



ANGLE MODELS (PLUTO..ANG) – Inline models with angle head attached. Current-controlled style.



ESD-safe housing



Inline PLUTO Screwdrivers

| Code | Model | Torque in-lb | RPM min-max | Dimensions in | Weight lb | Bit Drive |
|----------|------------|--------------|-------------|---------------|-----------|-----------|
| 130203 | PLUTO3D | 4.4 - 26.6 | 370 - 1300 | 8.9 x 1.6 | 1.1 | Hex 1/4" |
| 130206 | PLUTO6D | 7.5 - 53.1 | 200 - 850 | 8.9 x 1.6 | 1.1 | Hex 1/4" |
| 130211/N | PLUTO10D/N | 13.3 - 88.5 | 110 - 600 | 8.9 x 1.6 | 1.1 | Hex 1/4" |
| 130216/N | PLUTO15D/N | 17.7 - 133 | 60 - 320 | 8.9 x 1.6 | 1.3 | Hex 1/4" |

Pistol grip PLUTO Screwdrivers

| Code | Model | Torque in-lb | RPM min-max | Dimensions in | Weight lb | Connector Option |
|------------|--------------|--------------|-------------|-----------------|-----------|------------------|
| 130204 | PLUTO3P | 4.4 - 26.6 | 370 - 1300 | 6.3 x 6.9 x 1.8 | 1.1 | Bottom connector |
| 130205 | PLUTO3P/U | 4.4 - 26.6 | 370 - 1300 | 6.4 x 6.9 x 1.8 | 1.1 | Top connector |
| 130207 | PLUTO6P | 7.5 - 53.1 | 200 - 850 | 6.3 x 6.9 x 1.8 | 1.1 | Bottom connector |
| 130207/U | PLUTO6P/U | 7.5 - 53.1 | 200 - 850 | 6.4 x 6.9 x 1.8 | 1.1 | Top connector |
| 130210/N | PLUTO10P/N | 13.3 - 88.5 | 110 - 600 | 6.3 x 6.9 x 1.8 | 1.1 | Bottom connector |
| 130210/U/N | PLUTO10P/U/N | 13.3 - 88.5 | 110 - 600 | 6.4 x 6.9 x 1.8 | 1.1 | Top connector |
| 130215/N | PLUTO15P/N | 17.7 - 133 | 60 - 320 | 6.3 x 6.9 x 1.8 | 1.1 | Bottom connector |
| 130215/U/N | PLUTO15P/U/N | 17.7 - 133 | 60 - 320 | 6.4 x 6.9 x 1.8 | 1.1 | Top connector |

Aluminium body PLUTO Screwdrivers

| Code | Model | Torque in-lb | RPM min-max | Dimensions in | Weight lb | Bit Drive |
|-----------|--------------|--------------|-------------|---------------|-----------|-----------|
| 133221/SR | PLUTO20CA/SR | 26.6 - 177 | 50 - 200 | 9.1 x 2.1 | 2.4 | Sq 3/8" |
| 133236/SR | PLUTO35CA/SR | 26.6 - 310 | 40 - 140 | 9.7 x 2.2 | 3.3 | Sq 3/8" |
| 133250/SR | PLUTO50CA/SR | 44.3 - 443 | 20 - 90 | 9.9 x 2.2 | 3.3 | Sq 1/2" |

Angle head PLUTO Screwdrivers

| Code | Model | Torque in-lb | RPM min-max | Dimensions in | Bit Drive | Start Option |
|----------|------------|--------------|-------------|---------------|-----------|-----------------------|
| 130203/A | PLUTO3ANG | 4.4 - 22 | 370 - 1300 | 11.3 x 1.6 | Hex 1/4" | Lever start |
| 130206/A | PLUTO6ANG | 7.5 - 53 | 200 - 850 | 11.3 x 1.6 | Hex 1/4" | Lever start |
| 130208 | PLUTO8ANG | 13.3 - 70.8 | 110 - 600 | 11.3 x 1.6 | Hex 1/4" | Lever start |
| 130216/A | PLUTO15ANG | 17.7 - 115 | 100 - 320 | 11.9 x 1.6 | Sq 3/8" | Lever start |
| 133220 | PLUTO20ANG | 26.6 - 159 | 60 - 200 | 11.9 x 2.1 | Sq 3/8" | Start/Reverse Buttons |
| 133231 | PLUTO30ANG | 53 - 265 | 30 - 130 | 17.1 x 2.1 | Sq 3/8" | Start/Reverse Buttons |
| 133245 | PLUTO45ANG | 39 - 398 | 20 - 90 | 17.5 x 2.2 | Sq 1/2" | Start/Reverse Buttons |
| 133270 | PLUTO70ANG | 133 - 620 | 20 - 50 | 18 x 2.2 | Sq 1/2" | Start/Reverse Buttons |

Control units for PLUTO Screwdrivers

| Code | Model | Single Program | Torque Value in in-lb | Serial Port | Multitorque (8 P-sets) | USB Port | PC Software | Weight lb | Dimensions in |
|--------------|--------------|----------------|-----------------------|-------------|------------------------|----------|-------------|-----------|-----------------|
| 032000 | EDU2AE | • | - | - | - | - | - | 5.3 | 7.7 x 6.7 x 4.3 |
| 032000/HPRO | EDU2AE/HPRO | • | • | • | - | - | - | 5.3 | 7.7 x 6.7 x 4.3 |
| 032000/TOP | EDU2AE/TOP | - | • | • | • | - | - | 5.5 | 7.5 x 8.1 x 4.7 |
| 032000/TOP/E | EDU2AE/TOP/E | - | • | • | • | • | • | 5.5 | 7.5 x 8.1 x 4.7 |

See page 18 for a complete list of features.

IMPORTANT: Continuous use over 80% of torque range is not recommended.



EDU2AE Control Units | For PLUTO and MITO Screwdrivers

EDU2AE control units are meant to be used in combination with Kolver current controlled MITO and PLUTO and/or clutch PLUTO screwdrivers. EDU2AE series switching controllers act as an AC to DC transformer and torque controller. The electronic control circuit cuts the power supply to the motor as soon as the pre-set torque has been reached.

Universal usage

All units are equipped with a high power switching transformer with 90-260 V AC power supply for universal usage. EDU2AE control units are multilanguage: you can choose among English, Italian, German, French, Portuguese or Spanish.

Single & Multi-Torque

Choose the control unit that best suits your requirements among our single-torque controllers or multi-torque. Multi-torque control units are designed to expand the functionality of PLUTO screwdrivers by enabling multiple torque settings (up to 8) using one controller and one driver.

Extremely accurate

Thanks to the latest state-of-the-art advanced software for torque controlling it is now possible to reach the most accurate results with CM / CMK values higher than ever. The combination of the software and switching transformer allows the MITO & PLUTO screwdrivers to reach a +/- 5% precision all over the torque range.

Better endurance

All units comply to norms 61000-6-2 and 61000-6-3, and therefore have better endurance in environments with high noise and interference levels. Improved EMC features are guaranteed thanks to their solid steel base and back panel.

Connectivity and Industry 4.0

All functions can be set and controlled via user interface screens or remotely via 15 input and 11 output connectors. A wide range of accessories for remote programming and PC interface is available for the complete EDU2AE series (see page 51). EDU2AE/TOPI/E and EDU2AE/TOPI/TA come standard with the EXPAND software package to set, change and save all parameters via USB key & PC.

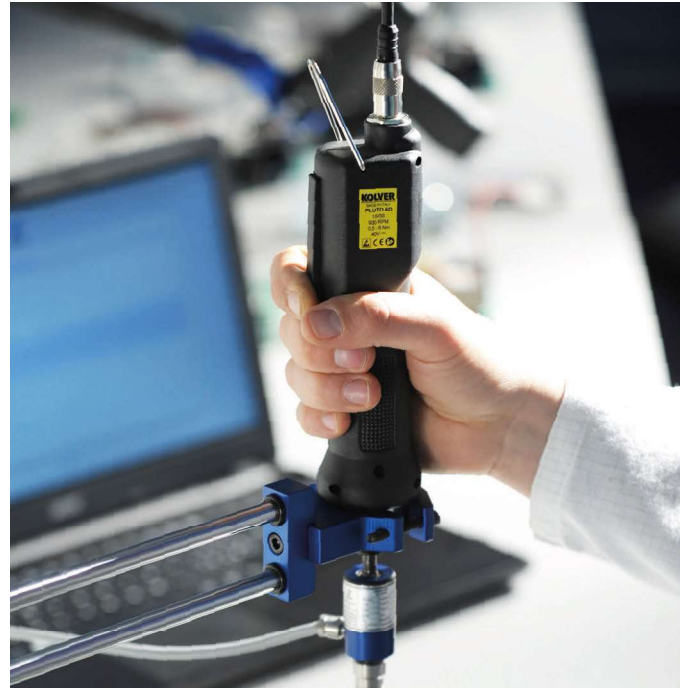
EDU2AE & Screwdriver Series Combination

| Control units | Screwdriver models | |
|--|--|--|
| | Hand-held | Automation |
| EDU2AE EDU2AE/HPRO EDU2AE/TOP EDU2AE/TOPI/E | MITO D MITO P PLUTO D, D/N PLUTO P, P/N PLUTO P/U, P/U/N PLUTO CA/SR PLUTO ANG PLUTO ANG/SR | MITO CA MITO CA/FN PLUTO CA PLUTO CA/FN PLUTO CA/FN2 |
| EDU2AE/TOPI/TA | MITO D/TA PLUTO D/TA PLUTO D/TA/LED PLUTO P/TA PLUTO CA/SR/TA | MITO CA/TA PLUTO CA/TA PLUTO CA/FN/TA PLUTO CA/FN2/TA |



Control Units for PLUTO & MITO Screwdrivers / **EDU2AE Series**

| Features | EDU2AE | EDU2AE/FR | EDU2AE/HPRO | EDU2AE/TOP | EDU2AE/TOP/E | EDU2AE/TOP/TA |
|--|--------|-----------|-------------|------------|--------------|---------------|
| Switching power supply | • | • | • | • | • | • |
| Settable Torque percentage | • | | • | • | • | • |
| Ramp and Speed settings | • | • | • | • | • | • |
| Speed 1 and Speed 2 settings | • | | • | • | • | • |
| Min/max or infinite time settings | • | • | • | • | • | • |
| Auto reverse | • | • | • | • | • | • |
| Pre Reverse | | | • | • | • | • |
| Settable loosening speed | • | | • | • | • | • |
| Settable loosening torque | • | | • | • | • | • |
| Run time | • | • | • | • | • | • |
| Prevailing torque | | | • | • | • | • |
| Clockwise/anticlockwise tightening | | | • | • | • | • |
| Password protected | | • | • | • | • | • |
| Calibration | | | • | • | • | • |
| in-lb - lb/in - Kgf.cm selection | | | • | • | • | • |
| Settable Min/max torque | | | • | • | • | • |
| Screw count and end cycle signal | • | • | • | • | • | • |
| Screw reset | | | | • | • | • |
| Program reset | | • | • | • | • | • |
| Sequence reset | | | • | • | • | • |
| Multitorque | | | | • | • | • |
| Lever error | | | • | • | • | • |
| Enable/Disable loosening | | | • | • | • | • |
| Barcode | | | • | • | • | • |
| Serial print | | • | • | • | • | • |
| Error, motor on and correct screw signals | • | • | • | • | • | • |
| Optional screwdriver connector on back panel | | • | • | | | |
| Multilanguage | • | • | • | • | • | • |
| Use with DOCK04 double output connector | | | | • | • | • |
| Use with PRNTR1 serial printer | | • | • | • | • | • |
| Printing options for each program | | | | • | • | • |
| Use with TLS1 | • | • | • | • | • | • |
| >> w/ automatic program switch | | | | • | • | • |
| PC programming (EDU EXPAND software) | | | | | • | • |
| USB flash drive & port | | | | | • | • |



PLUTO Clutch Screwdrivers | Torque range 4.4 – 62 in-lb

PLUTO® (PLUs TORque) clutch screwdrivers combine the versatility of PLUTO tools with the precision of clutch screwdrivers.

Precise and accurate

High performances are guaranteed on any type of joint. PLUTO® clutch models ensure an excellent accuracy on the whole torque range.

Long-lasting quality

PLUTO® Screwdrivers feature an innovative coreless motor with low inertia and friction and absence of iron losses for extreme efficiency and extended life. Planetary gearboxes and clutches are made of high-quality composite materials for excellent accuracy and repeatability throughout the whole torque range.

Hand-held and fixture mount models

PLUTO FR are available in inline or pistol grip ESD-safe housing. Angle attachments for hand-held tools are also available. PLUTO FR/CA are supplied in an aluminium body for a quick and easy integration with automatic machines and screwfeeding systems. PLUTO tools in CA/FN version are equipped with a flange mount and reciprocating spindle for high volume/high duty applications.

Specific control unit

Any PLUTO FR operates with a specific control unit, model EDU2AE/FR. It is designed to best run PLUTO FR screwdrivers, with the addition of some high-end features such as password protection and serial print.

Highest environmental protection requirements

- Low energy consumption
- No polluting emissions
- Low noise level
- Minimal vibrations
- ESD-safe

Available Housings



INLINE (PLUTO..FR) – Inline versions available in lever start. Clutch style.
Bit Drive: 1/4" hex quick change chuck



PISTOL GRIP – Trigger start, pistol grip available with top connector (PLUTO FR/P/U) or bottom connector (PLUTO FR/P). Clutch style.
Bit Drive: 1/4" hex quick change chuck



ANGLE MODELS (PLUTO FR/ANG) – Inline models with angle head attached. Clutch style.



ALUMINIUM BODY (PLUTO FR/CA and PLUTO FR/CA/FN) – Specifically designed for automation. Easy to install on any machine or robot. Flange and telescopic spindle for automated high volume/high duty applications available together or separately.



ESD-safe housing



Inline PLUTO Clutch Screwdrivers

| Code | Model | Torque in-lb | RPM min-max | Dimensions in | Weight lb | Output |
|-----------|-------------|--------------|-------------|---------------|-----------|----------|
| 131203/HS | PLUTO3FR/HS | 4.4 - 25 | 1550 - 2400 | 10.2 x 1.6 | 1.1 | Hex 1/4" |
| 131205 | PLUTO5FR | 8.9 - 44 | 600 - 1000 | 10.8 x 1.6 | 1.1 | Hex 1/4" |
| 131207 | PLUTO7FR | 13.3 - 62 | 350 - 600 | 10.8 x 1.6 | 1.1 | Hex 1/4" |

Pistol grip PLUTO Clutch Screwdrivers

| Code | Model | Torque in-lb | RPM min-max | Dimensions in | Weight lb | Connector Option |
|-------------|-----------------|--------------|-------------|-----------------|-----------|------------------|
| 131204/HS | PLUTO3FR/P/HS | 4.4 - 25 | 1550 - 2400 | 6.2 x 8.8 x 1.8 | 1.1 | Bottom connector |
| 131204/U/HS | PLUTO3FR/P/U/HS | 4.4 - 25 | 1550 - 2400 | 6.4 x 9.1 x 1.8 | 1.1 | Top connector |
| 131206 | PLUTO5FR/P | 8.9 - 44 | 600 - 1000 | 6.2 x 8.8 x 1.8 | 1.1 | Bottom connector |
| 131206/U | PLUTO5FR/P/U | 8.9 - 44 | 600 - 1000 | 6.4 x 9.1 x 1.8 | 1.1 | Top connector |
| 131208 | PLUTO7FR/P | 13.3 - 62 | 350 - 600 | 6.2 x 8.8 x 1.8 | 1.1 | Bottom connector |
| 131208/U | PLUTO7FR/P/U | 13.3 - 62 | 350 - 600 | 6.4 x 9.1 x 1.8 | 1.1 | Top connector |

Angle head PLUTO Clutch Screwdrivers

| Code | Model | Torque in-lb | RPM min-max | Dimensions in | Output | Start Option |
|----------|--------------|--------------|-------------|---------------|----------|--------------|
| 131205/A | PLUTO5FR/ANG | 8.9 - 44 | 600 - 1000 | 13.2 x 1.6 | Hex 1/4" | Lever start |
| 131207/A | PLUTO7FR/ANG | 13.3 - 62 | 350 - 600 | 13.2 x 1.6 | Hex 1/4" | Lever start |

Aluminium housing PLUTO Clutch Screwdrivers

| Code | Model | Torque in-lb | RPM min-max | Dimensions in | Weight lb | Output |
|-----------|----------------|--------------|-------------|---------------|-----------|----------|
| 133203/HS | PLUTO3FR/CA/HS | 4.4 - 25 | 1550 - 2400 | 9.9 x 1.6 | 1.6 | Hex 1/4" |
| 133205 | PLUTO5FR/CA | 8.9 - 44 | 600 - 1000 | 9.9 x 1.6 | 1.6 | Hex 1/4" |
| 133207 | PLUTO7FR/CA | 13.3 - 62 | 350 - 600 | 9.9 x 1.6 | 1.6 | Hex 1/4" |

Aluminium housing PLUTO Clutch Screwdrivers with Flange Mount

| Code | Model | Torque in-lb | RPM min-max | Dimensions in | Weight lb | Output |
|-----------|----------------|--------------|-------------|---------------|-----------|----------|
| 133205/FN | PLUTO5FR/CA/FN | 8.9 - 44 | 600 - 1000 | 12.9 x 1.6 | 1.7 | Hex 1/4" |
| 133207/FN | PLUTO7FR/CA/FN | 13.3 - 62 | 350 - 600 | 12.9 x 1.6 | 1.7 | Hex 1/4" |

IMPORTANT: Continuous use over 80% of torque range is not recommended.

PLUTO Screwdrivers work in combination with EDU2AE/FR controllers. See page 18 for further information.