



## PLUTO, MITO and NATO | Torque range 0.18 – 620 lbf-in

Our PLUTO, MITO and NATO screwdrivers offer high-precision at a competitive price.

Pick the one that best suits your application among the many current-controlled models ranging in torque from 0.18 lbf-in all the way up to 620 lbf-in.

### Extremely versatile

Our PLUTO Series screwdrivers feature a wide torque range: starting at 4.4 lbf-in with PLUTO3, they reach up to 620 lbf-in with PLUTO70ANG. Also, you can handle up to 8 different joints by connecting your PLUTO screwdriver to one of our EDU2AE/TOP multiprogram control units.

### Precise low-torque screwdrivers

The NATO and MITO series are the ideal solution for high-precision low torques below 13 lbf-in. MITO tools operate within a torque range of 3.5 – 13 lbf-in, while NATO screwdrivers are designed for an even lower torque range of 0.2 – 6.2 lbf-in.

### Long-lasting accuracy

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

### Torque/Angle Control

The main parameters to be controlled are the tightening torque and the rotation angle of the screw, either with torque or angle priority. The screwdriver stops automatically when the pre-set angle and torque value have been reached and an indication of OK cycle (green led turned on) is given, otherwise a red led turns on if the tightened screw doesn't match the pre-set parameters. The final torque and angle values are also displayed.

### Compact ergonomic design

All PLUTO, MITO and NATO screwdrivers feature an ESD-safe housing, either in hand-held option or aluminium body for automation. PLUTO and MITO drivers are available in pistol or inline style, catering to operator preference and comfort. NATO drivers are inline style, with a lever start actuation. Foot pedals are available in cases where the operator would like the convenience of manual operation with the NATO CA series.

### Available Housings



INLINE (PLUTO D, MITO D and NATO D) – Inline versions available in lever start, current-controlled style. PLUTO D available with reduced front ring upon request.



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





## Inline Screwdrivers

Code	Model	Torque lbf-in	RPM min-max	Dimensions in	Weight lb	Bit Drive
170015	MITO15D	3.5 - 13.3	450 - 850	8.5 x 1.3	0.8	Hex 1/4"
130203	PLUTO3D	4.4 - 22.1	370 - 1300	8.9 x 1.6	1.1	Hex 1/4"
130206	PLUTO6D	8.8 - 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"
130220S	PLUTO20D/S	26.6 - 177	50 - 200	8.9 x 1.6	1.3	Hex 1/4"
133222	PLUTO20D	26.6 - 177	50 - 200	10.9 x 1.9	2.4	Sq 3/8"
133235	PLUTO35D	26.6 - 310	40 - 140	11.4 x 2.2	3.3	Sq 3/8"
133251	PLUTO50D	44.3 - 443	20 - 90	14.3 x 2.2	5.5	Sq 1/2"

## Pistol grip Screwdrivers

Code	Model	Torque lbf-in	RPM min-max	Dimensions in	Weight lb	Connector Option
170014	MITO15P	3.5 - 13.3	450 - 850	7.6 x 6.3 x 1.8	1.1	Bottom connector
170014/U	MITO15P/U	3.5 - 13.3	450 - 850	7.7 x 6.3 x 1.8	1.1	Top connector
130204	PLUTO3P	4.4 - 22.1	370 - 1300	6.3 x 6.9 x 1.8	1.1	Bottom connector
130205	PLUTO3P/U	4.4 - 22.1	370 - 1300	6.4 x 6.9 x 1.8	1.1	Top connector
130207	PLUTO6P	8.8 - 53.1	200 - 850	6.3 x 6.9 x 1.8	1.1	Bottom connector
130207/U	PLUTO6P/U	8.8 - 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 Screwdrivers

Code	Model	Torque lbf-in	RPM min-max	Dimensions in	Weight lb	Bit Drive
170016	MITO15CA	3.5 - 13.3	450 - 850	7.6 x 1.3	0.8	Hex 1/4"
170016/FN	MITO15CA/FN	3.5 - 13.3	450 - 850	10.7 x 1.3	2.9	Hex 1/4"

## Angle head PLUTO Screwdrivers

Code	Model	Torque lbf-in	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
133222/ANG	PLUTO20D/ANG	26.6 - 159	60 - 200	16.4 x 2	Sq 3/8"	Start/Reverse Buttons
133232	PLUTO30D/ANG	53 - 265	30 - 130	16.5 x 2	Sq 3/8"	Start/Reverse Buttons
133246	PLUTO45D/ANG	39 - 398	20 - 90	17 x 2.2	Sq 1/2"	Start/Reverse Buttons
133271	PLUTO70D/ANG	133 - 620	20 - 50	17.3 x 2.2	Sq 1/2"	Start/Reverse Buttons

## Control units

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

See page 25 for a complete list of features.

2D and 3D drawings available on [kolver.com](http://kolver.com)

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



## Inline TA Screwdrivers

Code	Model	Torque lbf-in	RPM min-max	Dimensions in	Weight lb	Bit Drive
160015/TA	NATO15D/TA	0.18 - 2.4	100 - 700	8.3 x 1.3	0.5	Half moon 0.16 in
160050/TA	NATO50D/TA	0.4 - 6.2	50 - 700	8.3 x 1.3	0.5	Hex 1/4"
170015/TA	MITO15D/TA	3.5 - 13.3	450 - 850	8.5 x 1.3	0.8	Hex 1/4"
134203/TA	PLUTO3D/TA	4.4 - 22.1	370 - 1300	8.9 x 1.6	1.1	Hex 1/4"
134206/TA	PLUTO6D/TA	8.8 - 53.1	200 - 850	8.9 x 1.6	1.1	Hex 1/4"
134211/TA	PLUTO10D/TA	13.3 - 88.5	110 - 600	8.9 x 1.6	1.1	Hex 1/4"
134216/TA	PLUTO15D/TA	17.7 - 133	60 - 320	8.9 x 1.6	1.1	Hex 1/4"
133222/TA	PLUTO20D/TA	26.6 - 177	50 - 200	10.9 x 1.9	2.4	Sq 3/8"
133235/TA	PLUTO35D/TA	26.6 - 310	40 - 140	11.4 x 2.2	3.3	Sq 3/8"
133251/TA	PLUTO50D/TA	44.3 - 443	20 - 90	14.3 x 2.2	5.5	Sq 1/2"
<b>Models with LED light ring</b>						
134203/TA/LED	PLUTO3D/TA/LED	4.4 - 22.1	370 - 1300	8.9 x 1.6	1.1	Hex 1/4"
134206/TA/LED	PLUTO6D/TA/LED	8.8 - 53.1	200 - 850	8.9 x 1.6	1.1	Hex 1/4"
134211/TA/LED	PLUTO10D/TA/LED	13.3 - 88.5	110 - 600	8.9 x 1.6	1.1	Hex 1/4"
134216/TA/LED	PLUTO15D/TA/LED	17.7 - 133	60 - 320	8.9 x 1.6	1.1	Hex 1/4"

## Pistol grip TA Screwdrivers

Code	Model	Torque lbf-in	RPM min-max	Dimensions in	Weight lb	Connector Option
130204/TA	PLUTO3P/TA	4.4 - 22.1	370 - 1300	6.3 x 6.9 x 1.8	1.1	Bottom connector
130205/TA	PLUTO3PU/TA	4.4 - 22.1	370 - 1300	6.4 x 6.9 x 1.8	1.1	Top connector
130207/TA	PLUTO6P/TA	8.8 - 53.1	200 - 850	6.3 x 6.9 x 1.8	1.1	Bottom connector
130207/U/TA	PLUTO6PU/TA	8.8 - 53.1	200 - 850	6.4 x 6.9 x 1.8	1.1	Top connector
130210/TA	PLUTO10P/TA	13.3 - 88.5	110 - 600	6.3 x 6.9 x 1.8	1.1	Bottom connector
130210/U/TA	PLUTO10PU/TA	13.3 - 88.5	110 - 600	6.4 x 6.9 x 1.8	1.1	Top connector
130215/TA	PLUTO15P/TA	17.7 - 133	60 - 320	6.3 x 6.9 x 1.8	1.3	Bottom connector
130215/U/TA	PLUTO15PU/TA	17.7 - 133	60 - 320	6.4 x 6.9 x 1.8	1.3	Top connector

## Aluminium body TA Screwdrivers

Code	Model	Torque lbf-in	RPM min-max	Dimensions in	Weight lb	Bit Drive
163015/TA	NATO15CA/TA	0.18 - 2.4	100 - 700	5.9 x 2.2	0.4	Half moon 0.16 in
163050/TA	NATO50CA/TA	0.4 - 6.2	50 - 700	5.9 x 2.2	0.4	Hex 1/4"

## Angle head TA Screwdrivers

Code	Model	Torque lbf-in	RPM min-max	Dimensions in	Bit Drive	Start Option
134203/A/TA	PLUTO3ANG/TA	4.4 - 22	370 - 1300	11.9 x 1.6	Hex 1/4"	Lever start
134206/A/TA	PLUTO6ANG/TA	7.5 - 53	200 - 850	11.9 x 1.6	Hex 1/4"	Lever start
134208/TA	PLUTO8ANG/TA	13.3 - 70.8	110 - 600	11.9 x 1.6	Hex 1/4"	Lever start
134216/A/TA	PLUTO15ANG/TA	17.7 - 115	100 - 320	11.9 x 1.6	Sq 3/8"	Lever start
133222/TA/ANG	PLUTO20D/ANG/TA	26.6 - 159	60 - 200	16.4 x 2	Sq 3/8"	Start/Reverse Buttons
133232/TA	PLUTO30D/ANG/TA	53 - 265	30 - 130	16.5 x 2	Sq 3/8"	Start/Reverse Buttons
133246/TA	PLUTO45D/ANG/TA	39 - 398	20 - 90	17 x 2.2	Sq 1/2"	Start/Reverse Buttons
133271/TA	PLUTO70D/ANG/TA	133 - 620	20 - 50	17.3 x 2.2	Sq 1/2"	Start/Reverse Buttons

## Control units for TA Screwdrivers

Code	Model	NATO TA Series	PLUTO, MITO TA Series	Serial Port	Multitorque (8 P-sets)	Computer Interface	Torque & Angle	Weight lb	Dimensions in
034000/HPRO/TA	EDU2AE/HPRO/TA	-	•	•			•	5.28	7.7 x 6.7 x 4.3
031000/TOP/NT/TA	EDU2AE/TOP/NT/TA	•	-	•	•	•	•	4.4	7.5 x 8.1 x 4.7
034000/TOP/TA	EDU2AE/TOP/TA	-	•	•	•	•	•	5.1	7.5 x 8.1 x 4.7

See page 25 for a complete list of features.

2D and 3D drawings available on [kolver.com](http://kolver.com)

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



## EDU2AE Control Units | For PLUTO, MITO and NATO Screwdrivers

EDU2AE control units are meant to be used in combination with Kolver® current controlled PLUTO, MITO and NATO 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 current-controlled 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 these 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 49). EDU2AE/TOP/E, EDU2AE/TOP/TA and EDU2AE/TOP/NT/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	
<b>EDU2AE/HPRO</b> <b>EDU2AE/TOPE</b>	Hand-held	Automation
	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
<b>EDU2AE/TOP/TA</b> <b>EDU2AE/HPRO/TA</b>	Hand-held	Automation
	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
<b>EDU2AE/TOP/NT/TA</b>	Hand-held	Automation
	NATO D/TA	NATO CA/TA



# Control Units for PLUTO, MITO & NATO Screwdrivers / **EDU2AE Series**

Features	EDU2AE/HPRO	EDU2AE/TOPE	EDU2AE/HPRO/TA	EDU2AE/TOP/TA	EDU2AE/TOP/NT/TA
Torque & Angle			•	•	•
Multiple Programs and Sequences		•		•	•
Time, Ramp & Speed settings	•	•	•	•	•
Settable loosening speed & torque	•	•	•	•	•
Prevailing torque	•	•	•	•	•
Clockwise/anticlockwise tightening	•	•	•	•	•
Password protection	•	•	•	•	•
Calibration	•	•	•	•	•
Nm - lb/in - Kgf.cm selection	•	•	•	•	•
Screw count	•	•	•	•	•
Auto and pre reverse	•	•	•	•	•
End cycle signal	•	•	•	•	•
Screw, Program & Sequence reset		•		•	•
Lever error	•	•	•	•	•
Enable/Disable loosening		•		•	•
Barcode	•	•	•	•	•
Serial print	•	•	•	•	•
Error, motor on and correct screw signals	•	•	•	•	•
Optional back driver connector	•		•		
Use with DOCK04 double connector		•		•	•
Use with PRNTR1 serial printer	•	•	•	•	•
Printing options for each program		•		•	•
Use with TLS1	•	•	•	•	•
PC programming (EDU EXPAND)		•		•	•
USB data collection		•		•	•