



# KOLVER

## PLUTO CURRENT CONTROL SCREWDRIVERS TORQUE UP TO 35 NM



Kolver's ingenuity and experience have led to the development of Pluto (PLUs TORque) screwdrivers, the most advanced DC tools in the market, able to reach 35 Nm of torque (4 times more than any competitor's tool). They feature:

- an innovative coreless electric motor with low inertia and friction with absence of iron losses for extreme efficiency and extended life. Planetary gearboxes with high quality composite materials.
- Pistol grip to fit operator's hand ergonomically.

A weight of 550 g to reduce operator's fatigue. Fully electronic torque control system, manually set by a dial on the controller, to shut the tool off automatically once the preset torque has been reached. The Pluto Series is ideal for high volume applications where millions of cycles at high torque are required.

The Pluto Series is available in a molded pistol grip with the cord set exiting from the top (U option) or bottom, in a standard inline housing with lever start or 90° with angle head. ESD-safe housing is standard.

All Pluto series electric screwdrivers come standard with suspension bail and 2.5 m connection cable. Spiral cable available on request.

The new heavy duty cables and connectors, developed for robotic applications, are made of antistatic dissipative material for a safe use in EPA environment.

Also available Torque & Angle models, see T&A for details.

Pluto drivers are the real alternative to the pneumatic screwdriver.



EDU2AE/HP



PISTOL MODEL WITH TOP CONNECTOR (P/U)



INLINE MODEL



HIGH PERFORMANCE CORELESS MOTOR

Code	Model	Torque Nm SOFT	Torque Nm HARD	RPM min	RPM max	Dimensions mm L x Ø x h	Housing option	Weight kg	Drive
170015	MITO15	0,2-1,5	0,2-1,5	450	850	226x36	-	0,5	Hex 1/4"
130203	PLUTO3D	0,3-2,0	0,3-3,0	370	1200	216x40	Inline	0,55	Hex 1/4"
130204	PLUTO3P	0,3-2,0	0,3-3,0	370	1200	150x150x45	Pistol	0,55	Hex 1/4"
130206	PLUTO6D	0,5-6,0	0,5-8,0	200	920	216x40	Inline	0,55	Hex 1/4"
130207	PLUTO6P	0,5-6,0	0,5-8,0	200	920	150x150x45	Pistol	0,55	Hex 1/4"
130207/U	PLUTO6P/U	0,5-6,0	0,5-8,0	200	920	150x150x45	Pistol grip with top connector	0,55	Hex 1/4"
130211/N	PLUTO10D/N	2,0-8,0	1,5-10,0	110	600	216x40	Inline	0,55	Hex 1/4"
130210/N	PLUTO10P/N	2,0-8,0	1,5-10,0	110	600	150x150x45	Pistol	0,55	Hex 1/4"
130210/U/N	PLUTO10P/U/N	2,0-8,0	1,5-10,0	110	600	150x150x45	Pistol grip with top connector	0,55	Hex 1/4"
130216/N	PLUTO15D/N	2,0-15,0	2,0-15,0	60	320	216x40	Inline	0,60	Hex 1/4"
130215/N	PLUTO15P/N	2,0-15,0	2,0-15,0	60	320	150x150x45	Pistol	0,60	Hex 1/4"
130215/U/N	PLUTO15P/U/N	2,0-15,0	2,0-15,0	60	320	150x150x45	Pistol grip with top connector	0,60	Hex 1/4"
133221/SR	PLUTO20CA/SR	2,0-18,0	2,0-20,0	40	210	200x45,5	Aluminium body Button start	1,10	Sq. 3/8"
133236/SR	PLUTO35CA/SR	2,0-35,0	2,0-35,0	40	140	206,5x57	Aluminium body Button start	1,50	Sq. 3/8"
133250/SR	PLUTO50CA/SR	5,0-50,0	5,0-50,0	20	90	206,5x57	Aluminium body Button start	1,50	Sq 1/2

**Notes:**

- All PLUTO screwdrivers work in combination with EDU2AE, EDU2AE/HP and/or EDU2AE/TOP control unit.
- Torque value collected on joints as per ISO5393.
- Noise < 60 dB(A) in all models.
- Vibrations < 2,5m/s<sup>2</sup> in all models.
- Continuous use over 80% of torque range is not recommended.

PLUTO SERIES



## PLUTO CLUTCH SERIES

TORQUE RANGE 0,5 - 7,0 NM

PLUTO clutch screwdrivers are innovative state-of-the-art screwdrivers. High-efficiency and low inertia CORELESS motors allow high performances on any kind of joint. The new clutch for the regulation of the tightening torque guarantees an excellent accuracy, i.e. 3% on the whole torque range, which means our PLUTOs feature the best CP and CM in the market.

PLUTO screwdrivers fulfill the highest environmental protection requirements: minimal vibrations, maximum safety, low noise level, electromagnetic compatibility, no polluting emissions, low energy consumption.

They all come standard with ESD-safe body. The range features three inline and three pistol models for manual use, plus their corresponding models for automated applications (see dedicated page).

They work with EDU2AE, EDU2AE/HP and/or EDU2AE/TOP control units.

Codice	Model	Torque Nm	Speed RPM	Output	Dimensions mm	Control unit
131203	PLUTO3FR	0,5 - 3,2	800 - 1300	Hex 1/4"	273x40	EDU2AE, HP & TOP
131204	PLUTO3FR/P	0,5 - 3,2	800 - 1300	Hex 1/4"	200x150x40	EDU2AE, HP & TOP
131205	PLUTO5FR	0,7 - 5,0	600 - 1000	Hex 1/4"	273x40	EDU2AE, HP & TOP
131206	PLUTO5FR/P	0,7 - 5,0	600 - 1000	Hex 1/4"	200x150x40	EDU2AE, HP & TOP
131207	PLUTO7FR	1,0 - 7,0	350 - 600	Hex 1/4"	273x40	EDU2AE, HP & TOP
131208	PLUTO7FR/P	1,0 - 7,0	350 - 600	Hex 1/4"	200x150x40	EDU2AE, HP & TOP



## PLUTO ANGLE SCREWDRIVERS

TORQUE RANGE 1,0 - 19,0 NM

The PLUTO angle nutrunners are ideal for demanding applications where accessibility is a critical factor. Fully electronic torque control system to shut the tool off automatically once the preset torque has been reached. Hex 1/4" The light weight, very low noise level and the wide range of torque make it a true alternative to pneumatic systems.

Angle screwdrivers, aluminium body, with max torque 30 Nm available on request

Code	Model	Torque range Nm SOFT	Torque range Nm HARD	RPM Min	RPM Max	Housing	Output	Control unit
130208	PLUTO08ANG	1,0-6,5	1,0-8,0	110	600	Inline ESD	Hex 1/4"	EDU2AE, HP & TOP
130216/A	PLUTO15ANG	2-13,0	2,0-13,0	100	320	Inline ESD	Sq 3/8"	EDU2AE, HP & TOP
133220	PLUTO20ANG/SR	2,0-17,0	2,0-19,0	60	210	Aluminium body with Start/Reverse buttons	Sq 3/8"	EDU2AE, HP & TOP

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



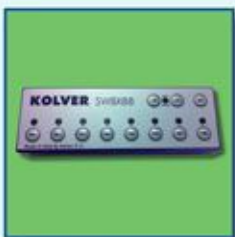
EDU2AE & EDU2AE/HP



EDU2AE/TOP  
& EDU2AE/TOP/TA



BIT/SOCKET TRAY



SWITCH BOX

## CONTROL UNITS PLUTO SERIES

EDU2AE, EDU2AE/HP and EDU2AE/TOP control units 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.

EDU2AE, EDU2AE/HP and EDU2AE/TOP control units can be used in combination with any Kolver current control and/or clutch PLUTO screwdriver.

An easy-to-use scroll menu allows to select, set and/or adjust the following functions:

- screwdriver model
- tightening torque, fastening and unscrewing speed
- type of joint (soft/hard)
- acceleration ramp
- min and max fastening time
- autoreverse

In addition to the above mentioned functions, EDU2AE/HP control unit features:

- password protect settings
- prevailing torque function (threadcutting)
- clockwise or counterclockwise rotation (right or left screws) with torque control
- torque value in Nm on the display through dedicated calibration menu
- screw count function
- min-max torque interval with OK or NOK signal

The EDU2AE/TOP multiple torque system is designed to expand the functionality of the PLUTO screwdriver. In addition to the a.m. options it also features:

- 8 independent programs: with one PLUTO screwdriver you can replace 8 conventional screwdrivers.
- Time and date
- Program selection by barcode
- Program selection by socket tray and/or switchbox
- Also available in TA version with torque/angle combined control functions (see dedicated page)

All units are supplied with a 10 pin I/O connector with torque reached, pressed lever and error signals and start, stop and remote reverse contacts.

EDU2AE/TOP supplied with 7 additional connectors for multiple functions.

Serial port available on request

Code	Model	Features	Dimensions mm	Weight kg
031000	EDU2AE	Programmable with user interface screens	195x110x170	3,7
031000/HP	EDU2AE/HP	Programmable with user interface screens screw counter, PV option, torque value display	195x110x170	3,7
031000/TOP	EDU2AE/TOP	8 different programs - selection by barcode, socket tray, switchbox	190x205x120	4,0

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