

PLUTO SERIES

TORQUE UP TO 35 NM

Kolver's ingenuity and experience have led to the development of Pluto (PLU's 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 electric motor concept 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 470 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, or in a standard inline housing with lever start. 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 20CA (20 Nm) and Pluto 35CA (35 Nm) available on request with auxiliary external housing (IMPEXT). See Accessories for details.

Pluto drivers are the real alternative to the pneumatic screwdriver.



EDU1AE



U MODEL



INLINE MODEL



PLUTO08ANG

Code	Model	Torque Nm EDU1AE	Torque Nm EDU1AE/LTP	RPM max EDU1AE	RPM max EDU1AE/LTP	Weight kg	Dimensions mm	Controller	Housing option
130203	PLUT03D	-	0,3÷3	-	1200	0,5	216x40	EDU1AE/LTP	
130204	PLUT03P	-	0,3÷3	-	1200	0,5	150x150x45	EDU1AE/LTP	Pistol grip
130211/N	PLUT010D/N	2÷10	0,6÷4,0	600	400	0,5	216x40	EDU1AE and EDU1AE/LTP	
130210/N	PLUT010P/N	2÷10	0,6÷4,0	600	400	0,5	150x150x45	EDU1AE and EDU1AE/LTP	Pistol grip
130210/U/N	PLUT010P/U/N	2÷10	0,6÷4,0	600	400	0,5	150x150x45	EDU1AE and EDU1AE/LTP	Pistol grip with top connector
130216/N	PLUT015D/N	2÷15	0,6÷6,8	320	220	0,5	216x40	EDU1AE and EDU1AE/LTP	
130215/N	PLUT015P/N	2÷15	0,6÷6,8	320	220	0,5	150x150x45	EDU1AE and EDU1AE/LTP	Pistol grip
130215/U/N	PLUT015P/U/N	2÷15	0,6÷6,8	320	220	0,5	150x150x45	EDU1AE and EDU1AE/LTP	Pistol grip with top connector
130208	PLUTO08ANG	1,5÷8	-	600	-	0,75	260x40	EDU1AE	



EDU1AE



EDU1AE/TOP



SOCKET TRAY



SWITCH BOX

CONTROL UNITS PLUTO SERIES

All Kolver screwdrivers work in combination with a control unit acting 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.

For the Pluto series the EDU1AE gives you all the advantages of precision torque controlled electric tools at a fraction of the price of transducerized tools. The microprocessor based unit cuts the power supply to the motor calculating the correct torque in response to 3 parameters, voltage frequency and current, according to the selected options.

Additional features:

- One controller only for a torque range from 2 to 35 Nm. For lower torque values: EDU1AE/LTP model.
- User interface screens: walk through a few simple steps to input the parameters requested for your application and your fastening process can begin.
- Slow start and adjustable speed.
- Soft or hard joint option.
- High speed rundown and slow speed tightening for improved accuracy.
- Autostop on elapsed time, automatic reverse at cycle end with adjustable time stop.
- Torque reached signal and lever signal, remote start and reverse contacts.
- Serial port for data downloading available on request for all models.
- ACE screw counter to monitor for fastening assembly process.

The EDU1AE/TOP and EDU1AE/TOP/LTP multiple torque system is designed to expand the functionality of the PLUTO screwdriver and its controller by enabling easy access to multiple torque settings with one EDU1AE controller and one Pluto driver only.

Main features:

- One controller only for a torque range from 2 to 35 Nm. For lower torque values: EDU1AE/TOP/LTP model.
- User interface screens.
- 8 independent programs: with one PLUTO screwdriver you can replace 8 conventional screwdrivers.
- Each program can accept the following settings: Torque, Speed, Type of Joint, Number of Screws to be tightened, Number of Rejects allowed, Minimum screwing time, Maximum screwing time, Ramp time, Auto reverse, Auto switch to the next program with any sequence, Allow or Prevent reverse option.
- Password protected.
- Statistics menu with summary of work done: total number of cycles performed correctly and wrongly; at the end of the day you'll know how many cycles have been performed correctly, how many wrongly, total number of screws etc.
- 15 input and 11 output connectors: you can control all functions from PLC.
- USB port as option.
- Options also include Socket tray (code 020041) or Switch box (code 020032): for programs to be selected from the TOP unit by the removal of one of eight bit from the tray or by the push of one of eight buttons.

Code	Model	Features	Dimensions mm	Weight kg
030000	EDU1AE	Programmable with user interface screens	185x125x95	3,150
030000/LTP	EDU1AE/LTP	Lower torque and speed	185x125x95	3,150
030000/C	EDU1AE/C	Remote double torque selection	185x125x95	3,150
030002	EDU1AE/MT	Max torque time option	185x125x95	3,150
030002/LTP	EDU1AE/MT/LTP	Max torque time option - Lower torque and speed	185x125x95	3,150
030000/TOP	EDU1AE/TOP	With programmable system - 8 different programs	236x12x208	4,0
030000/TOP/LTP	EDU1AE/TOP/LTP	With programmable system - 8 different programs Lower torque and speed	236x12x208	4,0
030002/TOP	EDU1AE/MT/TOP	With programmable system - 8 different programs Max torque time option	236x12x208	4,0
030002/TOP/LTP	EDU1AE/MT/TOP/LTP	With programmable system - 8 different programs Max torque time option - Lower torque and speed	236x12x208	4,0