



PLUTO Screwdrivers Current Control Style

TORQUE UP TO 50 Nm

Kolver's ingenuity and experience have led to the development of Pluto (PLU Torque) screwdrivers, the most advanced DC tools in the market, able to reach 50 Nm. 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. PLUTO screwdrivers are available in pistol or inline styles; lever, trigger, or push-to-start. All models are ESD safe. Pluto CA/SR series drivers are designed for higher torque applications up to 50 Nm. The CA/SR features a sleek design with a robust aluminium body allowing for operator comfort and durability. Torque & Angle models are also available.



PLUTO IN PUSH-TO-START



ANGLE SCREWDRIVERS
see page 16



PLUTO with LED,
see page PLUTO..TA



PLUTO20CA/SR

Model	Code	Torque Nm	RPM min-max	Dimensions mm	Weight kg	Housing
PLUTO3D	130203	0,5-3,0	370-1300	226x40	0,55	Inline
PLUTO3P	130204	0,5-3,0	370-1300	159x174x45	0,55	Pistol
PLUTO3P/U	130205	0,5-3,0	370-1300	163x174x45	0,55	Pistol grip with top connector
PLUTO3D/PS	130203/PS	0,5-3,0	370-1300	263x40	0,55	Inline/Push-start
PLUTO6D	130206	0,85-6,0	200-850	226x40	0,55	Inline
PLUTO6P	130207	0,85-6,0	200-850	159x174x45	0,55	Pistol
PLUTO6P/U	130207/U	0,85-6,0	200-850	163x174x45	0,55	Pistol grip with top connector
PLUTO6D/PS	130206/PS	0,85-6,0	200-850	263x40	0,55	Inline/Push-start
PLUTO10D/N	130211/N	1,5-10,0	110-600	226x40	0,55	Inline
PLUTO10P/N	130210/N	1,5-10,0	110-600	159x174x45	0,55	Pistol
PLUTO10P/U/N	130210/U/N	1,5-10,0	110-600	163x174x45	0,55	Pistol grip with top connector
PLUTO10D/PS	130211/PS	1,5-10,0	110-600	263x40	0,55	Inline/Push-start
PLUTO15D/N	130216/N	2,0-15,0	60-320	226x40	0,60	Inline
PLUTO15P/N	130215/N	2,0-15,0	60-320	159x174x45	0,60	Pistol
PLUTO15P/U/N	130215/U/N	2,0-15,0	60-320	163x174x45	0,60	Pistol grip with top connector
PLUTO15D/PS	130216/PS	2,0-15,0	60-320	263x40	0,60	Inline/Push-start
PLUTO20CA/SR	133221/SR	3,0-20,0	50-200	232x53	1,10	Aluminium body, start/reverse buttons
PLUTO35CA/SR	133236/SR	3,0-35,0	40-140	247x57	1,50	Aluminium body, start/reverse buttons
PLUTO50CA/SR	133250/SR	5,0-50,0	20-90	252x57	1,50	Aluminium body, start/reverse buttons



PLUTO Screwdrivers Clutch Style

TORQUE RANGE FROM 0,5 TO 7 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.

They work with EDU2AE/FR, the control unit specifically designed for PLUTO/FR screwdrivers, but they're also compatible with the complete EDU2AE series (PLUTO/FR/TA are meant to be used with EDU2AE/TOP/TA only).

PLUTO/FR come standard with ESD-safe body, 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 safe use in an EPA environment.

Model	Code	Torque Nm	RPM min-max	Dimensions mm	Weight kg	Housing
PLUTO3FR	131203	0,5-3,2	800-1300	274x40	0,55	Inline
PLUTO3FR/P	131204	0,5-3,2	800-1300	158x224x45	0,55	Pistol
PLUTO3FR/P/U	131204/U	0,5-3,2	800-1300	163x232x45	0,55	Pistol grip with top connector
PLUTO5FR	131205	0,7-5,0	600-1000	274x40	0,55	Inline
PLUTO5FR/P	131206	0,7-5,0	600-1000	158x224x45	0,55	Pistol
PLUTO5FR/P/U	131206/U	0,7-5,0	600-1000	163x232x45	0,55	Pistol grip with top connector
PLUTO7FR	131207	1,5-7,0	350-600	274x40	0,55	Inline
PLUTO7FR/P	131208	1,5-7,0	350-600	158x224x45	0,55	Pistol
PLUTO7FR/P/U	131208/U	1,5-7,0	350-600	163x232x45	0,55	Pistol grip with top connector
PLUTO3FR/CA	133203	0,5-3,2	800-1300	252x40	0,75	Aluminium body
PLUTO3FR/CA/FN	133203/FN	0,5-3,2	800-1300	328x40	0,80	Aluminium body, telescopic spindle
PLUTO5FR/CA	133205	0,7-5,0	600-1000	328x40	0,75	Aluminium body
PLUTO5FR/CA/FN	133205/FN	0,7-5,0	600-1000	328x40	0,80	Aluminium body, telescopic spindle
PLUTO7FR/CA	133207	1,5-7,0	350-600	252x40	0,75	Aluminium body
PLUTO7FR/CA/FN	133207/FN	1,5-7,0	350-600	328x40	0,80	Aluminium body, telescopic spindle
PLUTO3FR/TA	131203/TA	0,5-3,2	800-1300	274x40	0,55	Inline
PLUTO5FR/TA	131205/TA	0,7-5,0	600-1000	274x40	0,55	Inline
PLUTO7FR/TA	131207/TA	1,5-7,0	350-600	274x40	0,55	Inline

CONTROL UNITS - PLUTO SERIES

PLUTO Control Units Single & Multi-Torque



EDU2AE



EDU2AE/HPro



EDU2AE/TOP



EDU2AE/TOP/E



EDU2AE/TOP/TA

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. The whole EDU2AE Series is now totally renovated and fully upgraded with our state-of-the-art advanced software for torque controlling. The main features of the new switching control units are:

- Universal usage: All units are equipped with a high power switching transformer with 90-260 V AC power supply: 100% more power and 40% weight reduction.
- New software: EDU2AE & EDU2AE/HPro have a 2.00 version, all TOP units a 5.00 version installed.
- More accurate than ever: The combination of the switching transformer and new software allows MITO & PLUTO screwdrivers to reach a much higher accuracy, better than +/- 5% all over the torque range.
- Better endurance in environment with high noise and interference level: All units comply to norms 61000-6-2 and 61000-6-3.
- Improved EMC features: All units are equipped with a solid steel base and back panel.
- New Features: Users are able to select a fast approach speed and a final tightening speed to adapt to any type of application. It is also possible to select an endless time of clockwise rotation for any application requiring no max time option.
- Multilanguage: English, Italian, German, French, Portuguese, Spanish.

EDU2AE control units can be used in combination with any Kolver current controlled MITO and PLUTO 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
- Acceleration ramp
- Min and Max fastening time
- Autoreverse

The EDU2AE/TOP multiple torque system is designed to expand the functionality of PLUTO screwdrivers by enabling multiple torque settings (up to 8) using one controller and one driver. All functions can also be controlled remotely via 15 input and 11 output connectors, which can be connected to one of our optional accessories such as Switch Box, Socket/Bit Tray, Bar Code Scanner, Printer and Ethernet assist.

EDU2AE/TOP/E has all of the features of the standard EDU2AE/TOP and the Expand software package for remote programming via USB port & PC.

The features of the EDU2AE/TOP/E come standard with EDU2AE/TOP/TA, the torque and angle control unit (see page 10).

Model	Code	Features	Dimensions mm	Weight kg
EDU2AE	032000	Programmable with user interface screens	195x170x110	2,4
EDU2AE/FR	032000/FR	For PLUTO..FR series. Like EDU2AE + Run time, Integrated screw counter, Additional signals, Serial Port, Optional screwdriver connector on back panel	195x170x110	2,4
EDU2AE/HPro	032000/HPRO	Like EDU2AE + Torque value, Run Time, Additional signals, Serial Port, serial print, integrated screw counter, Optional screwdriver connector on back panel	195x170x110	2,4
EDU2AE/TOP	032000/TOP	8 different programs - selection by barcode, socket tray, switchbox	190x205x120	2,5
EDU2AE/TOP/E	032000/TOP/E	Like EDU2AE/TOP + remote programming via USB & PC (with EDU EXPAND software)	190x205x120	2,5
EDU2AE/TOP/TA	032000/TOP/TA	Programmable Torque & Angle (8 P-Sets) with user interface screens	190x205x120	2,5

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