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To whom it may concern in India

We certify that:

Inde Enterprises Head Office: 745 Sector-8B Chandigarh 160 009 Email: <u>info@indeonline.in</u> Cell: 9316134502

are our Indian partner both for sales and service of our Kolver Brand Electric Screwdrivers.

This certificate is re-issued on April 1st, 2018 and will be valid for next 3 years.

We solicit all our Indian customers' co-operation to inde Enterprises so as to perform the assigned responsibility.

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KOLVER SRL



KOLVER Srl is currently one of the major players in the global market of electric screwdrivers for industry. Founded in 1989, KOLVER has soon taken the leadership in the European market of precision electric screwdrivers for industry. Thousands of state-of-the-art drivers are produced every year in Italy and then shipped to more than 30 Countries worldwide. Product innovation, rigorous respect for man and his environment and fast and accurate service have been the key factors of KOLVER's success.

Our famous PLUTO Series was launched in 2000 and since then it has been often imitated, but never duplicated.



PLUTO Screwdrivers set a new standard

The introduction of K-DUCER screwdrivers marks a turning point – fully Industry 4.0 ready, K-DUCER represents the next generation of screw tightening.



K-DUCER is the new challenge

2019

2011



The MITO Range joins the family



Specifically designed for high-precision applications, MITO tools were born to guarantee the same flexibility of current-controlled screwdrivers even on low torques.







Transducerized Screwdrivers / K-DUCER Series





K-DUCER Transducerized Screwdrivers | Torque range 0.1 – 15 Nm

K-Ducer is the new A-class intelligent transducerized assembly system from Kolver, the electric tool pioneer since 1989.

The system consists of an advanced state-of-the-art controller and a range of handheld and fixtured electric screwdrivers with torgue up to 15 Nm (to be extended to 50 Nm soon).

Finest accuracy and precision KDS transducerized electric tools cover all assembly line requirements for an accurate, high-quality torque and angle-controlled tightening experience.

A built-in compact transducer provides torque control with excellent repeatability.

Excellent ergonomics

KDS screwdrivers feature unsurpassed ergonomics, soft touch design, status LED, temperature protection combined with full traceability and error-proofing capabilities.

Available in straight, pistol and fixture configuration.

Connectivity and Industry 4.0

KDS tools are the ideal solution for your Industry 4.0 production line. Built-in LED lights give you immediate feedback on each tightening process, i.e. you'll be able to check at a glance whether the part is correctly tightened or not.

KDS screwdrivers work in combination with KDU control units to gather, analyse and process detailed assembly information.

Their built-in transducer continuously reads torque and position of the screw and sends the gathered data to the KDU controller for analysis.





INLINE (KDS-PL) – Inline versions available in lever start. ESD-safe option available on models KDS-PL /ESD.



PISTOL GRIP – Trigger start, pistol grip available with top connector (KDS-PL P/U) or bottom connector (KDS-PL P). Also available in ESD-safe option (KDS-PL P/ESD and KDS-PL P/U/ESD).



ALUMINIUM BODY (KDS-PL CA) – Specifically designed for automation. Easy to install on any machine or robot. Version with flange mount available

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Inline KDS Screwdrivers

Code	Model	Torque Nm	RPM min-max	Dimensions mm	Weight kg	Bit Drive
175015	KDS-MT1.5	0.1 - 1.5	50 - 850	254 x 52	0.7	Hex 1/4"
135006	KDS-PL6	0.5 - 6	50 - 850	251 x 52	0.7	Hex 1/4"
135010	KDS-PL10	0.8 - 10	50 - 600	251 x 52	0.7	Hex 1/4"
135015	KDS-PL15	0.5 - 15	50 - 320	251 x 52	0.7	Hex 1/4"

Pistol grip KDS Screwdrivers

Code	Model	Torque Nm	RPM min-max	Dimensions mm	Weight kg	Bit Drive
175016	KDS-MT1.5P	0.1 - 1.5	50 - 850	186 x 172 x 50	0.7	Hex 1/4"
135007	KDS-PL6P	0.5 - 6	50 - 850	186 x 170 x 50	0.7	Hex 1/4"
135011	KDS-PL10P	0.8 - 10	50 - 600	186 x 170 x 50	0.7	Hex 1/4"
135016	KDS-PL15P	0.5 - 15	50 - 320	186 x 170 x 50	0.7	Hex 1/4"

Inline KDS Screwdrivers in ESD-safe housing

Code	Model	Torque Nm	RPM min-max	Dimensions mm	Weight kg	Bit Drive
175015/ESD	KDS-MT1.5/ESD	0.1 - 1.5	50 - 850	254 x 52	0.7	Hex 1/4"
135006/ESD	KDS-PL6/ESD	0.5 - 6	50 - 850	251 x 52	0.7	Hex 1/4"
135010/ESD	KDS-PL10/ESD	0.8 - 10	50 - 600	251 x 52	0.7	Hex 1/4"
135015/ESD	KDS-PL15/ESD	0.5 - 15	50 - 320	251 x 52	0.7	Hex 1/4"

Pistol grip KDS Screwdrivers in ESD-safe housing

Code	Model	Torque Nm	RPM min-max	Dimensions mm	Weight kg	Bit Drive
175016/ESD	KDS-MT1.5P/ESD	0.1 - 1.5	50 - 850	186 x 172 x 50	0.7	Hex 1/4"
135007/ESD	KDS-PL6P/ESD	0.5 - 6	50 - 850	186 x 170 x 50	0.7	Hex 1/4"
135011/ESD	KDS-PL10P/ESD	0.8 - 10	50 - 600	186 x 170 x 50	0.7	Hex 1/4"
135016/ESD	KDS-PL15P/ESD	0.5 - 15	50 - 320	186 x 170 x 50	0.7	Hex 1/4"

Aluminium housing KDS Screwdrivers

Code	Model	Torque Nm	RPM min-max	Dimensions mm	Weight kg	Bit Drive
175115	KDS-MT1.5CA	0.1 - 1.5	50 - 850	237 x 40	0.9	Hex 1/4"
135106	KDS-PL6CA	0.5 - 6	50 - 850	248 x 40	0.9	Hex 1/4"
135110	KDS-PL10CA	0.8 - 10	50 - 600	248 x 40	0.9	Hex 1/4"
135115	KDS-PL15CA	0.5 - 15	50 - 320	248 x 40	0.9	Hex 1/4"

Aluminium housing KDS Screwdrivers with flange mount

Code	Model	Torque Nm	RPM min-max	Dimensions mm	Weight kg	Bit Drive
175115/FN	KDS-MT1.5CA/FN	0.1 - 1.5	50 - 850	316 x 40	1.1	Sq 3/8″
135106/FN	KDS-PL6CA/FN	0.5 - 6	50 - 850	350 x 40	1.1	Sq 3/8″
135110/FN	KDS-PL10CA/FN	0.8 - 10	50 - 600	350 x 40	1.1	Sq 3/8″
135115/FN	KDS-PL15CA/FN	0.5 - 15	50 - 320	350 x 40	1.1	Sq 3/8"

Angle head KDS Screwdrivers

Code	Model	Torque Nm	RPM min-max	Dimensions mm	Weight kg	Bit Drive
135006/A	KDS-PL6/ANG	0.5 - 5.5	50 - 850	288 x 52	0.7	Hex 1/4"
135010/A	KDS-PL10/ANG	0.8 - 9	50 - 600	288 x 52	0.7	Hex 1/4"
135015/A	KDS-PL15/ANG	0.5 - 14	50 - 320	326 x 52	0.9	Sq 3/8"

2D and 3D drawings available on kolver.it // IMPORTANT: Continuous use over 80% of torque range is not recommended.

KDS Screwdrivers work in combination with KDU series controllers. See page 10 for further information.

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KDU-1 Controllers | K-Ducer Power Units

The KDU-1 Series of controllers give you full control of your fastening operation in an industry leading compact size.

Features

With features like touch screen color display, multiple programs and sequences, intuitive programming interface, torque and angle control and graphs output, the KDU-1 units provide unmatched performance and value.

Easy to use

Set-up and operation are really an easy task. Units may be programmed either through the touch screen or via a PC software.

Different models, plenty of options

The power unit comes in two versions depending on the functionality level required.

The KDU-1 basic unit includes serial and USB ports.

In addition to that, KDU-1A advanced controllers feature a Modbus TCP communication port.

Most communication protocols are available with the support of external modules.

KDU controllers will operate all KDS series of tools.

Connectivity and Industry 4.0

Industry 4.0 – The Fourth Industrial Revolution – is driving the evolution of the assembly process. The digitalization of manufacturing and assembly means shifting the way we look at manufacturing in terms of production optimization and automation.

The more informed you are, the better decisions you can make. Having smart tools on your line means that you have specific tightening information fed into the production system – information concerning critical details of your components, materials and tightening process. This provides a valuable opportunity to increase efficiency and results in pro-active problem solving, alongside with considerable energy savings from efficiency improvements.

Optional supports

A table stand or wall mount are available for KDU units. Wall mounts can be easily installed on any vertical surface and allow KDU controllers to tilt up/down and left/right – place your KDU unit anywhere and adjust its position to best suit your needs.

A table stand ensures quick access to cables when placing your KDU unit on a flat surface. It is the best option in case you'd like to keep your KDU controller right at hand.



Table Stand

Wall Bracket

Supports for KDU control units

Code	Model	Description
010400	Table stand	For table use
010401	Wall mount tilting bracket	For wall or column use

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Controllers for Transducerized Screwdrivers / K-DUCER Series

Features	KD U-1 Basic	KDU-1A Advanced
5" Touch Screen	٠	٥
Number of programs	64	64
Sequences	8	8
20 Input NPN	٥	٠
21 Outputs	٥	٠
Torque graph	٠	•
Bar code reading	٠	•
Torque & angle control	٠	•
Multiple parameters	٠	۰
RS 232 (2)	٥	•
Mini USB	٠	•
USB	٠	•
Modb us TCP		•
Devicenet		+
CC-Link		+
Profibus		+
Ethernet / IP		+
Profinet		+
Profinet FO		+
Ethercat		+
CC-Link IE Field		+
Powerlink		+

+ = Requires separate module to convert Modbus TCP to the desired protocol

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Complementary Cables / K-DUCER Series



Cables | K-Ducer Screwdrivers and Control Units

Cables are required to complete any K-Ducer system, as they connect KDS screwdrivers to KDU control units. They're made of sturdy materials to guarantee exceptional resistance to wear and tear. Also, they're superquick to connect thanks to their one-click connector. Two different lengths (2.5 m and 5 m) are available to meet any production requirement.





Cables to connect KDS screwdrivers to KDU units

Code	Model	Description
250064	Cable 2.5 m	M16 10pin 2.5 m
250064/H	Cable 2.5 m, heavy duty	M16 10pin 2.5 m
250564	Cable 5 m	M16 10pin 5 m
250564/H	Cable 5 m, heavy duty	M16 10pin 5 m





Low Torque Screwdrivers / NATO and MITO Series





NATO and MITO Screwdrivers | Torque range 0.02 – 1.5 Nm

NATO and MITO screwdrivers are the ideal solution for high-precision low torques.

Their accurate and smooth torque control makes them perfect for the electronics, mobile, watchmaking and eyewear industry.

Precise low-torque screwdrivers

Kolver's experience with current-controlled technology has led to the creation of the NATO and MITO series; truly accurate current-controlled torque drivers designed for applications in which torques below 1.5 Nm are required.

MITO tools operate within a torque range of 0.2 – 1.5 Nm, while NATO screwdrivers are designed for an even lower torque range of 0.01 – 0.5 Nm.

Long-lasting accuracy

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



ALUMINIUM BODY (NATO CA and MITO CA) – For automation, they can also be used with foot pedals for manual operations.

MITO also available with flange mount.

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



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Inline NATO Screwdrivers

Code	Model	Torque Nm	RPM min-max	Dimensions mm	Weight kg	Bit Drive
160015/TA	NATO15D/TA	0.02 - 0.27	100 - 700	210 x 33	0.25	Half moon 4 mm
160050/TA	NATO50D/TA	0.05 - 0.5	50 - 700	210 x 33	0.25	Hex 1/4"

NATO Series available in TA (torque & angle) only. Further information about TA series for manual use available on page 20.

Aluminium housing NATO Screwdrivers

Code	Model	Torque Nm	RPM min-max	Dimensions mm	Weight kg	Bit Drive
163015/TA	NATO15CA/TA	0.02 - 0.27	100 - 700	150 x 25	0.18	Half moon 4 mm
163050/TA	NATO50CA/TA	0.05 - 0.5	50 - 700	150 x 25	0.18	Hex 1/4"

NATO Series available in TA (torque & angle) only. Further information about TA series for automation available on page 24.

Control units for NATO Screwdrivers

Code	Model	Single Program	Torque Value in Nm	Serial Port	Multitorque (8 P-sets)	USB Port	PC Software	Weight kg	Dimensions mm
031000/TOP/NT/TA	EDU2AE/TOP/NT/TA	-	٠	٠	٠	٠	۰	2.00	190 x 205 x 120

See page 19 for a complete list of features (see EDU2AE/TOP/TA).

Inline MITO Screwdrivers

Code	Model	Torque Nm	RPM min-max	Dimensions mm	Weight kg	Bit Drive
170015	MITO15D	0.35 - 1.5	450 - 850	216 x 33	0.35	Hex 1/4"

Pistol grip MITO Screwdrivers

Code	Model	Torque Nm	RPM min-max	Dimensions mm	Weight kg	Connector Option
170014	MITO15P	0.35 - 1.5	450 - 850	159 x 195 x 45	0.50	Bottom connector
170014/U	MITO15P/U	0.35 - 1.5	450 - 850	163 x 195 x 45	0.50	Top connector

Aluminium housing MITO Screwdrivers

Code	Model	Torque Nm	RPM min-max	Dimensions mm	Weight kg	Bit Drive
170016	MITO15CA	0.35 - 1.5	450 - 850	193 x 32	0.36	Hex 1/4 "
Model with flange mou	nt					
170016/FN	MITO15CA/FN	0.35 - 1.5	450 - 850	271 x 33	1.3	Hex 1/4 "

Control units for MITO Screwdrivers

Code	Model	Single Program	Torque Value in Nm	Serial Port	Multitorque (8 P-sets)	USB Port	PC Software	Weight kg	Dimensions mm
032000	EDU2AE	٠	-	-	-	-	-	2.40	195 x 170 x 110
032000/HPRO	EDU2AE/HPRO	۰	٠	٠	-	-	-	2.40	195 x 170 x 110
032000/TOP	EDU2AE/TOP	-	٠	٠	•	-	-	2.50	190 x 205 x 120
032000/TOP/E	EDU2AE/TOP/E	-	0	٠	۰	٠	۰	2.50	190 x 205 x 120

See page 19 for a complete list of features.

2D and 3D drawings available on kolver.it

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







Hand-held Screwdrivers / PLUTO Series





PLUTO Hand-held Screwdrivers | Torque range 0.5 – 70 Nm

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 0.5 Nm with PLUTO3, they reach up to 70 Nm with PLUTO70ANG. Pick the one that best suits your application among the many currentcontrolled 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 19).

Precise and accurate

High performances are guaranteed on any type of joint. PLUTO® current-controlled tools can reach 70 Nm 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 0.5 - 70 Nm torque range.

Highest environmental protection requirements

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





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





ANGLE MODELS (PLUTO..ANG) - Inline models with angle head attached. Current-controlled style. Wrench blade attachments available upon request



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Hand-held Screwdrivers / PLUTO Series

Inline PLUTO Screwdrivers

Code	Model	Torque Nm	RPM min-max	Dimensions mm	Weight kg	Bit Drive
130203	PLUTO3D	0.5 - 3	370 - 1300	226 x 40	0.55	Hex 1/4"
130206	PLUTO6D	0.85 - 6	200 - 850	226 x 40	0.55	Hex 1/4"
130211/N	PLUTO10D/N	1.5 - 10	110 - 600	226 x 40	0.55	Hex 1/4"
130216/N	PLUTO15D/N	2.0 - 15	60 - 320	226 x 40	0.60	Hex 1/4"

Pistol grip PLUTO Screwdrivers

Code	Model	Torque Nm	RPM min-max	Dimensions mm	Weight kg	Connector Option
130204	PLUTO3P	0.5 - 3	370 - 1300	159 x 174 x 45	0.55	Bottom connector
130205	PLUTO 3P/U	0.5 - 3	370 - 1300	163 x 174 x 45	0.55	Top connector
130207	PLUTO6P	0.85 - 6	200 - 850	159 x 174 x 45	0.55	Bottom connector
130207/U	PLUTO6P/U	0.85 - 6	200 - 850	163 x 174 x 45	0.55	Top connector
130210/N	PLUTO10P/N	1.5 - 10	110 - 600	159 x 174 x 45	0.55	Bottom connector
130210/U/N	PLUTO10P/U/N	1.5 - 10	110 - 600	163 x 174 x 45	0.55	Top connector
130215/N	PLUTO15P/N	2.0 - 15	60 - 320	159 x 174 x 45	0.55	Bottom connector
130215/U/N	PLUTO15P/U/N	2.0 - 15	60 - 320	163 x 174 x 45	0.55	Top connector

Aluminium body PLUTO Screwdrivers

Code	Model	Torque Nm	RPM min-max	Dimensions mm	Weight kg	Bit Drive
133221/SR	PLUTO20CA/SR	3.0 - 20	50 - 200	232 x 53	1.10	Sq 3/8"
133236/SR	PLUTO35CA/SR	3.0 - 35	40 - 140	247 x 57	1.50	Sq 3/8"
133250/SR	PLUTO50CA/SR	5.0 - 50	20 - 90	252 x 57	1.50	Sq 1/2 "

Angle head PLUTO Screwdrivers

Code	Model	Torque Nm	RPM min-max	Dimensions mm	Bit Drive	Start Option
130203/A	PLUTO3ANG	0.5 - 2.5	370 - 1300	261 x 40	Hex 1/4"	Lever start
130206/A	PLUTO6ANG	1.0 - 6	200 - 850	261 x 40	Hex 1/4"	Lever start
130208	PLUT O8ANG	1.5 - 8	110 - 600	261 x 40	Hex 1/4"	Lever start
130216/A	PLUTO 15ANG	2.0 - 13	100 - 320	286 x 40	Sq 3/8″	Lever start
133220	PLUTO20ANG	3.0 - 18	60 - 200	302 x 40	Sq 3/8″	Start/Reverse Buttons
133231	PLUTO30ANG	6.0 - 30	30 - 130	435 x 54	Sq 3/8″	Start/Reverse Buttons
133245	PLUTO45ANG	10 - 45	20 - 90	445 x 57	Sq 1/2"	Start/Reverse Buttons
133270	PLUTO70ANG	15 - 70	20 - 50	458 x 57	Sq 1/2"	Start/Reverse Buttons

Control units for PLUTO Screwdrivers

Code	Model	Single Program	Torque Value in Nm	Serial Port	Multitorque (8 P-sets)	USB Port	PC Software	Weight kg	Dimensions mm
032000	EDU2AE	٠	-	-	-	-	-	2.40	195 x 170 x 110
032000/HPRO	EDU2AE/HPRO	۰	٠	•	-	-	-	2.40	195 x 170 x 110
032000/TOP	EDU2AE/TOP	-	٠	•	٠	-	-	2.50	190 x 205 x 120
032000/TOP/E	EDU2AE/TOP/E	-	٠	٠	۰	٠	٥	2.50	190 x 205 x 120

See page 19 for a complete list of features.

2D and 3D drawings available on kolver.it

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/TOP/E and EDU2AE/TOP/TA come standard with the EXPAND software package to set, change and save all parameters via USB key & PC.

EDU2AE & Screwdriver Series Combination

Screwdriver models	
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
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
	Screwdriver models Hand-held MITO D MITO P PLUTO P, D/N PLUTO P, D/N PLUTO P/U, P/U/N PLUTO CA/SR PLUTO ANG PLUTO ANG PLUTO ANG/SR Hand-held MITO D/TA PLUTO D/TA PLUTO D/TA PLUTO D/TA PLUTO D/TA PLUTO D/TA PLUTO CA/SR/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	٠	٠	٠	٠	٠	٠
Settable Torque percentage	٠		٠	٠	٠	٠
Ramp and Speed settings	٠	٥	٠	٠	٠	٠
Speed 1 and Speed 2 settings	٠		۰	٠	٠	٠
Min/max or infinite time settings	٠	٠	٠	٠	٠	٥
Auto reverse	٠	٠	٠	٠	٠	٥
Pre Reverse			۰	٠	٠	٠
Settable loosening speed	٠	٥	۰	٠	٠	٠
Settable loosening torque	٠		٠	٠	٠	٥
Run time	۰	٠	٠	۰	٠	٠
Prevailing torque			٠	۰	٠	٠
Clockwise/anticlock- wise tightening			٠	۰	٠	•
Password protected		٠	٠	۰	٠	•
Calibration			٠	٠	٠	٠
Nm - lb/in - Kgf.cm selection			۰	٠	٠	٠
Settable Min/max torque			۰	٠	٠	٠
Screw count	٠	٥	٠	٠	٠	٥
End cycle signal		٥	٠	٥	٥	٥
Screw reset				٠	٠	٠
Program reset		0	٠	٠	٠	٠
Sequence reset			٠	٠	٠	٠
Multitorque				۰	٠	٠
Lever error			٠	۰	٠	٠
Enable/Disable loosening			٠	۰	٠	•
Barcode			٠	۰	٠	•
Serial print		٠	٠	۰	۰	•
Error, motor on and correct screw signals	٠	٥	٠	٠	٠	٠
Optional back driver connector		٥	۰			
Use with DOCK04 double connector				٠	٠	٥
Use with PRNTR1 serial printer		٠	٠	٠	٠	٠
Printing options for each program				٠	٠	٠
Use with TLS1	٠	٠	٠	٠	٠	٠
>> w/ automatic program switch				٠	٠	•
PC programming (EDU EXPAND)					٠	٠
USB flash drive & port					٥	٠





Hand-held Screwdrivers / Torque & Angle Series



Torque & Angle Hand-held Screwdrivers | Torque range 0.02 – 50 Nm

Industrial tightening requires precise control strategies. TA systems feature Torque and Angle monitoring, making it possible to manage both torque and rotation angle of the screw.

The 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.

Main features

- 'EDU Expand' software for remote programming via USB port and PC.
- USB port on front panel for uploading and downloading programs.
- Easy to program user interface screens.
- Password protected.
- Torque value in Nm, lbf.in and kgf.cm.
- Angle value in degrees.
- 8 independent programs including the options:
- Min/Max torque value.
- Min/Max angle value.
- Rundown speed.
- Slow start/Soft stop.
- Hard/soft joint.
- Min/Max rundown time.
- Prevailing torque (threadcutting).Auto reverse if required.
- 6 Torque & Angle strategies:

- Torque priority: angle count from torque threshold (T) or from remote input (T/I) or from lever input (T/L).

- Angle priority: driver stops when angle is reached from threshold torque (A) or from remote input (A/I) or from lever (A/L).

EDU2AE/TOP/TA Torque and Angle Functionalities

Torque Mode



It's the most common mode. If the final torque and angle values are within the preset minimum and maximum values, the screw is tightened correctly and the controller will give an OK message.

If the torque and/or angle are outside the pre-set values, the screw will be considered incorrectly tightened and the controller will give an error message.

Angle Mode



This mode gives priority to the angle to be reached. Starting from the pre-set threshold torque, the system will start counting the degrees and when the pre-set angle is reached the screwdriver will stop.

The control unit will give an OK or NOK message depending on whether the screw is tightened correctly or not. It is also possible to set minimum and maximum values within which the set angle must be reached.



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Hand-held Screwdrivers / Torque & Angle Series

Inline TA Screwdrivers

Code	Model	Torque Nm	RPM min-max Dimensions mm		Weight kg	Bit Drive
160015/TA	NATO15D/TA	0.02 - 0.27	100 - 700	210 x 33	0.25	Half moon 4 mm
160050/TA	NATO50D/TA	0.05 - 0.5	50 - 700	210 x 33	0.25	Hex 1/4"
170015/TA	MITO15D/TA	0.35 - 1.5	450 - 850	216 x 33	0.35	Hex 1/4"
130203/TA	PLUTO3D/TA	0.5 - 3	370 - 1300	226 x 40	0.55	Hex 1/4"
130206/TA	PLUTO6D/TA	0.85 - 6	200 - 850	226 x 40	0.55	Hex 1/4"
130211/TA	PLUTO 10D/TA	1.5 - 10	110 - 600	226 x 40	0.55	Hex 1/4"
130216/TA	PLUTO 15D/TA	2.0 - 15	60 - 320	226 x 40	0.55	Hex 1/4"
Models with LED lig	ht ring					
130203/TA/LED	PLUTO3D/TA/LED	0.5 - 3	370 - 1300	226 x 40	0.55	Hex 1/4"
130206/TA/LED	PLUTO6D/TA/LED	0.85 - 6	200 - 850	226 x 40	0.55	Hex 1/4"
130211/TA/LED	PLUTO10D/TA/LED	1.5 - 10	110 - 600	226 x 40	0.55	Hex 1/4"
130216/TA/LED	PLUTO15D/TA/LED	2.0 - 15	60 - 320	226 x 40	0.55	Hex 1/4"

Pistol grip TA Screwdrivers

Code	Model	Torque Nm	RPM min-max	Dimensions mm	Weight kg	Connector Option
130204/TA	PLUTO3P/TA	0.5 - 3	370 - 1300	159 x 174 x 45	0.55	Bottom connector
130205/TA	PLUTO3P/U/TA	0.5 - 3	370 - 1300	163 x 174 x 45	0.55	Top connector
130207/TA	PLUTO6P/TA	0.85 - 6	200 - 850	159 x 174 x 45	0.55	Bottom connector
130207/U/TA	PLUTO6P/U/TA	0.85 - 6	200 - 850	163 x 174 x 45	0.55	Top connector
130210/TA	PLUTO10P/TA	1.5 - 10	110 - 600	159 x 174 x 45	0.55	Bottom connector
130210/U/TA	PLUTO10P/U/TA	1.5 - 10	110 - 600	163 x 174 x 45	0.55	Top connector
130215/TA	PLUTO15P/TA	2.0 - 15	60 - 320	159 x 174 x 45	0.55	Bottom connector
130215/U/TA	PLUTO15P/U/TA	2.0 - 15	60 - 320	163 x 174 x 45	0.55	Top connector

Aluminium body TA Screwdrivers

Code	Model	Torque Nm	RPM min-max	Dimensions mm	Weight kg	Bit Drive
133221/SR/TA	PLUTO20CA/SR/TA	3.0 - 20	50 - 200	232 x 53	1.10	Sq 3/8″
133236/SR/TA	PLUTO35CA/SR/TA	3.0 - 35	40 - 140	247 x 57	1.50	Sq 3/8"
133250/SR/TA	PLUTO50CA/SR/TA	5.0 - 50	20 - 90	252 x 57	1.50	Sq 1/2"

Angle head TA Screwdrivers

Code	Model	Torque Nm	RPM min-max	Dimensions mm	Bit Drive	Start Option
130203/A/TA	PLUTO3ANG/TA	0.5 - 2.5	370 - 1300	286 x 40	Hex 1/4"	Lever start
130206/A/TA	PLUTO6ANG/TA	1.0 - 6	200 - 850	286 x 40	Hex 1/4"	Lever start
130208/TA	PLUTO8ANG/TA	1.5 - 8	110 - 600	286 x 40	Hex 1/4"	Lever start
130216/A/TA	PLUTO15ANG/TA	2.0 - 13	100 - 320	286 x 40	Hex 1/4"	Lever start

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 kg	Dimensions mm
031000/TOP/NT/TA	EDU2AE/TOP/NT/TA	٠	-	•	٠	٠	٠	2.00	190 x 205 x 120
032000/TOP/TA	EDU2AE/TOP/TA	-	٠	٠	٠	٠	٠	2.50	190 x 205 x 120

See page 19 for a complete list of features.

2D and 3D drawings available on kolver.it

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





Fixture Mount Screwdrivers / PLUTO Series





PLUTO Screwdrivers for Automation | Torque range 0.5 – 50 Nm

PLUTO CA screwdrivers are designed for automated and fixtured applications. Whether you're working with a robot or adapting your assembly line to Industry 4.0 standards, we have the right solution for automation in all its forms.

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 0.5 - 50 Nm torque range.

Perfect for automatic machines

PLUTO 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.

Robotic applications

Our PLUTO CA screwdrivers can be easily interfaced with robots. The EDU2AE screwdriver controller connects to robots to determine screw speed, torque and time out. The controller sends a signal to the robot when the screw reaches the specified torque.

Industry 4.0 ready

Simply connect the screwdriver controller to your PLC, robot or machine through the proper connectors to manage input/output signals such as start, stop, error and more.

You can also get data reports of the full tightening procedure on advanced control units like EDU2AE/TOP/E and EDU2AE/TOP/TA.

Available Housings



ALUMINIUM BODY (PLUTO CA and PLUTO CA/N) – Specifically designed for automation. Easy to install on any machine or robot.



ALUMINIUM BODY WITH FLANGE MOUNT (PLUTO CA/FN and PLUTO CA/FN2) – Ideal for automated high volume/high duty applications. Flange and telescopic spindle available together or separately



Robotic application



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Aluminium housing PLUTO Screwdrivers

Code	Model	Torque Nm	RPM min-max	Dimensions mm	Weight kg	Bit Drive
130303	PLUTO3CA	0.5 - 3	370 - 1300	168 x 40	0.50	Hex 1/4"
133206	PLUTO6CA	0.85 - 6	200 - 850	168 x 40	0.50	Hex 1/4"
133211/N	PLUTO10CA/N	1.5 - 10	110 - 600	168 x 40	0.50	Hex 1/4"
133216/N	PLUTO15CA/N	2.0 - 15	60 - 320	168 x 40	0.50	Hex 1/4"
133221	PLUTO20CA	3.0 - 20	50 - 200	232 x 47	1.10	Sq 3/8"
133236	PLUTO35CA	3.0 - 35	40 - 140	247 x 57	1.50	Sq 3/8″
133250	PLUTO50CA	5.0 - 50	20 - 90	252 x 57	1.50	Sq 1/2"

Aluminium housing PLUTO Screwdrivers with flange mount

Code	Model	Torque Nm	Nm RPM min-max Dimensions mm		Weight kg	Bit Drive
130303/FN2	PLUTO3CA/FN2	0.5 - 3	370 - 1300	268 x 40	0.70	Sq 3/8″
130303/FN2/1-4	PLUTO3CA/FN2/1-4	0.5 - 3	370 - 1300	247 x 40	0.70	Hex 1/4"
133206/FN2	PLUTO6CA/FN2	0.85 - 6	200 - 850	268 x 40	0.70	Sq 3/8″
133206/FN2/1-4	PLUTO6CA/FN2/1-4	0.85 - 6	200 - 850	247 x 40	0.70	Hex 1/4"
133211/FN2	PLUTO10CA/FN2	1.5 - 10	110 - 600	268 x 40	0.70	Sq 3/8"
133211/FN2/1-4	PLUTO10CA/FN2/1-4	1.5 - 10	110 - 600	247 x 40	0.70	Hex 1/4"
133216/FN2	PLUTO15CA/FN2	2.0 - 15	60 - 320	268 x 40	0.70	Sq 3/8″
133221/FN	PLUTO20CA/FN	3.0 - 20	50 - 200	323 x 47	1.35	Sq 3/8″
133236/FN	PLUTO35CA/FN	3.0 - 35	40 - 140	338 x 57	1.95	Sq 3/8″
133250/FN	PLUTO50CA/FN	5.0 - 50	20 - 90	351 x 57	1.95	Sq 1/2″

Control units for PLUTO Screwdrivers

Code	Model	Single Program	Torque Value in Nm	Serial Port	Multitorque (8 P-sets)	USB Port	PC Software	Weight kg	Dimensions mm
032000	EDU2AE	٠	-	-	-	-	-	2.40	195 x 170 x 110
032000/HPRO	EDU2AE/HPRO	٠	٠	•	-	-	-	2.40	195 x 170 x 110
032000/TOP	EDU2AE/TOP	-	٠	•	•	-	-	2.50	190 x 205 x 120
032000/TOP/E	EDU2AE/TOP/E	-	٠	•	٠	٠	٠	2.50	190 x 205 x 120
032000/HPRO 032000/TOP 032000/TOP/E	EDUZAE EDUZAE/HPRO EDUZAE/TOP EDUZAE/TOP/E	•	•	•	- - •	-	-	2.40 2.40 2.50 2.50	195 x 170 195 x 170 190 x 205 190 x 205

See page 19 for a complete list of features.

2D and 3D drawings available on kolver.it

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

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Torque & Angle Screwdrivers for Automation | Torque range 0.02 – 50 Nm

Automation requires accurate torque controlling techniques. TA automated systems feature advanced monitoring strategies such as torque and rotation angle of the screw, for precise torque and angle control on all automated operations.

The 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.

Easy interface

TA Screwdrivers work in combination with EDU2AE/TOP/TA control units, which allow to set, change and save all parameters via PC, USB key and a wide range of I/O connections for an easy interface with your PLC, robot or machine.

Plenty of options

PLUTO, MITO and NATO automated torque & angle screwdrivers cover a wide torque range of 0.1-50 Nm: choose the tool that best suits your application and set the desired working cycle through TOP/TA control units. You can set 8 independent programs either directly on control unit or remotely.

TA automated screwdrivers give you total control over automated applications.

Industry 4.0

Interconnection, automatic control and continuous monitoring are fundamental aspects of Industry 4.0.

Through EDU2AE/TOP/TA control units you can easily manage input and output signals such as start, stop, error and more.

You can also get data reports of the full tightening procedure on PC, USB key or serial connection.

EDU2AE/TOP/TA Torque and Angle Functionalities

Torque Mode



It's the most common mode. If the final torque and angle values are within the preset minimum and maximum values, the screw is tightened correctly and the controller will give an OK message.

If the torque and/or angle are outside the pre-set values, the screw will be considered incorrectly tightened and the controller will give an error message.

Angle Mode



This mode gives priority to the angle to be reached. Starting from the pre-set threshold torque, the system will start counting the degrees and when the pre-set angle is reached the screwdriver will stop.

The control unit will give an OK or NOK message depending on whether the screw is tightened correctly or not. It is also possible to set minimum and maximum values within which the set angle must be reached.







Aluminium housing TA Screwdrivers

Code	Model	Torque Nm	RPM min-max	Dimensions mm	Weight kg	Bit Drive
163015/TA	NATO15CA/TA	0.02 - 0.27	100 - 700	150 x 25	0.18	Half moon 4 mm
163050/TA	NATO50CA/TA	0.05 - 0.5	50 - 700	150 x 25	0.18	Hex 1/4"
170016/TA	MITO15CA/TA	0.35 - 1.5	450 - 850	193 x 32	0.36	Hex 1/4"
130303/TA	PLUTO3CA/TA	0.5 - 3	370 - 1300	168 x 40	0.50	Hex 1/4"
133206/TA	PLUTO6CA/TA	0.85 - 6	200 - 850	168 x 40	0.50	Hex 1/4"
133211/TA	PLUTO10CA/TA	1.5 - 10	110 - 600	168 x 40	0.50	Hex 1/4"
133216/TA	PLUTO15CA/TA	2.0 - 15	60 - 320	168 x 40	0.50	Hex 1/4"
133221/TA	PLUTO20CA/TA	3.0 - 20	50 - 200	232 x 47	1.10	Sq 3/8″
133236/TA	PLUTO35CA/TA	3.0 - 35	40 - 140	247 x 57	1.50	Sq 3/8"
133250/TA	PLUTO50CA/TA	5.0 - 50	20 - 90	252 x 57	1.50	Sq 1/2″

Aluminium housing TA Screwdrivers with flange mount

Code	Model	Torque Nm	RPM min-max Dimensions mm		Weight kg	Bit Drive
170016/FN/TA	MITO15CA/FN/TA	0.35 - 1.5	450 - 850	271 x 32	0.40	Hex 1/4"
130303/FN2/TA	PLUTO3CA/FN2/TA	0.5 - 3	370 - 1300	268 x 40	0.70	Sq 3/8"
130303/FN2/TA/1-4	PLUTO3CA/FN2/TA/1-4	0.5 - 3	370 - 1300	247 x 40	0.70	Hex 1/4"
133206/FN2/TA	PLUTO6CA/FN2/TA	0.85 - 6	200 - 850	268 x 40	0.70	Sq 3/8"
133206/FN2/TA/1-4	PLUTO6CA/FN2/TA/1-4	0.85 - 6	200 - 850	247 x 40	0.70	Hex 1/4"
133211/FN2/TA	PLUTO10CA/FN2/TA	1.5 - 10	110 - 600	268 x 40	0.70	Sq 3/8"
133211/FN2/TA/1-4	PLUTO10CA/FN2/TA/1-4	1.5 - 10	110 - 600	247 x 40	0.70	Hex 1/4"
133216/FN2/TA	PLUTO15CA/FN2/TA	2.0 - 15	60 - 320	268 x 40	0.70	Sq 3/8"
133221/FN/TA	PLUTO20CA/FN/TA	3.0 - 20	50 - 200	323 x 47	1.35	Sq 3/8"
133236/FN/TA	PLUTO 35CA/FN/TA	3.0 - 35	40 - 140	338 x 57	1.95	Sq 3/8"
133250/FN/TA	PLUTO 50CA/FN/TA	5.0 - 50	20 - 90	351 x 57	1.95	Sq 1/2"

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 kg	Dimensions mm
031000/TOP/NT/TA	EDU2AE/TOP/NT/TA	•	-	•	•	•	•	2.00	190 x 205 x 120
032000/TOP/TA	EDU2 AE/TOP/TA	-	٠	۰	٠	٠	٠	2.50	190 x 205 x 120

See page 19 for a complete list of features.

2D and 3D drawings available on kolver.it

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

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THE BENEFITS OF CURRENT-CONTROLLED SCREWDRIVERS

The MITO & PLUTO screwdriver range is the most advanced current-controlled tightening solution for torque applications up to 70 Nm. Extremely ergonomic, compact and full of functionalities, it is the right tool to boost productivity, resulting in high efficiency and cost reduction.

The MITO & PLUTO system is flexible and provides clear operator feedback. All MITO & PLUTO screwdrivers are ESD (electrostatic discharge) approved to guarantee the best quality, no matter the requirement of the surroundings.

KOLVER's Current-controlled solution means:

- High accuracy, normally better than $\pm 10\%$, Cmk always better than 1.66
- Torque and angle control and monitoring
- Ergonomic and lightweight design
- Multiple communication ports

Benefits of KOLVER's current-controlled tools:

- The best price to quality ratio
- Secure product quality
- Direct error detection and error proofing
- Reduction of missing screws and stripped joints
- Improved process control and reduced setup time
- Industry 4.0 ready

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Clutch Screwdrivers / PLUTO Series





PLUTO Clutch Screwdrivers | Torque range 0.5 – 7 Nm

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

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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.



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Clutch Screwdrivers / PLUTO Series

Inline PLUTO Clutch Screwdrivers

Code	Model	Torque Nm	RPM min-max	Dimensions mm	Wei <mark>ght kg</mark>	Output
131203/HS	PLUTO3FR/HS	0.5 - 2.8	1550 - 2400	259 x 40	0.55	Hex 1/4"
131205	PLUTO 5FR	1 - 5	600 - 1000	274 x 40	0.55	Hex 1/4"
131207	PLUTO7FR	1.5 - 7	350 - 600	274 x 40	0.55	Hex 1/4"

Pistol grip PLUTO Clutch Screwdrivers

Code	Model	Torque Nm	RPM min-max	Dimensions mm	Weight kg	Connector Option
131204/HS	PLUTO3FR/P/HS	0.5 - 2.8	1550 - 2400	158 x 224 x 45	0.55	Bottom connector
131204/U/HS	PLUTO3FR/P/U/HS	0.5 - 2.8	1550 - 2400	163 x 232 x 45	0.55	Top connector
131206	PLUTO5FR/P	1 - 5	600 - 1000	158 x 224 x 45	0.55	Bottom connector
131206/U	PLUTO5FR/P/U	1 - 5	600 - 1000	163 x 232 x 45	0.55	Top connector
131208	PLUTO7FR/P	1.5 - 7	350 - 600	158 x 224 x 45	0.55	Bottom connector
131208/U	PLUTO7FR/P/U	1.5 - 7	350 - 600	163 x 232 x 45	0.55	Top connector

Angle head PLUTO Clutch Screwdrivers

Code	Model	Torque Nm	RPM min-max	Dimensions mm	Output	Start Option
131205/A	PLUTO 5FR/ANG	1 - 5	600 - 1000	336 x 40	Hex 1/4"	Lever start
131207/A	PLUTO7FR/ANG	1.5 - 7	350 - 600	336 x 40	Hex 1/4"	Lever start

Aluminium housing PLUTO Clutch Screwdrivers

Code	Model	Torque Nm	RPM min-max	Dimensions mm	Weight kg	Output
133203/HS	PLUTO3FR/CA/HS	0.5 - 2.8	1550 - 2400	252 x 40	0.75	Hex 1/4"
133205	PLUTO5FR/CA	1 - 5	600 - 1000	252 x 40	0.75	Hex 1/4"
133207	PLUTO7FR/CA	1.5 - 7	350 - 600	252 x 40	0.75	Hex 1/4"

Aluminium housing PLUTO Clutch Screwdrivers with Flange Mount

Code	Model	Torque Nm	RPM min-max	Dimensions mm	Weight kg	Output
133205/FN	PLUTO5FR/CA/FN	1 - 5	600 - 1000	328 x 40	0.80	Hex 1/4"
133207/FN	PLUTO7FR/CA/FN	1.5 - 7	350 - 600	328 x 40	0.80	Hex 1/4"

Control unit for PLUTO Clutch Screwdrivers

ode	Model	Adjustable Speed	Ramp Option	VO Signals	Serial Print	Screw Count	Run Time	Weight kg	Dimensions mm
32000/FR E	EDU2AE/FR	٠	٠	٠	٠	٠	٠	2.40	195 x 170 x 110
32000/FR E	edu2Ae/Fr	•	•	•	٠	•	•		2.40

See page 19 for a complete list of features.

2D and 3D drawings available on kolver.it

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

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K and Mini K/S Series Torque Testers | Torque range 0.05 – 50 Nm

Controlling torque is vital for companies to ensure their product's quality. Fasteners that are insufficiently torqued can vibrate loose and excessive torque can strip threaded fasteners. Using a quality torque tester has become increasingly important for most companies to ensure that proper torque is being applied.

Mini Ke/S Series with External Transducer

The Mini Ke/S system consists of a torque readout and an external rotary transducer. By connecting a rotary torque transducer between an electric or pneumatic tool and an assembly application, you can monitor the real torque being applied from the tool to fastener or bolt.

It is possible to connect different transducers to the same torque reader by setting the proper Correction Factor (FATC).

A Mini Ke/S is the ideal torque-auditing tool for testing the actual torque being applied on the assembly application.

Mini K/S Series – Portable Torque Testers

MINI K/S Torque Testers feature a built-in transducer. These easy-to-use torque testers are ideal for checking all power tools up to 20 Nm. The small size and portability of MINI K/S make them ideal for checking torque tools on the production floor regularly to ensure the tools are always calibrated.

- Three units of torque measurement available; Nm, Kg.cm, in/lbs.
- Manual and auto reset functions to clear displayed values.
- Battery powered (9V) and AC adapter. 9V battery provides 30 hours of continuous operation.
- Automatic shut down to extend battery life.
- mini USB port for printing torque values, date and hour

• Torque Tester includes a washer-based joint simulator (miniK5/S and miniK20/S) or built in joint simulator (miniK1/S), instructions manual, certificate of calibration and a case.

K Series – Advanced Torque Testers

The K Series Torque Testers feature a built-in transducer and can also be connected to an external transducer. They collect, store and eventually download torque measures for a complete analysis of the tool and/or the joint.

Main features include:

- 500 readings memory.
- Selection among Nm, Ncm, Kg.cm, in/lbs.
- RS232C output (cable not included).
- Indication < = > of the preset values
- Output signal at preset reached value.
- Clockwise and counter-clockwise measurements.
- 3 models of operation: Peak +, Peak -, Track.
- Manual or automatic reset.

• 9 V rechargeable battery provides 4 hours of continuous operation. Automatic switch off to reduce battery consumption.

Supplied in a plastic carrying case, with one rechargeable battery, 1 joint simulator (semielastic), instructions manual and certificate of calibration.

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Torque Testers / K and Mini K/S Series

Model K Torque Testers

Code	Model	Torque range Nm	Dimensions mm	Weight kg	Joint Simulator	External Transducer	Connecting Port
020402	K1	0.05 - 1	172 x 142 x 41	1.0	Semi-Elastic M6	-	RS232C
020403	К5	0.3 - 5	172 x 142 x 41	1.0	Semi-Elastic M6	KTE5 (optional)	RS232C
020404	K20	0.5 - 20	172 x 142 x 41	1.0	Semi-Elastic M8	KTE25 (optional)	RS232C
Optional External	Transducers						
022405	KTE5	0.5 - 5	25 x 92	0.3		External Transducer for K5	
022425	KTE25	2 - 25	25 x 92	0.3		External Transducer for K20	

Model Mini K/S Torque Testers

Code	Model	Torque range Nm	Dimensions mm	Weight kg	Joint Simulator	External Transducer	Connecting Port
021402/S	Mini K1/S	0.05 - 1	150 x 70 x 45	0.80	Internal Simulator	-	mini USB
021403/S	Mini K5/S	0.3 - 5	150 x 70 x 45	0.80	Semi-Elastic M6	-	mini USB
021404/S	Mini K20/S	0.5 - 20	150 x 70 x 45	0.80	Semi-Elastic M8	-	mini USB
021405/5/S	Mini Ke5/S	0.5 - 5	150 x 70 x 45	0.50	-	KTE5 (included)	mini USB
021405/25/S	Mini Ke25/S	2 - 25	150 x 70 x 45	0.50	-	KTE25 (included)	mini USB
021405/50/S	Mini Ke50/S	5 - 50	150 x 70 x 45	0.50	-	KTE50 (included)	mini USB

Torque Analyser Software

The new Kolver Torque Analyser software for Mini K/S and Mini Ke/S Torque Testers features real-time tracking of each measurement and calculation of CM and CMK.

A Real-time chart for each torque measurement is displayed on your PC screen (when "track mode" on the tester is enabled). The chart will show the trend of the single screwing operation or, in case of multiple screwing operations it will show the results according to the settings on the torque tester and software (for example if you're keeping track of multiple operations at max torque, the chart will show the trend of these max torques). You can also export an Excel file (max 30 measurements) with corresponding CM-CMK values: this is useful for testing the torque accuracy of the screwdriver.







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Reaction Arms / LINAR, CAR and SAR Series



Torque Reaction Arms | Up to 75 Nm

Support arms manoeuvre smoothly as they absorb the torque reactions from the screwdrivers providing ergonomic support for the operator. They reduce RMI (Repetitive Motion Injury) and CTS (Carpal Tunnel Syndrome) while boosting production.

Folding and Linear Torque Reaction Arm Series

Torque folding arms have been designed to eliminate the reaction generated by screwdrivers when they stop at the pre-set torque. Options include table or wall mount.

Linear arms keep the tool perpendicular and prevent cross threading and side load. Each model extends in horizontal direction and arm length is adjustable. The fluid movement increases precision and production for a variety of torque applications.

Telescopic Carbon Arm Series

CAR series torque reaction arms eliminate the reaction that screwdrivers generate when they stop at the pre-set torque (up to 50 Nm). Their carbon structure makes them extremely lightweight and incredibly resistant at the same time. This means that they resist degradation in high fatigue applications much better than conventional materials.

Suspended Torque Arm Series

SAR Suspended Torque Arms are the ideal solution to increase productivity. They can be easily installed on most workplaces to help the operator handle the screwdriver in total safety and stability while keeping the workspace clear. With minimized reaction force you will also improve finished product quality because there is no movement of the tool and all torque is absorbed in the joint.

Three models available, depending on the motion of the axes. SAR arms are supplied without tool holder – to be purchased depending on the screwdriver used (see chart on the next page).



Support arm models



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Folding and Linear Torque Reaction Arms

Code	Model	Arm Weight kg	Max Payload kg	Min Reach mm	Max Reach mm	Max Torque Nm
010600	PA2KOL	2.5	1.5	440	640	20
010602	PA7KOL	4.2	10*	500	950	75
010603	PS7KOL	5.3	10*	300	1000	75
010681	LINAR 1	1.5	1.5	184	665	25
010682	LINAR2	1.5	1.5	184	665	50
010683	LINART	1.6	1.4	114	740	25

* Required payload is to be specified with order

Telescopic Torque Reaction Arms

Code	Model	Arm Weight kg	Max Payload kg	Min Reach mm	Max Reach mm	Max Torque Nm
010661	CAR101	0.20	2.7	549	906	10
010663	CAR281	0.60	2.7	490	950	25
010664	CAR282	0.75	2.7	730	1650	25
010665	CAR501	0.65	2.7	490	950	50
010666	CAR502	0.80	2.7	730	1650	50

Suspended Torque Arms

Code	Model	Arm Weight kg	Max Payload kg	Vertical Z Stroke mm	Horizontal X Stroke mm	Lateral Y Stroke mm	Max Torque Nm	
010690/Z/5	SAR15 Z	1.2	1.8	364	-	-	15	
010690/XZ/85	SAR15 XZ 85	1.2	1.8	364	692	-	15	
010690/XYZ/855	SAR15 XYZ 855	1.7	1.3	885	692	376	15	
Tool holders for SAR arms								
010695	Tool holder for PLUTO and F	AF series inline s	screwdrivers					
010698	Tool holder for FAB, NATO & MITO series inline screwdrivers							
010695/P	Tool holder for right angle PLUTO screwdrivers (up to 15 Nm)							
010695/UNI	Universal Tool Holder for any screwdriver (max diametre 47 mm)							

IMPORTANT: A diameter reduction adapter (code 234545) is required when LINAR and CAR arms are used with PLUTO35 or PLUTO50 screwdrivers (Ø 57 mm).

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Positioning Arms | Up to 50 Nm

TLS1 is an intelligent system that error-proofs your assembly ensuring that every screw is in the correct location at the right torque. Assembly sequences and X-Y coordinates are easily programmed with user interface screens through the keypad from the intuitive menu. Torque programs are automatically selected and enabled from the screwdriver controller based on the TLS1 Arm locations and current sequence step. No PC is required.

Main features

- 8 available programs and up to 35 screws per program.
- Screw position (length/angle) with accuracy: length ± 1 mm; angle $\pm 1^{\circ}$.
- Programmable tolerance and manual reset.
- Password protected.
- External keyboard and serial port for easy programming and statistics.

TLS1 with CAR Arm

The TLS1/CAR Arm consists of a torque reaction arm with an encoder mounted at the pivot point and with a linear metering resistor. The encoder records the angle and the linear resistor records the distance. X-Y accuracy can be set by the operator according to each application.

TLS1 with Linear Arm

TLS1/LINAR1 and TLS1/LINAR2 positioning arms work just like LINAR1 and LINAR2 with the addition of positioning sensors for a real time feedback on the position of the arm. Max torque and reach are the same as LINAR1 and LINAR2 respectively (see page 41). Adapter code 234545 is required for screwdriver model PLUTO35 and PLUTO50.

TLS1 with Folding Arm

TLS1/LINART features a folding arm for extreme flexibility and accuracy. Thanks to the positioning sensors you can have a real time feedback on the position of the arm, which is very useful for default calibrations. Max torque and reach are the same as LINART (see page 41).

TLS1 with Suspended Arm

A SAR XYZ/TLS1 is ideal for assembly stations where space is limited. It can be easily installed on most workplaces to help the operator handle the screwdriver in total safety and stability.

The TLS1 System makes each operation truly error-proof: it tracks the X-Y-Z coordinates to make sure that each screw is tightened only when the screwdriver is in correct position.

Max torque and reach are the same as SAR XYZ (see page 41).







Folding and Linear Positioning Arms

Code	Model	Max Torque Nm	Min Reach mm	Max Reach mm	Min distance between screws at max extension			
010681/TLS1	LINAR1/TLS1	25	184	665	6 mm			
010682/TLS1	LINAR2/TLS1	50	184	665	6 mm			
010683/TLS1	LINART/TLS1	25	114	740	7 mm			
Either of the following cables must be specified at time of purchase								
260003/1	Cable to connect TLS system t	o EDU1FR/SG controller						
260004/1	Cable to connect TLS system to EDU1BL/SG, EDU2AE, EDU2AE/HPro, EDU2AE/TOP or EDU2AE/TOP/TA controller							
260004/KDU	Cable to connect TLS system to KDU controller							
Either of the follo 260003/1 260004/1 260004/KDU	Cable to connect TLS system t Cable to connect TLS system t Cable to connect TLS system t	d at time of purchase to EDU1FR/SG controller to EDU1BL/SG, EDU2AE, EDU2 to KDU controller	AE/HPro, EDU2AE/TOP or EDU:	740 2AE/TOP/TA controller	, mm			

Telescopic Positioning Arms

Code	Model	Max Torque Nm	Min Reach mm	Max Reach mm	Min distance between screws at max extension			
010663/TLS1	CAR281/TLS1	25	490	950	9 mm			
010664/TLS1	CAR282/TLS1	25	730	1650	15 mm			
010665/TLS1	CAR501/TLS1	50	490	950	9 mm			
010666/TLS1	CAR502/TLS1	50	730	1650	15 mm			
Either of the follo	wing cables must be specifie	ed at time of purchase						
260003/1	Cable to connect TLS system to EDU1FR/SG controller							
260004/1	Cable to connect TLS system to EDU1BL/SG, EDU2AE, EDU2AE/HPro, EDU2AE/TOP or EDU2AE/TOP/TA controller							
260004/KDU	Cable to connect TLS system to KDU controller							

Suspended Positioning Arms

Code	Model	Max Torque Nm	Arm Weight kg	Vertical Stroke Z mm	Vertical Stroke X mm	Vertical Stroke Y mm
010690/XYZ/TLS1	SAR15 XYZ/TLS1	15	8	885	692	376
Tool holders for S	Tool holders for SAR arm					
010695	Tool holder for PLUTO and RAF series inline screwdrivers					
010698	Tool holder for FAB, NATO & MITO series inline screwdrivers					
010695/P	Tool holder for right angle PLUTO screwdrivers (up to 15 Nm)					
010695/UNI	Universal Tool Holder for any screwdriver (max diametre 47 mm)					
Either of the following cables must be specified at time of purchase						
260003/1	Cable to connect TLS system to EDU1FR/SG controller					
260004/1	Cable to connect TLS system to EDU1BL/SG, EDU2AE, EDU2AE/HPro, EDU2AE/TOP or EDU2AE/TOP/TA controller					
260004/KDU	Cable to connect TLS system to KDU controller					

IMPORTANT: A diameter reduction adapter (code 234545) is required when LINAR and CAR arms are used with PLUTO35 or PLUTO50 screwdrivers (Ø 57 mm).

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NFK Screw Feeders | Up to M5 Screws

When it comes to speeding up assembly operations, NFK screw feeders are a game changer.

These simple and small devices are meant to avoid any time loss between one tightened screw and the next. Screw feeders present one screw at a time with no need for the operator to manually pick up each screw. Models for automated applications are also available.

Fully adjustable

NFK-N screw feeders are supplied with interchangeable spacers between the rails (spacer size: 1.3 to 5.3 mm). You can also combine spacers to reach the desired rail width.

Model NFK UNI can be used with any (non-countersunk) screw with diameter $1.4-5.0\ \text{mm}.$

Speed up automated applications

NFK RS delivers one screw at a time to a specific position so that one single screw can be easily picked up when using an autocatcher or suction head (see section Accessories for further information). A trimmer on the side panel allows to adjust how fast each screw is supplied.

Available for screws with shank diametre from 1.2 mm up to 5 mm. An optional cover is available in order to avoid screws falling inside the NFK RS screw feeder.

The whole NKF Screw Feeder series can handle max. 20 mm long screws.

NFK Series Screw Suppliers for Manual Use

Code	Model	Max Shank Diametre mm
014705	NFK UNI	Any size inbetween 1.4 - 5.0
014514	NFK N14	1.4
014517	NFK N17	1.7
014520	NFK N20	2.0
014523	NFK N23	2.3
014526	NFK N26	2.6
014530	NFK N30	3.0
014540	NFK N40	4.0
014550	NFK N50	5.0

NFK Series Screw Suppliers for Automation

Code	Model	Max Shank Diametre mm
014512/RS	NFK N12/RS	1.2
014514/RS	NFK N14/RS	1.4
014517/RS	NFK N17/RS	1.7
014520/RS	NFK N20/RS	2.0
014523/RS	NFK N23/RS	2.3
014526/RS	NFK N26/RS	2.6
014530/RS	NFK N30/RS	3.0
014540/RS	NFK N40/RS	4.0
014550/RS	NFK N50/RS	5.0

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PLUTO Screwdrivers / Accessories



Accessories for PLUTO Hand-held Screwdrivers

Code	Model	Description
Riveting heads		
010180	RIV HD1	8 mm hole. Model for PLUTO3D, PLUTO6D, PLUTO10D/N, PLUTO15D/N.
010182	RIV HD3	3 mm hole. Model for PLUTO3D, PLUTO6D, PLUTO10D/N, PLUTO15D/N.
Vacuum attachments		
010111/1	A2	For non-magnetic M2-M2.6 screws. It can be installed on any screwdriver.
010111/2	A3	For non-magnetic M3-M4 screws. It can be installed on any screwdriver.
010121	ASP HD9	Rubber pad output. Best suited for round-headed screws. Model specifically designed for PLUTO3, PLUTO6, PLUTO10 and PLUTO15.
010121/UNI	ASP HD9/UNI	Metal tube output. Best suited for grub, allen and long screws. Model specifically designed for PLUTO3, PLUTO6, PLUTO10 and PLUTO15.
Autocatchers		
010113	AC 2.3	For M2-M3 screws. Easily picks up non-magnetic screws with a small plastic clamp.
010114	AC 3.5	For M3-M5 screws. Easily picks up non-magnetic screws with a small plastic clamp.
Tool holders and adaptors		
234545 Di	ametre adaptor	Reduction adaptor for PLUTO35 & 50CA drivers allowing interface with LINAR and CAR series arms
010300	TECBA1	TECBA1 tool balancers allow screwdrivers to be positioned over the workstation for maximum operator comfort. 0.4-1 kg capacity.
010312	TECBA2	TECBA2 tool balancers allow screwdrivers to be positioned over the workstation for maximum operator comfort. 1-2 kg capacity.
010313	TECBA3	TECBA3 tool balancers allow screwdrivers to be positioned over the workstation for maximum operator comfort. 2-3 kg capacity.
010500	ARM PV1	ARM PV1 support arm consists of a vertical support on which a 180° pivoting arm is attached.
Cables (to connect screwd	river to controller)	
200063	2.5 m	Standard 5 pin cable for PLUTO series – included with screwdriver
250063/N	2.5 m	Standard 8 pin cable for PLUTO /TA (Torque & Angle) series – included with screwdriver
200063/H	2.5 m	5 pin cable with strain relief for PLUTO series – heavy duty applications
250063/H	2.5 m	8 pin cable with strain relief for PLUTO /TA (Torque & Angle) series – heavy duty applications
200563	5 m	5 pin cable, 5 m length for PLUTO series
250563	5 m	8 pin cable, 5 m length for PLUTO /TA (Torque & Angle) series
200563/S	5 m	5 pin spiral cable for PLUTO series
250563/S	5 m	8 pin spiral cable for PLUTO /TA (Torque & Angle) series

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Accessories for PLUTO CA Automated Screwdrivers

Code	Model	Description
Flange mount kits		
800400	1/4" - 3/8" kit	An 1/4" - 3/8" flange mount kit turns a PLUTO (3, 6, 10 or 15) CA into PLUTO CA/FN2.
800401	3/8" - 3/8" kit	For PLUTO20. It turns a PLUTO20CA into PLUTO20CA/FN.
800403	3/8" - 3/8" kit	For PLUTO35. It turns a PLUTO35CA into PLUTO35CA/FN.
800404	1/4" - 1/4" kit	An 1/4" - 1/4" flange mount kit turns a PLUTO FR/CA clutch screwdriver into PLUTO FR/CA/FN.
UR (Universal Robe	ots®) adaptor	
010695/UR	UR-Mount	Tool holder for PLUTO3, 6, 10 & 15CA and CA/FN2 series drivers. To be attached to Universal Robots® robotic arm.
Telescopic spindles	5	
800319	1/2" - 1/2"	Model for PLUTO 50/FN. Max 50 Nm.
800320	1/4" - 3/8"	Model for PLUTO CA/FN2. Max 15 Nm.
800321	3/8" - 3/8"	Model for PLUTO20 and PLUTO35. Max 35 Nm.
800322	1/4" - 1/4"	Model for PLUTO FR/FN and MITO /FN. Max 7 Nm.
Vacuum attachme	nts	
010111/1	A2	For non-magnetic M2-M2.6 screws. It can be installed on any screwdriver.
010111/2	A3	For non-magnetic M3-M4 screws. It can be installed on any screwdriver.
010121	ASP HD9	Rubber pad output. Best suited for round-headed screws. Model specifically designed for PLUTO3, PLUTO6, PLUTO10 and PLUTO15.
010121/UNI	ASP HD9/UNI	Metal tube output. Best suited for grub, allen and long screws. Model specifically designed for PLUTO3, PLUTO6, PLUTO10 and PLUTO15.
Autocatchers		
010113	AC 2.3	For M2-M3 screws. Easily picks up non-magnetic screws with a small plastic clamp.
010114	AC 3.5	For M3-M5 screws. Easily picks up non-magnetic screws with a small plastic clamp.
Cables (to connect	screwdriver to controller)	
200063	2.5 m	Standard 5 pin cable for PLUTO CA series – included with screwdriver
250063/N	2.5 m	Standard 8 pin cable for PLUTO CA/TA (Torque & Angle) series – included with screwdriver
200063/H	2.5 m	5 pin cable with strain relief for PLUTO CA series – heavy duty applications
250063/H	2.5 m	8 pin cable with strain relief for PLUTO CA/TA (Torque & Angle) series – heavy duty applications
200563	5 m	5 pin cable, 5 m length for PLUTO CA series
250563	5 m	8 pin cable, 5 m length for PLUTO CA/TA (Torque & Angle) series
200563/S	5 m	5 pin spiral cable for PLUTO CAseries
250563/5	5 m	8 pin spiral cable for PLUTO CA/TA (Torque & Angle) series









NATO & MITO Screwdrivers / Accessories



Code	Model	Description		
Flange mount kit				
800406	1/4" - 1/4" kit for 04-15	An 1/4" - 1/4" flange mount kit turns a MITO CA screwdriver into MITO CA/FN.		
Telescopic spindle	2			
800322	1/4" - 1/4"	Model for MITO /FN. Max 7 Nm.		
Vacuum attachm	ents			
010111/1	A2	For non-magnetic M2-M2.6 screws. It can be installed on any screwdriver.		
010111/2	A3	For non-magnetic M3-M4 screws. It can be installed on any screwdriver.		
010117	ASP HD6	Rubber pad output. Best suited for round-headed screws. Model specifically designed for NATO15.		
010117/UNI	ASP HD6/UNI	Metal tube output. Best suited for grub, allen and long screws. Model specifically designed for NATO15.		
010118	ASP HD7	Rubber pad output. Best suited for round-headed screws. Model specifically designed for NATO50.		
010118/UNI	ASP HD7/UNI	Metal tube output. Best suited for grub, allen and long screws. Model specifically designed for NATO50.		
010119	ASP HD8	Rubber pad output. Best suited for round-headed screws. Model specifically designed for MITO15.		
010119/UNI	ASP HD8/UNI	Metal tube output. Best suited for grub, allen and long screws. Model specifically designed for MITO15.		
Autocatchers				
010113	AC 2.3	For M2-M3 screws. Easily picks up non-magnetic screws with a small plastic clamp.		
010114	AC 3.5	For M3-M5 screws. Easily picks up non-magnetic screws with a small plastic clamp.		
Cables (to connect screwdriver to controller)				
200063	2.5 m	Standard 5 pin cable for NATO and MITO series - included with screwdriver		
250063/N	2.5 m	Standard 8 pin cable for NATO and MITO /TA (Torque & Angle) series – included with screwdriver		
200063/H	2.5 m	5 pin cable with strain relief for NATO and MITO series – heavy duty applications		
250063/H	2.5 m	8 pin cable with strain relief for NATO and MITO /TA (Torque & Angle) series – heavy duty applications		
200563	5 m	5 pin cable, 5 m length for NATO and MITO series		
250563	5 m	8 pin cable, 5 m length for NATO and MITO /TA (Torque & Angle) series		
200563/S	5 m	5 pin spiral cable for NATO and MITO series		
250563/S	5 m	8 pin spiral cable for NATO and MITO /TA (Torque & Angle) series		

Accessories for NATO and MITO Screwdrivers

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Accessories for EDU2AE series controllers (PLUTO Screwdrivers)

Code	Model	Description		
Program selection -	Program selection – To be used with EDU2AE/TOP, EDU2AE/TOP/E or EDU2AE/TOP/TA (multiprogram controllers).			
020033	SWBX88 Switchbox	Select the right pre-set program by simply pushing a button. 8-program selection.		
020042	CBS880 Socket tray	When a bit or socket is removed from the tray, the control unit automatically selects the pre-set program. 8-program selection.		
020050	BRCR90 Barcode reader	Multiprogram units can also be controlled via a barcode scanner. Scan the right barcode to select the correct pre-set program.		
Dual output connec	tor			
020045	DOCK 04	Dual output connector for PLUTO Series, to be used with EDU2AE/TOP. Run two drivers with one controller (not simultaneously).		
020045/TA	DOCK 04/TA	Dual output connector for PLUTO TA Series, to be used with EDU2AE/TOP/TA. Run two drivers with one controller (not simultaneously).		
Remote start and re	verse			
020070	Start / Reverse pedals	Start and reverse signals can be activated using a foot pedal. Supplied standard with 3.5 m cable and connector for any EDU2AE controller.		
Data printer				
020026	PRNTR1 Serial printer	Instantly print each screw tightening result via a serial printer. It connects directly to multiprogram units and K and Mini K/S torque testers.		
Computer connection				
020075	Ethernet device	Connect your PC to any EDU2AE/TOP, EDU2AE/TOP/E or EDU2AE/TOP/TA via remote LAN connection using an ethernet device.		
Visual signals				
020080	Light tower stack	A light stack makes output signals clearly visible. Supplied standard with 2.5 cable and 10 pin connector for EDU2AE series.		

Accessories for EDU1FR series controllers (FAB & RAF Screwdrivers)

Code	Model	Description
Dual output connector		
020020	DOCK 01	Dual output connector for EDU1FR controllers. Run two drivers with one controller. Drivers cannot be used at the same time.
Screw counting device		
020021	ACE	Screw counting device for EDU1FR/SG controller. It keeps track of either correct and wrong tightenings, as well as cycles and sequences.

Accessories for EDU1BL series controllers (KBL Screwdrivers)

ACF

Code	Model	Description
Dual output connector		
020035	DOCK 02	Dual output connector for EDU1BL controllers. Run two drivers with one controller. Both drivers can be used at the same time.
020035/S	DOCK 02/S	Dual output connector for EDU1BL/SG controllers. Run two drivers with one controller. Both drivers can be used at the same time.

Screw counting device

020022

Screw counting device for EDU1BL/SG controller. It keeps track of either correct and wrong tightenings, as well as cycles and sequences.









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