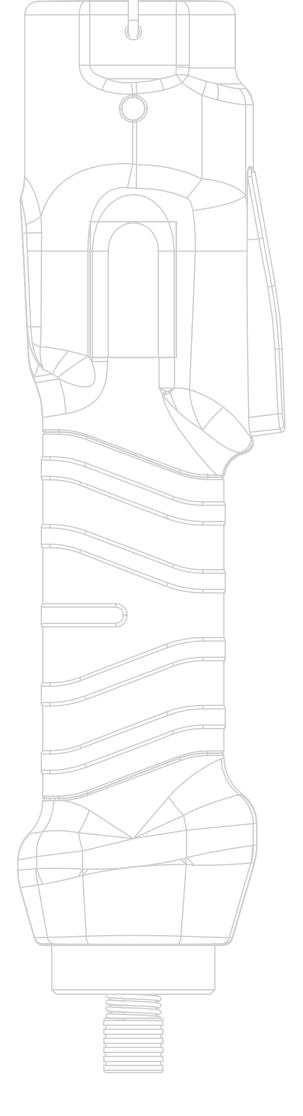
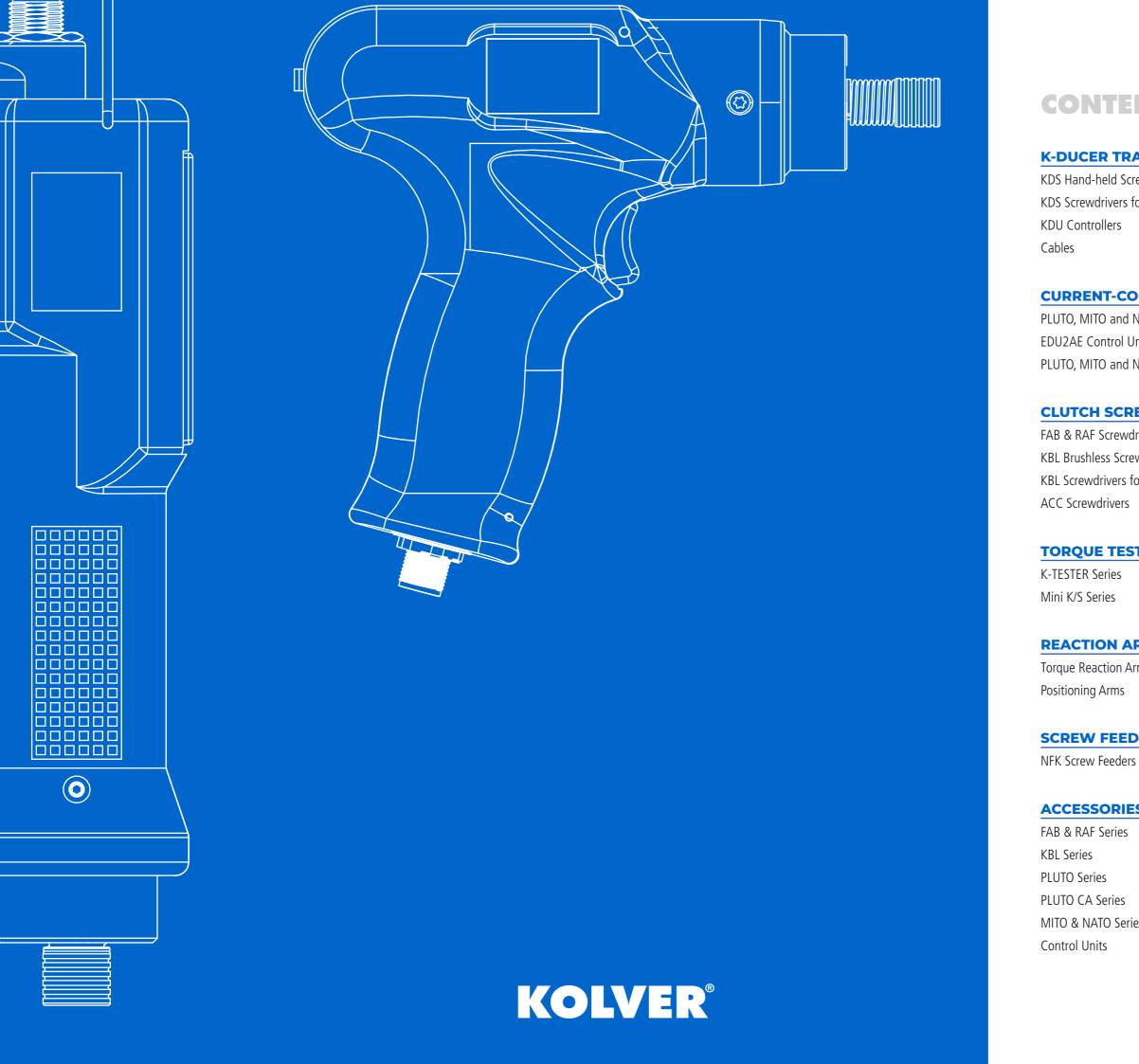
Precision Screw Tightening



ELECTRIC SCREWDRIVERS Catalogue







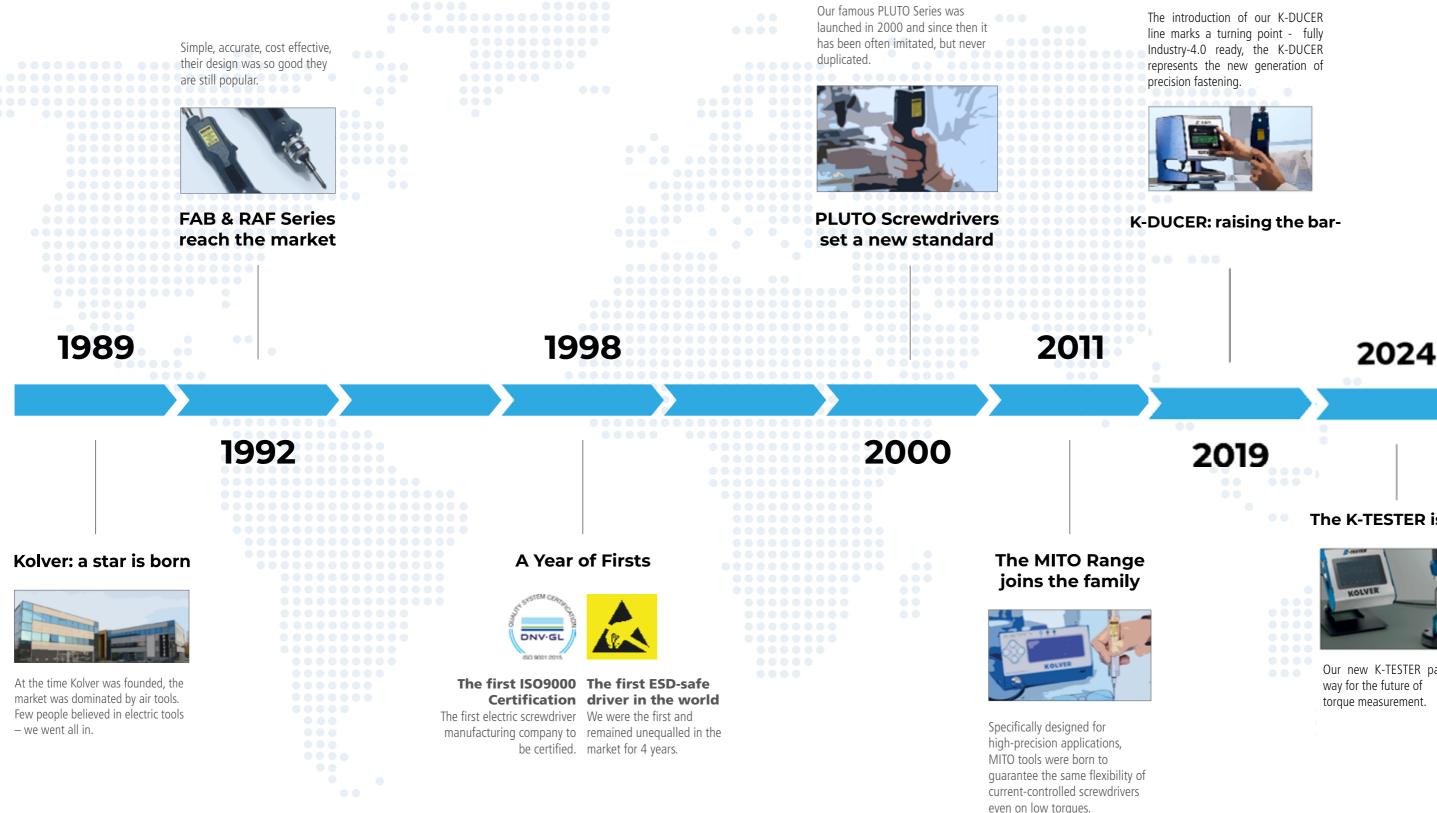
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KOLVER® is a global leader in the market of industrial electric screwdrivers. Founded in 1989, KOLVER® has built a reputation for providing top-notch products alongside exceptional customer support. Thousands of state-of-the-art drivers are produced every year at our production hub in Italy and then shipped to over 50 countries worldwide. Product innovation, a strong commitment to sustainability and well-being, and fast and reliable service have been the keys to KOLVER's success.





The K-TESTER is here

Our new K-TESTER paves the



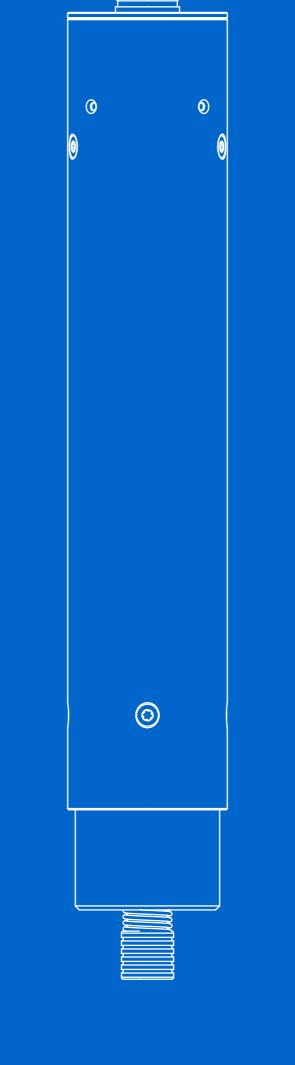
KOLVER®: MORE QUALITY THAN YOU MAY EVER NEED

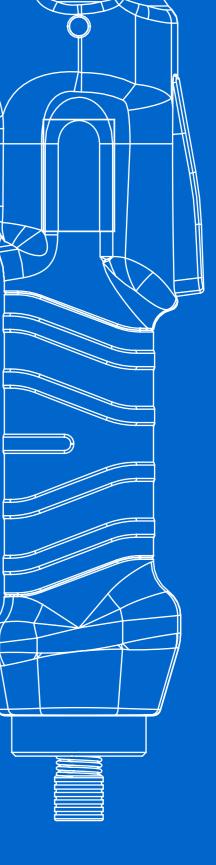
You've got an assembly job to do, and there are a lot of people counting on you to get it done right. At KOLVER[®], we know what you are looking for. We deliver the most innovative and cost-effective electric fastening systems in the industry and that's why our tools have countless happy users and... pale imitators worldwide!

KOLVER[®] solutions represent the true answer to your assembly needs. ISO 9001 certified since 1998, Kolver's mission has always been to fulfill customers' expectations, delivering the right quality products at the right time, at the right price.

About 50% of the products in our catalogue have been launched or upgraded during the last 3 years. Clutch tools, current-control tools, transducerized tools: inline, pistol, angle and fixtured, along with controllers and software in an outstanding combination of ergonomics, performance, error proofing and durability. Kolver[®] range helps you maximize your productivity and stay ahead of your competition.

SERIES	CLUTCH TOOLS	TORQUE & ANGLE CURRENT CONTROL	TORQUE & ANGLE TRANSDUCERIZED	TORQUE RANGE Nm	TORQUE RANGE in.lbs
FAB	۰			0.05-1.8	0.44-15.9
RAF	•			0.7-5.0	6.2-44.25
KBL	•			0.04-4.0	0.35-35.4
ACC	۰			0.2-4.5	1.77-39.8
NATO		•		0.01-0.5	0.09-4.4
MITO		•		0.2-1.5	1.8-13.3
PLUTO		•		0.5-75	4.4-664
KDS			٠	0.05-70	0.44-620





TRANSDUCERIZED SCREWDRIVERS



Hand-held Transducerized Screwdrivers / K-DUCER Series



KDS Hand-held Screwdrivers | Torque range 0.05 – 70 Nm

The K-DUCER is our A-class intelligent transducerized assembly system. The system consists of an advanced state-of-the-art controller and a range of handheld and fixtured electric screwdrivers with torque up to 70 Nm.

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 torque transducer provides closed-loop 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 (see page 10 for further information).

Connectivity and Industry 4.0

KDS tools are the ideal solution for your Industry 4.0 production line. Integrating the K-Ducer in your smart factory will be effortless, thanks to the built-in Modbus TCP and Open Protocol connectivity. Built-in LED lights provide 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.

Available Housings



INLINE (KDS-PL/ESD) – Inline versions available in lever start. ESD-safe. KDS inline screwdrivers can also be supplied with built-in LED lights (KDS-PL /LED/ESD), which light up the area underneath while in use



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



ALUMINIUM HOUSING (KDS-PL) For torques over 20 Nm, with start and reverse buttons

ANGLE MODELS (KDS-PL ANG/ESD) Inline models with angle head attached. ESD-safe.



Inline KDS Screwdrivers

Code	Model	Torque Nm	RPM min-max	Dimensions mm	Weight kg	Bit Drive
165050	KDS-NT70	0.05 - 0.7	20 - 700	223 x 27	0.3	Hex 1/4"
165050/HM	KDS-NT70/HM	0.05 - 0.7	20 - 700	223 x 27	0.3	Half moon 4 mm
175015/ESD	KDS-MT1.5/ESD	0.1 - 1.5	50 - 850	254 x 40	0.7	Hex 1/4"
135006/ESD	KDS-PL6/ESD	0.5 - 6	50 - 850	251 x 40	0.7	Hex 1/4"
135010/ESD	KDS-PL10/ESD	0.8 - 10	50 - 600	251 x 40	0.7	Hex 1/4"
135015/ESD	KDS-PL15/ESD	0.5 - 15	50 - 320	251 x 40	0.7	Hex 1/4"
135020	KDS-PL20	2 - 20	20 - 210	297 x 43	1.3	Sq 3/8″
135035	KDS-PL35	3 - 35	20 - 140	318 x 43	1.8	Sq 3/8″
135050	KDS-PL50	5 - 50	20 - 90	322 x 43	1.8	Sq 1/2″

Inline KDS Screwdrivers with front LED lights

Code	Model	Torque Nm	RPM min-max	Dimensions mm	Weight kg	Bit Drive
175015/LED/ESD	KDS-MT1.5/LED/ESD	0.1 - 1.5	50 - 850	254 x 40	0.7	Hex 1/4"
135006/LED/ESD	KDS-PL6/LED/ESD	0.5 - 6	50 - 850	251 x 40	0.7	Hex 1/4"
135010/LED/ESD	KDS-PL10/LED/ESD	0.8 - 10	50 - 600	251 x 40	0.7	Hex 1/4"
135015/LED/ESD	KDS-PL15/LED/ESD	0.5 - 15	50 - 320	251 x 40	0.7	Hex 1/4"

Pistol grip KDS Screwdrivers with bottom connector

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"

Pistol grip KDS Screwdrivers with top connector

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

Angle head KDS Screwdrivers

Code	Model	Torque Nm	RPM min-max	Dimensions mm	Weight kg	Bit Drive
175015/A/ESD	KDS-MT1.5ANG/ESD	0.1 - 1.5	50 - 850	288 x 40	0.7	Hex 1/4"
135006/A/ESD	KDS-PL6/ANG/ESD	0.5 - 5.5	50 - 850	288 x 40	0.7	Hex 1/4"
135010/A/ESD	KDS-PL10/ANG/ESD	0.8 - 9	50 - 600	288 x 40	0.7	Hex 1/4"
135015/A	KDS-PL15/ANG	0.5 - 15	50 - 320	326 x 40	0.9	Sq 3/8″
135015/A/1-4/ESD	KDS-PL15/ANG/1-4/ESD	0.5 - 15	50 - 320	326 x 40	0.9	Hex 1/4"
135030/A	KDS-PL30ANG	3 - 30	20 - 140	429 x 43	2.1	Sq 3/8″
135045/A	KDS-PL45ANG	4 - 45	20 - 90	450 x 43	2.8	Sq 1/2″
135070/A	KDS-PL70ANG	7 - 70	10 - 50	453 x 43	2.8	Sq 1/2"

2D and 3D drawings available on kolver.com // IMPORTANT: Continuous use over 80% of torque range is not recommended. KDS Screwdrivers work in combination with KDU series controllers. See page 12 for further information. All KDS Screwdrivers

Hand-held Transducerized Screwdrivers / K-DUCER Series



Code

165150

175115

135106

135110

135115

135120

135135

135150

165150/HM

Aluminium housing KDS Screwdrivers

Model

KDS-NT70CA

KDS-NT70CA/HM

KDS-MT1.5CA

KDS-PL6CA

KDS-PL10CA

KDS-PL15CA

KDS-PL20CA

KDS-PL35CA

KDS-PL50CA

Torque Nm

0.05 - 0.7

0.05 - 0.7

0.1 - 1.5

0.5 - 6

0.8 - 10

0.5 - 15

2 - 20

3 - 35

5 - 50

Fixture Mount Transducerized Screwdrivers / K-DUCER Series





KDS Screwdrivers for Automation | Torque range 0.05 – 50 Nm

The KDS CA screwdrivers are part of the K-DUCER series for automated applications. They are the ideal solution for assembly lines with robots or any other machine requiring Industry 4.0 standards. The torque range covers 0.1 - 50 Nm.

Excellent precision and accuracy

KDS transducerized screwdrivers are designed to ensure a high-quality torque and angle-controlled tightening experience. The built-in transducer and torque-angle feature guarantee maximum precision and accuracy.

Perfect for automatic machines

KDS CA transducerized screwdrivers are very easy to install on robots, automatic machines and autofeeding systems. KDS CA/FN models are supplied with flange and telescopic spindle specifically designed for demanding applications. Models with 90° angle heads for hard-to-reach screws are also available.

Designed for Industry 4.0

The K-Ducer series screwdrivers guarantee total traceability, according to Industry 4.0 standards. Their built-in LED signals provide immediate feedback on each tightening process.

KDS screwdrivers work in combination with KDU control units to collect and analyse detailed assembly information. Integrating the K-Ducer in your smart factory will be effortless, thanks to the built-in Modbus TCP and Open Protocol connectivity.

The built-in transducer continuously reads torque and screw position and sends the collected data to the KDU control unit for analysis (more information on KDU features on page 12).





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







ANGLE MODELS (KDS-PL CA/ANG) Models for automation, with angle head attached for hard-to-reach screws



ALUMINIUM BODY WITH FLANGE MOUNT (KDS-PL CA/FN) – Ideal for automated high



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	Hex 1/4"
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″
135120/FN	KDS-PL20CA/FN	2 - 20	20 - 210	383 x 48	1.6	Sq 3/8″
135135/FN	KDS-PL35CA/FN	3 - 35	20 - 140	409 x 57	2.1	Sq 3/8″
135150/FN	KDS-PL50CA/FN	5 - 50	20 - 90	420 x 43	2.3	Sq 1/2"

RPM min-ma

20 - 700

20 - 700

50 - 850

50 - 850

50 - 600

50 - 320

20 - 210

20 - 140

20 - 90

Aluminium housing KDS Screwdrivers with angle head

Code	Model	Torque Nm	RPM min-max	Dimensions mm	Weight kg	Bit Drive
135106/A	KDS-PL6CA/ANG	0.5 - 5.5	50 - 850	280 x 40	0.7	Hex 1/4"
135110/A	KDS-PL10CA/ANG	0.8 - 9	50 - 600	280 x 40	0.7	Hex 1/4"
135115/A	KDS-PL15CA/ANG	0.5 - 15	50 - 320	280 x 40	0.9	Hex 1/4"

2D and 3D drawings available on kolver.com // IMPORTANT: Continuous use over 80% of torque range is not recommended. KDS Screwdrivers work in combination with KDU series controllers. See page 12 for further information.

Fixture Mount Transducerized Screwdrivers / K-DUCER Series

ax	Dimensions mm	Weight kg	Bit Drive
	221 x 27	0.3	Hex 1/4"
	221 x 27	0.3	Half moon 4 mm
	237 x 40	0.9	Hex 1/4"
	248 x 40	0.9	Hex 1/4"
	248 x 40	0.9	Hex 1/4"
	248 x 40	0.9	Hex 1/4"
	297 x 48	1.3	Sq 3/8″
	318 x 57	1.8	Sq 3/8″
	322 x 57	1.8	Sq 1/2″



Controllers for Transducerized Screwdrivers / K-DUCER Series





KDU Controllers | K-Ducer Power Units

The KDU 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-1A and KDU-NT units provide unmatched performance and value.

KDU controllers will operate all KDS series of tools.

Easy to use

Set-up and operation are really an easy task. Units may be programmed either through the touch screen or via our free K-Expand PC software, which also features data acquisition and statistical process control functionality.

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.

KDU-1A advanced controllers feature Modbus TCP and Open Protocol connectivity through a built-in ethernet port. Most other industrial communication protocols are also available with the support of external modules.

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.

KDU control units

Code	Model	Description	Weight kg	Dimensions mm
035001/A	KDU-1A	For KDS (non-NT)	2.5	190 x 205 x 120
033001	KDU-NT	For KDS-NT	1.5	184 x 169 x 69

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.



Supports for KDU control units

Code Model

Code	Wodel	Description
010401	Wall mount tilting bracket	For wall or column use
010402	Pivoting table stand	For table use, tiltable

KDU-Features For any KDS screwdrive 5" Touch Screen . 200 Programs 24 Sequences **Digital Inputs** 20 **Digital Outputs** 21 Torque & angle control . **Real-time Torque graph** . Bar code reading, linear and 2D . Multiple parameters . **Prevailing Torque Monitoring & Compensation** . Mini USB **USB Data Collection** . Modbus TCP Open Protocol . RS 232 (2) . **Industrial Protocols Support**

KOLVER® EXCLUSIVE

Kolver's unique DOCK05 (code 020046) makes it possible to use two KDS screwdrivers with just one KDU-1A control unit – this means you can cut costs dramatically by purchasing one control unit instead of two.

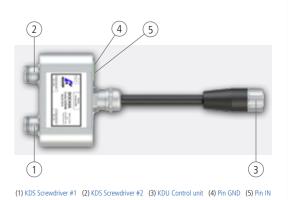
the best solution to maximize productivity at the lowest possible cost.

- Unique product the first ever double output connector for transducerized tools in the market.
- Cut K-Ducer purchase costs by 40%.
- Fully compatible with KDU-1A get the most out of your K-Ducer system.
- Instant tool recognition.
 - Assign any KDU program or sequence to either screwdriver.

Controllers for Transducerized Screwdrivers / K-DUCER Series

-1A er (except for KDS-NT)	KDU-NT For KDS-NT screwdrivers	
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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. Three different lengths (2.5, 5 and 7 m) are available to meet any production requirement.

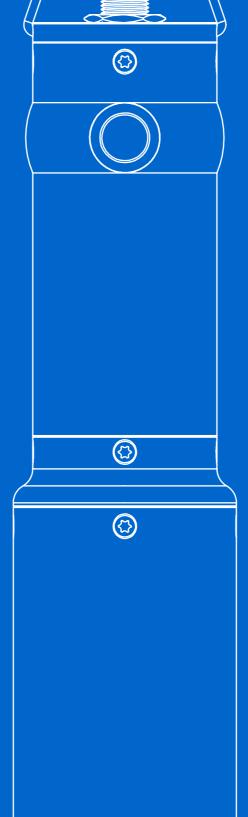




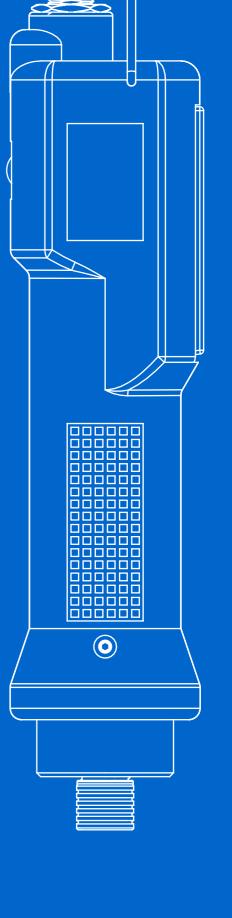
Unit connector (KDU view)

Cables to connect KDS screwdrivers to KDU units

Code	Model	Description
250363	Cable 2.5 m for KDS-NT	M12 8pin 2.5 m
250363/S	Cable 5 m for KDS-NT	M12 8pin 5 m
250064	Cable 2.5 m	M16 10pin 2.5 m
250064/H	Cable 2.5 m, heavy duty	M16 10pin 2.5 m
250064/A	Cable 2.5 m, 90°, 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
250564/A	Cable 5 m, 90°, heavy duty	M16 10pin 5 m
250564/HS	Cable 5 m, spiral, heavy duty	M16 10pin 5 m
250764	Cable 7 m, heavy duty	M16 10pin 7 m







CURRENT-CONTROLLED SCREWDRIVERS

Current-Controlled Screwdrivers / PLUTO, MITO and NATO Series

THE BENEFITS OF **CURRENT-CONTROLLED SCREWDRIVERS**

The PLUTO, MITO & NATO screwdriver family is the most advanced current-controlled tightening solution for torgue applications up to 70 Nm and as low as 0.02 Nm. Extremely ergonomic, compact and full of functionalities, it is the right tool to boost productivity, resulting in high efficiency and cost reduction. Our current-controlled system is flexible and provides clear operator feedback. All PLUTO, MITO & NATO screwdrivers are ESD (electrostatic discharge) approved to guarantee the best guality, 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 & angle control and monitoring
- Ergonomic and lightweight design
- Multiple communication ports

Benefits of KOLVER's current-controlled tools:

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



PLUTO, MITO and NATO | Torque range 0.02 – 70 Nm

Our PLUTO, MITO and NATO screwdrivers offer high-precision at a competitive price, witha repeatability of +/-5%. Pick the one that best suits your application among the many current-controlled models ranging in torque from 0.02 Nm all the way up to 70 Nm.

Extremely versatile

Our PLUTO[®] Series screwdrivers feature a wide torque range: starting at 0.5 Nm with PLUTO3, they reach up to 70 Nm 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 1.5 Nm. MITO tools operate within a torque range of 0.4 – 1.5 Nm, while NATO

screwdrivers are designed for an even lower torgue range of 0.01 – 0.7 Nm.

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 & 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).



ALUMINIUM BODY (PLUTO CA/SR, MITO CA and NATO CA) – PLUTO with start and reverse buttons. MITO and NATO they can also be used with foot pedals for manual operations. MITO also available with flange

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



Hand-held Screwdrivers / PLUTO, MITO and NATO Series



Inline Screwdrivers

Code	Model	Torque Nm	RPM min-max	Dimensions mm	Weight kg	Bit Drive
170015	MITO15D	0.4 - 1.5	450 - 850	216 x 33	0.35	Hex 1/4''
130203	PLUTO3D	0.5 - 2.5	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 Screwdrivers

Code	Model	Torque Nm	RPM min-max	RPM min-max Dimensions mm		Connector Option
170014	MITO15P	0.4 - 1.5	450 - 850	159 x 195 x 45	0.50	Bottom connector
170014/U	MITO15P/U	0.4 - 1.5	450 - 850	159 x 195 x 45	0.50	Top connector
130204	PLUTO3P	0.5 - 2.5	370 - 1300	370 - 1300 159 x 174 x 45 0.55		Bottom connector
130205	PLUTO3P/U	0.5 - 2.5	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	110 - 600 163 x 174 x 45		Top connector
130215/N	PLUTO15P/N	2.0 - 15	60 - 320	60 - 320 159 x 174 x 45		Bottom connector
130215/U/N	PLUTO15P/U/N	2.0 - 15	60 - 320	- 320 163 x 174 x 45 0.55		Top connector

Aluminium body Screwdrivers

Code	Model	Torque Nm	jue Nm RPM min-max D		Weight kg	Bit Drive
170016	MITO15CA	0.4 - 1.5	450 - 850	193 x 32	0.36	Hex 1/4"
170016/FN	MITO15CA/FN	0.4 - 1.5	450 - 850	271 x 33	0.4	Hex 1/4"
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	PLUTO8ANG	1.5 - 8	110 - 600	261 x 40	Hex 1/4"	Lever start
130216/A	PLUTO15ANG	2.0 - 13	100 - 320	286 x 40	Sq 3/8″	Lever start
133220	PLUTO20ANG	3.0 - 18	60 - 200	433 x 54	Sq 3/8″	Start/Reverse Buttons
133231	PLUTO30ANG	6.0 - 30	30 - 130	435 x 47	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

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

See page 21 for a complete list of features.

2D and 3D drawings available on kolver.com

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

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 - 0.7	50 - 700	210 x 33	0.25	Hex 1/4"
170015/TA	MITO15D/TA	0.4 - 1.5	450 - 850	450 - 850 216 x 33 0.35		Hex 1/4"
134203/TA	PLUTO3D/TA	0.5 - 2.5	370 - 1300	251 x 40	0.55	Hex 1/4"
134206/TA	PLUTO6D/TA	0.85 - 6	200 - 850	251 x 40	0.55	Hex 1/4"
134211/TA	PLUTO10D/TA	1.5 - 10	110 - 600	251 x 40	0.55	Hex 1/4"
134216/TA	PLUTO15D/TA	2.0 - 15	60 - 320	251 x 40	0.55	Hex 1/4"
Models with LED li	ght ring					
134203/TA/LED	PLUTO3D/TA/LED	0.5 - 2.5	370 - 1300	226 x 40	0.55	Hex 1/4"
134206/TA/LED	PLUTO6D/TA/LED	0.85 - 6	200 - 850	226 x 40	0.55	Hex 1/4"
134211/TA/LED	PLUTO10D/TA/LED	1.5 - 10	110 - 600	226 x 40	0.55	Hex 1/4"
134216/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 - 2.5	370 - 1300	159 x 174 x 45	0.55	Bottom connector
130205/TA	PLUTO3P/U/TA	0.5 - 2.5	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	0.60	Bottom connector
130215/U/TA	PLUTO15P/U/TA	2.0 - 15	60 - 320	163 x 174 x 45	0.60	Top connector

Aluminium body 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 - 0.7	50 - 700	150 x 25	0.18	Hex 1/4"
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	20 - 90 252 x 57		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
034000/HPRO/TA	EDU2AE/HPRO/TA	-	٠	•	-	-	•	2.40	195 x 170 x 110
031000/TOP/NT/TA	EDU2AE/TOP/NT/TA	٠	-	٠	•	٠	٠	2.00	190 x 205 x 120
034000/TOP/TA	EDU2AE/TOP/TA	-	٠	٠	•	٠	٠	2.50	190 x 205 x 120

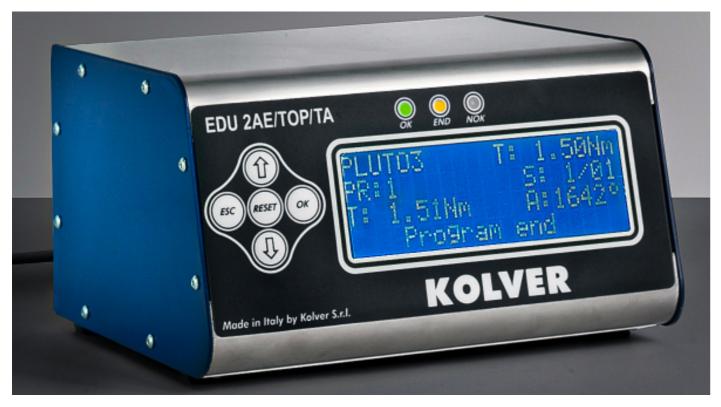
See page 21 for a complete list of features.

2D and 3D drawings available on kolver.com

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

Torque & Angle Screwdrivers / PLUTO, MITO and NATO Series





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 torgue 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, 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					
EDU2AE/HPRO EDU2AE/TOP/E	Hand-held MITO D MITO P PLUTO D, D/N	Automation MITO CA MITO CA/FN PLUTO CA				
	PLUTO D, D/N PLUTO P/U, P/U/N PLUTO CA/SR PLUTO ANG PLUTO ANG/SR	PLUTO CA/FN				
EDU2AE/TOP/TA	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				
EDU2AE/TOP/NT/TA	Hand-held	Automation				
	NATO D/TA	NATO CA/TA				

(

Features	EDU2AE/HPRO	EDU2AE/TOP/E	EDU2AE/HPRO/TA	EDU2AE/TOP/TA	EDU2AE/TOP/NT/TA
Torque & Angle			٠	٠	٠
Multiple Programs and Sequences		٥		٠	0
Time, Ramp & Speed settings	٠	٠	٠	٠	٥
Settable loosening speed & torque	٠	٠	٠	٠	0
Prevailing torque	•	٠	٠	٠	٥
Clockwise/anticlock- wise tightening	٠	٥	٠	٠	٥
Password protection	٠	٠	٠	٠	٠
Calibration	٠	٥	۰	٠	0
Nm - lb/in - Kgf.cm selection	٠	۰	٠	٠	0
Screw count	٠	٠	٠	٠	0
Auto and pre reverse	•	٠	٠	٠	٥
End cycle signal	٠	٠	•	٠	٠
Screw, Program & Sequence reset		٥		٠	٠
Lever error	•	٠	٠	٠	٠
Enable/Disable loosening		0		٠	٥
Barcode	٠	٥	۰	٠	٠
Serial print	٠	٥	۰	٠	0
Error, motor on and correct screw signals	٠	٠	٠	٠	0
Optional back driver connector	•		٠		
Use with DOCK04 double connector		٠		٠	٠
Use with PRNTR1 serial printer	•	•	•	٠	٠
Printing options for each program		٠		•	•
Use with TLS1	٠	٠	•	٠	٠
PC programming (EDU EXPAND)		٥		٠	٥
USB data collection		٠		٠	٠

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







Current-controlled Screwdrivers for Automation | Torque range 0.02 – 50 Nm

Kolver's 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.

Perfect for automatic machines

Our CA screwdrivers are supplied in an aluminium body for a quick and easy integration with automatic machines and screwfeeding systems. PLUTO and MITO tools in CA/FN version are equipped with a flange mount and reciprocating spindle for high volume/high duty applications.

Robotic applications

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

The Torque/Angle Models

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.

Plenty of options

PLUTO, MITO and NATO automated torque & angle screwdrivers cover a wide torgue 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.

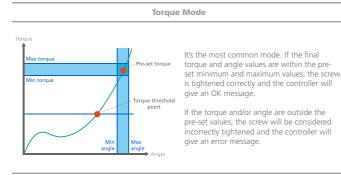
Industry 4.0

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

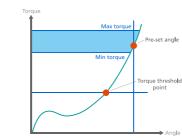
Simply connect the screwdriver controller to your PLC, robot or machine through the proper connectors to manage input/output signals such as start, stop, error and more.

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

Torque and Angle Functionality



Angle Mode



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

This mode gives priority to the angle to be

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.





Fixture Mount Screwdrivers / PLUTO, MITO and NATO Series

Aluminium housing Screwdrivers

		RPM min-max	Dimensions mm	Weight kg	Bit Drive
PLUTO3CA	0.5 - 2.5	370 - 1300	168 x 40	0.50	Hex 1/4"
PLUTO6CA	0.85 - 6	200 - 850	168 x 40	0.50	Hex 1/4"
PLUTO10CA/N	1.5 - 10	110 - 600	168 x 40	0.50	Hex 1/4"
PLUTO15CA/N	2.0 - 15	60 - 320	168 x 40	0.50	Hex 1/4"
PLUTO20CA	3.0 - 20	50 - 200	232 x 47	1.10	Sq 3/8″
PLUTO35CA	3.0 - 35	40 - 140	247 x 57	1.50	Sq 3/8″
PLUTO50CA	5.0 - 50	20 - 90	252 x 57	1.50	Sq 1/2″
	PLUTO6CA PLUTO10CA/N PLUTO15CA/N PLUTO20CA PLUTO35CA	PLUTO6CA 0.85 - 6 PLUTO10CAN 1.5 - 10 PLUTO15CAN 2.0 - 15 PLUTO20CA 3.0 - 20 PLUTO35CA 3.0 - 35	PLUTO6CA 0.85 - 6 200 - 850 PLUTO10CA/N 1.5 - 10 110 - 600 PLUTO15CA/N 2.0 - 15 60 - 320 PLUTO20CA 3.0 - 20 50 - 200 PLUTO35CA 3.0 - 35 40 - 140	PLUTO6CA 0.85 - 6 200 - 850 168 x 40 PLUTO10CA/N 1.5 - 10 110 - 600 168 x 40 PLUTO15CA/N 2.0 - 15 60 - 320 168 x 40 PLUTO20CA 3.0 - 20 50 - 200 232 x 47 PLUTO35CA 3.0 - 35 40 - 140 247 x 57	PLUTO6CA 0.85 - 6 200 - 850 168 x 40 0.50 PLUTO10CA/N 1.5 - 10 110 - 600 168 x 40 0.50 PLUTO15CA/N 2.0 - 15 60 - 320 168 x 40 0.50 PLUTO20CA 3.0 - 20 50 - 200 232 x 47 1.10 PLUT035CA 3.0 - 35 40 - 140 247 x 57 1.50

Aluminium housing Screwdrivers with flange mount

Code	Model	Torque Nm	RPM min-max	Dimensions mm	Weight kg	Bit Drive
130303/FN2	PLUTO3CA/FN2	0.5 - 2.5	370 - 1300	268 x 40	0.70	Sq 3/8″
130303/FN2/1-4	PLUTO3CA/FN2/1-4	0.5 - 2.5	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 "

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 - 0.7	50 - 700	150 x 25	0.18	Hex 1/4"
170016/TA	MITO15CA/TA	0.4 - 1.5	450 - 850	193 x 32	0.36	Hex 1/4"
130303/TA	PLUTO3CA/TA	0.5 - 2.5	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 mir	n-max	Dimensi	ions mm	Weight kg	Bit Drive
170016/FN/TA	MITO15CA/FN/TA	0.4 - 1	.4 - 1.5 450 - 850 271 x 32		x 32	0.40	Hex 1/4"		
130303/FN2/TA	PLUTO3CA/FN2/TA	0.5 - 2	2.5	370 - 1	300	268	x 40	0.70	Sq 3/8″
130303/FN2/TA/1-4	PLUTO3CA/FN2/TA/1-4	0.5 - 2	2.5	370 - 1	300	247	x 40	0.70	Hex 1/4"
133206/FN2/TA	PLUTO6CA/FN2/TA	0.85 -	- 6	200 - 8	350	268	x 40	0.70	Sq 3/8″
133206/FN2/TA/1-4	PLUTO6CA/FN2/TA/1-4	0.85 -	- 6	200 - 8	350	247 x 40		0.70	Hex 1/4"
133211/FN2/TA	PLUTO10CA/FN2/TA	1.5 - 10		110 - 600 268 x 40		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		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 - 2	20	50 - 2	00	323	x 47	1.35	Sq 3/8″
133236/FN/TA	PLUTO35CA/FN/TA	3.0 - 3	35	40 - 1	40	338	x 57	1.95	Sq 3/8″
133250/FN/TA	PLUTO50CA/FN/TA	5.0 - 5	50	20 - 9	90	351	x 57	1.95	Sq 1/2"
Control units									
Code	Model	Torque & Angle	Single Program	Multitorque	Serial Port	USB Port	PC Software	Weight kg	Dimensions mm

Code	Model	Torque & Angle	Single Program	Multitorque	Serial Port	USB Port	PC Software	Weight kg	Dimensions mm
032000/HPRO	EDU2AE/HPRO		٠		•			2.40	195 x 170 x 110
032000/TOP/E	EDU2AE/TOP/E			٥		۰	۰	2.50	190 x 205 x 120
034000/HPRO/TA	EDU2AE/HPRO/TA	٠	٠		٠			2.40	195 x 170 x 110
031000/TOP/NT/TA	EDU2AE/TOP/NT/TA	٠		۰		۰	•	2.00	190 x 205 x 120
034000/TOP/TA	EDU2AE/TOP/TA	٠		٥		۰	٥	2.50	190 x 205 x 120



Hand-held Clutch Screwdrivers / FAB & RAF Series





FAB & RAF Screwdrivers | Torque range 0.05 – 5 Nm

FAB & RAF screwdrivers have been well-known in the electronic industry since we first developed them in the early 1990s. FAB and RAF series are Kolver's powerful, reliable and truly cost-effective tools.

Quick to set up, easy to use

FAB and RAF tools are incredibly easy to install and operate. The torque is set externally: you'll only have to turn the clutch adjusting nut according to the required torque setting.

Each screwdriver works in combination with a control unit. Its electronic control circuit cuts the power supply to the screwdriver motor in response to the clutch action as soon as the pre-set torque has been reached.

Simple maintenance

Replacing carbon brushes and greasing the gears once a year is all you need for maintenance.

EDU1FR control units for FAB and RAF screwdrivers feature a maintenance-free, state-of-the-art electronics and no wearing components. This design results in very low current to the driver's start switch and clutch switch to extend their life indefinitely.

Safe, clean and low noise

All FAB and RAF models come standard with ESD-safe housings against electrostatic discharge.

Their electric motor makes them not only energy efficient but also free of pollutants and contributes to a guieter environment (noise within 55 dB(A). Ergonomic grip, lightweight and compact design for maximum operator comfort.

Basic and advanced functionalities

FAB and RAF work in combination with EDU1FR series controllers, acting as an AC to DC transformer and torque controller with adjustable slow start and speed.

More features available when used in combination with EDU2AE/FR controller or EDU1FR/SG with ACE screw counter (see chart on next page).

Available Housings



INLINE – Inline versions available in lever start or push-to-start. Bit Drive: 1/4" hex quick change chuck



PISTOL GRIP – Trigger start, pistol grip available with top connector (PP/FR/U) or bottom connector (PP/FR). Bit Drive: 1/4* hex quick change chuck



ANGLE HEAD OPTION – 90° angle heads can be easily attached to inline models. Angle attachments ar the ideal solution to operate where space is limited. See page 46.



Inline FAB Screwdrivers

Code	Model	Torque Nm	RPM min-max	Dimensions mm	Weight kg	Start Option
110003/FR	FAB03SS/FR	0.05 - 0.3	450 - 650	237 x 33	0.50	Lever Start
110010/FR	FAB10RE/FR	0.05 - 0.8	600 - 1000	237 x 33	0.50	Lever Start
110012/FR	FAB12RE/FR	0.2 - 1.2	600 - 1000	237 x 33	0.50	Lever Start
112012/FR	FAB12PS/FR	0.2 - 1.2	600 - 1000	249 x 33	0.50	Push-to-start
110618/FR	FAB18RE/FR	0.3 - 1.8	450 - 650	237 x 33	0.50	Lever Start
112618/FR	FAB18PS/FR	0.3 - 1.8	450 - 650	249 x 33	0.50	Push-to-start

Inline RAF Screwdrivers

Code	Model	Torque Nm	RPM min-max	Dimensions mm	Weight kg	Start Option
120032/FR	RAF32NS/FR	0.7 - 3.2	600 - 1000	259 x 40	0.65	Lever Start
122032/FR	RAF32PS/FR	0.7 - 3.2	600 - 1000	269 x 40	0.65	Push-to-start
120638/FR	RAF38NS/FR	0.9 - 3.8	450 - 650	259 x 40	0.65	Lever Start
122638/FR	RAF38PS/FR	0.9 - 3.8	450 - 650	269 x 40	0.65	Push-to-start
120650/FR	RAF50NS/FR	0.9 - 5	400 - 700	259 x 40	0.65	Lever Start
122650/FR	RAF50PS/FR	0.9 - 5	400 - 700	269 x 40	0.65	Push-to-start

Pistol grip FAB Screwdrivers

Code	Model	Torque Nm	RPM min-max	Dimensions mm	Weight kg	Connector Option
110013/FR	FAB12PP/FR	0.2 - 1.2	600 - 1000	220 x 159 x 44	0.55	Bottom connector
110013/FR/U	FAB12PP/FR/U	0.2 - 1.2	600 - 1000	220 x 163 x 44	0.55	Top connector
110619/FR	FAB18PP/FR	0.3 - 1.8	450 - 650	220 x 159 x 44	0.55	Bottom connector
110619/FR/U	FAB18PP/FR/U	0.3 - 1.8	450 - 650	220 x 163 x 44	0.55	Top connector

Pistol grip RAF Screwdrivers

Code	Model	Torque Nm	RPM min-max	Dimensions mm	Weight kg	Connector Option
120033/FR	RAF32PP/FR	0.7 - 3.2	600 - 1000	220 x 159 x 44	0.65	Bottom connector
120033/FR/U	RAF32PP/FR/U	0.7 - 3.2	600 - 1000	220 x 163 x 44	0.65	Top connector
120639/FR	RAF38PP/FR	0.9 - 3.8	450 - 650	220 x 159 x 44	0.65	Bottom connector
120639/FR/U	RAF38PP/FR/U	0.9 - 3.8	450 - 650	220 x 163 x 44	0.65	Top connector
120651/FR	RAF50PP/FR	0.9 - 5	400 - 700	220 x 159 x 44	0.70	Bottom connector
120651/FR/U	RAF50PP/FR/U	0.9 - 5	400 - 700	220 x 163 x 44	0.70	Top connector

Control units for FAB & RAF Screwdrivers

Code	Model	Adjustable Speed	Ramp Option	I/O Signals	Serial Print	Screw Count	Run Time	Weight kg	Dimensions mm
010010/FR	EDU1FR	•	•	-	-	-	-	0.60	138 x 118 x 67
010010/FR/SG	EDU1FR/SG	٠	٠	٠	with ACE	with ACE	-	0.60	138 x 118 x 67
032000/FR	EDU2AE/FR	٥	۰	۰	٠	٠	٥	2.40	195 x 170 x 110

2D and 3D drawings available on kolver.com

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

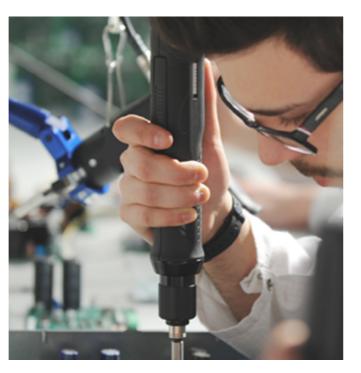
Hand-held Clutch Screwdrivers / FAB & RAF Series



Hand-held Clutch Screwdrivers / KBL Series







KBL Brushless Screwdrivers | Torque range 0.04 – 4 Nm

The perfect solution for clean room applications. KBL screwdrivers feature state-of-the-art brushless motors and clutch torque control.

Simple set up

KBL tools are very easy to install and operate. The torque is set externally: you'll only have to manually adjust the front clutch according to the required torque setting.

Each screwdriver works in combination with a control unit. Its electronic control circuit cuts the power supply to the screwdriver motor in response to the clutch action, as soon as the pre-set torque has been reached.

Maintenance-free

No wearing components and no brush replacement – KBL Screwdrivers combine Swiss brushless motors with magnetic clutch switches for a real maintenance-free solution. The absence of maintenance operations guarantees high productive continuity.

EDU1BL control units for KBL screwdrivers feature state-of-the-art electronics working at only 30 VDC. This design results in very low current to the driver's start and clutch switches to extend their life even further

For a cleaner environment

No brushes means zero emissions of carbon dust or other pollutants into the working environment, which makes KBL screwdrivers perfect for clean-room applications.

Safe and ergonomic

KBL hand-held screwdrivers are available in inline and pistol type and they all come standard with ESD-safe housing.

Small and lightweight for utmost operator comfort and with advanced ergonomic design, they ensure very low noise level, minimum vibrations and maximum safety.

Improve your productivity by cutting investments

It is possible to use two screwdrivers with just one control unit by connecting a double output device called DOCK 02 (for KBL FR) or DOCK 02/S (for KBL FR/S).

The two screwdrivers can be used at the same time for maximum productivity. 230V only.

Available Housings



INLINE – Inline versions available in lever start with signals (KBL FR/S) or without (KBL FR). Also available with autoreverse feature (KBL FR/AR), best used with RIV HD riveting heads. Bit Drive: 1/4" hex quick change chuck.



PISTOL GRIP – Trigger start, pistol grip available with signals (KBL P/S) or without (KBL P/FR). Bit Drive: 1/4" hex quick change chuck.



ANGLE HEAD OPTION – 90° angle heads can be easily attached to inline models. Angle attachments ar the ideal solution to operate where space is limited.



Inline KBL Screwdrivers

Code	Model	Torque Nm	RPM min-max	Dimensions mm	Weight kg	Control unit
Standard models						
190004	KBL04FR	0.04 - 0.4	700 - 1150	255 x 37	0.50	EDU1BL
190015	KBL15FR	0.4 - 1.5	700 - 1150	255 x 37	0.50	EDU1BL
190030	KBL30FR	0.7 - 3	700 - 1150	268 x 43	0.65	EDU1BL
190040	KBL40FR	0.9 - 4	400 - 700	268 x 43	0.65	EDU1BL
Models with I/O signals						
190004/S	KBL04FR/S	0.04 - 0.4	700 - 1150	255 x 37	0.50	EDU1BL/SG
190015/S	KBL15FR/S	0.4 - 1.5	700 - 1150	255 x 37	0.50	EDU1BL/SG
190030/S	KBL30FR/S	0.7 - 3	700 - 1150	268 x 43	0.65	EDU1BL/SG
190040/S	KBL40FR/S	0.9 - 4	400 - 700	268 x 43	0.65	EDU1BL/SG

Inline KBL Screwdrivers are also available in KBL FR/AR, with autoreverse feature.

Pistol grip KBL Screwdrivers

Code	Model	Torque Nm	RPM min-max	Dimensions mm	Weight kg	Control unit
Standard models						
190005	KBL04P/FR	0.04 - 0.4	700 - 1150	154 x 210 x 45	0.50	EDU1BL
190016	KBL15P/FR	0.4 - 1.5	700 - 1150	154 x 210 x 45	0.50	EDU1BL
190031	KBL30P/FR	0.7 - 3	700 - 1150	154 x 217 x 45	0.65	EDU1BL
190041	KBL40P/FR	0.9 - 4	400 - 700	154 x 217 x 45	0.65	EDU1BL
Models with I/O signals						
190005/S	KBL04P/S	0.04 - 0.4	700 - 1150	154 x 210 x 45	0.50	EDU1BL/SG
190016/S	KBL15P/S	0.4 - 1.5	700 - 1150	154 x 210 x 45	0.50	EDU1BL/SG
190031/S	KBL30P/S	0.7 - 3	700 - 1150	154 x 217 x 45	0.65	EDU1BL/SG
190041/S	KBL40P/S	0.9 - 4	400 - 700	154 x 217 x 45	0.65	EDU1BL/SG

Angle head KBL Screwdrivers

Code	Model	Torque Nm	RPM min-max	Dimensions mm	Weight kg	Control unit
190004/A	KBL04FR/ANG	0.04 - 0.4	700 - 1150	316 x 37	0.60	EDU1BL
190015/A	KBL15FR/ANG	0.4 - 1.5	700 - 1150	316 x 37	0.60	EDU1BL
190030/AD	KBL30FR/ANG	0.7 - 3	700 - 1150	330 x 43	0.75	EDU1BL
190040/AD	KBL40FR/ANG	0.9 - 4	400 - 700	330 x 43	0.75	EDU1BL

Control units for KBL Screwdrivers

Code	Model	Settable Speed	Ramp Option	I/O Signals	Serial Print	Screw Count	Min-Max Run Time	Weight kg	Dimensions mm
003000	EDU1BL	•	-	-	-	-	-	0.60	138 x 118 x 67
003000/SG	EDU1BL/SG	٠	۰	۰	with ACE	with ACE	with ACE	0.60	138 x 118 x 67

2D and 3D drawings available on kolver.com

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



Hand-held Clutch Screwdrivers / KBL Series









KBL Screwdrivers for Automation | Torque range 0.04 – 4 Nm

KBL CA Screwdrivers combine state-of-the-art brushless motors with an aluminium housing for quick and easy installation on robots and automatic machines.

Designed for automation

KBL CA tools are supplied in an aluminium body for a quick and easy integration with automatic machines and screw feeding systems. KBL tools in CA/FN version are equipped with a flange mount and reciprocating spindle for high-intensity applications.

Easy to install and operate

Each KBL CA screwdriver works in combination with an EDU1BL/SG control unit. Its electronic control circuit cuts the power supply to the screwdriver motor in response to the clutch action, as soon as the pre-set torque has been reached.

KBL's torque clutch only needs to be set once and guarantees accurate repeatability on any kind of joint.

Industry 4.0 with KBL

Transitioning to Industry 4.0 is easy with KBL CA screwdrivers. They can be easily connected to robots or automatic machines through their EDU 1BL/SG controller's proper connectors to manage input/output signals such as start, stop, error and more.

No maintenance required

Automation requires tools capable of keeping high quality standards, even on heavy-duty applications. KBL Screwdrivers combine Swiss brushless motors with magnetic clutch switches for a real maintenancefree solution. The absence of maintenance operations guarantees high productive continuity.

For clean-room environments

KBL screwdrivers are perfect for automated applications requiring cleanroom standards. No brushes means zero emissions of carbon dust or other pollutants into the working environment, which guarantees highquality assembly on any joint.

Available Housings



ALUMINIUM BODY (KBL CA) – Specifically designed for automation. Easy to install on any machine or robot. Also available with autoreverse feature (KBL FR/AR), best used with RIV HD riveting heads.



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



Robotic application SCAN TO WATCH



Aluminium housing KBL Screwdrivers

Code	Model	Torque Nm	RPM min-max	Dimensions mm	Weight kg	Bit Drive
190004/CA	KBL04FR/CA	0.04 - 0.4	700 - 1150	257 x 40	0.60	Hex 1/4"
190015/CA	KBL15FR/CA	0.4 - 1.5	700 - 1150	257 x 40	0.60	Hex 1/4"
190030/CA	KBL30FR/CA	0.7 - 3	700 - 1150	264 x 40	0.75	Hex 1/4"
190040/CA	KBL40FR/CA	0.9 - 4	400 - 700	264 x 40	0.75	Hex 1/4"

Aluminium housing KBL Screwdrivers with flange mount

Code	Model	Torque Nm	RPM min-max	Dimensions mm	Weight kg	Bit Drive
190004/CA/FN	KBL04FR/CA/FN	0.04 - 0.4	700 - 1150	330 x 40	0.65	Hex 1/4"
190015/CA/FN	KBL15FR/CA/FN	0.4 - 1.5	700 - 1150	330 x 40	0.65	Hex 1/4"
190030/CA/FN	KBL30FR/CA/FN	0.7 - 3	700 - 1150	338 x 40	0.80	Hex 1/4"
190040/CA/FN	KBL40FR/CA/FN	0.9 - 4	400 - 700	338 x 40	0.80	Hex 1/4"

Control unit for KBL CA Screwdrivers

Code	Model	Settable Speed	Ramp Option	I/O Signals	Serial Print	Screw Count	Min-Max Run Time	Weight kg	Dimensions mm
003000/SG	EDU1BL/SG	٠	٠	•	with ACE	with ACE	with ACE	0.60	138 x 118 x 67

2D and 3D drawings available on kolver.com

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

Fixture Mount Clutch Screwdrivers / KBL Series



ACC Screwdrivers | Torque range 0.2 – 4.5 Nm

ACC screwdrivers are direct plug-in tools with built-in PCB for automatic cut off and AC to DC rectifier. They are ideal for applications where portability is needed to minimize costly set-up time. ACC models have the unique feature of selectable push to start or push and lever start: to select the working mode just slide the switch located by the start lever.

All ACC models feature shut off torque control through mechanical clutch. It is possible to lock their mechanical clutch and avoid any accidental torque change by adding an optional Lock-out Cover, available for all ACC models (code 219011).





Reverse Switch

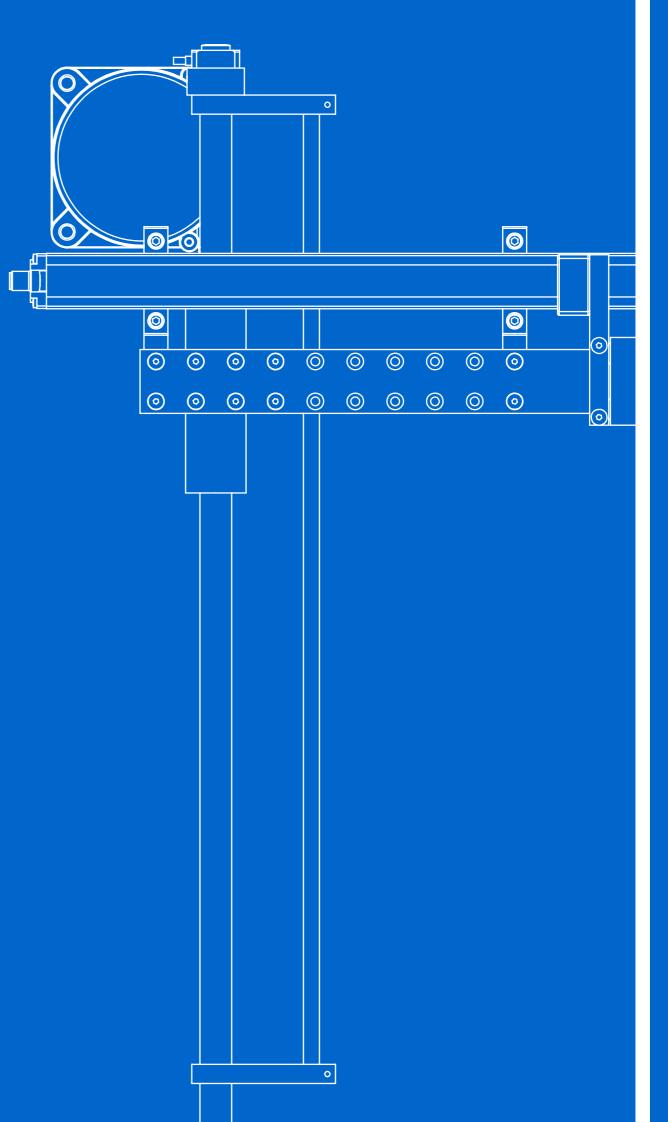
Torque Adjusting Nut Cover

Inline ACC Screwdrivers with Built-in Controller

Code	Model	Torque Nm	RPM max	Dimensions mm	Weight kg	Bit Drive
141910	ACC2210	0.2 - 1	950	255 x 35	0.75	Hex 1/4"
141920	ACC2220	0.7 - 2	950	255 x 35	0.80	Hex 1/4"
151222	ACC2222	0.9 - 2	2400	265 x 38	0.85	Hex 1/4"
151930	ACC2230	1.0 - 3	950	265 x 38	0.85	Hex 1/4 "
151945	ACC2245	1.0 - 4.5	450	265 x 38	0.85	Hex 1/4"

2D and 3D drawings available on kolver.com

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



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K-TESTER and Mini K/S Torque Testers | Torque range 0.05 – 100 Nm

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

K-TESTER Series – Advanced Torque Testers

The K-TESTER is Kolver's cutting-edge torque analyzer. Versatile and precise, it can be used with both static and rotary transducers, depending on the application

The intuitive touchscreen torque readout provides real-time torque graph visualization, while live PC connectivity enhances testing capabilities through our K-Torque Analyzer companion software.

With support for up to 64 programs and advanced reporting, the K-TESTER offers unparalleled efficiency for diverse torque testing needs.

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-TESTER Torque Testers

Code	Model	Torque range Nm	Readout Dimensions mm	Readout Weight kg	Transducer Weight	Input size	Joint Simulator	Connecting Port
with Static Tran	sducer							
021406/F1	K-TESTER-KTI1	0.05 - 1	164 x 170 x 65	1.18	1.17	Hex 13 mm	240640 M4	USB, mini USB, Ethernet
021406/F5	K-TESTER-KTI5	0.3 - 5	164 x 170 x 65	1.18	1.17	Hex 13 mm	240600 M6	USB, mini USB, Ethernet
021406/F20	K-TESTER-KTI20	0.5 - 20	164 x 170 x 65	1.18	1.17	Hex 13 mm	240800 M8	USB, mini USB, Ethernet
021406/F50	K-TESTER-KTI50	2 - 50	164 x 170 x 65	1.18	1.17	Sq 3/8''	240901 M12	USB, mini USB, Ethernet
021406/F100	K-TESTER-KTI100	5 - 100	164 x 170 x 65	1.18	1.17	Sq 1/2''	240902 M12	USB, mini USB, Ethernet
with Rotary Tra	nsducer							
021406/R5	K-TESTER-KTEI1	0.5 - 5	164 x 170 x 65	1.18	0.4	-	-	USB, mini USB, Ethernet
021406/R25	K-TESTER-KTEI25	2 - 25	164 x 170 x 65	1.18	0.9	-	-	USB, mini USB, Ethernet
021406/R50	K-TESTER-KTEI50	5 - 50	164 x 170 x 65	1.18	1.3	-	-	USB, mini USB, Ethernet
021406/R100	K-TESTER-KTEI100	10 - 100	164 x 170 x 65	1.18	1.5	-	-	USB, mini USB, Ethernet

K-TESTER-KTI available up to 500 Nm upon request

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	0.1 - 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

K-TorqueAnalyser Software

K-Torque Analyser is the companion software for managing the K-TESTER and visualizing graphs & reports from a tablet/PC connected via ethernet.

Functionality includes:

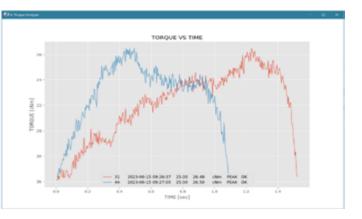
- real-time displaying and archiving of data from the K-TESTER;
- analysis and comparison of tightening operations and torque data;
- advanced reporting;
- managing of device settings and programs;

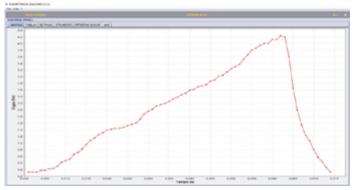
Torque Analyser Software

The 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.

Torque Testers / K-TESTER and Mini K/S Series







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 Torgue 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).

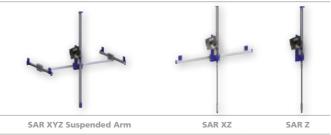


Support arm models









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	LINAR1	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

Folding and Linear Torgue Reaction Arms with Autoadvance Kit

Code	Model	Arm Weight kg	Piston Stroke mm	Min Reach mm	Max Reach mm	Max Torque Nm
010682/A	LINAR2/A	6.1	0 - 50	184	665	50
Autoadvance kit						
020099	The Autoadvance kit can be supplied separately – to be installed on LINAR2 and LINART to convert them into /A models.					

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 S	SAR arms						
010695	Tool holder for PLUTO and RAF series inline screwdrivers						

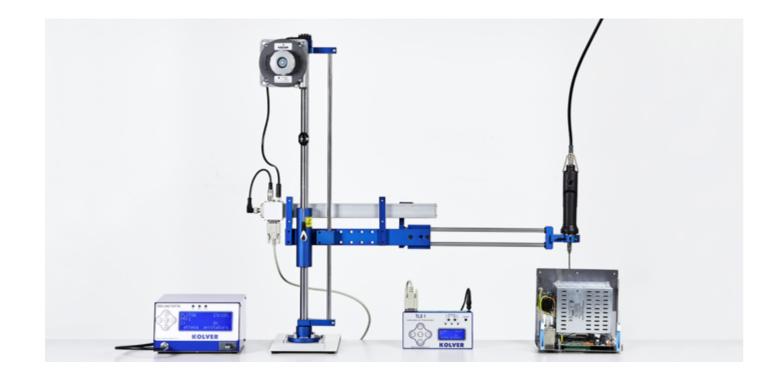
010695	Tool holder for PLUTO and KAF series inline screwdrivers
010698	Tool holder for FAB, NATO & MITO series inline screwdrivers
010695/P	Tool holder for right angle PLUTO screwdrivers (up to 15 Nm)
010695/UNI	Universal Tool Holder for any screwdriver (max diametre 47 mm)

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

Reaction Arms / LINAR, CAR and SAR Series

Positioning Arms / TLS1 Series





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 torgue 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).

Positioning arm models





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 foll	lowing cables must be specif	ied at time of purchase					
260003/1	Cable to connect TLS system	n to EDU1FR/SG controller					
260004/1	Cable to connect TLS system	n to EDU1BL/SG, EDU2AE, EDU	2AE/HPro, EDU2AE/TOP or EDU	2AE/TOP/TA controller			
260004/KDU	Cable to connect TLS system	n to KDU controller					
olding and L	,	ns with Autoadvance	Kit Piston Stroke mm	Min Reach mm	Max Reach mm	Min distance between screws (max extension)	
Code	inear Positioning Arn	ns with Autoadvance		Min Reach mm	Max Reach mm 665		
Code 010682/TLS1/A	inear Positioning Arn Model	ns with Autoadvance Arm Weight kg 50	Piston Stroke mm			screws (max extension)	
Code 010682/TLS1/A	inear Positioning Arn Model LINAR2/TLS1/A	ns with Autoadvance Arm Weight kg 50 ied at time of purchase	Piston Stroke mm			screws (max extension)	

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	7 mm	
Either of the fol	lowing cables must be specif	ied at time of purchase					
260003/1	Cable to connect TLS system	n to EDU1FR/SG controller					
260004/1	Cable to connect TLS system	n to EDU1BL/SG, EDU2AE, EDU2	2AE/HPro, EDU2AE/TOP or EDU	2AE/TOP/TA controller			
	Cable to connect TLS system to KDU controller						
	,	n to KDU controller	Kit				
260004/KDU Folding and L	,		Kit Piston Stroke mm	Min Reach mm	Max Reach mm	Min distance between screws (max extension)	
olding and L	inear Positioning Arn	ns with Autoadvance I		Min Reach mm 184	Max Reach mm 665	Min distance between screws (max extension) 6	
olding and L Code 010682/TLS1/A	inear Positioning Arn Model	ns with Autoadvance I Arm Weight kg 50	Piston Stroke mm			screws (max extension)	
olding and L Code D10682/TLS1/A Either of the fol	Linear Positioning Arm Model LINAR2/TLS1/A	ns with Autoadvance I Arm Weight kg 50 ied at time of purchase	Piston Stroke mm			screws (max extension)	
olding and L Code 010682/TLS1/A	Linear Positioning Arn Model LINAR2/TLS1/A lowing cables must be specif Cable to connect TLS system	ns with Autoadvance I Arm Weight kg 50 ied at time of purchase	Piston Stroke mm 0 - 50	184		screws (max extension)	
olding and L Code D10682/TLS1/A Either of the fol 260003/1 260004/1	Linear Positioning Arn Model LINAR2/TLS1/A lowing cables must be specif Cable to connect TLS system	ns with Autoadvance I Arm Weight kg 50 ied at time of purchase n to EDU1FR/SG controller n to EDU1BL/SG, EDU2AE, EDU2	Piston Stroke mm 0 - 50	184		screws (max extension)	
Olding and L Code D10682/TLS1/A Either of the fol 260003/1	LINAR2/TLS1/A LUNAR2/TLS1/A lowing cables must be specif Cable to connect TLS system Cable to connect TLS system Cable to connect TLS system	ns with Autoadvance I Arm Weight kg 50 ied at time of purchase n to EDU1FR/SG controller n to EDU1BL/SG, EDU2AE, EDU2	Piston Stroke mm 0 - 50	184		screws (max extension)	

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 fol	lowing cables must be specifie	owing 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						

Cable to connect TLS system to KDU controller

Suspended Positioning Arms

260004/KDU

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	AR arm					
010695	Tool holder for PLUTO and R	AF series inline screwdrivers				
010698	Tool holder for FAB, NATO &	MITO series inline screwdrivers				
010695/P	Tool holder for right angle Pl	LUTO screwdrivers (up to 15 Nm))			
010695/UNI	Universal Tool Holder for any	v screwdriver (max diametre 47 n	nm)			
Either of the follo	owing cables must be specifi	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				

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



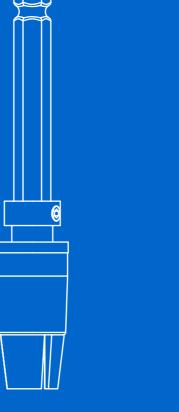
36

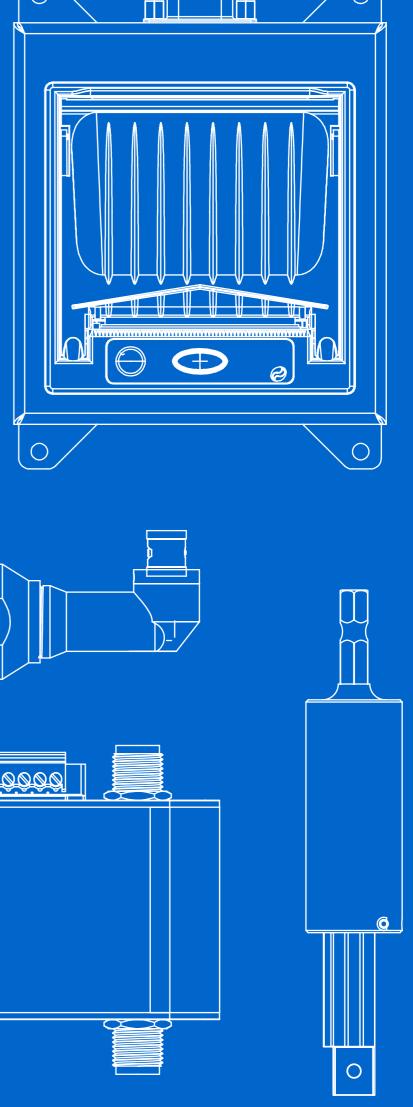
Positioning Arms / TLS1 Series



Screw Feeders / NFK Series







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 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 6 mm. An optional cover is available in order to avoid screws falling inside the NFK RS screw feeder.

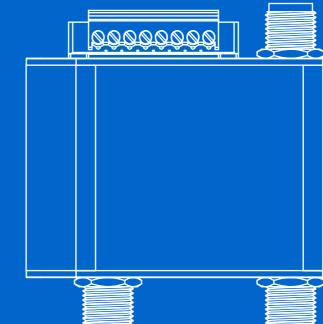
The whole NKF Screw Feeder series can handle max. 20 mm (18 mm on NFK N60/RS) long screws.

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
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
014560/RS	NFK N60/RS	6.0



ACCESSORIES





Accessories for FAB & RAF Screwdrivers

Code	Model	Description
90° Angle attachments		
010100	ANG HD1	90° Angle head for FAB Series, 1/4" hex output
010120	ANG HD2	90° Angle head for RAF Series, 1/4"hex output
010143	ANG HD8	Heavy duty 90° angle head for FAB Series, 1/4" hex output
010144	ANG HD9	Heavy duty 90° angle head for RAF Series, 1/4 "hex output

Lock-out cover

219012	Lock-out cover	Lock-out cover with adjustment key for FAB. A lock-out cover locks the screwdriver's clutch in order to avoid any accidental torque change.

Tool holders

010500	ARM PV1	ARM PV1 support arm consists of a vertical support on which a 180° pivoting arm is attached.
010300	TECBA1	TECBA1 tool balancers allow screwdrivers to be positioned over the workstation for maximum operator comfort. 0.4-1 kg capacity.
010175	Pistol FAB & RAF wall support	Wall supports for pistol screwdrivers can be fixed to a vertical surface to easily store FAB and RAF pistol tools when not in use.
010176	Wall support for angle RAF	Wall supports can be fixed to a vertical surface to easily store RAF tools with angle head when not in use.

Cables (to connect FAB & RAF screwdrivers to EDU1FR controllers)

200063	2.5 m	Standard 5 pin cable for FAB & RAF – included with screwdriver
200063/H	2.5 m	5 pin cable with strain relief – for heavy duty applications
200563	5 m	5 pin cable, 5 m length
200563/S	5 m	5 pin spiral cable
200863	8 m	5 pin cable, 8 m length



Accessories for KBL Hand-held Screwdrivers

Code	Model	Description
Clutch cover		
020028	Clutch cover	Model for KBL04FR and KBL15FR. It prevents
020029	Clutch cover	Model for KBL30FR and KBL40FR. It prevents
Riveting heads		
010181	RIV HD2	8 mm hole. Model for KBL30FR and KBL04FR
010183	RIV HD4	3 mm hole. Model for KBL04FR and KBL15FR
010184	RIV HD5	3 mm hole. Model for KBL30FR and KBL04FR
Tool holders		
010500	ARM PV1	ARM PV1 support arm consists of a vertical su
010300	TECBA1	TECBA1 tool balancers allow screwdrivers to
010175	Wall support for KBL	Wall supports can be fixed to a vertical surface

Accessories for KBL CA Automated Screwdrivers

Code	Model	Description
Flange mount kit	s	
800406	1/4" - 1/4" kit for 04-15	1/4" - 1/4" flange mount kit that turns KBL0
800407	1/4" - 1/4" kit for 30-40	1/4" - 1/4" flange mount kit that turns KBL3
Telescopic spindle	2	
800322	1/4" - 1/4"	Model for KBL /FN. Max 7 Nm.
Clutch cover		
020028/CA	Clutch cover	Model for KBL04FR/CA and KBL15FR/CA. It p
020029/CA	Clutch cover	Model for KBL30FR/CA and KBL40FR/CA. It p
Vacuum attachme	ents	
010111/1	A2	For non-magnetic M2-M2.6 screws. It can be
010111/2	A3	For non-magnetic M3-M4 screws. It can be in
010122	ASP HD10	Rubber pad output. Best suited for round-hea
010122/UNI	ASP HD10/UNI	Metal tube output. Best suited for grub, aller
010123	ASP HD11	Rubber pad output. Best suited for round-hea
010123/UNI	ASP HD11/UNI	Metal tube output. Best suited for grub, aller
Autocatchers		
010113	AC 2.3	For M2-M3 screws. Easily picks up non-magn
010114	AC 3.5	For M3-M5 screws. Easily picks up non-magn
Cables (to connec	t KBL screwdrivers to EDU1BL co	ontroller)
200063	2.5 m	Standard 5 pin cable for KBL series – include

200063	2.5 m	Standard 5 pin cable for KBL series – include
250063/N	2.5 m	Standard 8 pin cable for KBL /S (with signals
200063/H	2.5 m	5 pin cable with strain relief for KBL series –
250063/H	2.5 m	8 pin cable with strain relief for KBL /S (with
200563	5 m	5 pin cable, 5 m length for KBL series
250563	5 m	8 pin cable, 5 m length for KBL /S (with sign
200563/S	5 m	5 pin spiral cable for KBL series
250563/S	5 m	8 pin spiral cable for KBL /S (with signals) se

ts the operator from accidentally altering the clutch adjustment. ts the operator from accidentally altering the clutch adjustment.

FR screwdrivers, also for models with signals (KBL FR/S) and autoreverse (KBL FR/AR). FR screwdrivers, also for models with signals (KBL FR/S) and autoreverse (KBL FR/AR). FR screwdrivers, also for models with signals (KBL FR/S) and autoreverse (KBL FR/AR).

support on which a 180° pivoting arm is attached.

o be positioned over the workstation for maximum operator comfort. 0.4-1 kg capacity.

face to easily store KBL tools when not in use.

L04 CA and KBL15 CA screwdrivers into KBL CA/FN. L30 CA and KBL40 CA screwdrivers into KBL CA/FN.

prevents the operator from accidentally altering the clutch adjustment.

t prevents the operator from accidentally altering the clutch adjustment.

be installed on any screwdriver.

installed on any screwdriver.

neaded screws. Model specifically designed for KBL04 and KBL15.

en and long screws. Model specifically designed for KBL04 and KBL15.

neaded screws. Model specifically designed for KBL30 and KBL40.

en and long screws. Model specifically designed for KBL30 and KBL40.

gnetic screws with a small plastic clamp.

gnetic screws with a small plastic clamp.

uded with screwdriver

als) series – included with screwdriver

heavy duty applications

ith signals) series – heavy duty applications

ignals) series

series

PLUTO Screwdrivers / Accessories





Accessories for PLUTO Hand-held Screwdrivers

c	ode	Model	Description
R	iveting heads		
0	10180	RIV HD1	8 mm hole. Model for PLUTO3D, PLUTO6D, PLUTO10D/N, PLUTO15D/N.
0	10182	RIV HD3	3 mm hole. The 3 mm hole can be modified up to 10 mm. 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	Diametre 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.
010175	Wall support for pistol PLUTO	Wall supports can be fixed to a vertical surface to easily store PLUTO pistol tools when not in use.
010176	Wall support for angle PLUTO	Wall supports can be fixed to a vertical surface to easily store PLUTO tools with angle head when not in use.

Cables (to connect screwdriver 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

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
800401	3/8" - 3/8" kit	For PLUTO20. It turns a PLUTO20CA into PLUT
800403	3/8" - 3/8" kit	For PLUTO35. It turns a PLUTO35CA into PLUT
800404	1/4" - 1/4" kit	An 1/4" - 1/4" flange mount kit turns a PLUTO
UR (Universal Robo	ts®) adaptor	
010695/UR	UR-Mount	Tool holder for PLUTO3, 6, 10 & 15CA and CA
Telescopic spindles		
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 Nr
800322	1/4" - 1/4"	Model for PLUTO FR/FN and MITO /FN. Max 7
Vacuum attachmen	ts	
010111/1	A2	For non-magnetic M2-M2.6 screws. It can be
010111/2	A3	For non-magnetic M3-M4 screws. It can be in:
010121	ASP HD9	Rubber pad output. Best suited for round-hea
010121/UNI	ASP HD9/UNI	Metal tube output. Best suited for grub, allen
Autocatchers		
010113	AC 2.3	For M2-M3 screws. Easily picks up non-magne
010114	AC 3.5	For M3-M5 screws. Easily picks up non-magne
Cables (to connect s	screwdriver to controller)	
200063	2.5 m	Standard 5 pin cable for PLUTO CA series – in
250063/N	2.5 m	Standard 8 pin cable for PLUTO CA/TA (Torque
200063/H	2.5 m	5 pin cable with strain relief for PLUTO CA ser
250063/H	2.5 m	8 pin cable with strain relief for PLUTO CA/TA
	-	5 pin cable, 5 m length for PLUTO CA series
200563	5 m	5 pin cable, 5 in length for FLOTO CA series
200563 250563	5 m	8 pin cable, 5 m length for PLUTO CA/TA (Tord



5 m

250563/S



PLUTO Screwdrivers / Accessories

JTO (3, 6, 10 or 15) CA into PLUTO CA/FN2.

UTO20CA/FN.

UTO35CA/FN.

TO FR/CA clutch screwdriver into PLUTO FR/CA/FN.

CA/FN2 series drivers. To be attached to Universal Robots® robotic arm.

Nm.

7 Nm.

e installed on any screwdriver.

installed on any screwdriver.

eaded screws. Model specifically designed for PLUTO3, PLUTO6, PLUTO10 and PLUTO15.

en and long screws. Model specifically designed for PLUTO3, PLUTO6, PLUTO10 and PLUTO15.

netic screws with a small plastic clamp. netic screws with a small plastic clamp.

included with screwdriver

que & Angle) series – included with screwdriver

eries – heavy duty applications

TA (Torque & Angle) series – heavy duty applications

orque & Angle) series

8 pin spiral cable for PLUTO CA/TA (Torque & Angle) series

NATO & MITO Screwdrivers / Accessories





Accessories for NATO and MITO Screwdrivers

Code	Model	Description
Flange mount ki	t	
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 spindl	e	
800322	1/4" - 1/4"	Model for MITO /FN. Max 7 Nm.
Vacuum attachm	ients	
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 KDU series controllers (KDS Transducerized screwdrivers)

Code	Model	Description
Connection device	es	
020046	DOCK 05	Dual output connector for KDS screwdrivers
020078	UR [®] Robot connection device	Plug-in device for connecting UR® Robot and
020051	2D Barcode reader	KDU units can also be controlled via a barcod
010410	Adaptor kit SW CBS	Adaptor device for connecting KDU-1A and
010420	Programming device KDU	Programming device for firmware updates o
872538	Cable for PICkit4	Interface cable between PICkit4 programmir

Accessories for EDU2AE series controllers (PLUTO Screwdrivers)

Code	Model	Description
Program select	tion – To be used with EDU2AE/TOP,	EDU2AE/TOP/E or EDU2AE/TOP/TA (multiprogram
020033	SWBX88 Switchbox	Select the right pre-set program by simply pr
020042	CBS880 Socket tray	When a bit or socket is removed from the tra
020050	BRCR90 Barcode reader	Multiprogram units can also be controlled vi
Dual output co	onnector	
020045	DOCK 04	Dual output connector for PLUTO Series, to
020045/TA	DOCK 04/TA	Dual output connector for PLUTO TA Series,
Remote start a	nd reverse	
020070	Start / Reverse pedals	Start and reverse signals can be activated usi
Data printer		
020026	PRNTR1 Serial printer	Instantly print each screw tightening result v
Connection de	vices	
020075	Ethernet device	Connect your PC to any EDU2AE/TOP, EDU2
020077	UR® Robot connection device	Plug-in device for connecting UR® Robot and
Visual signals		
020080	Light tower stack	A light stack makes output signals clearly vis
Accessories	for EDU1FR series controlle	ers (FAB & RAF Screwdrivers)
Code	Model	Description
Dual output co	onnector	
020020	DOCK 01	Dual output connector for EDU1FR controlle
Screw counting	-	
020021	ACE	Screw counting device for EDU1FR/SG contro
	for EDU1PL corios controlly	ers (KBL Screwdrivers)
Accessories	IOLEDOIPT Selles controlle	
Accessories Code	Model	Description
	Model	Description
Code	Model	Description Dual output connector for EDU1BL controller

020022	ACE	Screw counting device for EDU1BL/SG contro

Screw counting device

rs, to be used with KDU units. Run two drivers with one controller (not simultaneously).

nd KDU controllers.

ode reader. Scan the right barcode (either 1D or 2D, such as QR codes) to select the correct program.

d SWBX88 switchbox or CBS880 socket tray.

on KDU-1A control units. Cable code no. 872538 included.

ning device and KDU-1A control unit.

n controllers).

pushing a button. 8-program selection.

tray, the control unit automatically selects the pre-set program. 8-program selection.

be used with EDU2AE/TOP. Run two drivers with one controller (not simultaneously).

s, to be used with EDU2AE/TOP/TA. Run two drivers with one controller (not simultaneously).

sing a foot pedal. Supplied standard with 3.5 m cable and connector for any EDU2AE controller.

via a serial printer. It connects directly to multiprogram units and K and Mini K/S torque testers.

2AE/TOP/E or EDU2AE/TOP/TA via remote LAN connection using an ethernet device. ad EDU2AE/TOP, EDU2AE/TOP/E or EDU2AE/TOP/TA controllers.

isible. Supplied standard with 2.5 cable and 10 pin connector for EDU2AE series.

lers. Run two drivers with one controller. Drivers cannot be used at the same time.

troller. It keeps track of either correct and wrong tightenings, as well as cycles and sequences.

lers. Run two drivers with one controller. Both drivers can be used at the same time.

rollers. Run two drivers with one controller. Drivers cannot be used at the same time.

roller. It keeps track of either correct and wrong tightenings, as well as cycles and sequences.



KOLVER NORTH AMERICA

In 2002 Kolver North America was founded in Salem, NH with the intent to provide superior products and service to North American customers. Covering the U.S., Mexico, Canada and the Caribbean we stand by the motto "our commitment to our customers is a commitment to excellence".

The Kolver® family of tools is one of the most comprehensive in the electric power tool industry covering a wide range of torque at several speeds, suitable for an infinite number of applications. We are also a leader in the industry 4.0 revolution, rising to the challenge of even the most challenging customer applications.

If you are looking for a long lasting, cost effective solution along with excellent customer support in North America then look no further than Kolver North America!

OUR COMPANY

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 50 countries worldwide.

ISO 9001 certified since 1998, KOLVER® has gained international recognition for building premier quality innovative products that meet or even anticipate the most rigorous customer requirements.

Kolver[®] tools feature either transducerized, shut off clutch or current control system, coreless or brushless motors all controlled by a state-of-the-art electronic control unit. Thanks to their low installation, operating and maintenance costs as well as to their reduced vibration and noise level, Kolver[®] electric screwdrivers represent the perfect alternative to pneumatic screwdrivers for screws up to M10.

KOLVER NORTH AMERICA

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ONE YEAR LIMITED WARRANTY

KOLVER[®] products are guaranteed against defective workmanship or materials, for a maximum period of 12 months following the date of purchase from KOLVER[®], provided that its usage is limited to single shift operation throughout that period.

If the usage rate exceeds that of single shift operation, the guarantee period shall be reduced on a prorata basis. If, during the guarantee period, the product appears to be defective in workmanship or materials, it should be returned to KOLVER® or its distributors, transport prepaid, together with a short description of the alleged defect. KOLVER® shall, at its sole discretion, arrange to repair or replace free of charge such items. This guarantee does not cover repair or replacement required as a consequence of products which have been abused, misused or modified, or which have been repaired using not original KOLVER® spare parts or by not authorized service personnel. KOLVER® accepts no claim for labour or other expenditure made upon defective products. Any direct, incidental or consequential damages whatsoever arising from any defect are expressly excluded. This guarantee replaces all other guarantees, or conditions, expressed or implied, regarding the quality, the marketability or the fitness for any particular purpose. No one, whether an agent, servant or employee of KOLVER®, is authorized to add to or modify the terms of this limited guarantee in any way. However it's possible to extend the warranty with an extra cost.



Due to our policy of continuous product improvement at KOLVER[®], the design, data and specifications are subject to change without prior notice.

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ISO 9001 certified since 1998



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