



KOLVER



Our Company – Since 1989

For over 30 years, **KOLVER**[®] has been a world leader in precision electric screwdriver manufacturing. All of our drivers are manufactured with the highest quality standards at our production site in Thiene, Province of Vicenza, Italy, where thousands of state-of-the-art drivers are produced every year and then shipped to more than 50 Countries worldwide. Our mission is to provide the most cost effective, reliable and intelligent fastening solution for your assembly process.



+ 30 year
+ 50 countries
1 mission



KOLVER

Our Company – Since 1989

KOLVER®



US Headquarters

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Countrywide Coverage

Our Company – Since 1989

KOLVER®

- State of the art Italian hand made tools
- Reliability, low maintenance, durability and low operating cost
- Ergonomics, safety, flexibility, precision, low noise levels
- Cost-effective solutions
- USA Headquarters, local support





KOLVER

Fastening Solutions

Torque Tester:
With transducer
Portable
Advanced

Screw Feeders:
Manual use
Automation

Controllers:
Communication options
for each requirement



Precision Electric Screwdrivers:
Transducerized – Intelligent Systems
Current-Controlled
Clutch Brushless
Clutch

Torque Arms:
Reaction Arms
Positioning Arms

3 Different Technologies for Fastening

CLUTCH

CURRENT CONTROLLED

TRANSDUCERIZED

KOLVER offers a wide range of screwdrivers that cover most fastening requirements. Each of our drivers operate in a reliable and cost effective way in order to achieve an efficient assembly process.

SERIES	CLUTCH TOOLS	TORQUE & ANGLE CURRENT CONTROL	TORQUE & ANGLE TRANSDUCERIZED	TORQUE RANGE Nm	TORQUE RANGE in.lbs
FAB	•			0.05 - 1.8	0.44 - 15.9
RAF	•			0.7 - 5.0	6.2 - 44.25
KBL	•			0.04 - 4.0	0.8 - 35.4
ACC	•			0.2 - 4.5	1.77 - 39.8
NATO		•		0.01 - 0.5	0.09 - 4.4
MITO		•		0.35 - 1.5	3.1 - 13.3
PLUTO	•	•		0.5 - 70	4.4 - 664
KDS			•	0.5 - 15	4.4 - 133



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ACC – Clutch Screwdrivers

- Direct Plug-in Screwdrivers, Integrated control unit (120V)
- Low cost, reliable, easy to move to all areas of the production floor
- Lever or Push-to-start combination
- Fixed speed, since there is no controller
- Optional lock out cover preventing operators from changing torque
- Torque range: 1.8 – 39.8 in-lbs

Common Applications:

- Electronic manufacturers
- Simple assembly jobs requiring fast, reliable drivers with virtually no setup time

• ACC – Direct Plug-in Screwdrivers



Operates on carbons and requires light maintenance

*A torque tester is required to calibrate and check torque

Torque is adjusted at the tip of the tool with a spring control



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FAB & RAF – Clutch Screwdrivers

- Adjustable clutch torque control
- Ergonomic design in **in-line, pistol or right angle** configuration
- Built-in locking ring to prevent torque changes by the operator
- Torque range: 0.4 - 44.3 in / lbs
- ESD safe

Common Applications:

- Any electronic product assembly
- Medical device assembly
- Automotive Electronics Assembly

• FAB & RAF– Clutch

Operates on carbon brushes and requires light maintenance



*A torque tester is required to calibrate and check torque



Torque is adjusted at the front of the screwdriver



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KBL – Clutch Screwdrivers

Brushless and Maintenance Free



Torque is adjusted at the front of screwdriver



*A torque tester is required to calibrate and check torque

• KBL – Clutch & Brushless

- Brushless motor for very long life and zero maintenance
- Ergonomic slim design for easy grip
- ESD Safe
- RPM adjustment and optional ramp/ slow start
- Torque range: 0.4 - 26.7 in / lbs

Common Applications:

- Electronic and medical assembly
- Light industrial applications
- Contract manufacturing



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PLUTO/FR – Clutch Screwdrivers

- **PLUTO – Clutch**

- Coreless motor for long life
- Greater torque range to cover more applications
- ESD safe
- Slow start, with RPM adjustment
- Torque range: 4.4 – 62 in / lbs

Common Applications:

- Electronic and medical assembly
- Heavy duty applications not suitable for standard clutch controller screwdrivers.

Coreless High Quality Motor



Torque is adjusted at the front of the screwdriver



*A torque tester is required to calibrate and check torque



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EDU2AE – Current Controlled

• **PLUTO – Current Controlled**

- Programmable, current-controlled electric screwdriver system available **in torque-only or torque and angle configurations**
- Single output or multiple torque output (8 Programming Sequences)
- Torque range: 2 - 620 in / lbs
- Repeatability + - 5%
- **Automation**

Common Applications:

- Assembly where higher torque accuracy is required for error-proof manufacturing
- Assembly where it is required to have certain communication and traceability

Torque is set though a programmable control unit.



Coreless motor



*A torque tester is required to calibrate and check torque



KOLVER

NATO & MITO – Current Controlled

• NATO & MITO – Current Controlled

- Same features as PLUTO, but for lower torque applications
- Torque range: 0.18 - 13.3 in / lbs

Common Applications:

- Cell phone assembly and repair
- Medical devices assembly

Torque is set though a programable control unit.



Coreless motor



* torque tester is required to calibrate and check torque



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K-DUCER – Transducerized System

• K-DUCER – Transducerized System

- Programmable electric screwdriver system, with internal transducer, with programming and complete readings of **torque and angle**
- The transducer monitors, records and reacts to torque
- Multiple programs and sequences
- Repeatability + - 3%
- **Automation**
- Torque range: 0.9 - 133 in / lbs

Common Applications:

- Assembly where higher torque accuracy is required for error-proof manufacturing
- Assembly where it is required to have high communication and traceability

Torque is set on an advanced and intelligent programmable controller



Coreless motor



*****Does not require a torque analyzer to verify settings as it has an internal transducer*****



KOLVER



5" color touchscreen



64 programs and 8 secuencies



Class A Transducer – Highest precision



Easy programing



Modbus TCP open communication protocol



ISO & CPK data available



Data export



Free software for remote programming, data collection & graphing



3 Different Technologies for Fastening Solutions for each application

We offer screwdrivers available in the following configurations:

In-line

Right Angle

Pistol

Aluminum body CA (automation)

Version with flange mount available



Torque Testers

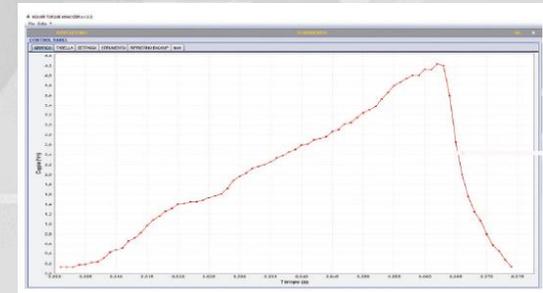
Mini K/S Series (feature a built-in transducer.):

- Three units of torque measurement available; Nm, Kg.cm, in-lb.
- 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 (feature a built-in transducer and can also be connected to an external transducer):

- 500 readings memory.
- Selection among Nm, Ncm, Kg.cm, in-lb.
- RS232C output (cable not included).
- Indication \leq \geq of the preset values
- 9 V rechargeable battery provides 4 hours of continuous operation. Automatic switch off to reduce battery consumption.
- Output signal at preset reached value.
- Clockwise and counter-clockwise measurements.
- 3 models of operation: Peak +, Peak -, Track.
- Manual or automatic reset.



Free Torque Analyzer Software



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Intelligent Torque Arms

Positioning arm models



TLS1/CAR Positioning Carbon Arm

TLS1/LINAR1 and TLS1/LINAR2



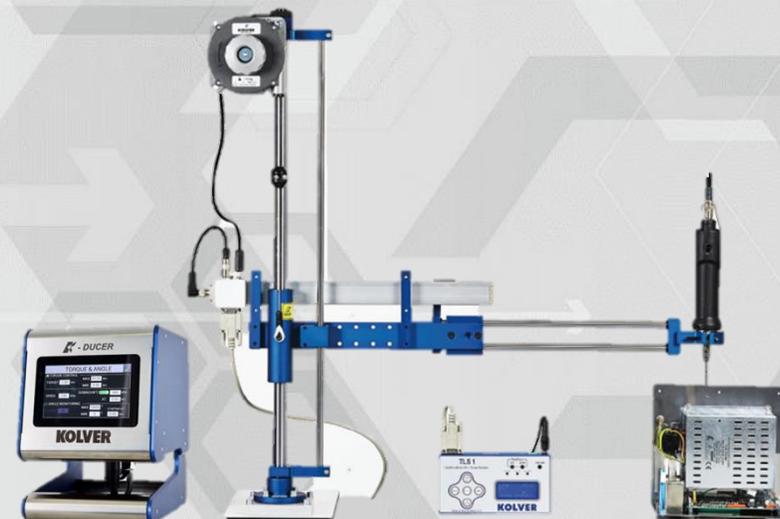
TLS1/LINART Positioning Folding Arm

TLS1/SAR XYZ Suspended Arm

- **TLS – with Encoders**

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.



Torque Arms

Support arm models



PA2KOL Folding Arm



PS7KOL Folding Arm



LINAR and LINART Arms



CAR Telescopic Carbon Arm



SAR XYZ Suspended Arm



SAR XZ



SAR Z

Main Features:

- Support arms maneuver 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.
- Up to 664 in-lb



Screw Feeders

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.

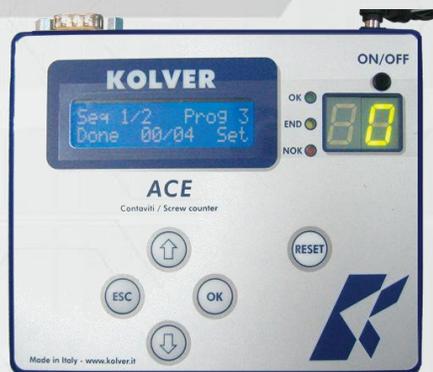


Manual Applications

Automated Applications

Accessories

- Light Towers
- Bit-trays
- Switch Boxes
- Screw Counters
- Dual Connectors
- Printers
- Tool Balancers
- Bar Code Readers
- Lock covers
- Universal Robots tool holders





KOLVER

Contact us!

Smart Assembly Systems