



KOLVER





KOLVER

Fastening Solutions





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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





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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
programable control
unit.



Coreless motor



*A torque tester is
required to calibrate and
check torque



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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 through a
programmable 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



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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





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Torque Testers

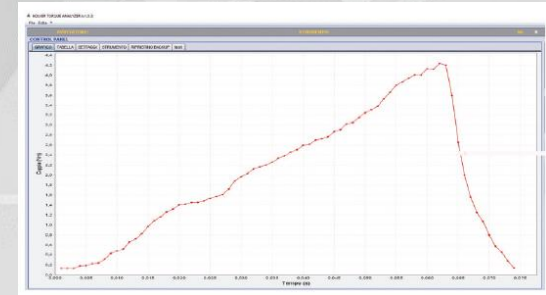
Mini K/S Series (feature a built-in transducer.):

- 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 $=$ $>$ 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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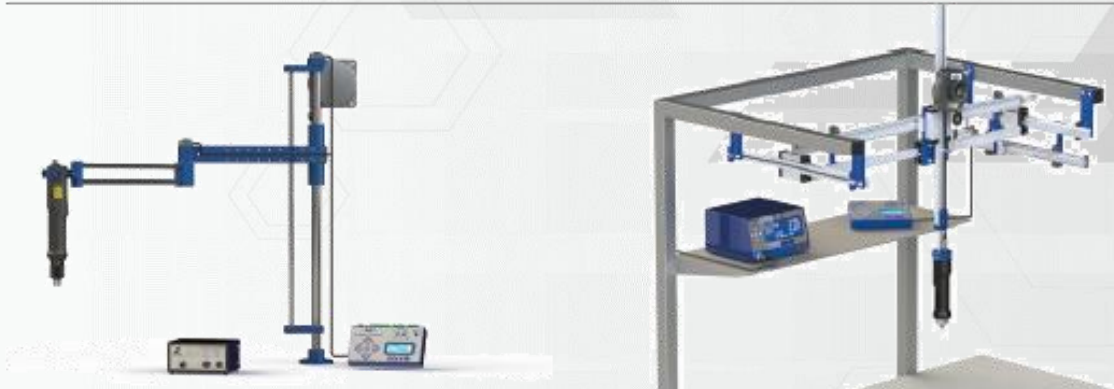
Intelligent Torque Arms

Positioning arm models



TLS1/CAR Positioning Carbon Arm

TLS1/LINAR1 and TLS1/LINAR2



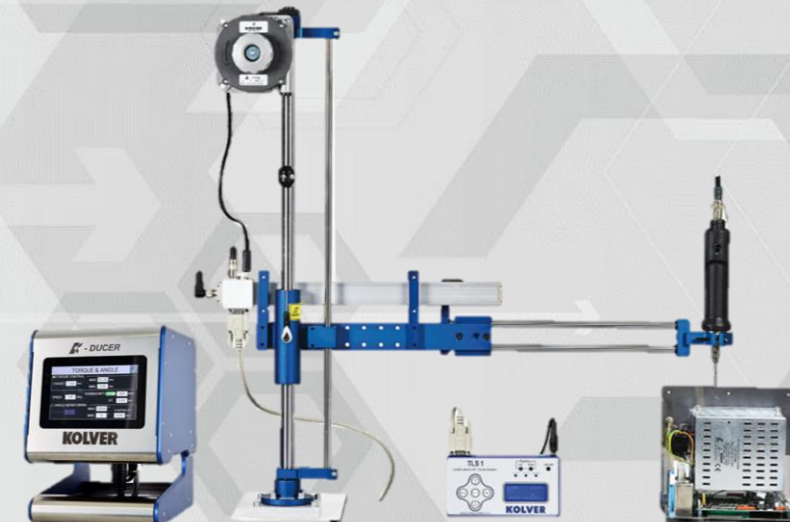
TLS1/LINART Positioning Folding Arm

TLS1/SAR XYZ Suspended Arm

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.

- **TLS** – with Encoders



Torque Arms

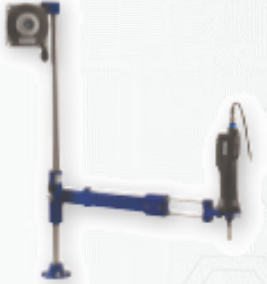
Support arm models



PA2KOL Folding Arm



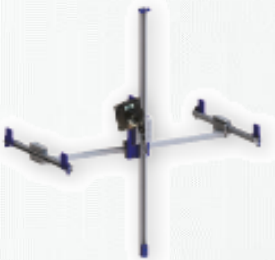
PS7KOL Folding Arm



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



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Accessories

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

