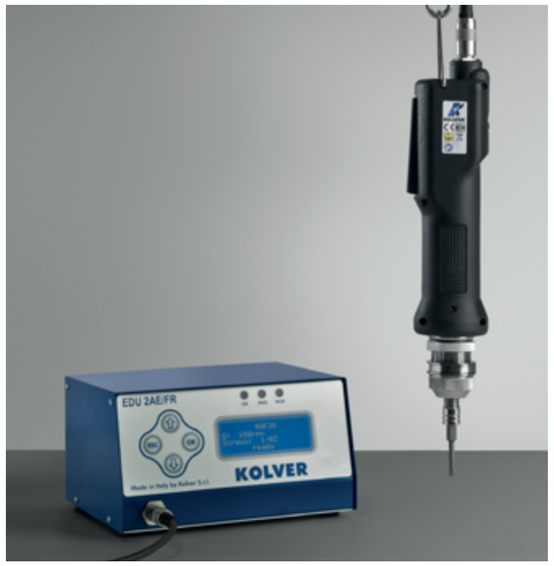


FAB & RAF Screwdrivers | Torque range 0.4 – 44 in-lb

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 quieter 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.

ESD-safe housing

Inline FAB Screwdrivers

Code	Model	Torque in-lb	RPM min-max	Dimensions in	Weight lb	Start Option
110003/FR	FAB03SS/FR	0.4 - 2.7	450 - 650	9.3 x 1.3	1.1	Lever Start
110010/FR	FAB10RE/FR	0.4 - 7	600 - 1000	9.3 x 1.3	1.1	Lever Start
110012/FR	FAB12RE/FR	1.8 - 10.6	600 - 1000	9.3 x 1.3	1.1	Lever Start
112012/FR	FAB12PS/FR	1.8 - 10.6	600 - 1000	9.8 x 1.3	1.1	Push-to-start
110618/FR	FAB18RE/FR	2.7 - 16	450 - 650	9.3 x 1.3	1.1	Lever Start
112618/FR	FAB18PS/FR	2.7 - 16	450 - 650	9.8 x 1.3	1.1	Push-to-start

Inline RAF Screwdrivers

Code	Model	Torque in-lb	RPM min-max	Dimensions in	Weight lb	Start Option
120032/FR	RAF32NS/FR	6.2 - 28.3	600 - 1000	10.2 x 1.6	1.4	Lever Start
122032/FR	RAF32PS/FR	6.2 - 28.3	600 - 1000	10.6 x 1.6	1.4	Push-to-start
120638/FR	RAF38NS/FR	8 - 33.6	450 - 650	10.2 x 1.6	1.4	Lever Start
122638/FR	RAF38PS/FR	8 - 33.6	450 - 650	10.6 x 1.6	1.4	Push-to-start
120650/FR	RAF50NS/FR	8 - 44.3	400 - 700	10.2 x 1.6	1.4	Lever Start
122650/FR	RAF50PS/FR	8 - 44.3	400 - 700	10.6 x 1.6	1.4	Push-to-start

Pistol grip FAB Screwdrivers

Code	Model	Torque in-lb	RPM min-max	Dimensions in	Weight lb	Connector Option
110013/FR	FAB12PP/FR	1.8 - 10.6	600 - 1000	8.7 x 6.3 x 1.7	1.1	Bottom connector
110013/FR/U	FAB12PP/FR/U	1.8 - 10.6	600 - 1000	8.7 x 6.4 x 1.7	1.1	Top connector
110619/FR	FAB18PP/FR	2.7 - 16	450 - 650	8.7 x 6.3 x 1.7	1.1	Bottom connector
110619/FR/U	FAB18PP/FR/U	2.7 - 16	450 - 650	8.7 x 6.4 x 1.7	1.1	Top connector

Pistol grip RAF Screwdrivers

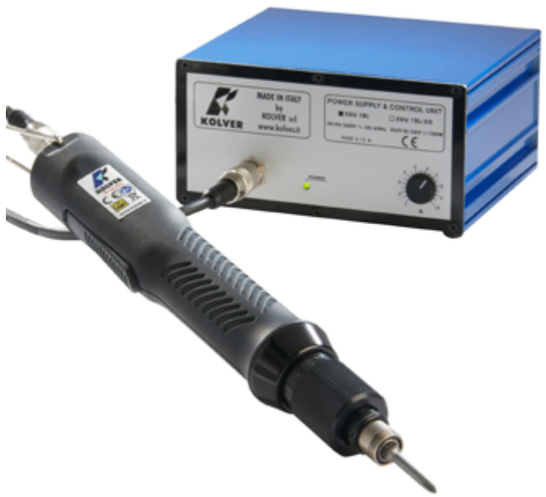
Code	Model	Torque in-lb	RPM min-max	Dimensions in	Weight lb	Connector Option
120033/FR	RAF32PP/FR	6.2 - 28.3	600 - 1000	8.7 x 6.3 x 1.7	1.4	Bottom connector
120033/FR/U	RAF32PP/FR/U	6.2 - 28.3	600 - 1000	8.7 x 6.4 x 1.7	1.4	Top connector
120639/FR	RAF38PP/FR	8 - 33.6	450 - 650	8.7 x 6.3 x 1.7	1.4	Bottom connector
120639/FR/U	RAF38PP/FR/U	8 - 33.6	450 - 650	8.7 x 6.4 x 1.7	1.4	Top connector
120651/FR	RAF50PP/FR	8 - 44.3	400 - 700	8.7 x 6.3 x 1.7	1.5	Bottom connector
120651/FR/U	RAF50PP/FR/U	8 - 44.3	400 - 700	8.7 x 6.4 x 1.7	1.5	Top connector

Control units for FAB & RAF Screwdrivers

Code	Model	Adjustable Speed	Ramp Option	I/O Signals	Serial Print	Screw Count	Run Time	Weight lb	Dimensions in
010010/FR	EDU1FR	•	•	-	-	-	-	1.3	5.4 x 4.6 x 2.6
010010/FR/SG	EDU1FR/SG	•	•	•	with ACE	with ACE	-	1.3	5.4 x 4.6 x 2.6
032000/FR	EDU2AE/FR	•	•	•	•	•	•	5.3	7.7 x 6.7 x 4.3

2D and 3D drawings available on kolver.com

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



KBL Brushless Screwdrivers | Torque range 0.4 – 26.7 in-lb

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.

ESD-safe housing

Inline KBL Screwdrivers

Code	Model	Torque in-lb	RPM min-max	Dimensions in	Weight lb	Control unit
Standard models						
190004	KBL04FR	0.4 - 3.5	700 - 1150	10 x 1.5	1.1	EDU1BL
190015	KBL15FR	3.5 - 13.3	700 - 1150	10 x 1.5	1.1	EDU1BL
190030	KBL30FR	6.2 - 26.5	700 - 1150	10.6 x 1.7	1.4	EDU1BL
190040	KBL40FR	8 - 35	400 - 700	10.6 x 1.7	1.4	EDU1BL
Models with I/O signals						
190004/S	KBL04FR/S	0.4 - 3.5	700 - 1150	10 x 1.5	1.1	EDU1BL/SG
190015/S	KBL15FR/S	3.5 - 13.3	700 - 1150	10 x 1.5	1.1	EDU1BL/SG
190030/S	KBL30FR/S	6.2 - 22	700 - 1150	10.6 x 1.7	1.4	EDU1BL/SG
190040/S	KBL40FR/S	8 - 26.7	400 - 700	10.6 x 1.7	1.4	EDU1BL/SG

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

Pistol grip KBL Screwdrivers

Code	Model	Torque in-lb	RPM min-max	Dimensions in	Weight lb	Control unit
Standard models						
190005	KBL04P/FR	0.4 - 3.5	700 - 1150	6 x 8.3 x 1.8	1.1	EDU1BL
190016	KBL15P/FR	3.5 - 13.3	700 - 1150	6 x 8.3 x 1.8	1.1	EDU1BL
190031	KBL30P/FR	6.2 - 26.5	700 - 1150	6 x 8.5 x 1.8	1.4	EDU1BL/HT
190041	KBL40P/FR	8 - 35	400 - 700	6 x 8.5 x 1.8	1.4	EDU1BL/HT
Models with I/O signals						
190005/S	KBL04P/S	0.4 - 3.5	700 - 1150	6 x 8.3 x 1.8	1.1	EDU1BL/SG
190016/S	KBL15P/S	3.5 - 13.3	700 - 1150	6 x 8.3 x 1.8	1.1	EDU1BL/SG
190031/S	KBL30P/S	6.2 - 22	700 - 1150	6 x 8.5 x 1.8	1.4	EDU1BL/SG
190041/S	KBL40P/S	8 - 26.7	400 - 700	6 x 8.5 x 1.8	1.4	EDU1BL/SG

Angle head KBL Screwdrivers

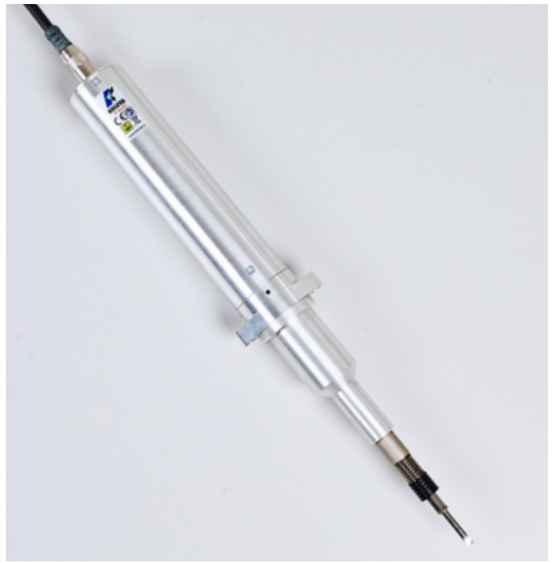
Code	Model	Torque in-lb	RPM min-max	Dimensions in	Weight lb	Control unit
190004/A	KBL04FR/ANG	0.4 - 3.5	700 - 1150	12.4 x 1.5	1.3	EDU1BL
190015/A	KBL15FR/ANG	3.5 - 13.3	700 - 1150	12.4 x 1.5	1.3	EDU1BL
190030/AD	KBL30FR/ANG	6.2 - 26.5	700 - 1150	13 x 1.7	1.5	EDU1BL/HT
190040/AD	KBL40FR/ANG	8 - 35	400 - 700	13 x 1.7	1.5	EDU1BL/HT

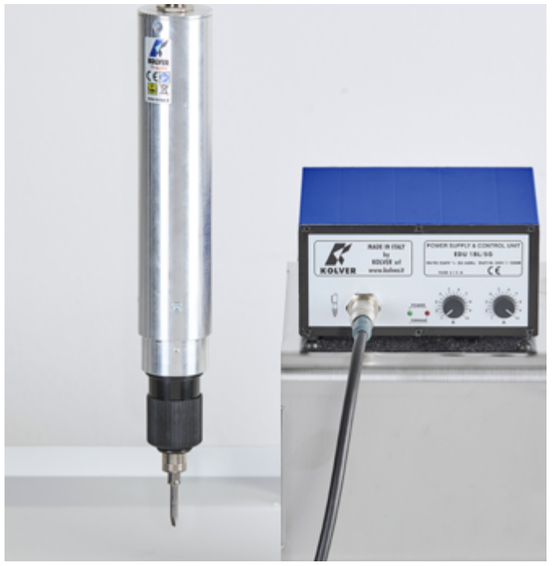
Control units for KBL Screwdrivers

Code	Model	Settable Speed	Ramp Option	I/O Signals	Serial Print	Screw Count	Min-Max Run Time	Weight lb	Dimensions in
003000	EDU1BL	•	-	-	-	-	-	1.3	5.4 x 4.6 x 2.6
003000/SG	EDU1BL/SG	•	•	•	with ACE	with ACE	with ACE	1.3	5.4 x 4.6 x 2.6

2D and 3D drawings available on kolver.com

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





KBL Screwdrivers for Automation | Torque range 0.4 – 26.7 in-lb

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 maintenance-free solution. The absence of maintenance operations guarantees high productive continuity.

For clean-room environments
KBL screwdrivers are perfect for automated applications requiring clean-room standards. No brushes means zero emissions of carbon dust or other pollutants into the working environment, which guarantees high-quality 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 together or separately.

Robotic application
SCAN TO WATCH

ESD-safe housing

Aluminium housing KBL Screwdrivers

Code	Model	Torque in-lb	RPM min-max	Dimensions in	Weight lb	Bit Drive
190004/CA	KBL04FR/CA	0.4 - 3.5	700 - 1150	10.1 x 1.6	1.3	Hex 1/4"
190015/CA	KBL15FR/CA	3.5 - 13.3	700 - 1150	10.1 x 1.6	1.3	Hex 1/4"
190030/CA	KBL30FR/CA	6.2 - 26.5	700 - 1150	10.4 x 1.6	1.5	Hex 1/4"
190040/CA	KBL40FR/CA	8 - 35	400 - 700	10.4 x 1.6	1.5	Hex 1/4"

Aluminium housing KBL Screwdrivers with flange mount

Code	Model	Torque in-lb	RPM min-max	Dimensions in	Weight lb	Bit Drive
190004/CA/FN	KBL04FR/CA/FN	0.4 - 3.5	700 - 1150	13 x 1.6	1.4	Hex 1/4"
190015/CA/FN	KBL15FR/CA/FN	3.5 - 13.3	700 - 1150	13 x 1.6	1.4	Hex 1/4"
190030/CA/FN	KBL30FR/CA/FN	6.2 - 26.5	700 - 1150	13.3 x 1.6	1.8	Hex 1/4"
190040/CA/FN	KBL40FR/CA/FN	8 - 35	400 - 700	13.3 x 1.6	1.8	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 lb	Dimensions in
003000/SG	EDU1BL/SG	•	•	•	with ACE	with ACE	with ACE	1.3	5.4 x 4.6 x 2.6

2D and 3D drawings available on kolver.com

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