

## BRUSHLESS Screwdrivers

TORQUE FROM 0,04 TO 4 Nm

KBL series electric screwdrivers feature state-of-the-art brushless motors and clutch torque control, the perfect solution for clean room applications thanks to zero emissions of coal dust and other pollutants into the working environment. Small and lightweight for utmost operator comfort and with advanced ergonomic design, they ensure very low noise level, minimum vibrations and maximum safety (low supply voltage). Magnetic clutch switches last 10 times more than traditional switches: the absence of maintenance operations guarantees high productive continuity. KBL screwdrivers are equipped with a sophisticated electronic torque control system that will cut the power supply to the motor as soon as the pre-set torque has been reached. KBL drivers are available in inline body or for automation and they all come standard with an ESD-safe body. The new clutch for the adjustment of the tightening torque guarantees an excellent accuracy on the whole torque range. Rotation speed can be adjusted over a wide range: this function allows the operator to work on different materials always at the proper speed. They work with EDU1BL and EDU1FR control units (5 pin connector). It is also possible to connect two screwdrivers to one control unit via a double output connector (model DOCK02, or DOCK02/S for KBL with signals).

KBL../S are equipped with innovative electronics, which processes and sends torque, error and lever signals and receives remote start and reverse input. They're mainly indicated for automated applications (KBL..CA, see dedicated page).

They work with EDU1BL/SG control units (8 pin connector).

The new heavy duty cables and connectors, developed for robotic applications, are made of antistatic dissipative material for safe use in an EPA environment.



ANGLE HEAD

\* All models available in pistol type.

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

Model	Code	Torque Nm	RPM min-max	Weight kg	Dimensions mm	Output	Control unit
KBL04FR	190004	0,04-0,4	650-1000	0,50	255x37	Hex 1/4"	EDU1FR or EDU1BL
KBL15FR	190015	0,4-1,5	650-1000	0,50	255x37	Hex 1/4"	EDU1FR or EDU1BL
KBL30FR	190030	0,7-3,0	650-1000	0,65	268x43	Hex 1/4"	EDU1FR or EDU1BL
KBL40FR	190040	0,9-4,0	450-750	0,65	268x43	Hex 1/4"	EDU1FR or EDU1BL
KBL04FR/S	190004/S	0,04-0,4	650-1000	0,50	255x37	Hex 1/4"	EDU1BL/SG
KBL15FR/S	190015/S	0,4-1,5	650-1000	0,50	255x37	Hex 1/4"	EDU1BL/SG
KBL30FR/S	190030/S	0,7-3,0	650-1000	0,65	268x43	Hex 1/4"	EDU1BL/SG
KBL40FR/S	190040/S	0,9-4,0	450-750	0,65	268x43	Hex 1/4"	EDU1BL/SG

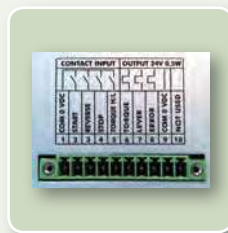
## BRUSHLESS Control Units



EDU1BL

EDU1BL/SG  
Control unit with signals

All Kolver screwdrivers work in combination with a control unit acting 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. The EDU1BL, and EDU1BL/SG control units for KBL screwdrivers feature maintenance free state-of-the-art electronics with no wearing components. They come standard with the torque knob to adjust the torque (from 60% to 100%) of current control tools and a green LED which indicates when the control unit is on. EDU1BL/SG control unit works with KBL..FR/S or KBL..FR/CA and it additionally features signals for reached/not reached torque, pressed lever and remote start/reverse. A double output connector (Dock02 or Dock02/S for models with signals) is also available for operators using two screwdrivers at the same time. KBL..FR screwdrivers work in combination with our standard EDU1FR controllers. This option will allow existing customers to replace FAB & RAF drivers with no need to replace controllers.

BACK CONNECTOR  
(EDU1BL/SG ONLY)ACE SCREW COUNTER  
(see page 24)

DOUBLE OUTPUT CONNECTOR FOR KBL

A double output connector is available for operators using two KBL screwdrivers in the same working area. Model DOCK02 (code 020035) is meant to be used with KBL..FR, while model DOCK02/S (code 020035/S) is to be used with KBL..FR/S (with signals) or KBL..CA (for automation). The two screwdrivers can be used at the same time.

Model	Code	Features	Weight kg	Dimensions mm	Screwdriver
EDU1BL	003000	Adjustable speed	0,6	138x118x67	KBL04FR, 15FR, 30FR, 40FR
EDU1BL/SG	003000/SG	Slow start and adjustable speed. Output signals: torque, error and lever; Input signals: start, stop and reverse.	0,6	138x118x67	KBL04FR/S, 15FR/S, 30FR/S, 40FR/S

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