



KOLVER

CONTROL UNITS

CONTROL UNITS FAB & RAF SERIES



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 EDU1FR control units for FAB and RAF screwdrivers feature a maintenance free state-of-the-art electronics with no wearing components with a circuit design suitable to both lever start and push start drivers with protection against current overload up to 10A. This design results in very low current to the driver's start switch and clutch switch to extend their life indefinitely. Additional features:

- Suitable to universal supply from 90 to 260 V ac 50/60 hz.
- Slow start (0-2 seconds) and RPM (60% to 100%).
- Visual indicators (green-red) for power on/off and clutch action.
- Reduced weight (0.6 kg) and compact size for easy placement.
- M12 waterproof connector with silver and gold contacts for perfect conductivity.

The EDU1FR/SG controller features additional circuits wired to one connector in the back panel: output 24V for torque reached and lever signals; input start and reverse contacts. A double output connector (DOCK01) is also available for operators using two screwdrivers on the same working area (only FAB and RAF series). One end of this device is to be connected to the controller (cable included), the other end to the drivers. The screwdrivers are not to be used at the same time.



ACE SCREW COUNTER



SOFT START AND SPEED REGULATION



SPIRAL CABLE



DOUBLE OUTPUT DEVICE WITH CABLE

Code	Model	Features	Dimensions mm	Weight kg	Screwdriver
010010/FR	EDU1FR	In: 90-260Vca out: 18-30Vcc power 120VA slow start and adjustable speed	138x118x67	0,600	All FAB and RAF
010010/FR/SG	EDU1FR/SG	Input: start and reverse contacts Output: torque reached & lever signal	138x118x67	0,600	All FAB and RAF



KOLVER



EDU2AE & EDU2AE/HP



EDU2AE/TOP
& EDU2AE/TOP/TA



BIT/SOCKET TRAY



SWITCH BOX

CONTROL UNITS PLUTO SERIES

EDU2AE, EDU2AE/HP and EDU2AE/TOP control units 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.

EDU2AE, EDU2AE/HP and EDU2AE/TOP control units can be used in combination with any Kolver current control and/or clutch PLUTO screwdriver.

An easy-to-use scroll menu allows to select, set and/or adjust the following functions:

- screwdriver model
- tightening torque, fastening and unscrewing speed
- type of joint (soft/hard)
- acceleration ramp
- min and max fastening time
- autoreverse

In addition to the above mentioned functions, EDU2AE/HP control unit features:

- password protect settings
- prevailing torque function (threadcutting)
- clockwise or counterclockwise rotation (right or left screws) with torque control
- torque value in Nm on the display through dedicated calibration menu
- screw count function
- min-max torque interval with OK or NOK signal

The EDU2AE/TOP multiple torque system is designed to expand the functionality of the PLUTO screwdriver. In addition to the a.m. options it also features:

- 8 independent programs: with one PLUTO screwdriver you can replace 8 conventional screwdrivers.
- Time and date
- Program selection by barcode
- Program selection by socket tray and/or switchbox
- Also available in TA version with torque/angle combined control functions (see dedicated page)

All units are supplied with a 10 pin I/O connector with torque reached, pressed lever and error signals and start, stop and remote reverse contacts.

EDU2AE/TOP supplied with 7 additional connectors for multiple functions.

Serial port available on request

Code	Model	Features	Dimensions mm	Weight kg
031000	EDU2AE	Programmable with user interface screens	195x110x170	3,7
031000/HP	EDU2AE/HP	Programmable with user interface screens screw counter, PV option, torque value display	195x110x170	3,7
031000/TOP	EDU2AE/TOP	8 different programs - selection by barcode, socket tray, switchbox	190x205x120	4,0

CONTROL UNITS



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CONTROL UNITS KBL SERIES

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 a 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 (Dock01) is also available for operators using two screwdrivers at the same time.

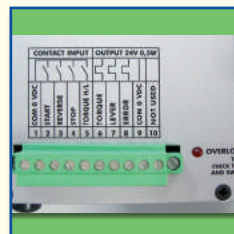
KBL..FR screwdrivers work in combination with our standard EDU1FR controllers. This option will allow existing customers to replace FAB & RAF drivers with no need to replace controllers.



DOUBLE OUTPUT CONNECTOR



ACE SREW COUNTER



BACK CONNECTOR



TLS POSITIONING ARM

Code	Model	Features	Dimensions mm	Weight Kg
003000	EDU1BL	Adjustable torque	138x118x37	0,6
003000/SG	EDU1BL/SG	Input: start and reverse contacts. Output: reached torque and pressed lever	138x118x37	0,6



KOLVER



EDU2AE



EDU1BL/SG



TELESCOPIC SPINDLE



MULTI SPINDLE

CONTROL UNITS CA SERIES

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.

For the Pluto..CA series the EDU2AE gives you all the advantages of precision torque controlled electric tools at a fraction of the price of transdurized tools. The microprocessor based unit cuts the power supply to the motor calculating the correct torque in response to 3 parameters, voltage frequency and current, according to the selected options. Additional features:

- One controller only for a torque range from 0,3 to 35 Nm
- User interface screens: walk through a few simple steps to input the parameters requested for your application and your fastening process can begin.
- Slow start and adjustable speed.
- Soft or hard joint option.
- High speed rundown and slow speed tightening for improved accuracy.
- Autostop on elapsed time, automatic reverse at cycle end with adjustable time stop.
- Torque reached signal and lever signal, remote start and reverse contacts.
- Serial port for data downloading available on request for all models.

Any PLUTO..CA screwdriver can also be used with the EDU2AE/HP and EDU2AE/TOP control units (see main features on page Control Units - PLUTO series)

The EDU1BL/SG control units for KBL..CA screwdrivers feature a maintenance free state-of-the-art electronics with no wearing components.

They come standard with:

- adjustable speed (60% to 100%)
- visual indicators (green-yellow-red) for power on/off, torque reached or not reached
- input: start and reverse contacts
- output 24V for torque reached and lever signals.

Code	Model	Features	Dimensions mm	Weight kg	Screwdriver
031000	EDU2AE	Programmable with user interface screens	195x110x170	3,7	PLUTO
031000/HP	EDU2AE/HP	Programmable with user interface screens screw counter, PV option, torque value display	195x110x170	3,7	PLUTO
031000/TOP	EDU2AE/TOP	8 different programs - selection by barcode, socket tray, switchbox	190x205x120	4,0	PLUTO
003000/SG	EDU1BL/SG	Input: start and reverse contacts. Output: reached torque and pressed lever	138x118x37	0,6	KBL

	EDU2AE	EDU2AE/FR	EDU2AE/HP	EDU2AE/HP/PRO	EDU2AE/TOP	EDU2AE/TOP/TA
Settable Torque percentage	x		x	x	x	x
Type of joint selection	x		x	x	x	x
Brake time	x		x	x	x	x
Ramp	x	x	x	x	x	x
Settable speed	x	x	x	x	x	x
Min/max time settings	x	x	x	x	x	x
Auto reverse	x	x	x	x	x	x
Settable loosening speed	x		x	x	x	x
Settable loosening torque	x		x	x	x	x
Run time		x				
Prevailing torque			x	x	x	x
Clockwise/anticlockwise tightening			x	x	x	x
Password		x	x	x	x	x
Calibration			x	x	x	x
Nm/lb/n selection			x	x	x	x
Min/max torque			x	x	x	x
Screw count		x	x	x	x	x
Multitorque					x	x
Lever error					x	x
Enable/Disable loosening					x	x
Barcode					x	x
Serial print		x		x	x	x
Error, lever, torque signals	x	x	x	x	x	x
Cycle end, reset, motor on signals		x		x	x	x
Optional screwdriver connector on back panel		x		x		

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