

# KOLVER

ELECTRIC SCREWDRIVERS



**KOLVER**

*The easy solution®*









Founded in 1989, KOLVER has soon taken the leadership in the European market of precision electric screwdrivers for industry.

Thousands of state-of-the-art drivers are produced every year in Italy and then shipped to more than 30 Countries worldwide. ISO 9001 certified since 1998, KOLVER has gained international recognition for building premier quality innovative products that meet or even anticipate the most rigorous customer requirements. More than 80% of the products you find in this catalogue have been introduced over the last 2 years: no other manufacturer of electric screwdrivers comes close to this record.

*Screwdrivers is the term commonly used for assembly tools in the screw size up to M8. This catalogue is designed to help you select the right screwdriver for your assembly application. The Kolver family of tools is one of the most complete in the electric power tool industry. Kolver line of tools covers a wide range of torque at several speeds, suitable for an indefinite number of applications. Whether your job is in the Electronics, PC assembly, Telecommunication or in the Motor vehicles or Household appliances industry, you'll find the optimum screwdriver for each application.*



## **KOLVER SCREWDRIVER IS**

-  **ERGONOMIC**  
Advanced grip design, light in weight, low vibrations, for maximum operator comfort
-  **CLEAN**  
No air exhaust + No lubrication = a cleaner environment
-  **SAFE**  
Because of the transformer, only 30 V to the tool
-  **FLEXIBLE**  
From the controller you can adjust the running speed and the slow start duration. PLC models also available for additional functions
-  **ACCURATE**  
With the electronic shut off mechanism the accuracy is better than +/- 5% of the full scale value
-  **FOR EVERY APPLICATION**  
Range up to 15 Nm, straight, pistol, 90°, ESD, with vacuum, lever start or push to start...
-  **NOISELESS**  
Noise within 55 dB(A)
-  **COST EFFECTIVE**  
Low purchasing price + virtually no maintenance + no need of compressed air line + no need of spiral hoses & couplers & filters-regulators-lubricators = operating cost up to 200 times cheaper than pneumatic screwdrivers



# KOLVER



## FAB SERIES (TORQUE UP TO 1,8 NM)

FAB series electric screwdrivers are our "best sellers" for the electronic industry. Their advanced ergonomic design, ease of use, high accuracy and durability have made these drivers the standard by which all others are measured. They are lightweight, compact, powerful and come standard with ESD-safe housing certified to SP method 2472 (Ericsson approved). The FAB screwdrivers are available in an inline body style with either a lever start or push to start or in a pistol grip with a trigger start (also available with the cord coming out from the top - U option) and different speeds, for different assembly requirements.

The torque is set externally: an adjusting nut controls output torque by changing the clutch spring compression. A reference scale will indicate the torque setting. The low voltage 30 V DC rare earth motors combine high performances and long life. Replacing their carbon brushes once a year is all you need for maintenance.

The motor works in combination with a control unit. The electronic control circuit cuts the power supply to the motor in response to the clutch action, as soon as the pre-set torque has been reached.

Standard features are the slow start (ramp from 0 to 2 seconds) and adjustable speed (from 60% to 100% of nominal speed).

In addition the controller can be supplied with torque reached signal, lever signal, remote start and reverse (see page of control units) or with PLC option.

All FAB drivers come standard with an ESD-safe body, 2.5 m connection cable and suspension bail.

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



TORQUE SET UP



PISTOL MODEL



ANGLE HEAD  
CODE 010100 (ONLY  
FOR LEVER TYPE)



NEW CABLE WITH M12  
CONNECTOR

| Code        | Model        | Torque Nm | Screw size | RPM  | Start option | Weight kg | L x Ø mm   | Voltage cc | Controller | Housing option                 |
|-------------|--------------|-----------|------------|------|--------------|-----------|------------|------------|------------|--------------------------------|
| 110003/FR   | FAB03SS/FR   | 0,05±0,3  | M2.5       | 650  | Lever        | 0,45      | 220x33     | 30 Vcc     | EDUIFR     |                                |
| 110010/FR   | FAB10RE/FR   | 0,05±0,8  | M2.5       | 1000 | Lever        | 0,48      | 220x33     | 30 Vcc     | EDUIFR     |                                |
| 110012/FR   | FAB12RE/FR   | 0,2±1,2   | M3         | 1000 | Lever        | 0,48      | 220x33     | 30 Vcc     | EDUIFR     |                                |
| 112012/FR   | FAB12PS/FR   | 0,2±1,2   | M3         | 1000 | Push start   | 0,48      | 220x33     | 30 Vcc     | EDUIFR     |                                |
| 110013/FR   | FAB12PP/FR   | 0,2±1,2   | M3         | 1000 | Lever        | 0,55      | 200x150x34 | 30 Vcc     | EDUIFR     | Pistol grip                    |
| 110013/FR/U | FAB12PP/FR/U | 0,2±1,2   | M3         | 1000 | Lever        | 0,55      | 200x150x34 | 30 Vcc     | EDUIFR     | Pistol grip with top connector |
| 110618/FR   | FAB18RE/FR   | 0,3±1,8   | M4         | 650  | Lever        | 0,48      | 220x33     | 30 Vcc     | EDUIFR     |                                |
| 112618/FR   | FAB18PS/FR   | 0,3±1,8   | M4         | 650  | Push start   | 0,48      | 220x33     | 30 Vcc     | EDUIFR     |                                |
| 110619/FR   | FAB18PP/FR   | 0,3±1,8   | M4         | 650  | Lever        | 0,55      | 200x150x34 | 30 Vcc     | EDUIFR     | Pistol grip                    |
| 110619/FR/U | FAB18PP/FR/U | 0,3±1,8   | M4         | 650  | Lever        | 0,55      | 200x150x34 | 30 Vcc     | EDUIFR     | Pistol grip with top connector |



# KOLVER

## RAF SERIES (TORQUE UP TO 3,8 NM)

RAF Series screwdrivers are designed to meet higher torque applications. The advanced ergonomic body design reduces Carpal Tunnel Syndrome. They are lightweight, compact, powerful and come standard with ESD-safe housing certified to SP method 2472 (Ericsson approved). The RAF series' wide torque range and tight torque accuracy combined with the adjustable RPMs and slow-start options, make it a versatile tool ideal for multiple applications. The RAF screwdrivers are available in an inline body style with either a lever start or push to start or in a pistol grip with a trigger start (also available with the cord coming out from the top - U option) and different speeds, for different assembly requirements.

The torque is set externally: an adjusting nut controls output torque by changing the clutch spring compression. A reference scale will indicate the torque setting. The low voltage 30 V DC rare earth motors combine high performances and long life. Replacing their carbon brushes once a year is all you need for maintenance.

The motor works in combination with a control unit. The electronic control circuit cuts the power supply to the motor in response to the clutch action, as soon as the pre-set torque has been reached. Standard features are the slow start (ramp from 0 to 2 seconds) and adjustable speed (from 60% to 100% of nominal speed).

In addition the controller can be supplied with torque reached signal, lever signal, remote start and reverse (see page of control units) or with PLC option.

All RAF drivers come standard with an ESD-safe body, 2.5 m connection cable and suspension bail.

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



# RAF SERIES



TORQUE SET UP



PISTOL MODEL



ANGLE HEAD  
CODE 010120 (ONLY  
FOR LEVER TYPE)



NEW CABLE WITH M12  
CONNECTOR

| Code        | Model        | Torque Nm | Screw size | RPM  | Start option | Weight kg | L x Ø mm   | Voltage cc | Controller | Housing option                 |
|-------------|--------------|-----------|------------|------|--------------|-----------|------------|------------|------------|--------------------------------|
| 120032/FR   | RAF32NS/FR   | 0,7÷3,2   | M5         | 1000 | Lever        | 0,65      | 225 x 39   | 30 Vcc     | EDUIFR     |                                |
| 122032/FR   | RAF32PS/FR   | 0,7÷3,2   | M5         | 1000 | Push start   | 0,65      | 225 x 39   | 30 Vcc     | EDUIFR     |                                |
| 120033/FR   | RAF32PP/FR   | 0,7÷3,2   | M5         | 1000 | Lever        | 0,70      | 220x150x40 | 30 Vcc     | EDUIFR     | Pistol grip                    |
| 120033/FR/U | RAF32PP/FR/U | 0,7÷3,2   | M5         | 1000 | Lever        | 0,70      | 220x150x40 | 30 Vcc     | EDUIFR     | Pistol grip with top connector |
| 120638/FR   | RAF38NS/FR   | 0,9÷3,8   | M5         | 650  | Lever        | 0,65      | 225 x 39   | 30 Vcc     | EDUIFR     |                                |
| 122638/FR   | RAF38PS/FR   | 0,9÷3,8   | M5         | 650  | Push start   | 0,65      | 225 x 39   | 30 Vcc     | EDUIFR     |                                |
| 120639/FR   | RAF38PP/FR   | 0,9÷3,8   | M5         | 650  | Lever        | 0,70      | 220x150x40 | 30 Vcc     | EDUIFR     | Pistol grip                    |
| 120639/FR/U | RAF38PP/FR/U | 0,9÷3,8   | M5         | 650  | Lever        | 0,70      | 220x150x40 | 30 Vcc     | EDUIFR     | Pistol grip with top connector |



# KOLVER

## PLUTO SERIES

Kolver's ingenuity and experience have led to the development of Pluto (PLUs TORque) screwdrivers, the most advanced DC tools in the market, able to reach 15Nm of torque (4 times more than any competitor's tool). They feature:



An innovative electric motor concept with low inertia and friction with absence of iron losses for extreme efficiency and extended life. Planetary gearboxes with high quality composite materials. Pistol grip to fit operator's hand ergonomically.

A weight of 470 g to reduce operator's fatigue. Fully electronic (clutchless) torque control system, manually set by a dial on the controller, to shut the tool off automatically once the preset torque has been reached. The Pluto Series is ideal for high volume applications where millions of cycles at high torque are required.

The Pluto Series is available in a molded pistol grip with the cord set exiting from the top (U option) or bottom, or in a standard inline housing with lever start. ESD-safe housing on request. This tool is the real alternative to the pneumatic screwdriver.

The controller can be supplied with torque reached signal, lever signal, remote start and reverse (see page of control units) or with PLC option for multiple functions.

All Pluto series electric screwdrivers come standard with 2.5 m connection cable and suspension bail.

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



TORQUE SET UP ON THE CONTROLLER



U MODEL



NEW CABLE WITH M12 CONNECTOR INLINE MODEL



INLINE MODEL

| Code       | Model        | Torque Nm | Screw size | RPM | Start option | Weight kg | Dimensions mm | Voltage cc | Comtroller | Housing option                 |
|------------|--------------|-----------|------------|-----|--------------|-----------|---------------|------------|------------|--------------------------------|
| 130210/N   | PLUTO10P/N   | 2,0÷7,0   | M6         | 600 | Lever        | 0,50      | 160x130x45    | 40 Vcc     | EDU3AE/7/N | Pistol grip                    |
| 130211/N   | PLUTO10D/N   | 2,0÷7,0   | M6         | 600 | Lever        | 0,50      | 180x40        | 40 Vcc     | EDU3AE/7/N |                                |
| 130210/N   | PLUTO10P/N   | 4,0÷10    | M6         | 600 | Lever        | 0,50      | 160x130x45    | 40 Vcc     | EDU3AE/N   | Pistol grip                    |
| 130211/N   | PLUTO10D/N   | 4,0÷10    | M6         | 600 | Lever        | 0,50      | 180x40        | 40 Vcc     | EDU3AE/N   |                                |
| 130210/U/N | PLUTO10P/U/N | 4,0÷10    | M6         | 600 | Lever        | 0,50      | 160x130x45    | 40 Vcc     | EDU3AE/N   | Pistol grip with top connector |
| 130215/N   | PLUTO15P/N   | 7,0÷15    | M8         | 320 | Lever        | 0,50      | 180x40        | 40 Vcc     | EDU3AE/N   | Pistol grip                    |
| 130215/U/N | PLUTO15P/U/N | 7,0÷15    | M8         | 320 | Lever        | 0,50      | 170x130x45    | 40 Vcc     | EDU3AE/N   | Pistol grip with top connector |
| 130216/N   | PLUTO15D/N   | 7,0÷15    | M8         | 320 | Lever        | 0,50      | 180x40        | 40 Vcc     | EDU3AE/N   |                                |

Note: Pluto 10 have a different torque range if used with controller EDU3AE/7

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PLUTO SERIES

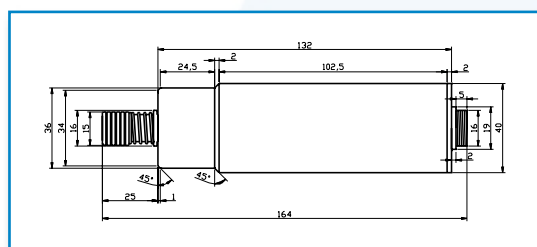


# KOLVER

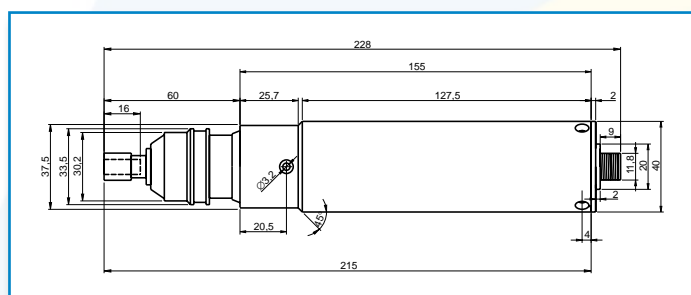
## CA SERIES

The CA screwdrivers are designed for automated and fixtured applications. Special wiring and dedicated controllers are equipped with electric signals and contacts for immediate and easy interface.

The ideal alternative to pneumatic drivers, they feature a long life maintenance free electric motor with a unique electronic torque control system for high accuracy throughout a wide torque range; an aluminium body, for easy and quick clamp, supplied with 2.5 m cable.



PLUTO CA



PLUTO CA/FR

| Code      | Model       | Torque Nm | RPM | Start option | L x Ø mm | Voltage cc | Controller  |
|-----------|-------------|-----------|-----|--------------|----------|------------|-------------|
| 130203/FR | PLUTO3CA/FR | 0,2÷0,3   | 800 | Remote       | 210x40   | 30 Vcc     | EDU1FR/SG   |
| 133211/N  | PLUTO10CA/N | 2,0÷7,0   | 600 | Remote       | 180x40   | 40 Vcc     | EDU3AE/7/SG |
| 133211/N  | PLUTO10CA/N | 4,0÷10,0  | 600 | Remote       | 180x40   | 40 Vcc     | EDU3AE/SG   |
| 133216/N  | PLUTO15CA/N | 7,0÷15,0  | 320 | Remote       | 190x40   | 40 Vcc     | EDU3AE/SG   |

CA SERIES



# KOLVER

## ACC SERIES

ACC screwdrivers with shut off torque control through mechanical clutch are direct plug-in tools with built-in PCB for automatic cut off and AC to DC rectifier.

They are ideal for applications where portability is needed to minimize costly set-up time.

ACC models have the unique feature of selectable push to start or push and lever start. To select the working mode is enough to move the switch located by the start lever.



TORQUE SET-UP



3 POSITIONS  
REVERSE SWITCH



START MODE  
(PUSH TO START  
OR PUSH + LEVER)



TORQUE  
ADJUSTING NUT COVER

| Code   | Model   | Torque Nm | Screw size | RPM  | Weight kg | L x Ø mm | Voltage cc |
|--------|---------|-----------|------------|------|-----------|----------|------------|
| 141910 | ACC2210 | 0,2÷1,0   | M3         | 950  | 0,75      | 255x35   | 230 Vca    |
| 141920 | ACC2220 | 0,7÷2,0   | M4         | 950  | 0,80      | 255x35   | 230 Vca    |
| 151222 | ACC2222 | 0,9÷2,0   | M4         | 2400 | 0,85      | 265x38   | 230 Vca    |
| 151930 | ACC2230 | 1,0÷3,0   | M5         | 950  | 0,85      | 265x38   | 230 Vca    |





# KOLVER

## CONTROL UNITS

All the FAB, RAF and Pluto series 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 new EDU1FR control units for FAB and RAF screwdrivers are the latest expression of the Kolver design and innovation philosophy. They set new standards for performances, flexibility and serviceability. They feature a maintenance free state-of-the-art electronics with no wearing components with a new 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.

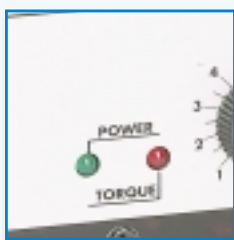
Additional features:

- High power switching transformer for minimal RPM drop under the hardest load conditions (self tapping screws on steel, etc).
- Suitable to universal supply from 90 to 260 V ac 50/60 hz.
- Precision adjustment of slow start (0-2 seconds) and RPM (60% to 100%) standard on all units.
- Visual indicators (green-red) for power on/off and clutch action. The red led also indicates clutch jamming.
- Reduced weight ( 0.6 kg ) and compact size for easy placement.
- New M12 waterproof connector with silver and gold contacts for perfect conductivity.

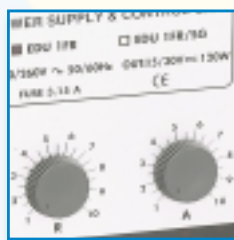
The new EDU1FR/SG controller features additional circuits wired to 2 connectors in the back panel: one connector sends out 24V signals for torque reached and lever (motor running), the second connector is designed to accept remote start and remote reverse signals.

For the Pluto series the EDU3AE/N control unit acts as a voltage transformer and torque controller. Torque is adjusted thru a dial on the front panel controlling a microprocessor cutting off the current to the driver when the pre-set torque has been reached.

A double output connector (DOCK01) is also available for operators using two screwdrivers on the same working area. 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.



VISUAL INDICATORS



SOFT START AND SPEED REGULATION



TORQUE DIAL ON EDU3AE/N



DOUBLE OUTPUT DEVICE WITH CABLE

| Code         | Model       | Features  | Dimensions mm | Weight kg | Screwdriver     |
|--------------|-------------|---|---------------|-----------|-----------------|
| 010010/FR    | EDU 1FR     | In: 90-230Vca<br>out: 18-30Vcc power 120VA<br>slow start and adjustable speed | 138x118x67    | 0,600     | All FAB and RAF |
| 010010/FR/SG | EDU1FR/SG   | Input: start and reverse contacts<br>Output: torque reached & lever signal    | 138x118x67    | 0,600     | All FAB and RAF |
| 030210/N     | EDU3AE /N   | 200 VA  | 185x185x95    | 4,250     | PLUTO           |
| 030210/7/N   | EDU3AE/7/N  | 200 VA, torque range 2 - 7 Nm   | 185x185x95    | 4,250     | PLUTO           |
| 030210/SG    | EDU3AE/SG   | Input: start and reverse contacts<br>Output: torque reached & lever signal    | 185x185x95    | 4,250     | PLUTO           |
| 030210/7/SG  | EDU3AE/7/SG | Input: start and reverse contacts<br>Output: torque reached & lever signal    | 185x185x95    | 4,250     | PLUTO           |

## INSPECTOR CONTROL UNIT

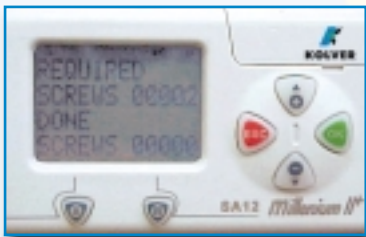
The INSPECTOR is a PLC based process control system that monitors the fastening assembly process. It compares the actual triggered torque time to a pre-set tolerance, ignoring joints that fall out of the process window. It tracks, in real time, the completion of each screw joint in an assembly, then notifies the operator upon its completion. It keeps a summary of good and incomplete assemblies throughout the production day.

The INSPECTOR is easily programmed with user interface screens on the PLC. Walk through a few simple steps to input the parameters for total number of fasteners required in a completed assembly (1 to 99999) and minimum and maximum screw times and the fastening process can begin. A manual reset is requested from the user acknowledging completion of an assembly or when one of several recognizable process errors occur.

The INSPECTOR indicates an individual joint as complete when the torque achieved time falls within the minimum and maximum times set for a specified joint. An assembly is indicated as complete when all the required screws have been successfully completed. The torque signal received by the INSPECTOR indicates that the pre-set torque level on the driver has been met. In the case of the FAB or RAF series the signal is sent when the clutch on the driver engages. For the PLUTO driver, the signal is sent by the electronic torque control circuitry in the EDU3AE/N controller.

At the end of a job the INSPECTOR will indicate the number of completed assemblies, confirming all the work is done without error and its safe to move on to the next process step.

- Set up of number of screws for a complete cycle.
- Set up of minimum fastening time in 0,1 sec. steps (to avoid the counting of torque reached signals obtained re-fastening an already tied up screw or fastening screws that stop before reaching the right position).
- Set up of maximum fastening time (to avoid the counting of stripped screws).
- Remote starting and reversing (option).
- Output signals: torque reached, lever, cycle end and alarm (24 V 100mA).
- Display of completed assemblies, total acceptable and rejected assemblies.



PLC'S DETAIL

| Code          | Model        | Power | Dimensions mm | Weight kg | Screwdriver        |
|---------------|--------------|-------|---------------|-----------|--------------------|
| 010010/FR/PLC | EDU 1FR/PLC  | 120VA | 135x115x135   | 1,00      | Series FAB and RAF |
| 030210/N/PLC  | EDU3AE/N/PLC | 200VA | 185x185x95    | 4,250     | Series PLUTO       |



# KOLVER

## TORQUE TESTER

The K5 and K20 series is a totally new class of torque analyzers. They feature a built-in transducer and also have the unique ability to connect to an external transducer. Using a high performance circuitry they collect, store and eventually download torque measures for a complete analysis of the tool and/or the joint. Priced at an outstanding low level, this tester has soon become very popular among those companies wishing to improve their product quality through the precise control of torque.

- User friendly menu.
- Accuracy: +/- 0,5% of the displayed value +/-1 digit.
- Internal transducer for tests on a joint simulator (supplied with the unit).
- Connection for external transducer (transducer not included).
- 500 readings memory.
- Selection among Nm, Ncm, kg.cm, in.lbs.
- RS232C output (cable not included).
- Indication  $\Leftrightarrow$  of the preset values.
- Output signal at preset reached value.
- Clockwise and counter-clockwise measurement.
- 3 modes of operation: Peak + , Peak - , Track.
- Manual or automatic reset.
- 9 V rechargeable battery provide 4 hours continuous operation. Automatic switch off to reduce battery consumption.
- 125% transducer overload protection.
- English and Italian menu.

Supplied in a plastic carrying case, with one rechargeable battery, 1 joint simulator (semi-elastic), instruction manual and certificate of calibration.

Additional joint simulators (rundown adapters) for hard joint or fully elastic joint available on request.



JOINT SIMULATOR



EXTERNAL ROTARY TRANSDUCER



CONNECTING PORTS



KEYPAD

| Code   | Model | Torque Nm | Dimensions mm | Weight kg. |
|--------|-------|-----------|---------------|------------|
| 020403 | K5    | 0,05 - 5  | 180x105x55h   | 1,0        |
| 020404 | K20   | 0,5 - 20  | 180x105x55h   | 1.0        |

# TORQUE TESTER

## SCREW PRESENTERS AND AUTOMATIC SYSTEMS

The NJK series is a simple but effective device where screws are brought to pick up position one after another and stay there lining up. A magnetized bit or an "autocatcher" (see accessories) is required to chuck the screw.

The NJK705 is a universal feeder adjustable for any size of screw from 1.4 through 5.0 mm.

NJK..RS models are designed to work with pick & place devices. Each screw is separated and brought into place with very accurate positioning ready for automatic pick-up action.

Autofeed hand screwdrivers and fixed screwing units are easy-to-use and reliable systems where the screw or the nut is automatically fed into the driver collet head increasing assembly rate and productivity. Suitable to feed and tighten machine screws, self tapping screws, nuts, studs and any other threaded fasteners with or without washers.



FIXED SCREWING UNIT



AUTOFEED HAND SCREWDRIVER



AUTOFEED HAND SCREWDRIVER WITH AUTOMATIC DOWN STROKE



DESKTOP ROBOT

| Code   | Model   | Ø shank   | Screw length min. | Screw length max |
|--------|---------|-----------|-------------------|------------------|
| 010514 | NJK 514 | 1,4       | 1,8               | 10               |
| 010517 | NJK 517 | 1,7       | 1,7               | 10               |
| 010520 | NJK 520 | 2,0       | 2,5               | 18               |
| 010523 | NJK 523 | 2,3       | 2,8               | 18               |
| 010526 | NJK 526 | 2,6       | 3,5               | 18               |
| 010530 | NJK 530 | 3,0       | 4,0               | 18               |
| 010540 | NJK 540 | 4,0       | 5,0               | 18               |
| 010550 | NJK 550 | 5,0       | 6,0               | 18               |
| 010560 | NJK 560 | 6,0       | 7,0               | 18               |
| 010705 | NJK 705 | 1,4 - 5,0 | 1,8               | 18               |



# KOLVER



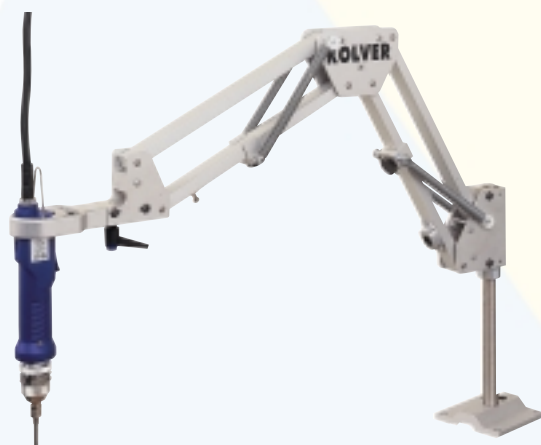
## PIVOTING ARM

ARMPV1 support arms, code 010500, consist of a vertical support on which a 180° pivoting arm is attached. It is equipped with an adjustable clamp for quick installation without drilling the table.



## BALANCER

Tool balancers TECBA1, code 010300, allow screwdrivers to be positioned over the work station for comfortable operation. Models with capacity up to 200 kg available on request.



## TORQUE REACTION ARM

Torque reaction arms PA2KOL, code 010600, have been designed to eliminate the reaction generated by screwdrivers when they stop at the pre-set torque up to 15Nm. Options include table or wall mount and tool holders for inline or pistol screwdrivers.



## TORQUE REACTION ARM

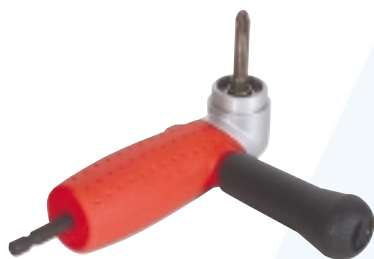
Torque reaction arms AL1KOL, code 010601, have been designed to eliminate the reaction generated by screwdrivers when they stop at the pre-set torque up to 10Nm. Options include table or wall mount and tool holders for inline screwdrivers.

ACCESSORIES



# KOLVER

ACCESSORI



### ANGLE HEAD PLUTO

ANGHD3, code 010130, can be used with Pluto drivers when space is limited or for a more comfortable operation at high torque.



### ANGLE HEAD FAB/RAF

When space is limited right angle head ANGHD1, code 010100, can be easily attached to lever start FAB drivers and ANGHD2, code 010120, to lever start RAF drivers. Both the connection nut and the torque adjusting nut are equipped with M3 threaded holes to lock the head in the desired position.



### AUTOCATCHER

For screws you cannot pick up with magnetic bits or difficult to handle the autocatcher is the perfect solution. You can automatically feed stainless steel or brass or aluminum screws with NJK705 or NJK..RS and then pick them up thru the adjustable plastic collets of autocatcher ATC023, code 010113, for screws up to M3 and ATC035, code 010114 for screws up to M5.



### SUCTION HEAD

Vacuum pick up head ASPHD3, code 010111, can be mounted on any driver thru the bit chuck. The torque remains externally adjustable while nonferrous fasteners are picked up. The head is ready to be plugged into a vacuum generator (included) or into an electric vacuum pump (optional). Used in combination with NJK705 or NJK..RS screw feeders this system will increase your productivity without the expense of automated screwdrivers.



# KOLVER





**KOLVER**  
*The easy solution®*



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