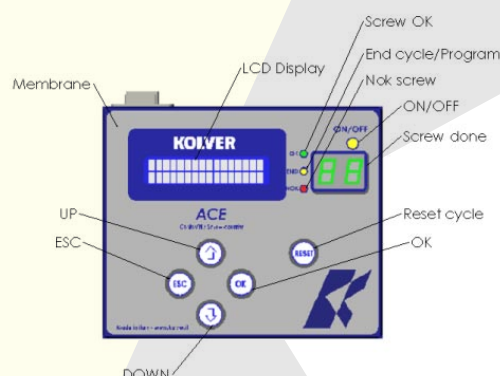
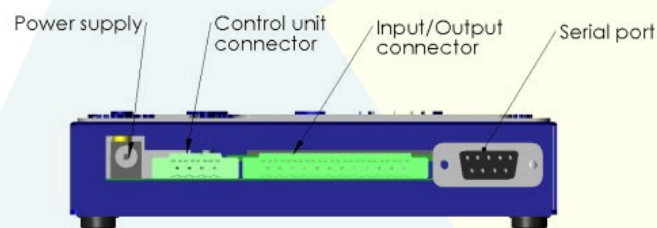


ACE SCREW COUNTER

The ACE screw counter is a process control system that monitors the fastening assembly process. It tracks, in real time, the fastening of each screw in an assembly, then notifies the result. It keeps a summary of good and complete assemblies as well as of bad and incomplete ones throughout the production day. The ACE is easily programmed with user interface screens through the keypad. Walk through a few simple steps to input the parameters for total number of fasteners required in a completed assembly and the fastening process can begin. The unit gives the operator audible and visual indications that the assembly has been completed without error and it is safe to move on to the next process step or if it has been rejected.

Main features:

- To be connected to EDU..BR/SG or EDU1AE (code 020022) or to EDU1FR/SG (code 020021).
- ACE includes the screw counter + cable for connection to the control unit
- 8 independent programs
- Up to 99 screw for each program
- Sequence of 4 programs
- Min and max fastening time (accuracy: 0.01 sec)
- Separate displays for parameters setting and fasteners count
- OK & Error lights
- Statistics: total number of correct screws done, wrong screws, cycles done, sequences done
- I/O signals
- Password protected
- Wall mountable
- Remote control of the system (optional)
- RS232 port



Code	Model	Dimensions mm	Weight kg	Controller
020021	ACE	137x113,40x30,20	0,55	EDU1FR/SG
020022	ACE	137x113,40x30,20	0,55	EDU..BR/SG and EDU1AE

SCREW PRESENTERS

The NFK 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, an Autocatcher or a suction head is required to chuck the screw.

The NFK 707 is a universal feeder adjustable for any size of screw from 1.4 through 5.0 mm. With NFK..RS series, it is also possible to work with pick & place devices.

Each screw is separated and brought into place with very accurate positioning ready for automatic pick-up action.

The ASP HD4 Suction Head is designed to interface with FAB and RAF series of screwdrivers. It consists of a torque adjusting nut with locking ring and a vacuum adapter with vacuum port. A Screw Finder completes the assembly. Based on the head diameter of your screw, the screw finder must be counterbored to allow the head of the screw to fit up into the recess.



NFK SCREW PRESENTER



NFK..RS MODEL



ASP HD4
SUCTION HEAD

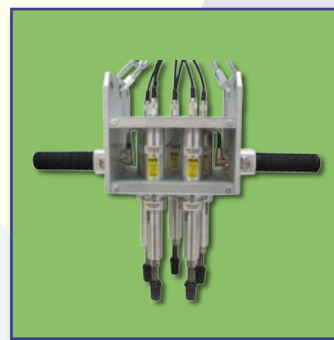


AUTOCATCHER

Code	Model	Ø Shank mm	Screw lenght min. mm	Screw lenght max mm
013514	NFK 514	1,4	1,8	10
013517	NFK 517	1,7	1,7	10
013520	NFK 520	2,0	2,5	18
013523	NFK 523	2,3	2,8	18
013526	NFK 526	2,6	3,5	18
013530	NFK 530	3,0	4,0	18
013540	NFK 540	4,0	5,0	18
013550	NFK 550	5,0	6,0	18
013707	NFK 707	1,4 - 5,0	1,8	18



MULTI-SPINDLE



MULTI-SPINDLE

MULTI-SPINDLE UNIT

Multi-spindle tightening applications improve assembly results and increase productivity. Kolver creates custom designed multi-spindle equipment that can be configured in either vertical or horizontal orientations depending on the application and customer requirements. Designs may incorporate operator input or be fully automated. Spindles can be mounted and arranged to accommodate and match any bolt pattern using in-line, 90° angle or special offset drives. Kolver multi-spindle tightening systems allow for spindle synchronization, operator feedback and error proofing solutions.