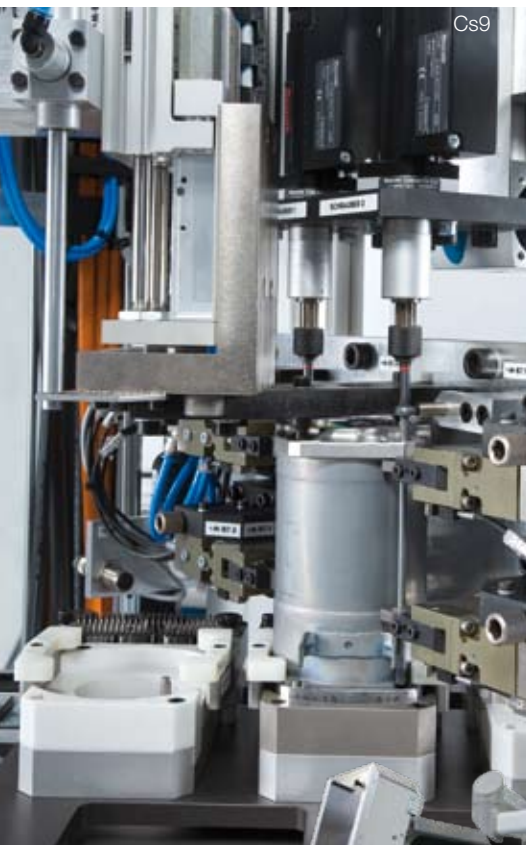




Precision screwing.
Nutrunner



Cs9 – nutrunner.



For every screwing task we provide find the perfect solution and the ideal process technology.

Your needs:

- Exact feeding and provision of assembly material
- Screwing with torques from 0.5 to 1,000 Nm
- Secure and permanent fastenings
- Modular screw technology design (screw and feed technology)
- Proper selection of the screw spindle for the task, accuracy and safety requirements
- Control and monitoring of the screwing procedure and automatic system diagnostics

- Flexible programming of screwing processes
- Fast and secure startup
- Automatic setting to different hole patterns
- Inspection of the screwed fastening
- Documentation of all screw results
- Transfer of process and quality data to the superordinate production control system
- Fast screw-in phase and slow final tightening
- Minimum torque accuracy of $\pm 5\%$, ISO certified
- Capacity of up to 1,000 Nm
- 500,000 cycles with uniform accuracy
- Low maintenance costs
- Selection of interfaces:
 - Connection of the screwdriver system to the CAN bus
 - Linking of the screwdriver system to the Profibus DP
 - Coupling of the screwdriver system to the InterBus S
 - Control of the screwdriver system using 24 V signals or for output of 24 V signals from the screwdriver system
 - Data communication with the screwdriver system over an RS232 interface
 - Data communication by Ethernet



Precision screwing.

The right technology for the demands of every product and customer.

... all from one source:

Whether a hand-held pneumatic wrench or highly complex assembly machine and nutrunner; we provide you with the right solution for your fastening task and quality needs, from planning, project management and simultaneous engineering development to installation and startup.

Use the Cs9 product series to perform any fastening task! You receive the feed, assembly, screw and safety technology from one source. Cs9 will add value to your processes.

Cross system **screw technology** from suppliers such as: **Alfing, Atlas Copco, Bosch Rexroth, Cooper Power Tools, Deprag, EST, Stöger, Weber** etc.

Benefits:

Individuality

The ideal screwdriver system depends on the requirements and experience. We will provide you with optimal suggestions and even involve your product partners.

Technology

Whether pneumatic or electric, hard, medium soft or soft screw applications; your needs determine the right solution.

Material

We bring all types of screw materials safely to the proper place – to the assembly location, if needed guided, tested and with or without fastener locking.

Alone or in combination

The nutrunner including feed technology can be made part of an integrated system with transport and workpiece holders of your choice for smooth in-line operation. Stand-alone solutions with safety enclosure and manual operation are also possible.

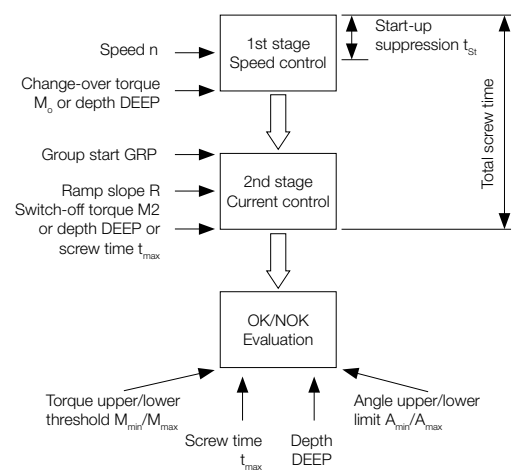
Monitoring

All process data are set and monitored with an intelligent controller.

Ci9 intelligent production data management system.

The intelligent and easily implemented Ci9 production data management system from CMB guarantees disturbance-free production with integrated recipe management and part traceability as well as quality data collection.

Control parameters Screw cycle Times



Feed system



What can we do for you?

The CMB team of experts is happy to realise your individual automation solution.

Talk to us about it!



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Options

- ▶ Automated station
- ▶ Rotary indexing table
- ▶ Manual station
- ▶ Transport system
- ▶ Workpiece holder
- ▶ Feed and separating technology
- ▶ Guides, balancers
- ▶ Provision of material using Cp9 palletising device – autonomy can be selected freely
- ▶ Handling by Ci9 linear device – number of axes can be selected freely
- ▶ Pressing operations by Cf9 assembly module – pressing force, path and holding time can be selected freely
- ▶ Dispensing operations by Cd9 dispensing device – medium and dispensing process can be selected freely
- ▶ Ci9 data management system – for order, master, recipe and quality data, traceability and operation and machine data
- ▶ Remote maintenance