

## AG05 | Compact Class – newly defined



### Low-cost actuator with excellent power density for remote positioning tasks

A declared goal in designing modern processing machines and systems is to increase processing efficiency while keeping investment costs low. A key factor here is maximum productivity with minimum cycle times. Flexible, modular axis automation with DriveLine actuators produces sustained improvement in machine efficiency and product quality with a minimum of effort.

With the new AG05, SIKO's engineers have developed a compact actuator with an exceptional performance profile. Optimized dimensions and an excellent price-performance ratio make the AG05 a versatile positioning system which provides variable solutions for a wide variety of positioning requirements.

DriveLine's remote, modular automation brings advantages for the mechanical engineer: The developments are scalable for a wide range of variants and performance classes. From the basic version to the fully automated solution, you can offer your customers a wide range of "tailor-made" solutions.

### Benefits

- Hollow-shaft actuator
- Magnetic absolute encoder
- Integrated fieldbus interface
- Torque up to 5 Nm
- Mounting dimensions compatible with DA095 and AP04 position indicators

## Profile

- Simple mounting with no additional material
- Plastic housing, fully fiberglass reinforced (GRP)
- Stainless steel blind hollow shaft  $\varnothing 14$  mm x 25 mm
- M8 and M12 connection technology
- Compact brushless 24 V DC motor (30 W) with long working life
- Robust absolute sensor (magnetic scanning)
- Two-line LC display with control keys
- Integrated position controller
- Integrated RS485 or CANopen interface
- Protection type IP 54
- Dimensions (L x W x H) 121 x 48 x 70 mm
- Accessories: Adapter for external brake



## AG05 – compact and resilient

The AG05 is an intelligent actuator with very small footprint. It is suitable for automated adjustment of formats, stops, tools and valves as well as a range of comparatively simple positioning tasks.

### Typically DriveLine

A brushless DC motor together with a planetary gear, controller, power electronics and bus interface is integrated in a smooth, streamlined housing which is largely resistant to dirt and lye.

The innovative ultra-smooth planetary gear has an outstanding power density of  $30 \text{ W/dm}^3$  (output power relative to actuator size).

### Safety

The separate voltage supply for control and power electronics enables the actuator to be integrated in diverse safety concepts. The integrated control electronics greatly ease the workload of the upstream PLC. Integrated in the actuator are functions for monitoring temperature, current and drag errors and power loss and for recognizing software end-stop positions.



### Absolute measurement

Thanks to its battery buffering, the robust magnetic system for scanning position values captures position changes even in a currentless state, which means there is no need for referencing. The battery's charge state is monitored continuously and an early low-battery warning is given. The battery can easily be changed by the user.

### Trouble-free integration

Start-up is entirely at the actuator or via bus communication. Local monitoring of the AG05 and control of its operating statuses is achieved using just three control keys, thanks to the support of a two-line SCD displaying target and current values. Two LEDs visible from a distance signalize variance or conformity between the target value and the current value as well as other important operational statuses.

### Space-saving and high-powered

Areas of application for automation with the AG05 are found wherever there is demand for a low-weight device with reduced installation size so as to solve remote positioning tasks in the machine or system without taking up additional space in the control panel. Flexible retrofitting of existing axes is also possible without enlarging the control panel.

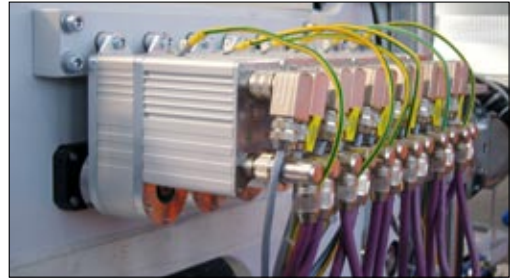
### The AG05 remote actuator solution offers direct advantages for OEMs and operators:

- Flexible machine design concept
- Short cycle and changeover times for high productivity
- Minimum effort for installation, mounting and programming
- Quick set-up
- High maintenance-friendliness and availability

### Increased performance at the axis

Actuators are used in many production processes – on single machines or in entire production lines such as in the metal, wood, glass and plastics industries as well as in tool and special mechanical engineering.

DriveLine is easily integrated and the accelerating effect is immediately noticeable. DriveLine is predestined for use in production chains where frequent product changes are part of the everyday routine.



### The new AG05 actuator

Mounting dimensions are compatible with the mechanical position indicator DA095 and the electronic AP04.



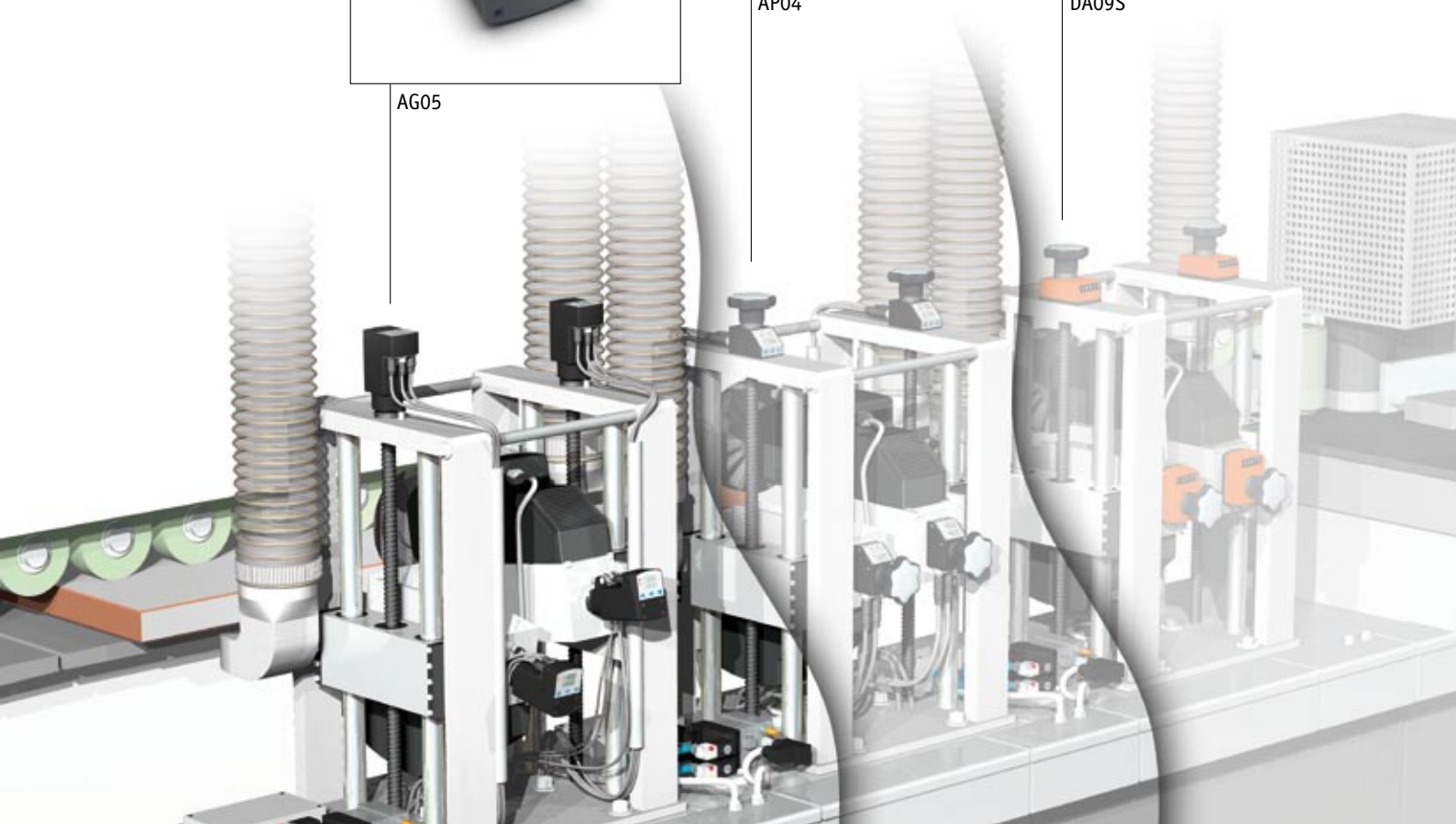
AG05



AP04



DA095





**We are always there for you.**

**Whether locally ...**

Are you looking for an agency near you? Our website will help you. At [www.siko.de/contact/germany](http://www.siko.de/contact/germany) you will find current contact data of a local German SIKO agency via your postal code. Or just call us and we will give you the contact data you need.

**... or internationally.**

Subsidiaries and agents all over the world represent SIKO. At [www.siko.de/contact/international](http://www.siko.de/contact/international) you will also find a SIKO partner in your area.



**SIKO GmbH**  
Weihermattenweg 2  
D-79256 Buchenbach

**Telephone**  
+49 7661 394-0

**Telefax**  
+49 7661 394-388

**E-Mail**  
info@siko.de

**Internet**  
www.siko.de