



FlexiDrive

Intelligent compact drives for format adjustment
and positioning

Motion Control

Sensor Solutions

Vision Technologies

FlexiDrive actuators and positioning drives. Absolute and decentralized.

What sets *FlexiDrive* apart?

- Advanced drive systems from one source thanks to a high expertise in electronics and field buses
- Patented absolute multi-turn position measurement
- Compact design and low weight
- Modular system – large variety of electronics, motors and gears

FlexiDrive technology offers you greater benefit!

- Reduced changeover and adjustment times
- Increased machine availability and process reliability
- Improved efficiency even when producing small batch sizes
- Relief for the machine controller thanks to decentralized intelligence
- Faster realization of modular machines

Compact

FlexiDrive drives combine motor, gear and electronics in a compact unit. The integrated control electronics reduces space requirements in the switch cabinet and lowers wiring costs.

Safe

With a separate power supply to the power electronics, *FlexiDrive* drives allow a category 0 or 1 stop according to EN 60204-1 and EN954-1, category 3, and support IEC61508 SIL2.

Flexible

FlexiDrive drives are based on a sophisticated modular system of electronics, motors and gears. This allows quick implementation of the right drive solution.

Simple

FlexiDrive drives can be easily started up via software and digital inputs. All components are matched to each other.

Communicative

FlexiDrive drives with field bus interfaces simplify integration into existing system environments and support modular machine concepts.

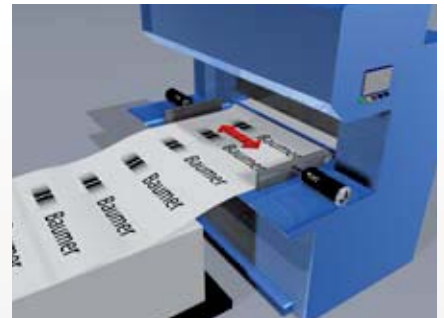
Reliable

FlexiDrive drives convince thanks to their high availability due to durable, contactless position measurement and high EMI resistance.

FlexiDrive drives in format adjustment.

Size adjustment

When it comes to adjusting shafts and stops, *FlexiDrive* drives permit fully automated machine operation and short changeover times.



Handwheel replacement

As a replacement for handwheels *FlexiDrive* drives ensure reproducible machine settings and uniform quality – even for machine retrofits.



Cutting system

Through continuous blade following and cutting equipment alignment, *FlexiDrive* drives provide optimal process results with minimum wear.



Typical applications

- Printing and print post-processing
- Packing technology
- Machine building
- Laboratory automation
- Handling

Hollow shaft versions

Hollow shafts and continuous hollow shafts drives make integration into the application easier, faster and offer even greater space saving. Since couplings are no longer required, the number of wear tear parts are reduced while machine reliability and availability are increased.

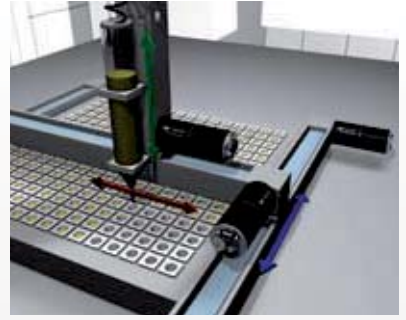
The employed angular gears shorten the axial installation depth and offer greater installation flexibility.



FlexiDrive drives in automation technology.

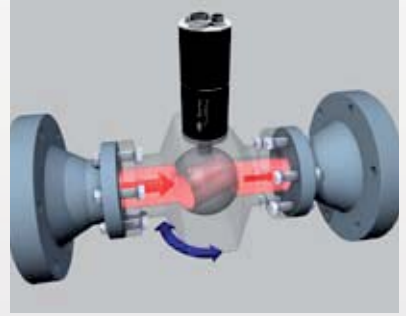
XYZ-positioning

Their precision makes *FlexiDrive* drives ideal for demanding tasks such as the precise positioning of axes.



Flow regulation

FlexiDrive drives are connected to metering valves and flow regulators to ensure the proper volume flow.



Your application?

For an optimal solution of your particular adjustment and positioning task, we will be happy to demonstrate our comprehensive sensor, electronics and interface expertise. Simply call us!

Accessories

For easy installation and optimal integration of *FlexiDrive* drives into system environments, an extensive line of accessory components and software is available.



Special features that set *FlexiDrive* apart.



High resolution

- Patented absolute multi-turn position measurement
- Unambiguous, seamless position measurement even in power-off state
- High positioning accuracy and smooth running even at low speed

Large travel range

- Contactless electronic multi-turn principle
- Even with large gear ratio and small spindle pitch

IO activation

- Flexible inputs and outputs with function assignment
- Permits "standalone" operation for time critical tasks

Parameter adjustment

- Application parameters can be stored directly in the drive
- Positioning commands in user-defined units, e.g. micrometers

Limit setting

- Increased protection against collisions and operator errors thanks to programmable software limit switches
- Increased protection against unexpected overloads thanks to programmable maximum motor current

Comfortable

- Field-bus-based communication
- Diagnostics, parameter setting and firmware update

FlexiDrive – one version for every need.

MDBA

- Actuator drive for discontinuous operation
- DC motor up to 23 W
- Digital control signals
- Incremental measuring system



MSQA

- Actuator drive for discontinuous operation
- DC motor up to 50 W, 4Q controller
- CANopen
- Quasi-absolute measuring system



MSAA

- Actuator drive for discontinuous operation
- DC motor up to 50 W, 1Q controller
- CANopen
- Absolute measuring system



MSIA

- Positioning drive for discontinuous and continuous operation
- EC motor up to 238 W, 4Q controller
- CANopen or Profibus DP
- Absolute measuring system



Additional information about *FlexiDrive* is available at www.baumerelectric.com/en/201.html

MultiCon

- Spindle positioning systems
- Optional EC motor up to 140 W
- CANopen, Profibus DP, DeviceNet, RS 485
- Absolute measuring system



Additional information about **MultiCon** systems is available at www.baumerelectric.com/en/76.html

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