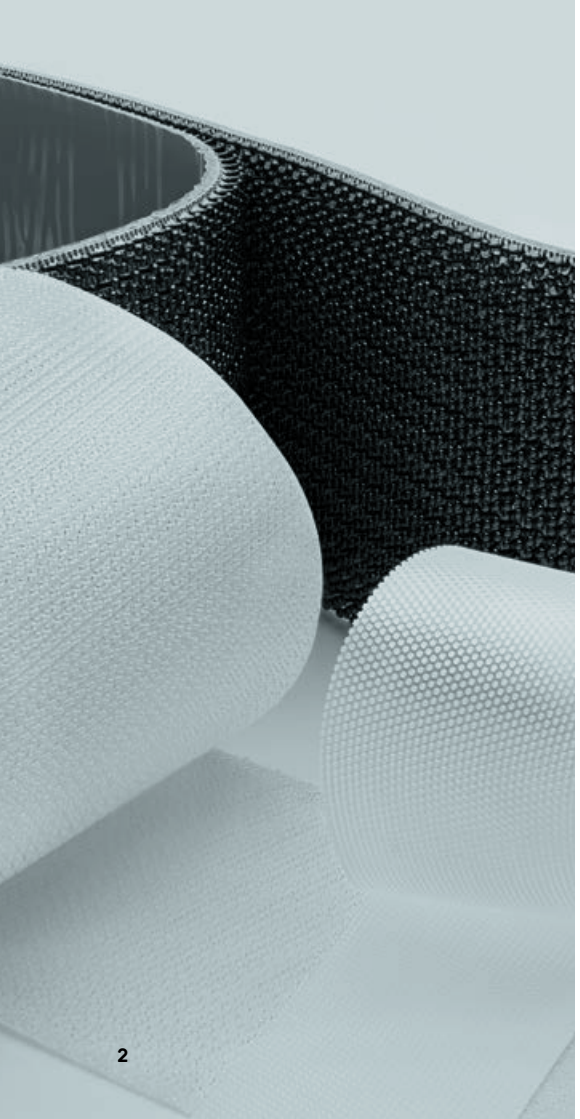
DUOTEC®



Duotec® product portfolio

Self-engaging reclosable fasteners

binder



The growing importance of self-engaging reclosable fasteners:

Self-engaging reclosable fasteners (SERFs) represent a highly adaptable technology in fastening systems, offering flexibility, durability and reusability. These fasteners are designed to provide secure attachment and ready detachment of surfaces, making them ideal for a wide range of applications, from manufacturing to everyday use. They are especially useful when a mounted surface is to undergo periodic replacement or repair, such as wall panelling, headliners and trim pieces, without the potential issues of fixed position mechanical fasteners or adhesives.

Binder has an extensive history of providing fasteners that target the needs of the consumer, industrial and transportation sectors. That history has created a core competency of skills and capabilities that we use to advance new technologies and products to meet the future needs of a broad spectrum of markets.

Duotec® Family	Duotec® 50	Duotec® 42	Mididuotec®	Microduotec®
Total engagement height	≥ 4.5 mm	≥ 4.0 mm	≥ 2.3 mm	≥ 1.5 mm
Engagement force	++	++	+	+
Disengagement force	++++++	+++++	+++	++

Examples of applications

Headliner fixation



Panel fixation



Trims



Replaceable advertisement



Seating



Closure for ostomy systems



White goods



And many more! Explore the bounds of fastening with our Duotec® product family and replace traditional fixation systems like mechanical fasteners and adhesives.

Benefits of self-engaging reclosable fasteners

In general

Features	Benefits	Values
Self-engaging	▪ One part number required ▪ Ease of use ▪ Tool-less ▪ Removable ▪ Repositionable ▪ 'Blind' fixation	▪ Lower training costs ▪ Less part complexity (build time and inventory) ▪ Fewer manual steps (improved quality, greater production speed) ▪ 'On the fly' tunability (less reworking, greater production speed)
Disengagement force	▪ High level of component retention ▪ Challenges conventional fasteners	▪ Reduced potential for consumer complaints ▪ Fewer field repair visits ▪ Greater consumer satisfaction ▪ Lower training costs ▪ Fewer manual steps (improved quality, greater build speed)
Tunable performance	▪ Adjusted engagement/disengagement forces ▪ Changed engagement heights	▪ Fewer manual steps (improved quality, greater build speed) ▪ Greater consumer quality perception

Duotec® specific

Features	Benefits	Values
Multiple engagement heights	▪ Tuned to best match existing designs ▪ Better adjustment to variability ▪ Gap filling in panels	▪ Simplified design parameters ▪ Easier to maintain quality ▪ Improved perception of quality
Higher performance per unit of fastener surface area	▪ Less mounting area required ▪ Smaller clips and profiles can be used ▪ More fastening options in complex designs	▪ Less footprint required ▪ Lower cost of manufacturing ▪ Fewer manual steps (improved quality, greater build speed) ▪ Improved ability to replace existing mounting methods
Reduced engagement force	▪ Easier-to-use fastener ▪ Less force required to activate ▪ Greater use of robotics	▪ Lower training costs ▪ More employees can fabricate products ▪ Lower potential costs of component replacement as a result of damage ▪ Less wear due to automatic manufacturing processes
Flexible bend in engagement elements	▪ Resistant to disengagement ▪ Shock tolerance ▪ Out-of-alignment tolerance ▪ Resistant to shear forces	▪ Higher speed of production ▪ Premature disengagement repairs avoided



Duotec®

- High-security fastener - resistant to unintentional opening
- Very strong holding power after locking
- Defined level of force required to unlock
- Allows for opening and reattachment of the fastener by skilled personnel
- Standard colours: Duotec® 50 black and Duotec® 42 white



Mididuotec®

- For moderate fixation, requiring reduced effort to close and open
- For applications requiring moderate fixation with limited millimetre-scale engagement space availability
- Can be used for occasional skin contact applications (reduced abrasion)
- Readily usable by consumers to attain good fastener grip levels



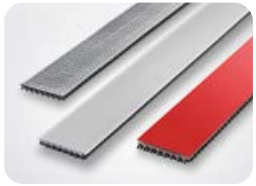
Microduotec®

- Specialised micro scale fastener for applications requiring high numbers of opening and closing cycles
- Useful in applications where proper alignment is critical
- Readily usable by consumers to attain good fastener grip levels

Product options

We have an extensive catalogue of standard products and can apply our expertise to solve your unique requirements.

Finish options



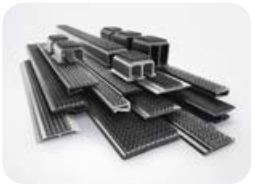
No adhesive, synthetic rubber PSA, acrylic PSA (from left to right)

Adjustable total thickness



Adhesive thicknesses of an additional 0.5 mm to 2.0 mm available

Available on profiles



Fasteners may be pre-mounted at the factory on various extruded profiles

Available on clips



Broad selection of fastener pre-mounted clips to choose from

Back-to-back versions



Variety of back-to-back versions available

Further options:

- Directly integrating the system into GRP's (glass-fibre reinforced polyester)
- Sewable, weldable
- Flame-retardant versions available

Interested in Binder's fastening solutions?

Contact us to find out more about Binder and our latest innovations.
Phone: +49 7031 683 0 | **E-mail:** sales@binder.de

Gottlieb Binder GmbH & Co. KG
Bahnhofstrasse 19
71088 Holzgerlingen | Germany

Phone: +49 7031 683 0
E-mail: info@binder.de
Web: www.binder.de



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