

**Automatic plastic tolerance
compensation system**

FLEXITOL® plastic



Axial tolerance compensation
for assembling components

Using the example of a headlight fastening

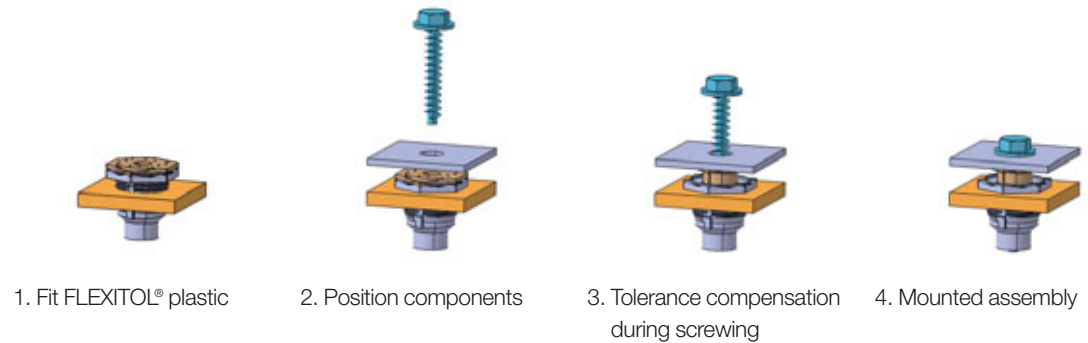
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How the automatic FLEXITOL® plastic tolerance compensation works

The FLEXITOL® plastic consists of an adjusting element and a base element made of plastic and comes pre-assembled. The self-grooving assembly is screwed into a mounting hole in the plastic mounting component. The component to be fitted, e.g. a headlight, needs to be aligned. During the first part of the assembly process, as the screw is started, the tolerance between the two components is automatically compensated by the left-hand thread component of the adjusting element. The rest of the screwing process serves to secure the fastening.



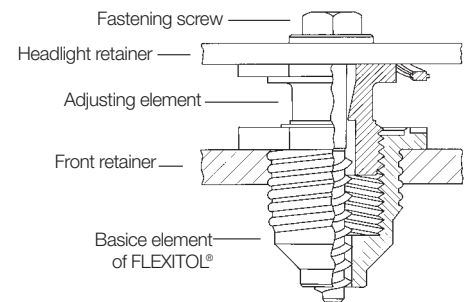
The advantages

- Simple integration into customer's components
- Self-grooving screwing of tolerance compensation element with K' in K' thread
- Assembly from one side
- Recyclable
- No corrosion



Sample application: Fastening a headlight

The FLEXITOL® plastic can be used wherever tolerances are to be continuously compensated in plastic surrounds. Three large components come together around the headlight: the bonnet, bumper and mudguard. Generally speaking, there are therefore significant manufacturing tolerances to be compensated in this complex assembly area. The aim is to create an even joint around the headlight.



Technical information

Art.-no.	Maximum axial force	Press-out force K' in K' - thread	Tolerance compensation	Tightening torque self-grooving screw
2704 050 1001	4,000 N	min. 1,000 N	6 mm	2.5 Nm

Example: Screw-in parameter in PP-LGF30

- Screw-in speed of tolerance compensation element in mounting hole: max 200 min⁻¹
- Screw-in torque: 2 Nm

The values must be adjusted to each individual application. Our applications engineering staff will be happy to help.

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