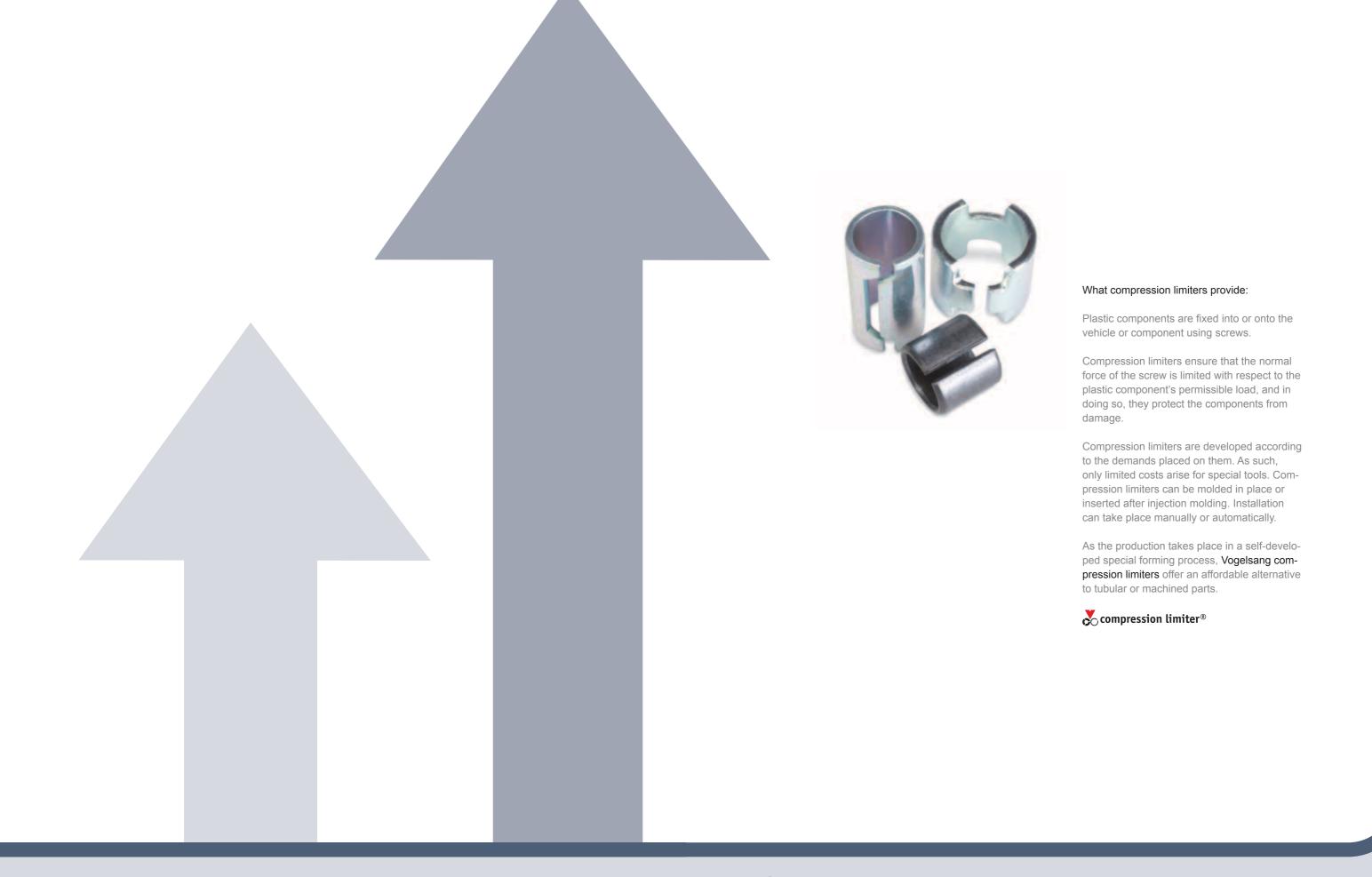
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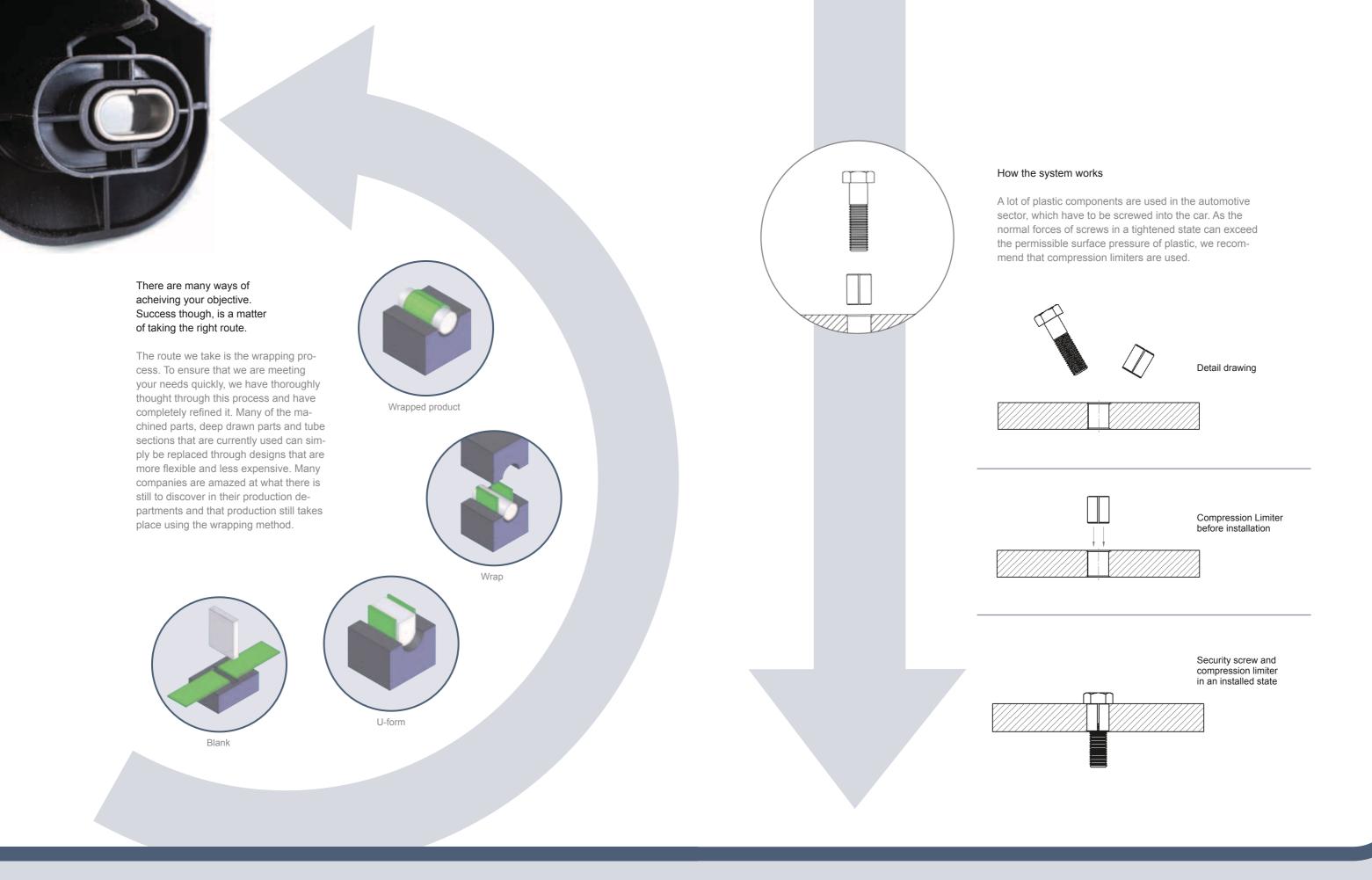
Compression limiters – make plastic stronger.











The wrapping process: Getting things on the right track.

Security, and how it works in practice.



The problem

Plastic components without compression limiters are destroyed during fastening as a result of the necessary screwing forces.

The solution

Compression limiters are non-threaded inserts designed to protect plastic parts from loads created by the tightening of bolts. The load causes compression, which can lead to cracking and creep due to tightening torque. Vogelsang offers an extensive line of cost saving compression limiters. Multiple design options in our compression limiters combined with our dedicated team allows your product to incorporate different shapes, materials, features and overall cost saving.

Insertion parts

Features and benefits

- units are inserted later
- open slot
- absorbs thermal dimensional variations
- prevention against loss is guaranteed through a defined oversize
- flange is not destroyed



Compression limiter with an interlinking lock



Compression limiter not bevelled



Compression limiter with bevels



Compression limiter in an oval shape



Compression limiter
with a recess

Injection molded parts

Features and benefits

- units are inserted into the tool in advance
- slot closed on the inside/outside, or both
- narrow length and diameter tolerances



Compression limiter oval with an outer groove



Compression limiter round



Compression limiter round with an outer groove



Compression limiter in an oval shape



Compression limiter with quadrangular stamping

Application

Everywhere plastic components are fixed into or onto a vehicle or component by means of screws.

Advantages for you

Compression limiters

- protect plastic components from damage by absorbing the necessary screwing forces.
- → are the inexpensive alternative to tubular or machined parts.
- → can be installed with little effort.
- are optionally molded in place or inserted after injection molding.
- can be inserted automatically or manually.

tightly controlled process tolerances.

Product design

Based on the respective application, we arrange the geometry and the material along with you:

- Outer diameter
- Inner diameter
- Material thickness
- Length
- The installation aids that are required (e.g. bevels)

At the same time, almost every geometric shape can be implemented.



Technical data

Guidance notes concerning the design.

Culturation notes contenting the design.		
Length	up to 80 mm	
Length tolerance	≤ 30 mm	≥ 0,1 mm
	> 30 mm	≥ 0,2 mm
Outer diameter	up to 30 mm	
Diameter tolerance	≤ 10 mm	≤ 0,1 mm
	> 10 mm	≤ 0,15 mm
Wall thickness	0,5 – 3 mm	
Material	standard quality colled rolled low carbon steel; any strip material is possible	
Material quality	up to 70 Mpa yield stress, others on request	
Corrosion protection	according to customer requirements	
Edge design	sharp edges, bevels, radii, combinations are possible	
Shape Design	according to technical requirements	
	,	

Can't find your solution? We'll find one for you.

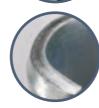
The extra benefit



Enclosed slot edges are available on request

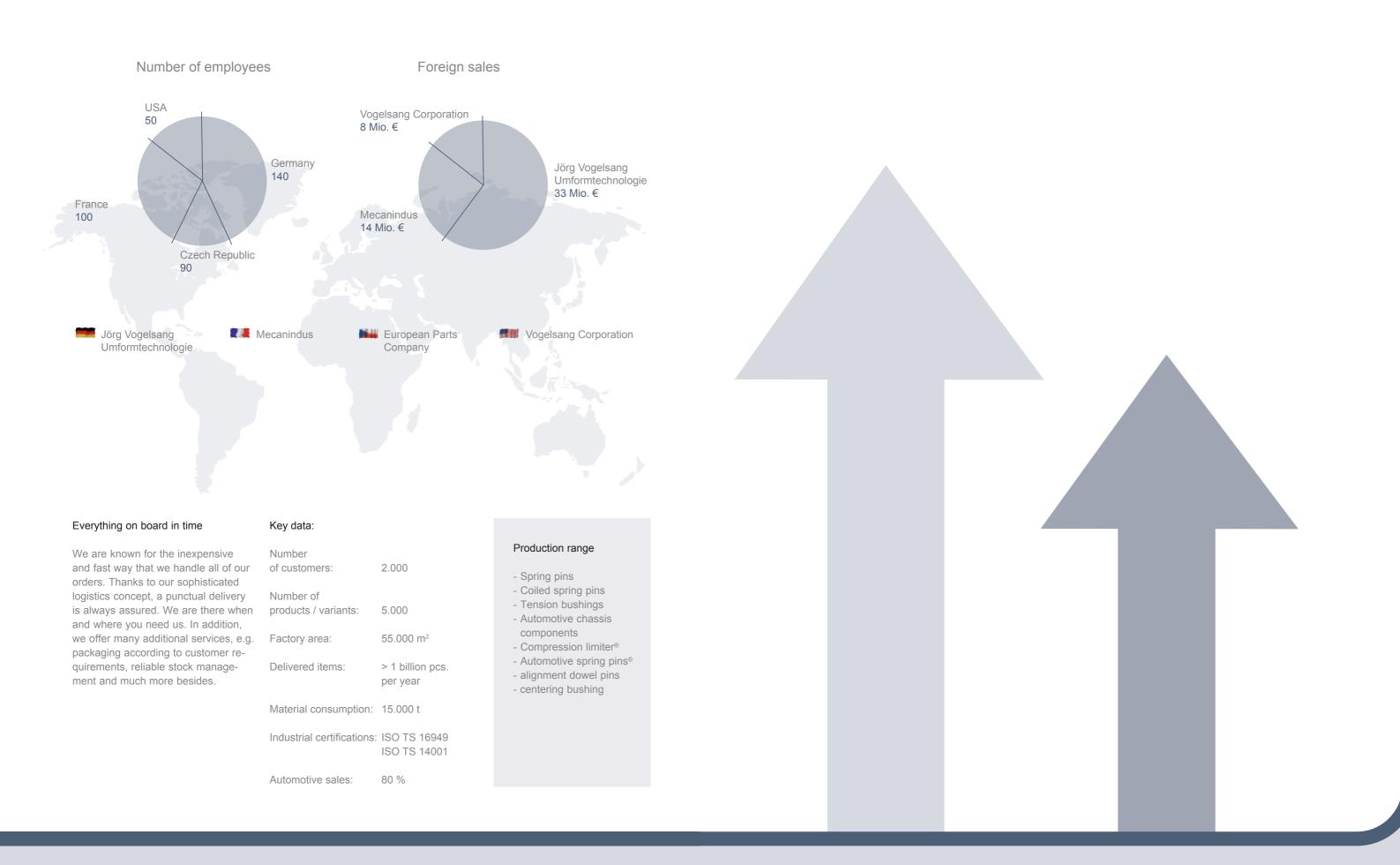
Enclosed slot edges offer a distinct advantage: The edges are on the transition from the bevel to the slot below the surrounding diameter. This way, the compression limiter is inserted into the bore hole without a scraping action.

As such, possible damages are avoided.



100 % control plus+

Besides the many advantages that the compression limiter offers you, no compression limiter leaves our premises without a 100% check of the dimensions and sorting accuracy. Quality is good, inspection is better.



You can rely on a wide range.

The information in this document is given in good faith; It does not represent an assurance of properties. No liability is assumed for damages.





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