NEW

ACE Lift Damper – the Down Holder Damper's Brother

Due to the high speeds, especially in the modern ProgDie presses, the problems for the end position damping of the original PU springs are the same as the Down Holder resulting in tool damage, production failure and very high repair costs.
The ACE lift dampers made of co-polyester elastomer sit on the holding screws of the spring loaded guide pillars or lifters in the lower part of the tool of the progressive die.
In the actual pressing process, the spring loaded guide pillars and lifter are pressed downwards with the sheet. After the pressing process, they are pressed back up with the reshaped sheet metal using gas springs. The holder screws are used for lift limitation for the guide pillars and lift dampers protect in the same way as the down holders and make the following working stages possible.

In comparison to the standard PU springs, the TUBUS lift dampers offer:

> A high service life and operational safety
> High force and energy absorption
> High effectiveness level
> Low setting behaviour
> Noise reduction
> UV protection
> Low abrasion
> Efficient work with higher cycle speeds
> More design freedom when setting up new tools

TUBUS-Special-D00038 (Lift Damper M12)

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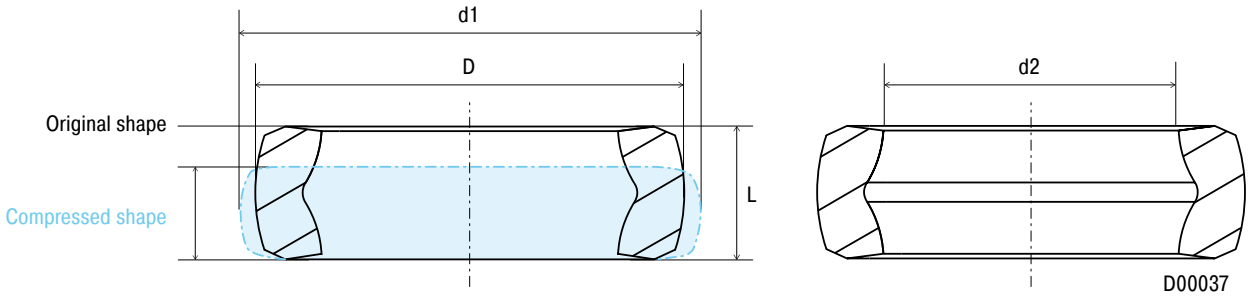
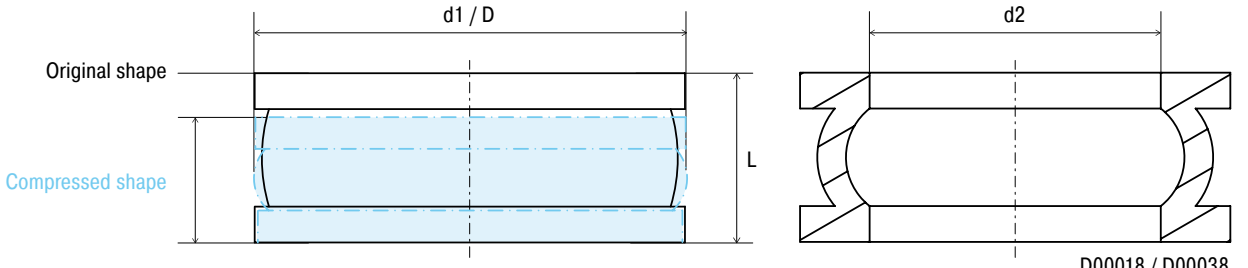
TUBUS-Lift Damper

Damping element for pressing tools





The damping elements in flange style (D00018/D00038) can apply a force or depending on the stroke can be double layer without the need for an additional spacer washer.

Dimensions and Capacity Chart

Type TUBUS-Special	Retainer screws	Standard	Ident-Nr.	W_3 **Nm/Cycle**	F max. **N**	max. Stroke **mm**	D	d_1	d_2	L	Material hardness Rating
D00037*	M10	BMW	2 173 878	3.0	3 000	2.0	23.6	25.3	16.3	7.3	Shore 55D
D00038*	M12	BMW	2 173 879	8.6	5 000	2.9	30.0	30.2	20.3	11.8	Shore 72D
D00018**	none	Daimler	B8 1130 0277019	4.5	2 500	4.4	39.5	39.6	33.0	13.2	Shore 55D

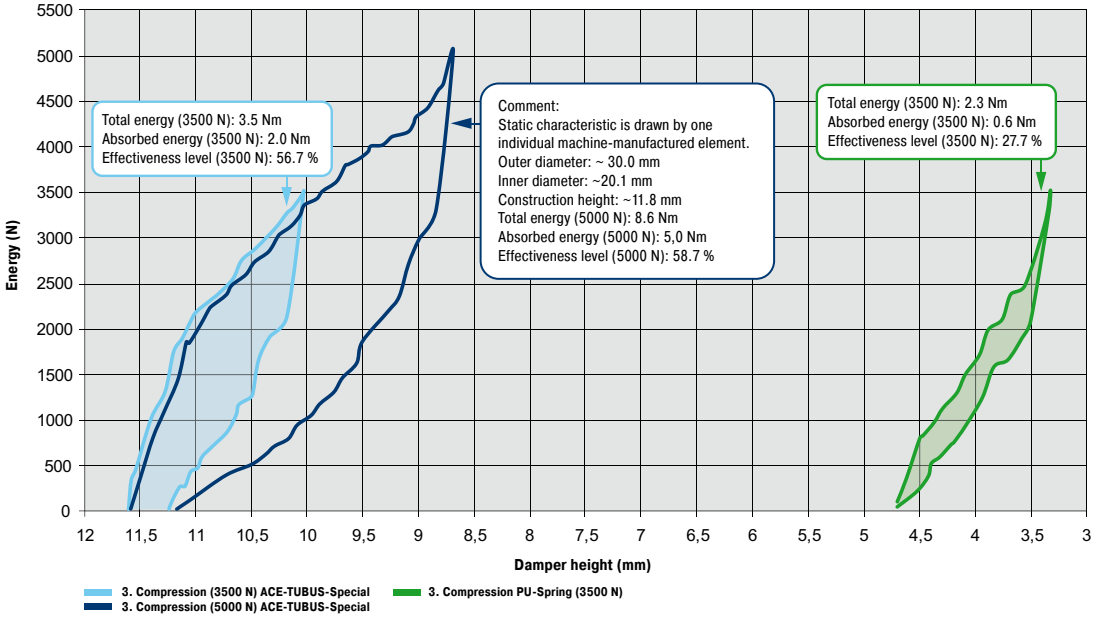
*Natural colour: without additional UV protection
**Sits on a guide pillar gas spring in the lift unit
Dimensions: Tolerance to DIN 16901

Environment: resistant against microbes, seawater, chemicals and with very good UV resistance. No absorption of water and no swelling.

Operating temperature range: -40°C to 90°C

Upon request: special strokes, characteristics, sizes and materials.
More individual damping solutions for different tool standards are possible.

Lift Damper M12, TUBUS-Special-D00038,
3rd static compressions, v~40 mm/min., 06.09.2010



Graphic: From customer supplied PU Spring.