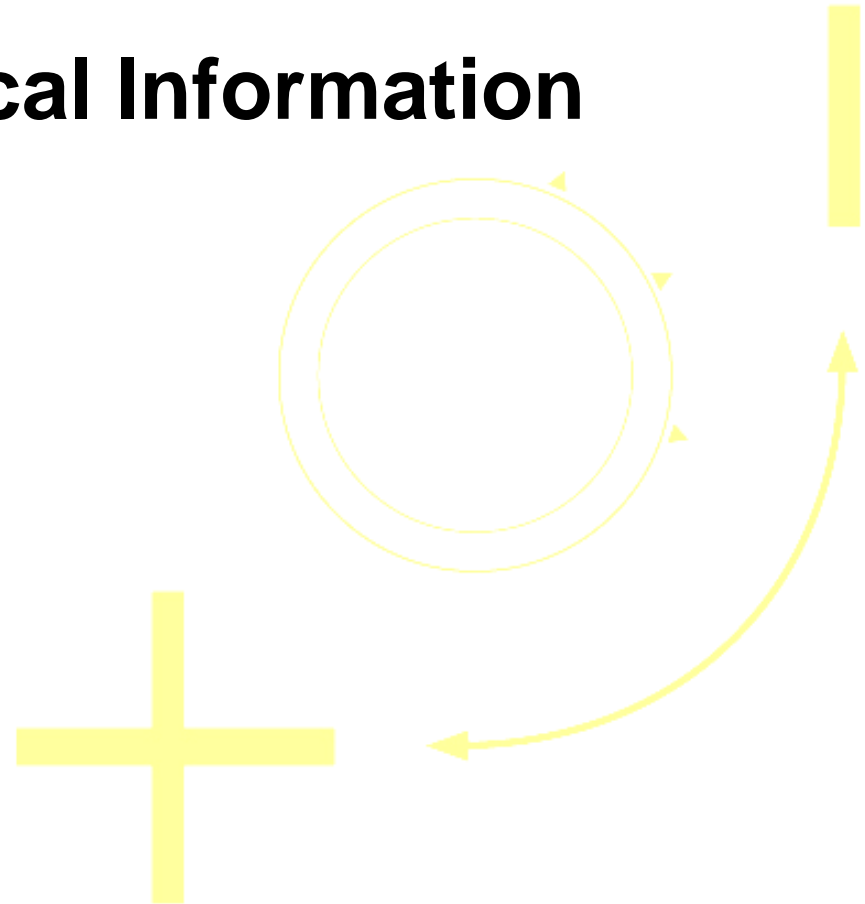
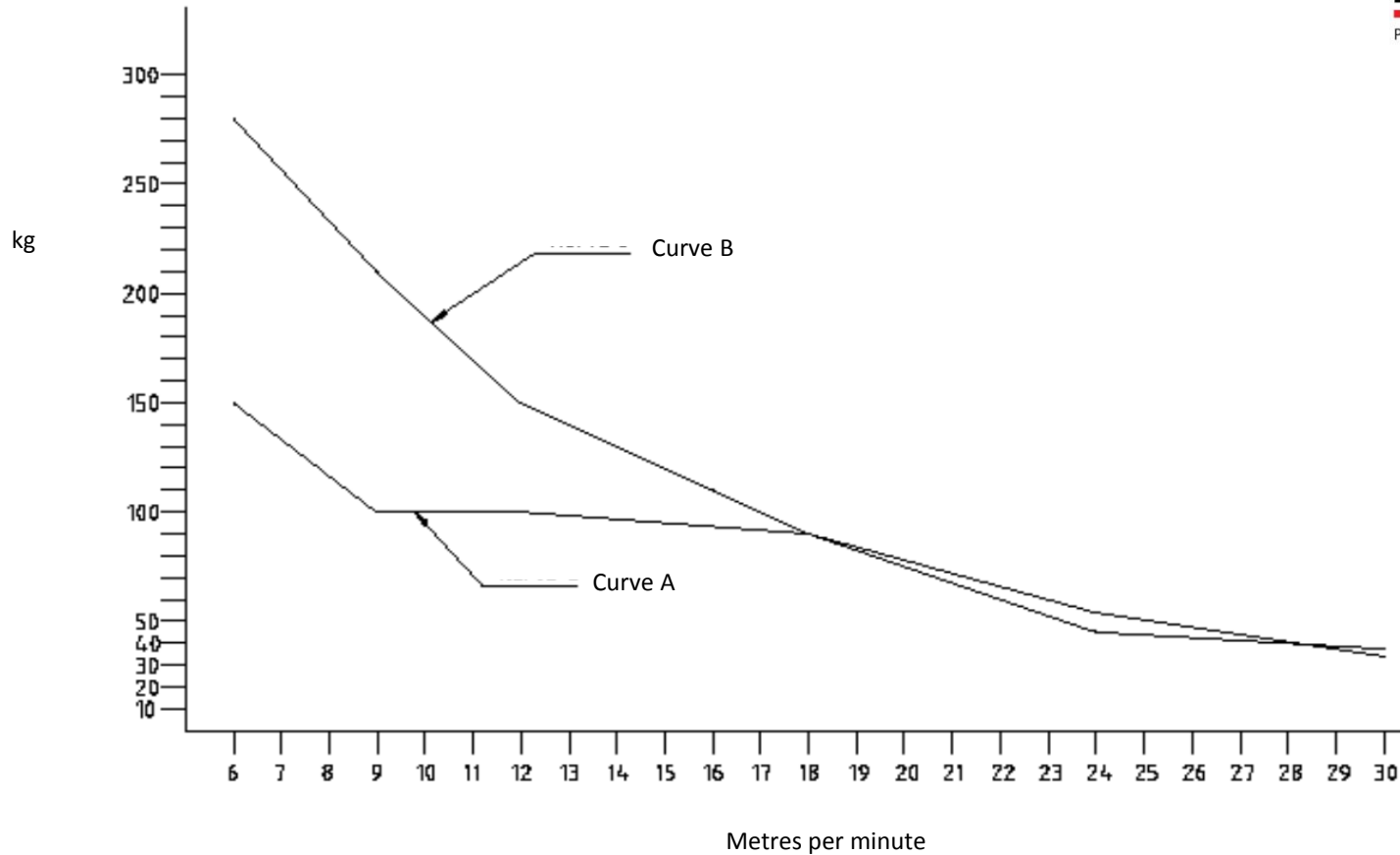


Wörner Technical Information



Basic conditions

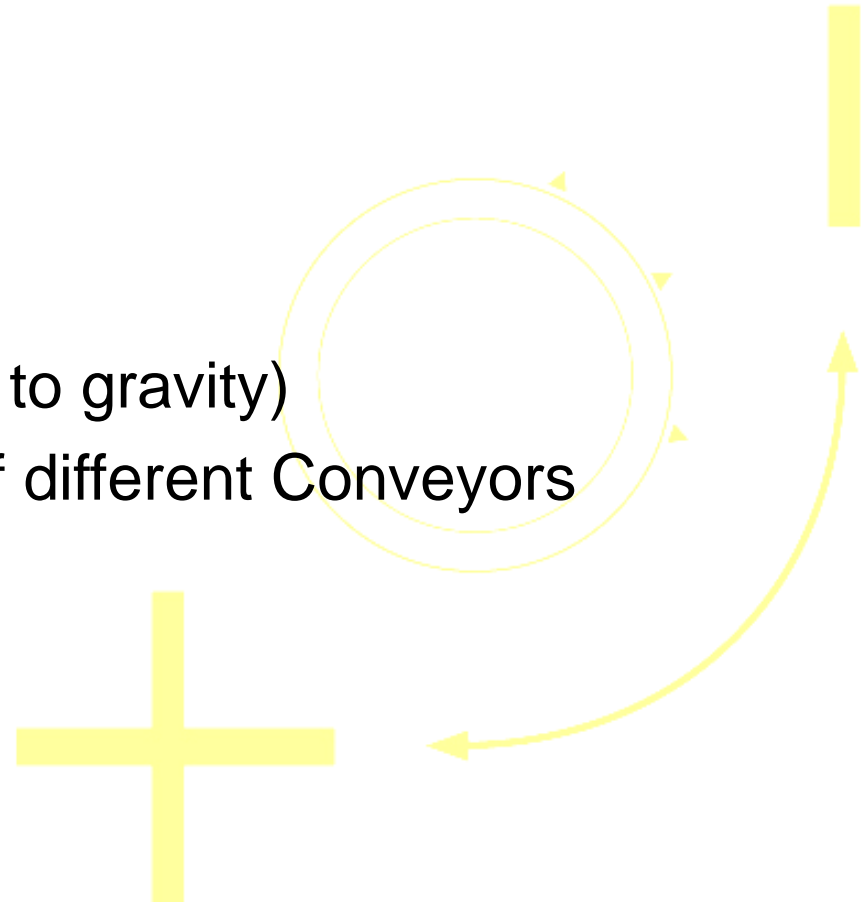


Curve A: Load mass = speed graph with sample values

Curve B: Load mass = speed graph calculated for a load of 90 kg at 18 metres per minute and a friction co-efficient of $M = 0.07$

Calculation of the propelling force / friction force

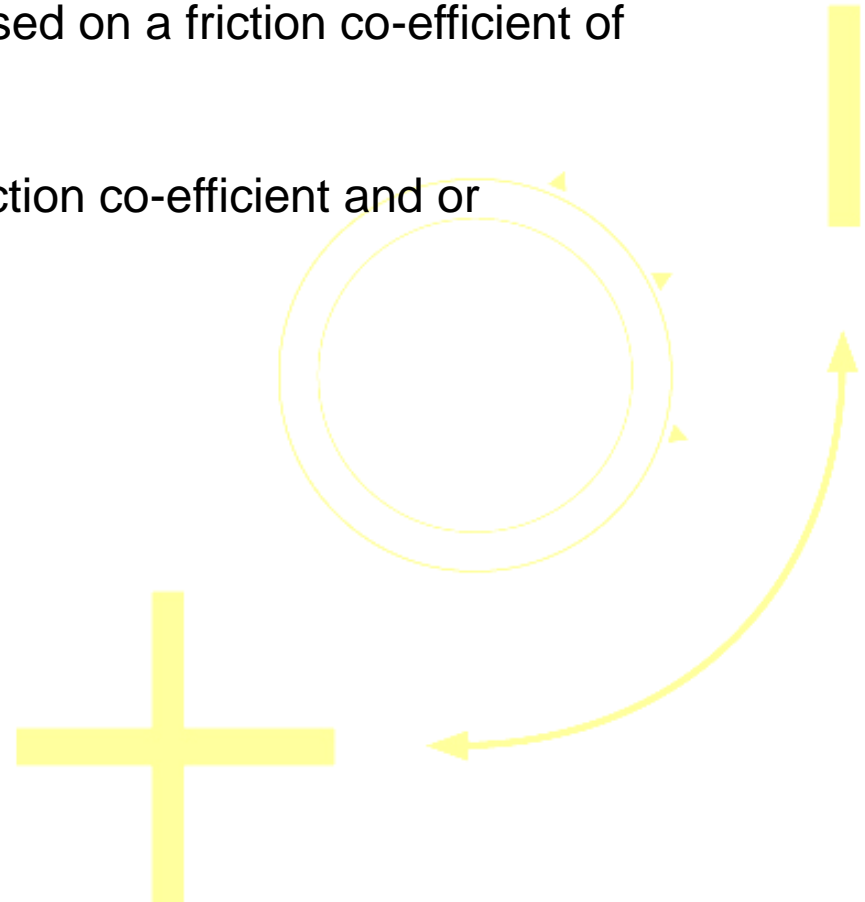
- $F_r = \mu * F_N = \mu * m * g$
Fr = resistance as a result of friction
FN = force to move load
- In units $kg * m/s^2 = N$
- μ = Friction coefficient
- m = mass in kg
- $g = 9,81 \text{ m/s}^2$ (acceleration due to gravity)
- Typical friction coefficients μ of different Conveyors Systems:
 - Belt: 0,2 – 0,3
 - Plastic chain: 0,3 – 0,5
 - Steel chain: 0,01 – 0,03



Parameters of the data sheets:

The parameters in the data sheets are based on a friction co-efficient of μ 0,07 and an air pressure of 6 bar.

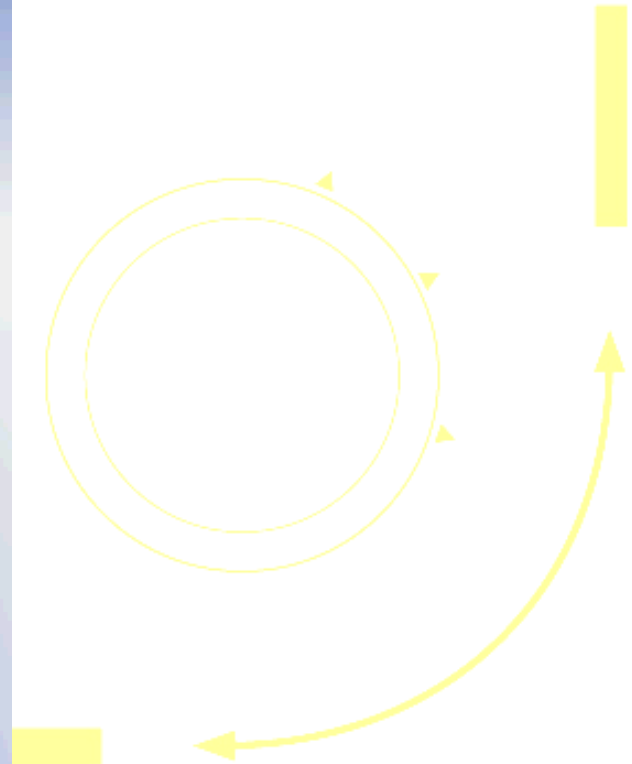
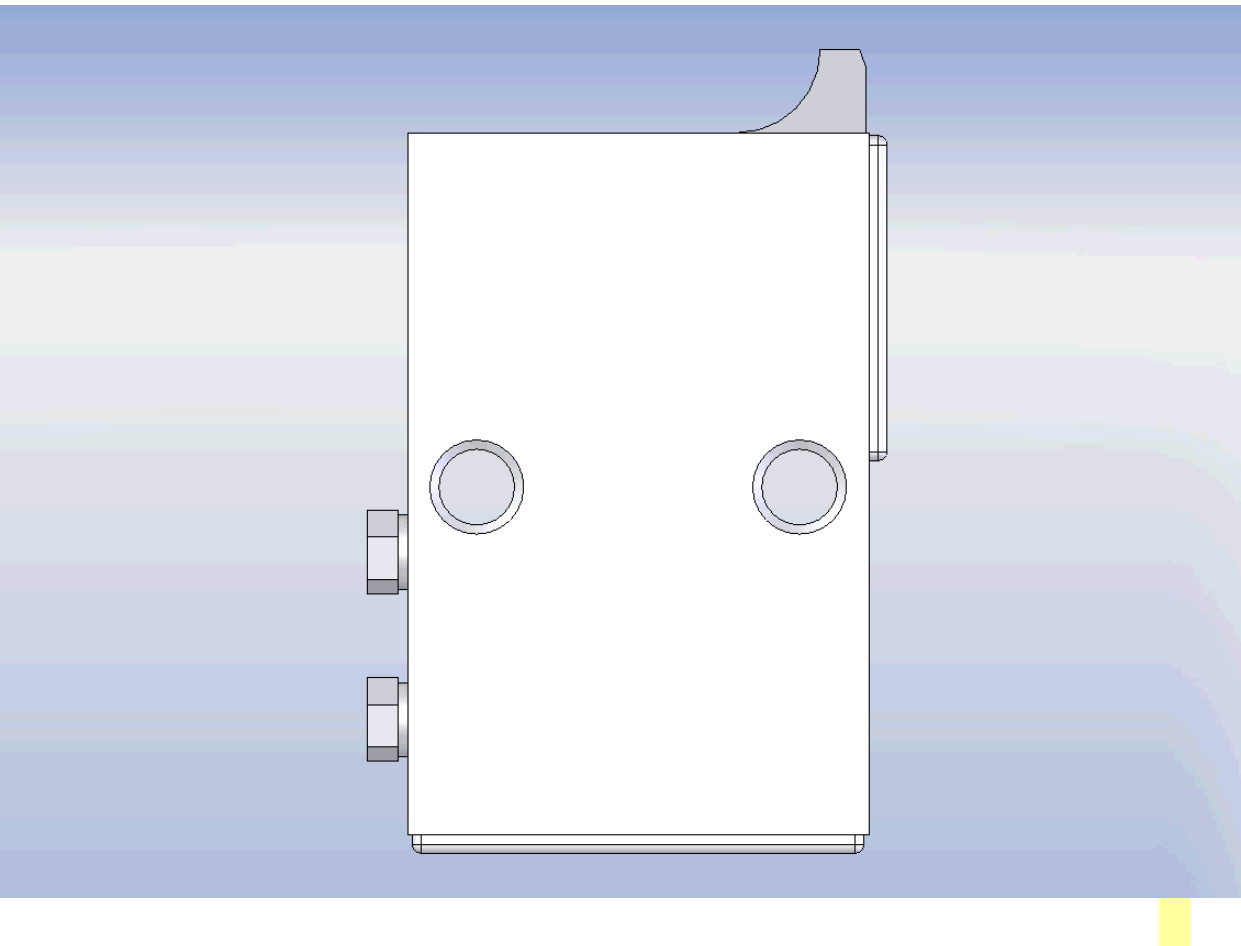
For different friction values use revised friction co-efficient and or compressed air pressure values.



Stopper without damping

e.g. Delta 0 up to 400 kg

DO-400

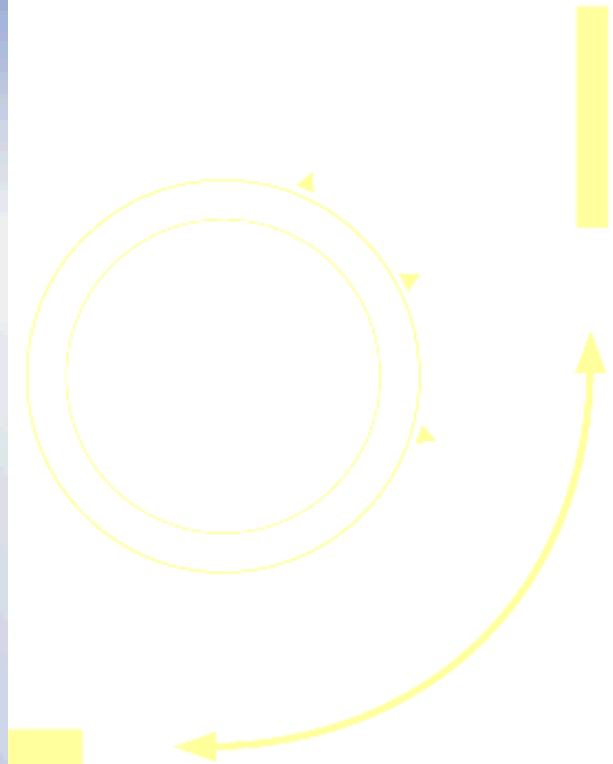
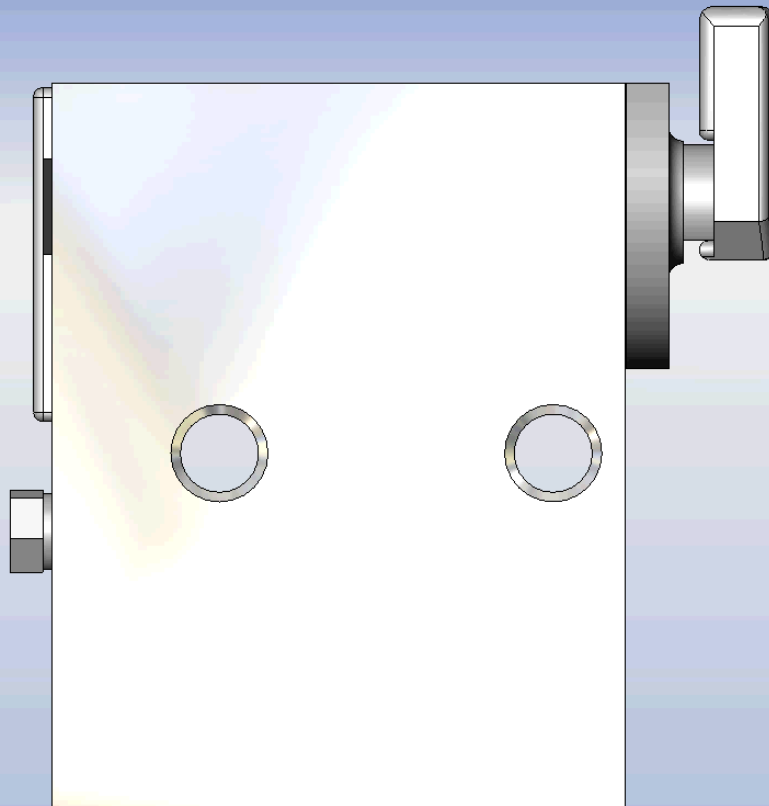




Damped stopper

e.g. Delta BS up to 60 kg

DBS

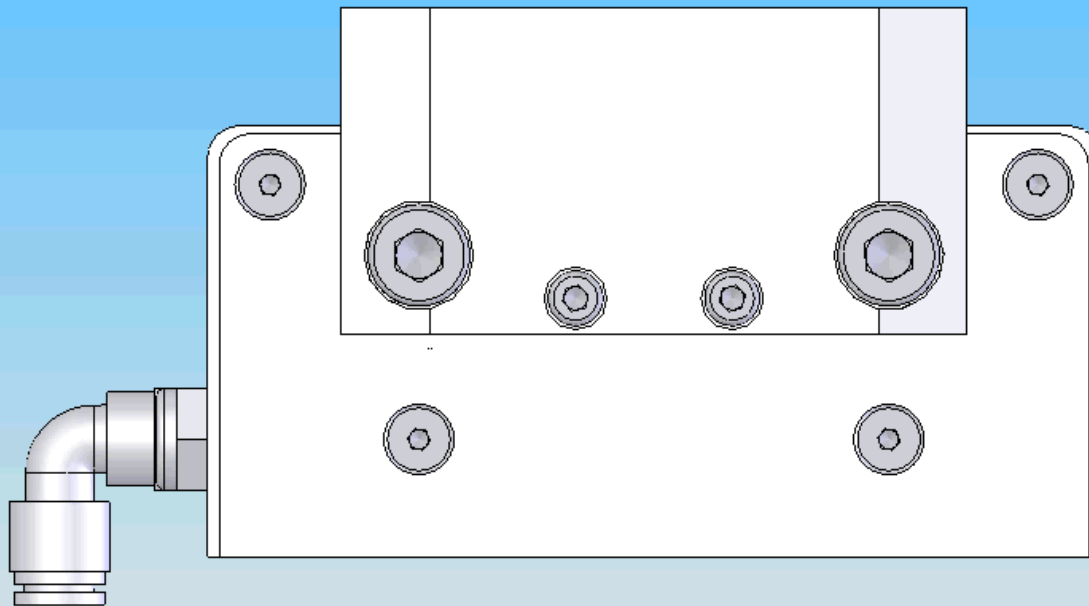


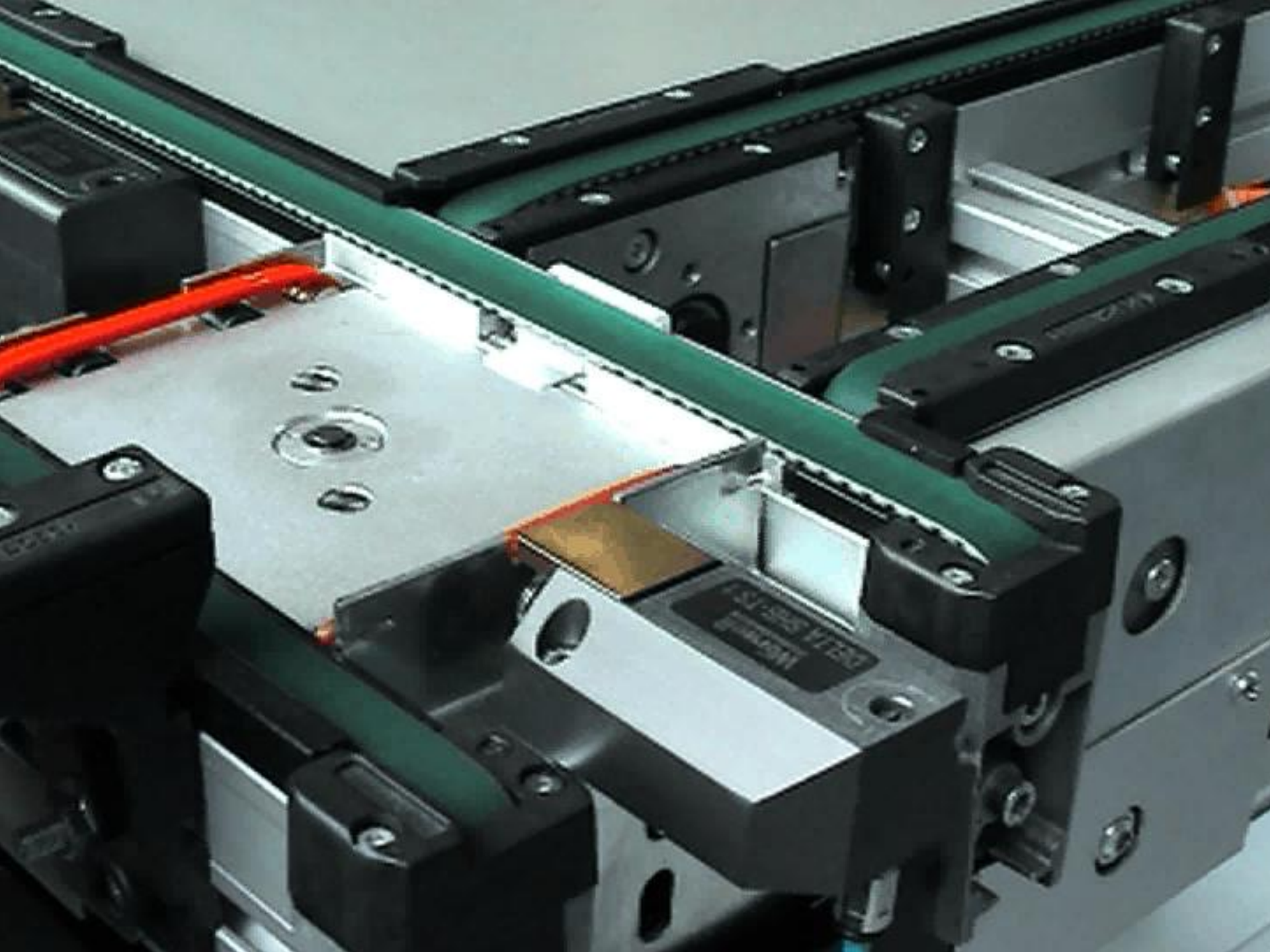


Angle damper

e.g. Delta BSQ-1100 up to 1100 kg

DBSQ-1100

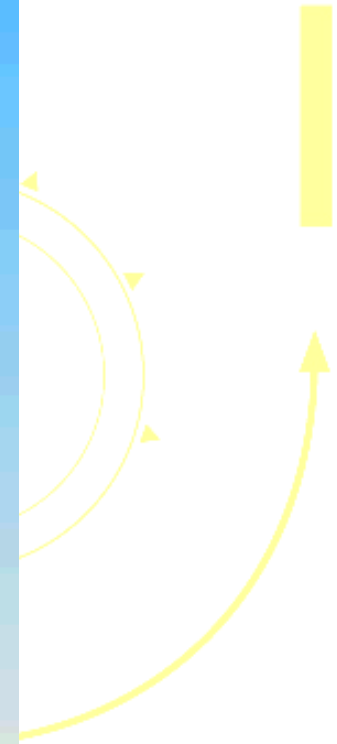
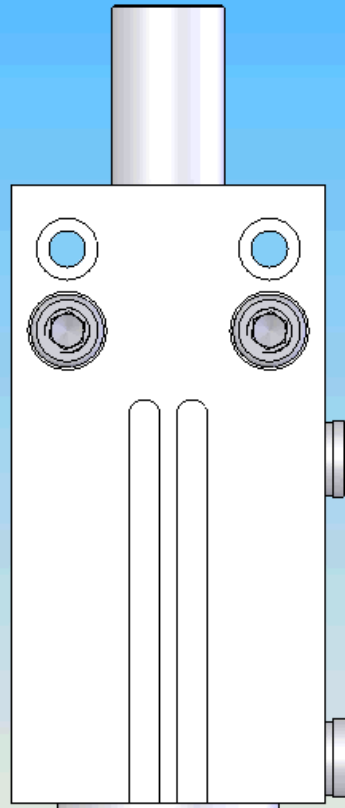


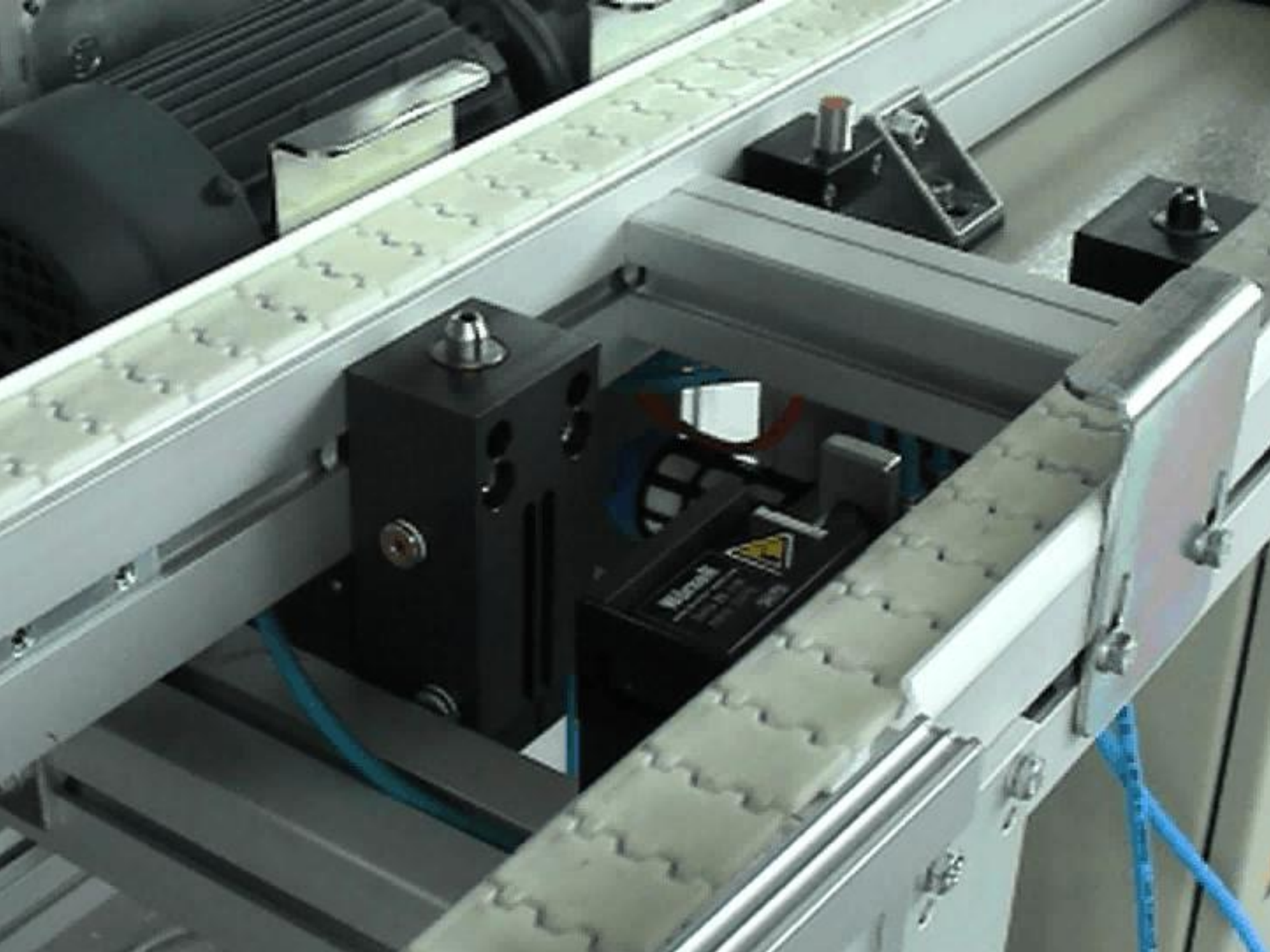


Indexcylinder

e.g. Indexcylinder with sensor slots up to 490 N

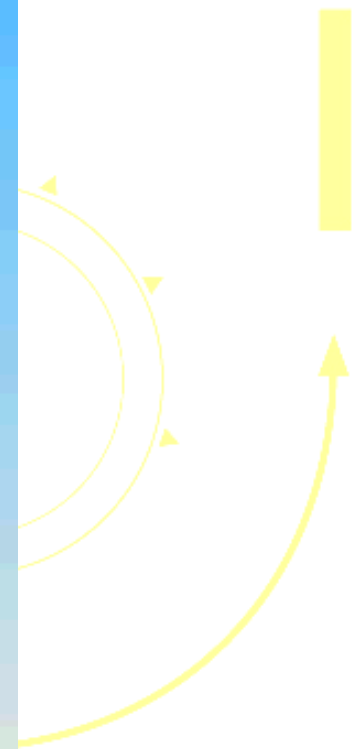
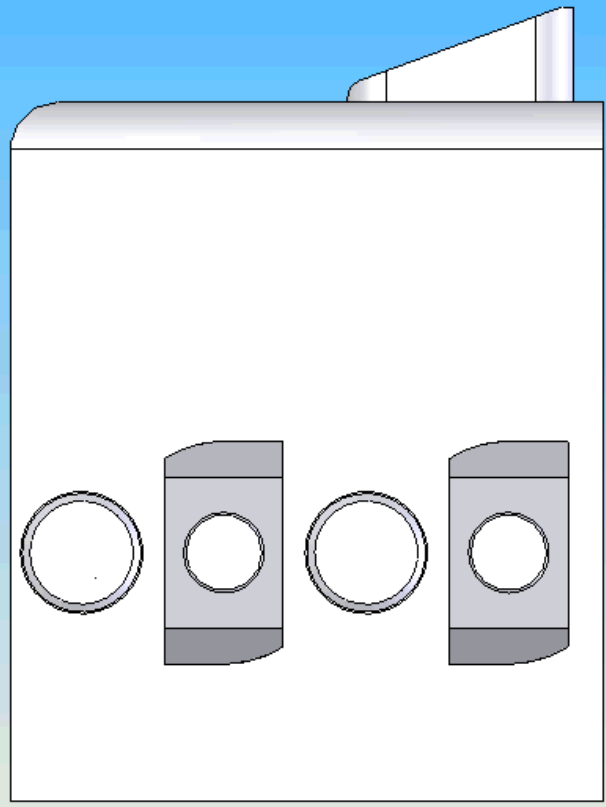
DI-490

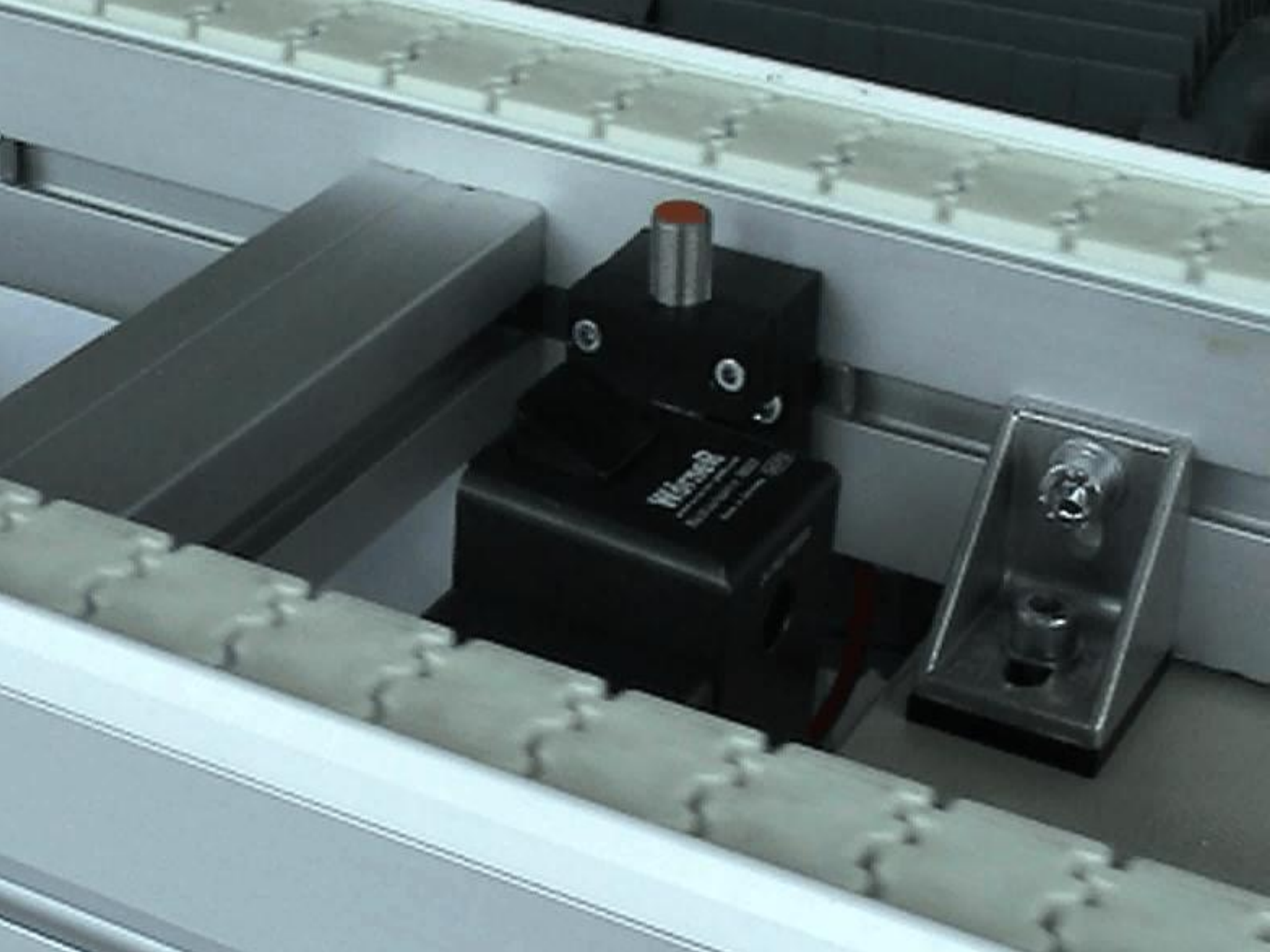




Anti bounce stop

DR





New electrical products

ELU-30-Ki



DEL-65

