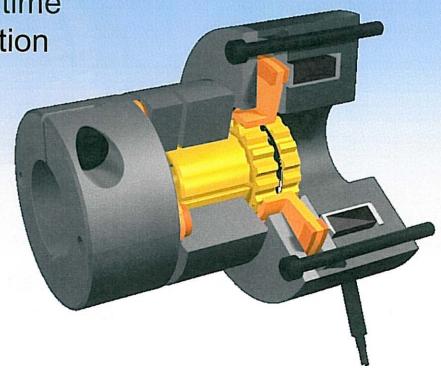
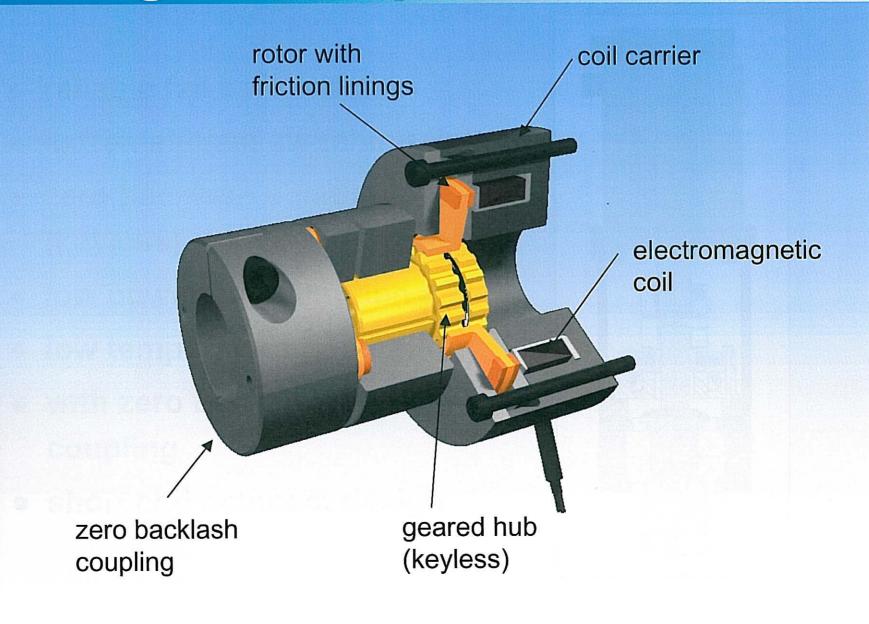
ROBA-stop Fast Acting Brake

New brake concept for extremely fast switching time and low power consumption

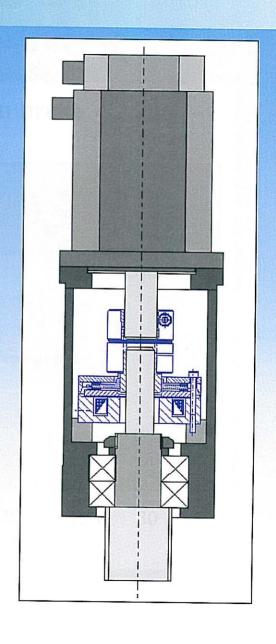


Design concept

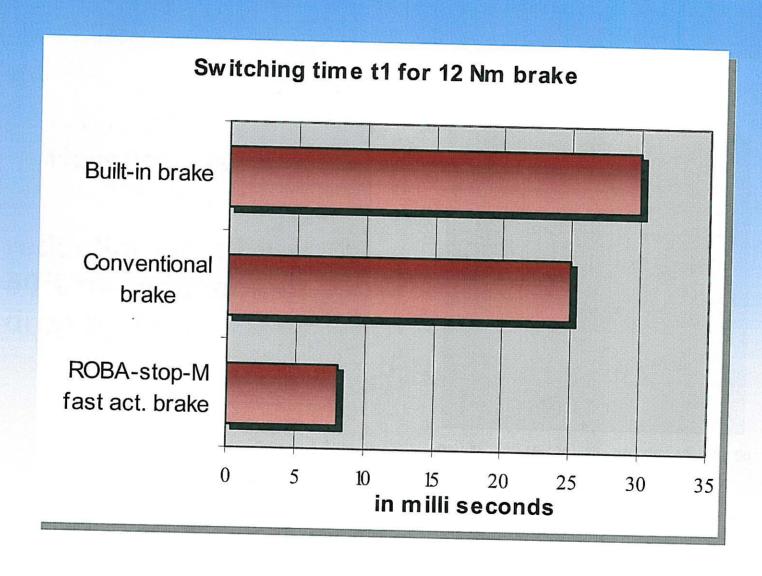


Features

- reliable fail safe function
- extremely fast switching time
- zero backlash shaft/hub (keyless)
- low power consumption
- low temperature generation
- with zero backlash servo coupling
- short and compact design



Fast switching time t1



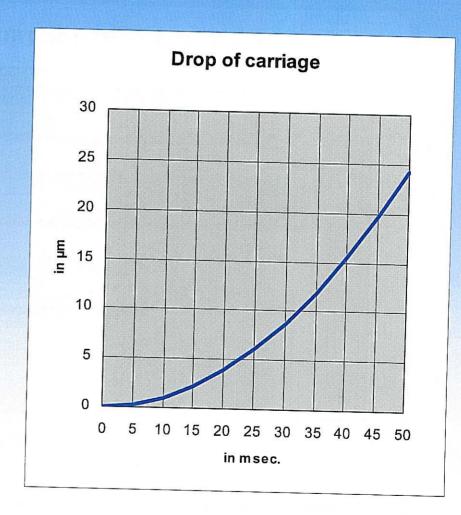
Drop distance

• s~t12

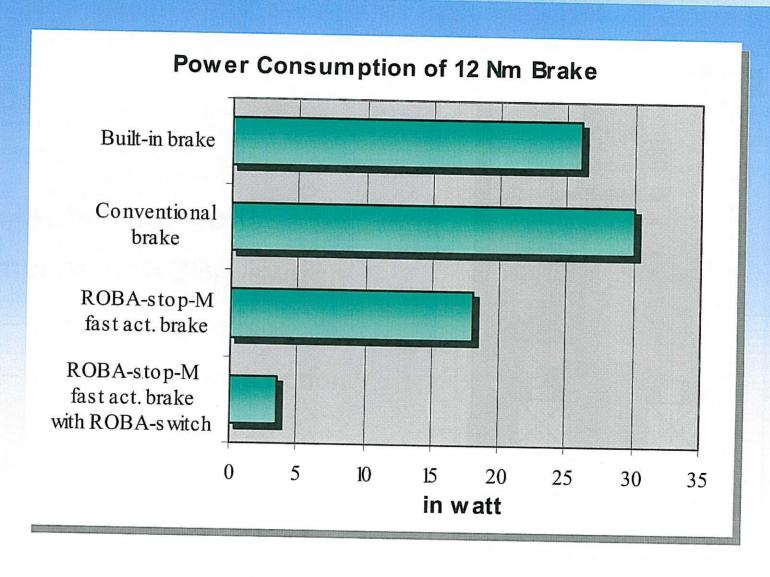
- s: drop dist.

- t1: switching time

reduction of t1 by 50% => reduction of drop by 75%

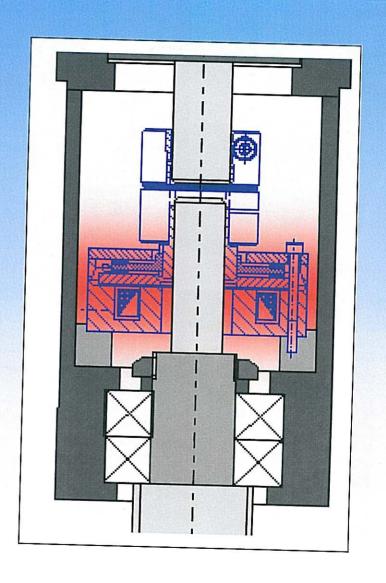


Low power consumption



Low heat generation

- Coil with low power consumption
- Low holding voltage by means of ROBA-switch
 - 50% holding voltage
 - 25% power consumption



ROBA-switch 24V

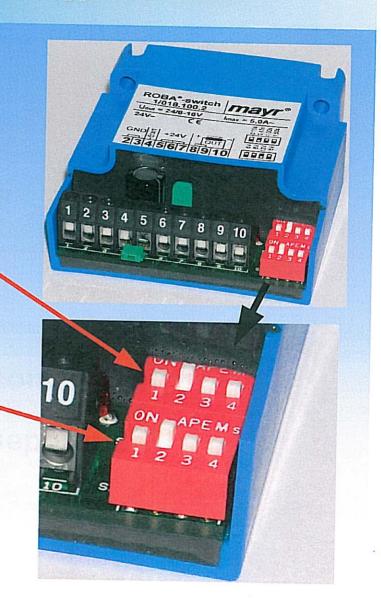
type 1/018.100.2

for 24 VDC power supply

provides 24 VDC for selected time
 (0,15s / 0,45s / 1,0s / 1,5s / 2,15s)

low holding voltage, selected via
 DIP switch 6V / 8V / 12V / 16V

Switchable via SPS input



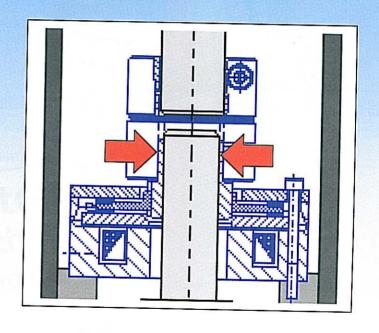
Benefits:

- Higher brake torque possible
- Less energy consumption
- Reduced brake temperature
- Reduced switching time t1 (connection)
- Reduced switching time t2 (separation)
- Cost- saving



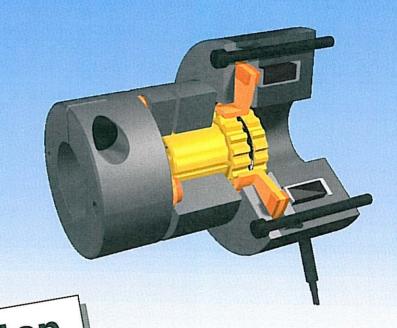
Zero backlash shaft/hub c.

- Frictionally locked via coupling hub
- No keyway required in ball screw
- Zero backlash connection
- Brake torque applies direct
 on ball screw shaft
 - without motor
 - with failed coupling



Conclusion

- drop distance reduced
- heat generation reduced
- higher safety integrated
- costs reduced



ROBA-stop
Always the
safest choice
for brakes