

# Passive rotor brakes -fail safe-

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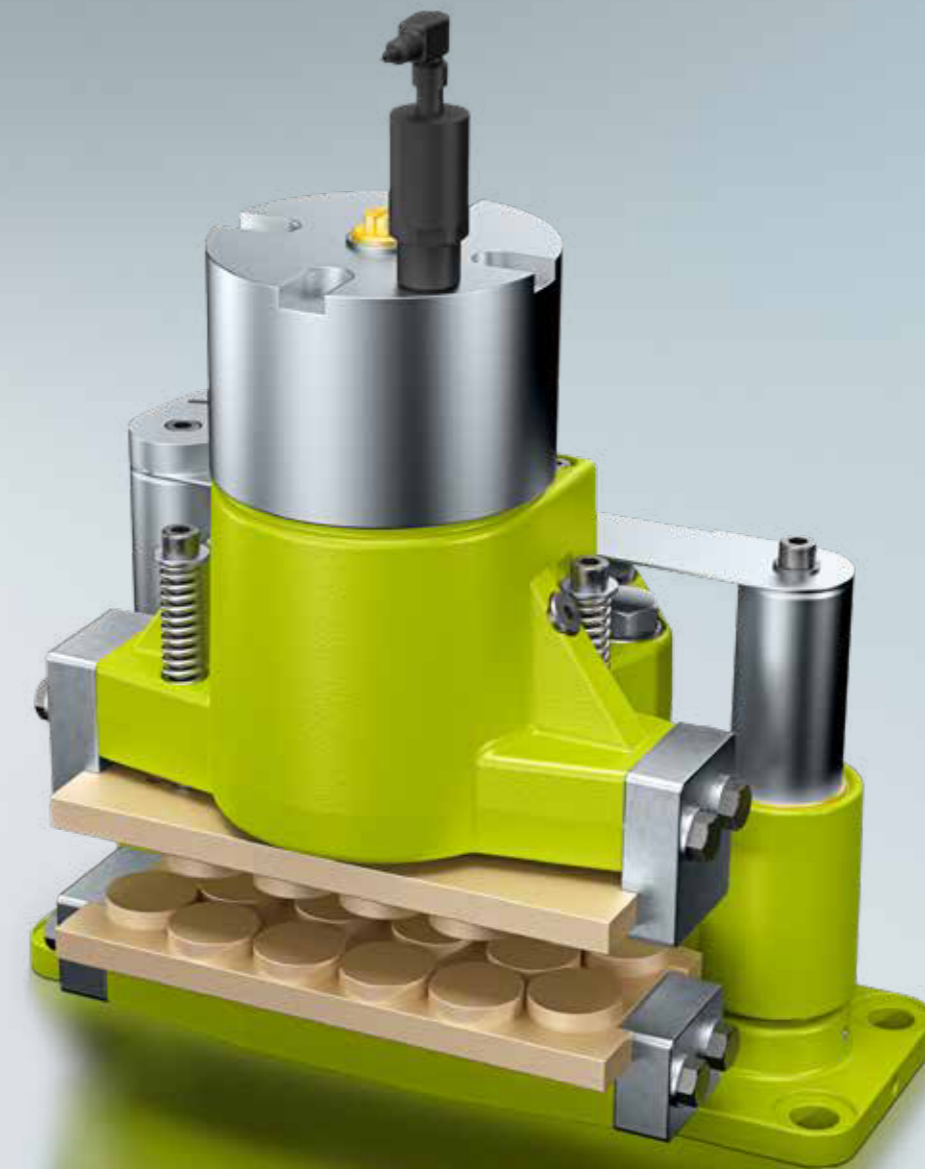


Automatic wear adjustment of this passive rotor brake keeps the gap between the brake pad and disc consistent. The result: short response times – just like here with us.

Patrick Streppelhoff, Engineering

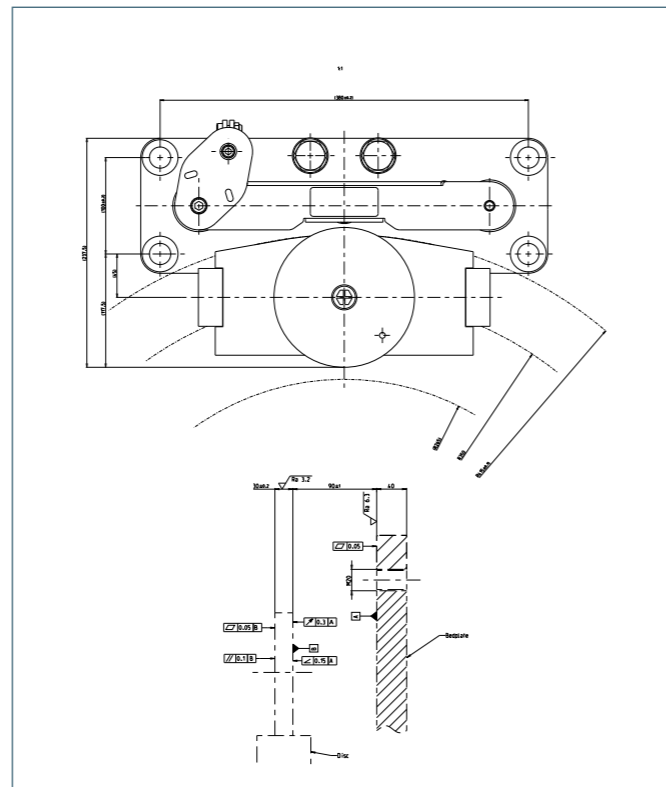
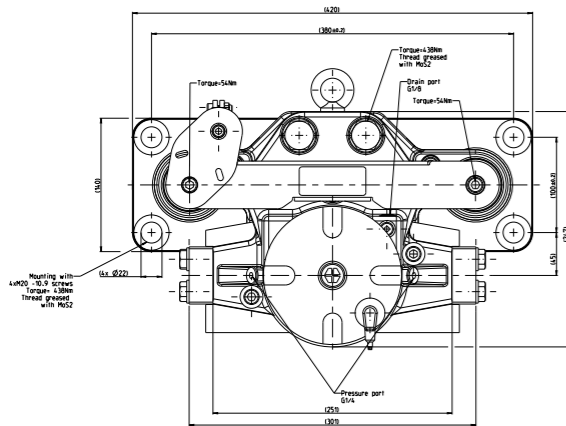
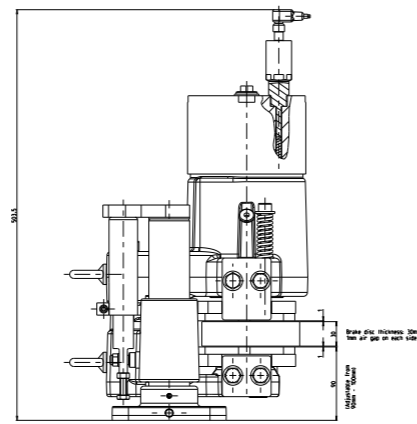
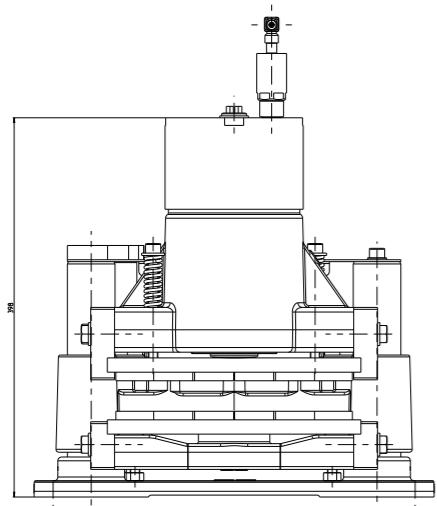
## JHS-PRC-317-AWA

- Spring applied and hydraulically released fail-safe disc brake with a clamping force up to 27,000N; working temperature range down to -40°C
- Large brake pad area, lower brake pad disc t, long life time on the brake pad
- Constant small air between brake pad and disc given by the Automatic Wear Adjustment (AWA) System, short response time, fast braking



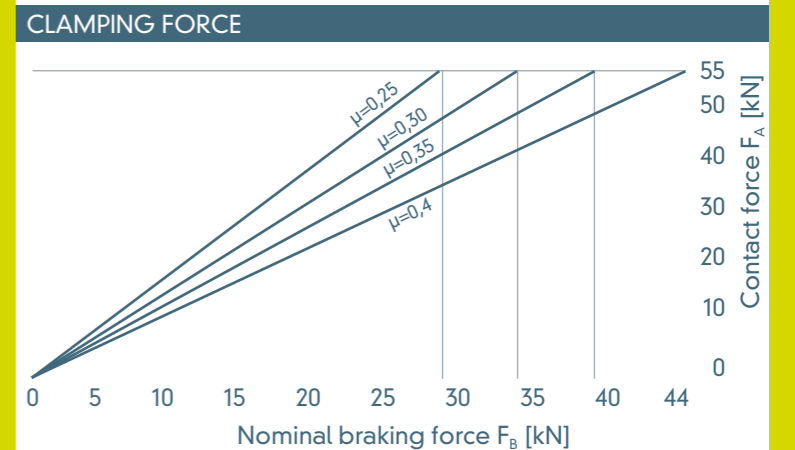
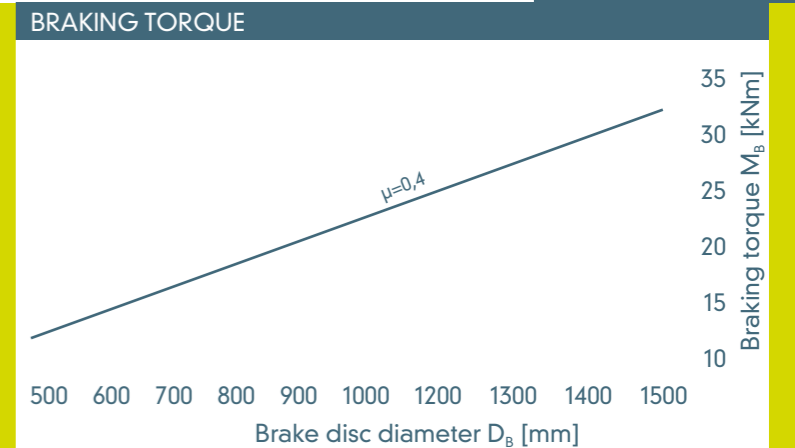
- Easy mounting, using 4xM20 screws only, reduce installation costs
- Drain ports for hydraulic oil leakage, prevent oil on brake disc, high safety
- Few moving parts, easy maintenance, reduces maintenance costs
- Sinter brake pad, suitable for high speed or high torque braking occasions
- Removable brake pad holders, easy to exchange brake pad, low maintenance cost
- Apply to damp, dust and corrosive working environment

# JHS-PRC-317-AWA



<b>Type JHS-PRC-317-AWA</b>	
Contact force Fa (max)	27 kN
Operation pressure p (max)	55 bar
Piston area	20 cm <sup>2</sup>
Min. working temperature	-40 °C
Weight	90 kg
Pressure connection port	G1/4
Drain connection port	G1/8
<b>BRAKE PAD</b>	
Pad area (sintered)	200 cm <sup>2</sup>
Brake pad width	126 mm
Floating range in axles	90-100 mm
Away from mounting surface	10 mm
Theor. Friction coefficient	0,4 μm
<b>BRAKE DISC</b>	
Min. brake disc ød2	500 mm
Max. outer coupling diameter	40 mm
Disc thickness (standard)	30 mm

<b>BRAKING TORQUE</b>	
Braking torque formula:	
$F_B = F_A \times 2 \times \mu$	
$M_B = a \times F_B \times D_B / 2$	
$F_A$	= Contact force [kN]
$F_B$	= Nominal braking force [kN]
$M_B$	= Braking torque [kNm]
$a$	= Number of calipers acting on the disc
$D_B$	= Brake disc diameter [m]



- OPTIONS**
- Hydraulic power unit
  - Brake pad with different material
  - Brake pad wear and on/off indicator
  - Temperature sensor