Active yaw brake caliper

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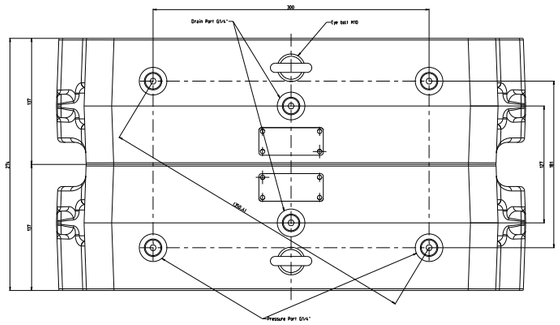
This brake is a perfect example of how a premium product can be made out of an industry standard if you opt for the right components from the very beginning.

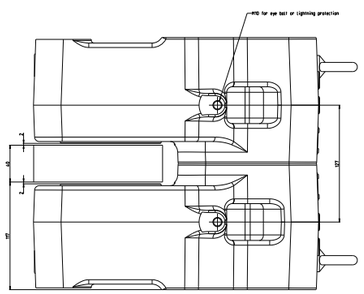
Holger Brink, Manufacturing

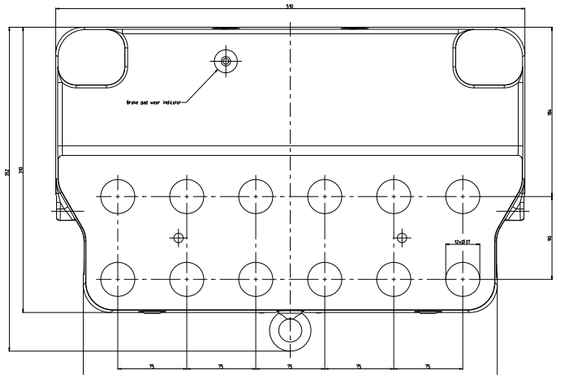
JHS-32

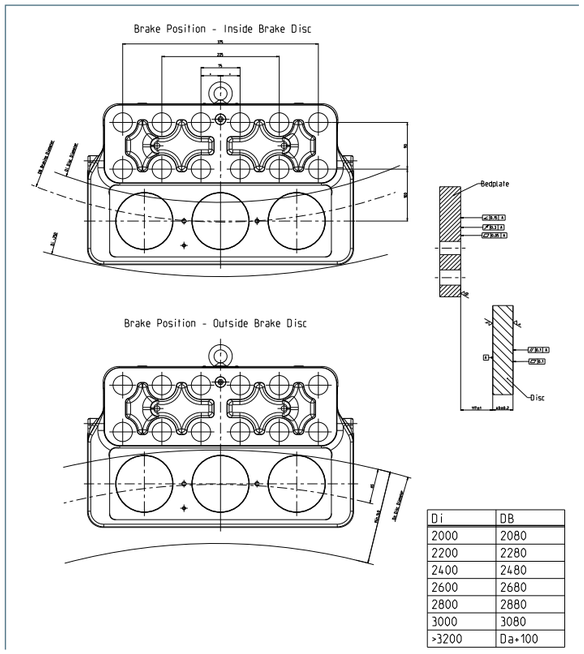
- Brake hydraulically applied
- Airgap between brake pad and disc up to 2 mm per side
- Special epoxy resin pads with GFK carrier plate
- Tight fitting between brake pad and caliper
- Drain ports for hydraulic oil leakage, prevents oil on brake disc, high safety
- Min. / Max. working temperature -40 / +60 °C

JHS-32









Di	DB
2000	2080
2200	2280
2400	2480
2600	2680
2800	2880
3000	3080
>3200	Da+100

TYPE JHS-32		
Contact force F_A	542	kN
Operating pressure p (max)	160	bar
Piston area (per side)	339	cm²
Volume at 1 mm stroke (per side)	33,9	cm³
Temperature range	-40 / +60	°C
Weight	185	kg
Pressure connection port	G1/4	
Drain connection port	G1/4	

BRAKE PAD		
Pad area (each side)	285,1	cm²
Brake pad width	138	mm
Theor. friction coefficient	0,4	µ

BRAKE DISC		
Brake disc ød2	min. 2000	mm
Disc thickness (standard)	40	mm

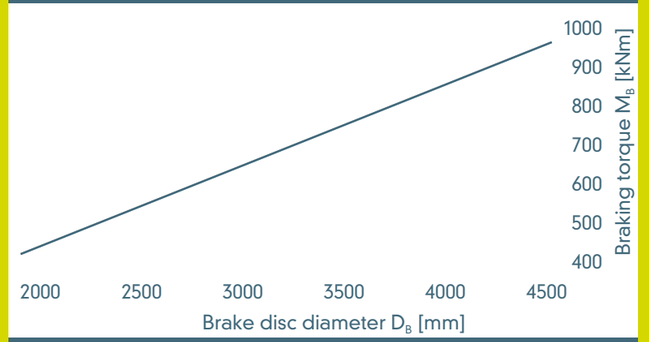
BRAKING TORQUE

Braking torque formula:

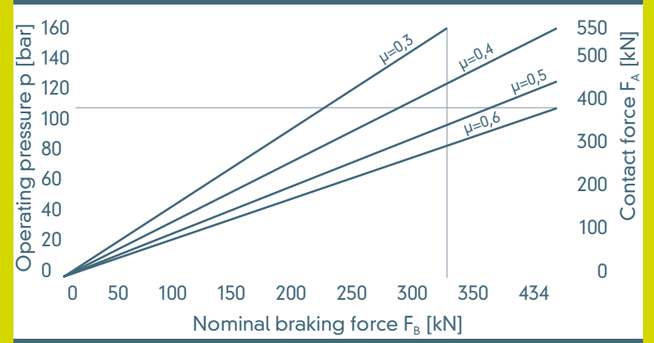
$$F_A = p \times 3{,}393$$
$$F_B = F_A \times 2 \times \mu$$
$$M_B = a \times F_B \times D_B / 2$$

F_A = Contact force [kN]
p = Operating pressure [bar]
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]

BRAKING TORQUE



CLAMPING FORCE



OPTIONS

- Complete piped supports for one more calipers
- Hydraulic power unit
- Brake disc
- Brake pad with different material
- Brake pad wear indicator