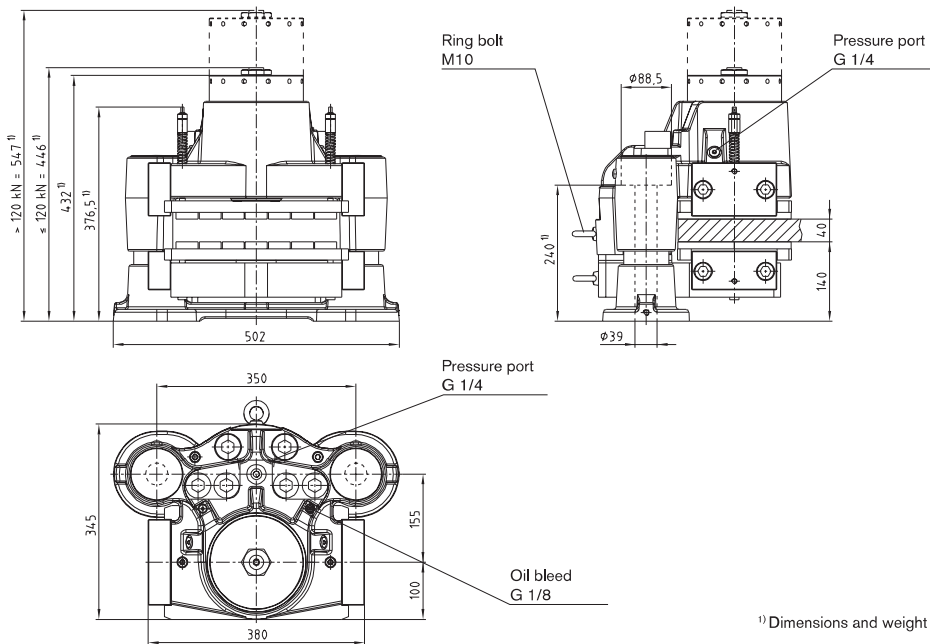
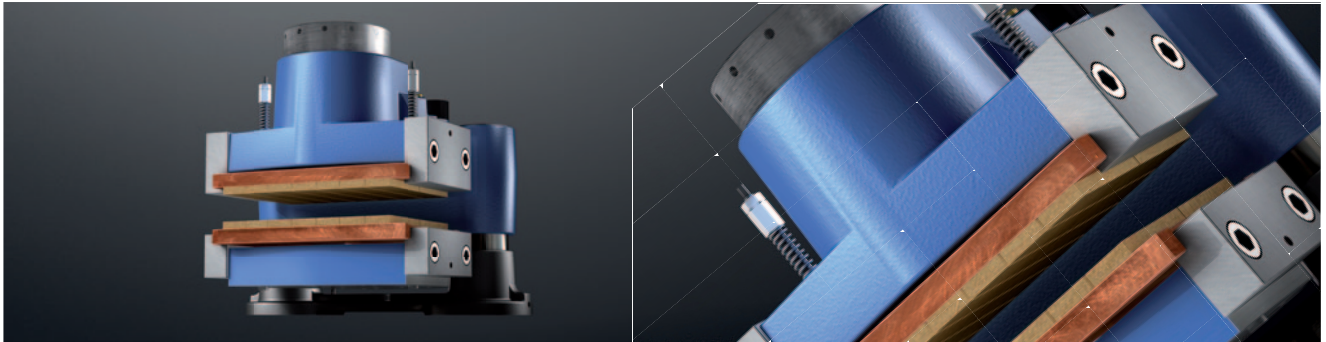


KTR-STOP® M-xxx-F

Passive floating caliper brake

Hydraulic brake system



¹⁾ Dimensions and weight depend on thickness of brake disk.

KTR-STOP® M-xxx-F			
Total weight	approx. 200 kg - 212 kg ¹⁾	Max. operating pressure	200 bar
Width of brake pad	200 mm	Thickness of brake disk	25 mm - 50 mm
Surface of each brake pad	organic Sinter	Pressure port	G 1/4
	57.900 mm ² 53.500 mm ²	Oil bleed	G 1/8
Max. wear of each brake pad	8 mm	Backlash on axles - towards mounting surface	5 mm
Nominal coefficient of friction ²⁾	$\mu = 0,4$	Backlash on axles - away from mounting surface	below 120 kN = 10 mm above 120 kN = 5 mm
Total brake piston surface - complete brake	137,4 cm ²	Min. diameter of brake disk ØD _A	800 mm
Volume with 1 mm stroke - complete brake	13,74 cm ³	Operation temperature	-20 °C to +50 °C

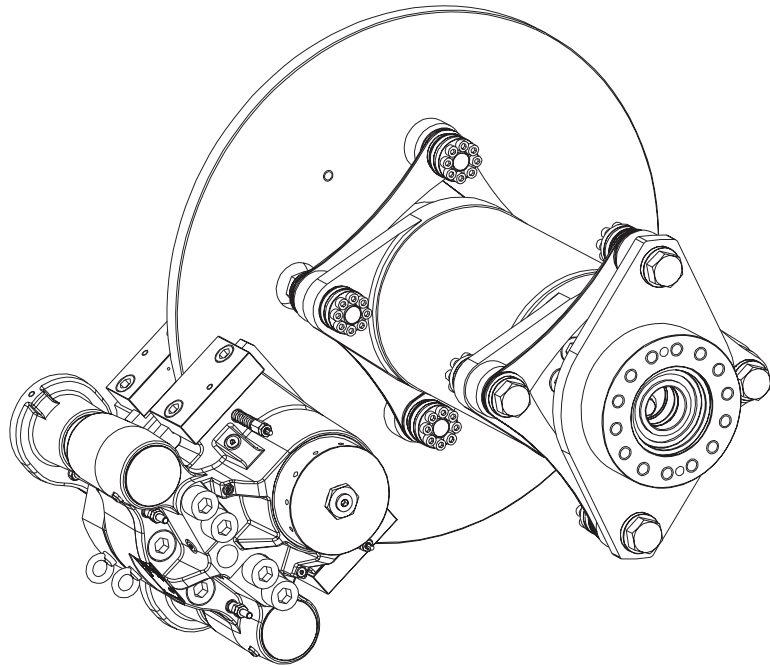
Types of brakes							
Type of brake ³⁾	Clamping force F _C [kN]	Power loss ⁴⁾ [%]	Opening pressure [bar]	Weight ¹⁾ [kg]	Braking torque [Nm] with brake disk Ø [mm]		
					800	1500	2000
KTR-STOP® M-100-F	100	7,0	110	200	24000	52000	72000
KTR-STOP® M-120-F	120	8,5	130	200	28800	62400	86400
KTR-STOP® M-140-F	140	4,5	150	212	33600	72800	100800
KTR-STOP® M-160-F	160	7,0	180	212	38400	83200	115200
KTR-STOP® M-180-F	180	6,0	190	212	43200	93600	129600

²⁾ The coefficient of friction each depends on the application or material of the brake pad, respectively. Please consult with KTR.

³⁾ Other types of brakes on request

⁴⁾ With 1 mm stroke (0.5 mm wear of pad on each side)

Ordering example:	KTR-STOP®	M	-	100	-	F	A	-	40
	KTR brake	Size of brake		Clamping force		Floater	Option		Thickness of brake disk

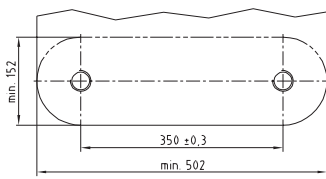


Calculation of brake disk

$$D_{C \max} = D_A - 410$$

$$D_{av} = D_A - 200$$

Connection dimensions of brake



$$F_b = F_c \cdot 2 \cdot \mu$$

$$M_b = z \cdot F_b \cdot \frac{D_{av}}{2}$$

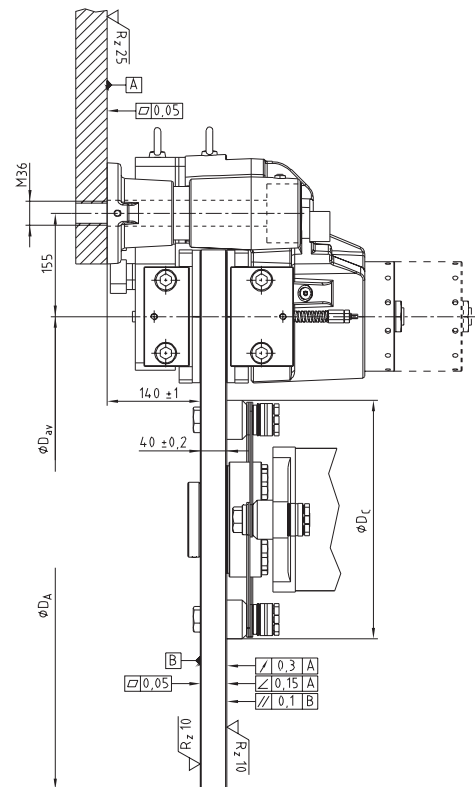
F_b = Braking force [kN]

F_c = Clamping force [kN]

M_b = Braking torque [kNm]

z = Number of brakes

D_{av} = Effective diameter of brake [m]



Optional

- Various colours available
- Sensor indicating wear of pad and condition
- Temperature sensor
- Alternative materials of brake pad