KTR-STOP® M-A-F
Active floating caliper brake

Ring bolt M10

Ring bolt M10

Pressure port G 1/4

Ø88,5

378 [1]

24,0 [1]

14,0

14,0

502

Ø39

350

Pressure port G 1/4

Oil bleed G 1/8

342

155

100

380
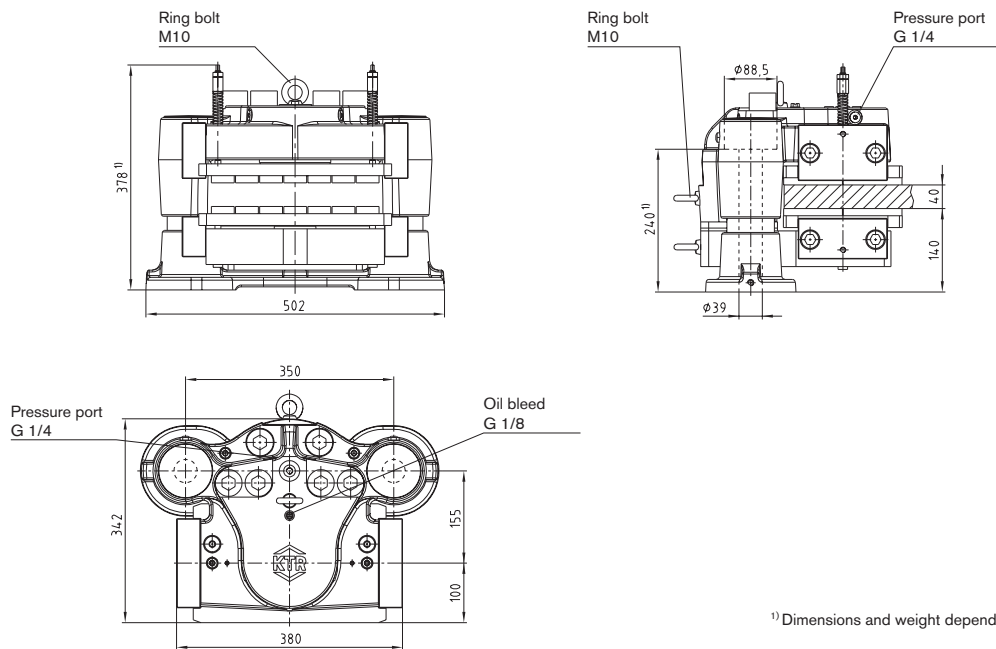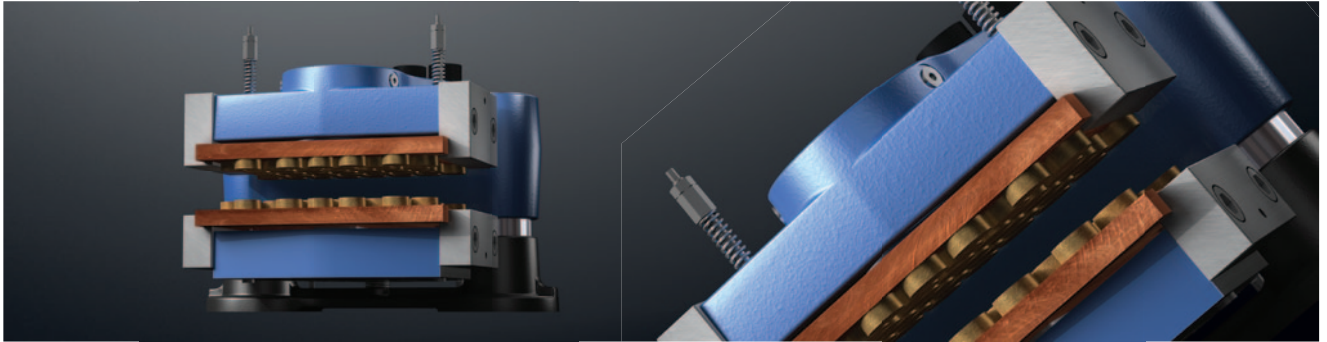
[1] Dimensions and weight depend on thickness of brake disk.

KTR-STOP® M-A-F			
Total weight	approx. 172 kg [1]	Max. clamping force	130 kN
Width of brake pad	200 mm	Max. operating pressure	115 bar
Surface of each brake pad organic	57.900 mm²	Thickness of brake disk	25 mm - 50 mm
powder metal	53.500 mm²	Pressure port	G 1/4
Max. wear of each brake pad	8 mm	Oil bleed	G 1/8
Nominal coefficient of friction [2]	µ = 0,4	Backlash on axles - towards mounting surface	5 mm
Total brake piston surface - complete brake	113 cm²	Backlash on axles - away from mounting surface	10 mm
Volume with 1 mm stroke - complete brake	11,3 cm³	Min. diameter of brake disk ØD$_A$	800 mm
		Operation temperature	-20 °C to +50 °C

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

Braking torque [Nm] with brake disk Ø [mm]			
Brake disk Ø [mm]	800	1500	2000
Braking torque [Nm]	31200	67600	93600

Calculation of braking force

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

$$M_b = z \cdot F_b \cdot \frac{D_{av}}{2}$$
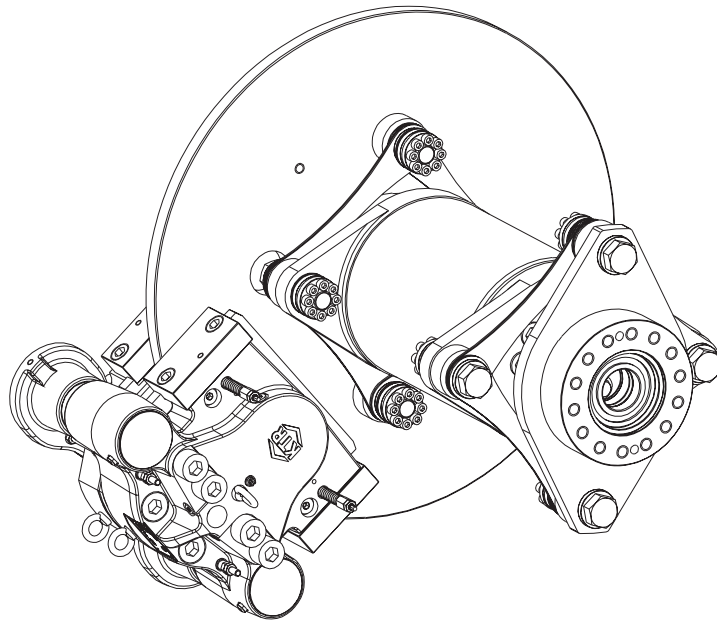
F_b = Braking force [kN]
F_c = Clamping force [kN]
M_b = Braking torque [kNm]

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

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

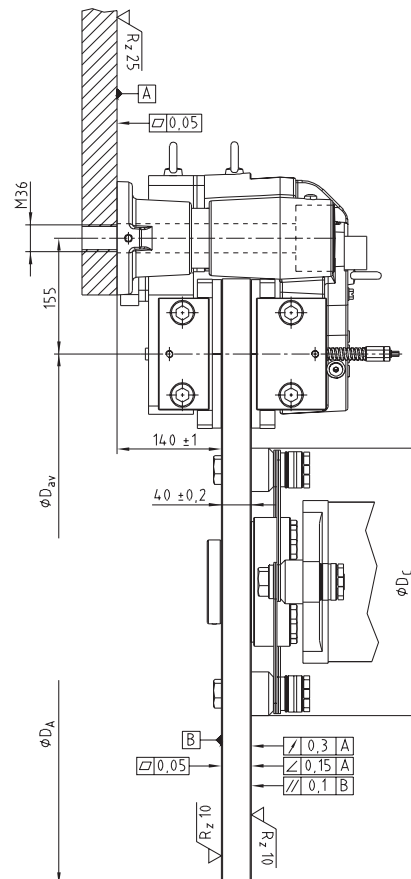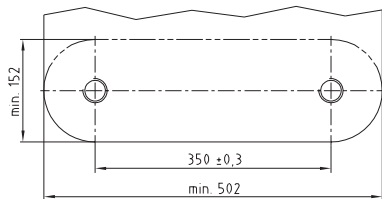## Calculation of brake disk

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

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

Connection dimensions of brake

Optional

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