

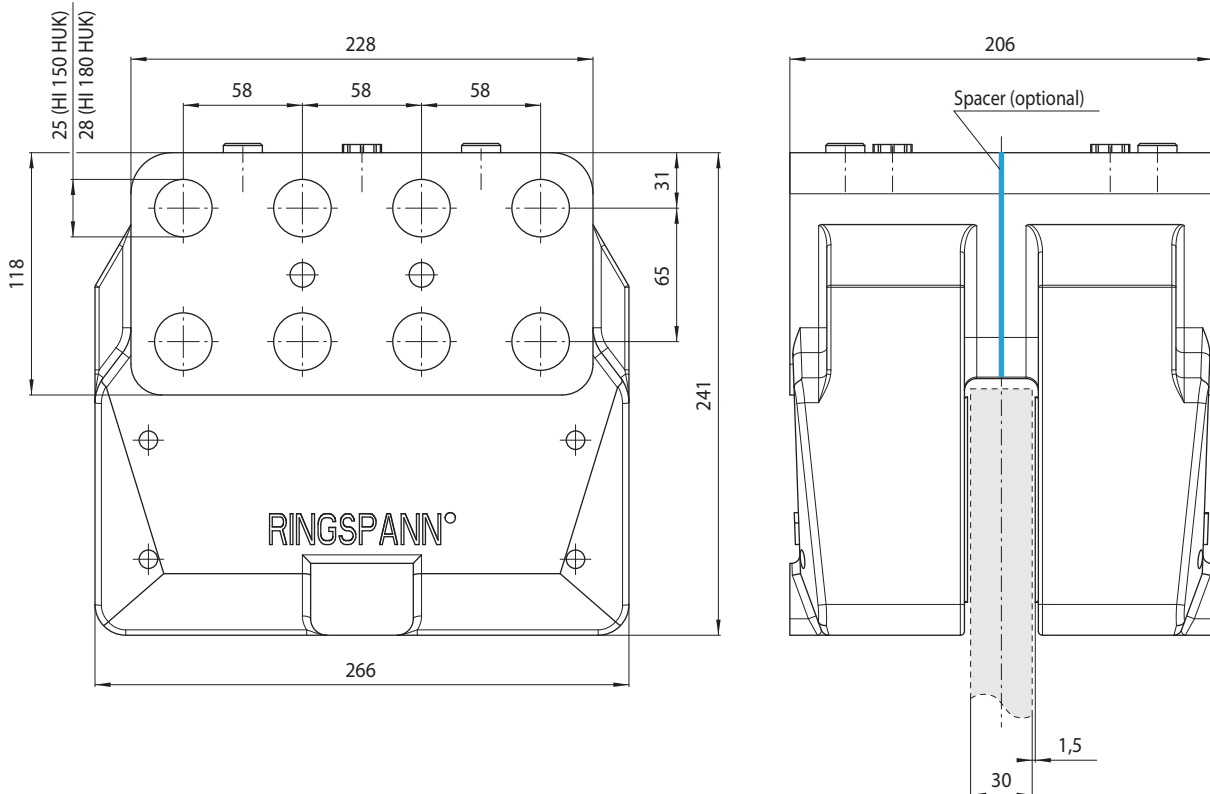
Features

	Code
Brake Caliper	H
With inside-mounted brake pads	I
With piston diameter 2 x 75 mm or piston diameter 2 x 90 mm	150 180
Hydraulically activated	H
Non-releasing	U
No adjustment to counter friction block wear	K
Max. clamping force 140 kN (HI 150)	140
Max. clamping force 200 kN (HI 180)	200

Example for ordering

Brake Caliper HI 150 HUK, max.
clamping force 140 kN:

HI 150 HUK - 140

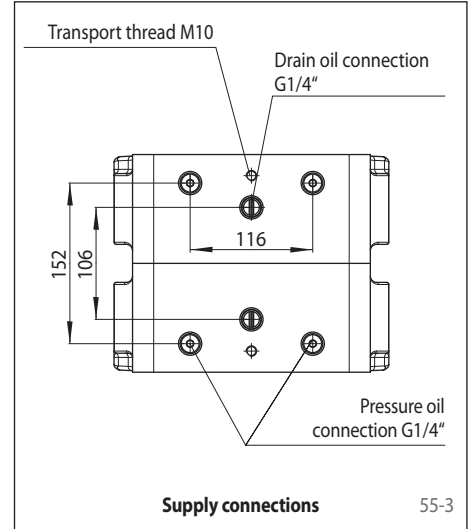
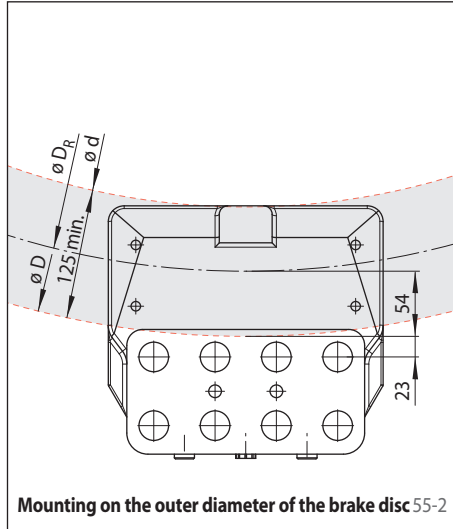
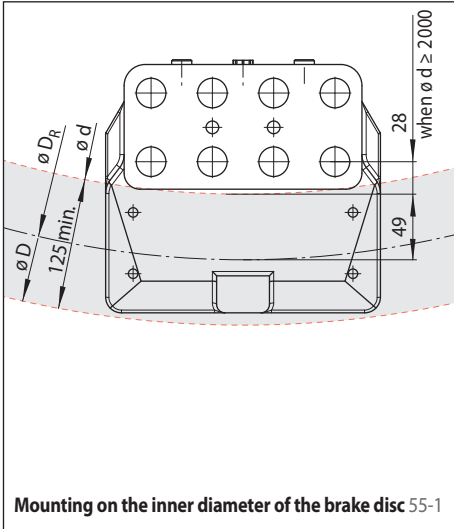


Brake Calipers HI 150 HUK and HI 180 HUK

hydraulically activated – non-releasing
as yaw brake in wind turbines

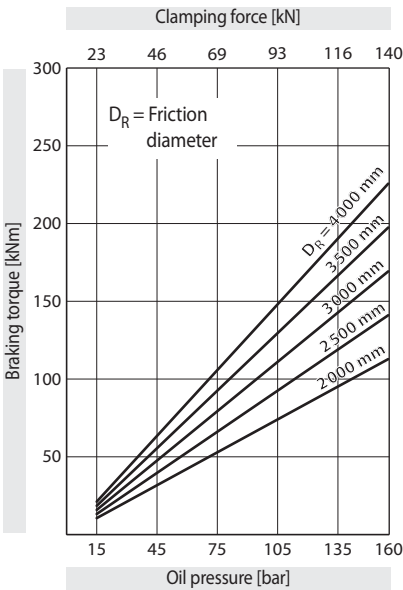


Mounting



Technical Data

Brake Caliper HI 150 HUK



The braking torques shown in the diagram are based on a theoretical friction coefficient of 0,4.

Oil pressure: min. 15 bar
max. 160 bar

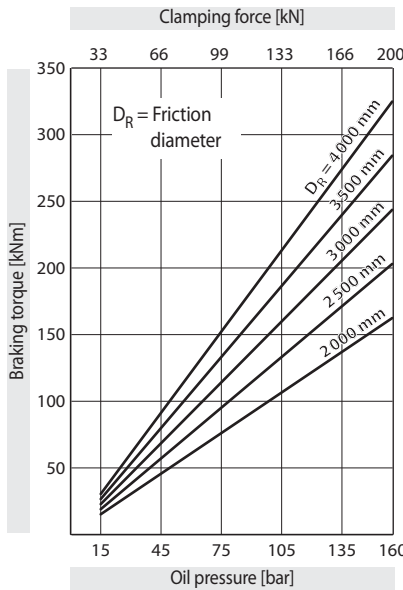
Oil volume: 17 cm³ per 1 mm stroke

Weight: ca. 65 kg

Other features

- High safety against leakage
- Painted with surface coating class C4-L according to ISO 12944
- For brake disc thickness $W = 30$ mm; larger brake disc thicknesses can be achieved with the use of a spacer installed by the customer

Brake Caliper HI 180 HUK



The braking torques shown in the diagram are based on a theoretical friction coefficient of 0,4.

Oil pressure: min. 15 bar
max. 160 bar

Oil volume: 26 cm³ per 1 mm stroke

Weight: ca. 65 kg

Accessories

- Optional painting with surface coating class C4-H or C5M-H (offshore) according to ISO 12944

Calculation of the friction diameter

Mounting on the inner diameter of the brake disc:

$$D_R = d + (2 \cdot 49 \text{ mm})$$

(when $d \geq 2000$ mm)

Mounting on the outer diameter of the brake disc:

$$D_R = D - (2 \cdot 54 \text{ mm})$$

Calculation of the braking torque

HI 150 HUK:

$$M_B = \frac{D_R}{1,132} \cdot p \cdot \mu$$

HI 180 HUK:

$$M_B = \frac{D_R}{0,786} \cdot p \cdot \mu$$

Formula symbols

- M_B = Braking torque [Nm]
- D = Outer diameter brake disc [mm]
- d = Inner diameter brake disc [mm]
- D_R = Friction diameter [mm]
- p = Oil pressure [bar]
- μ = Friction coefficient

Any questions? Please contact us.