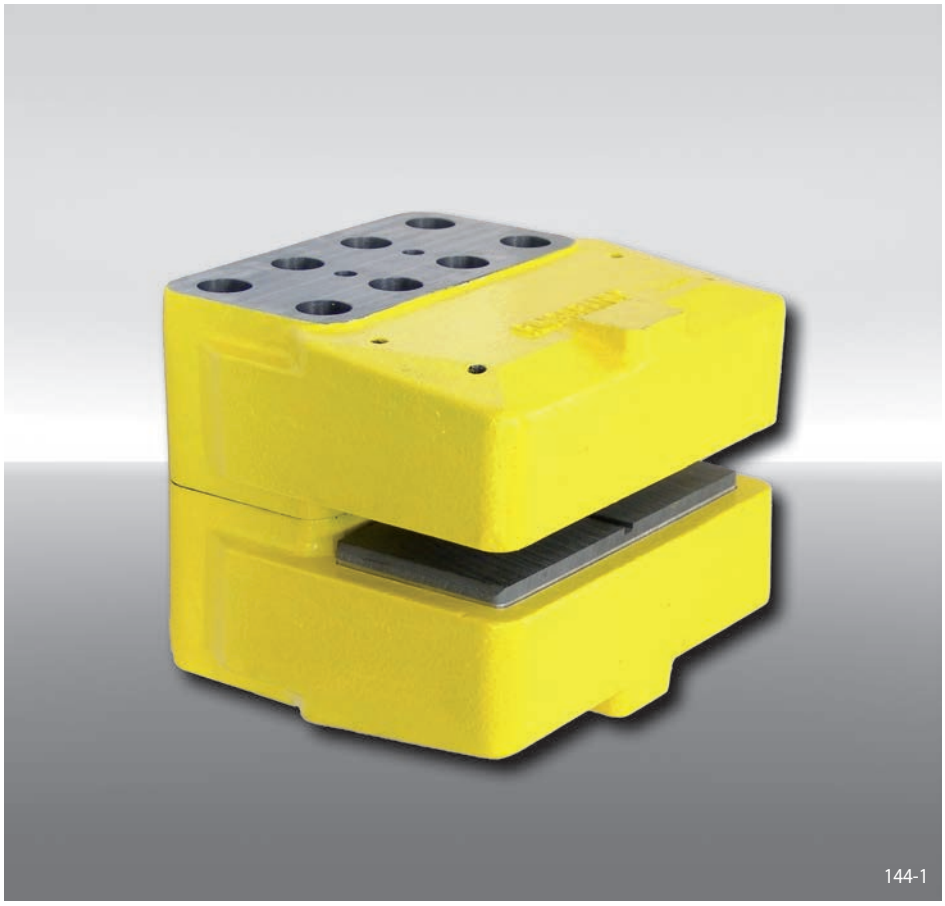
Brake Calipers HI 180 HUK

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

RINGSPANN®



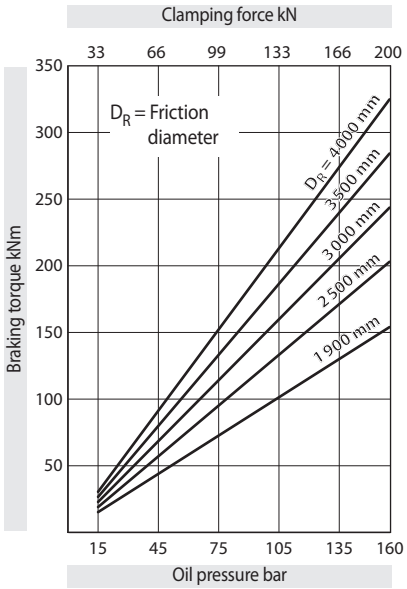
Features	Code
Brake Caliper	H
With inside-mounted brake pads	I
With piston diameter 2 x 90 mm	180
Hydraulically activated	H
Non-releasing	U
No adjustment to accommodate friction block wear	K
Max. clamping force 200 kN	200

Example for ordering

Brake Caliper HI 180 HUK,
max. clamping force 200 kN:

HI 180 HUK - 200

Technical Data



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: max. 190 cm^3

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

Accessories

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

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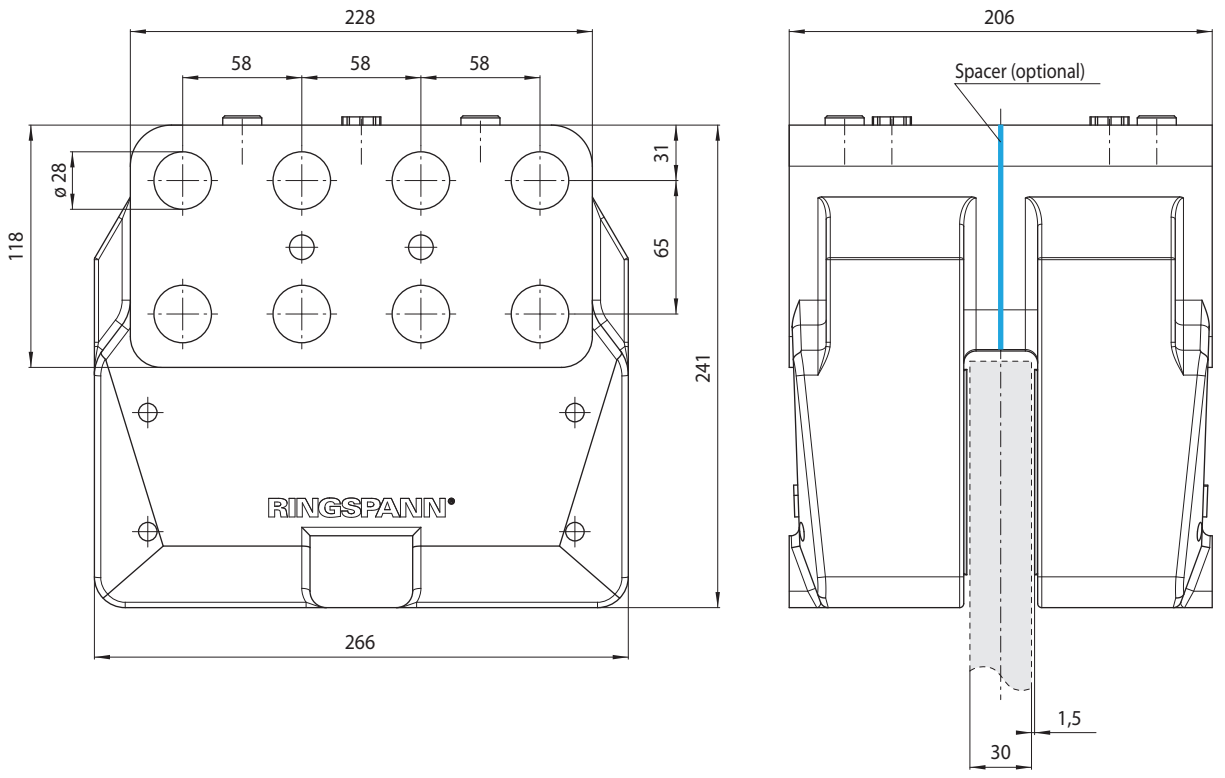
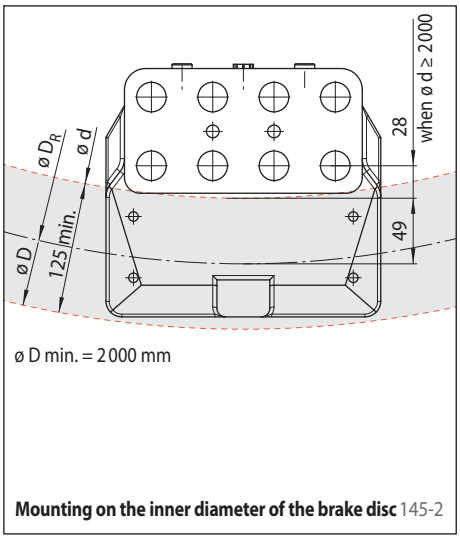
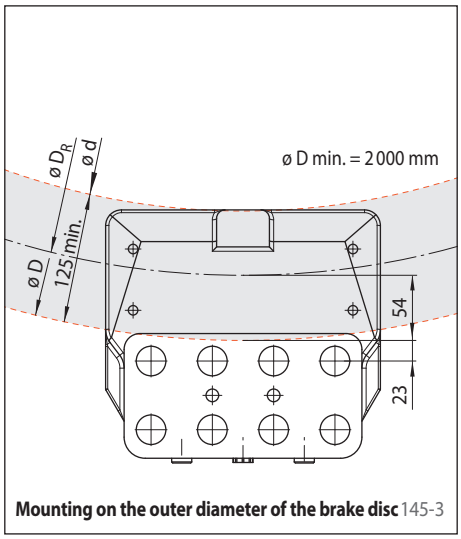


145-1

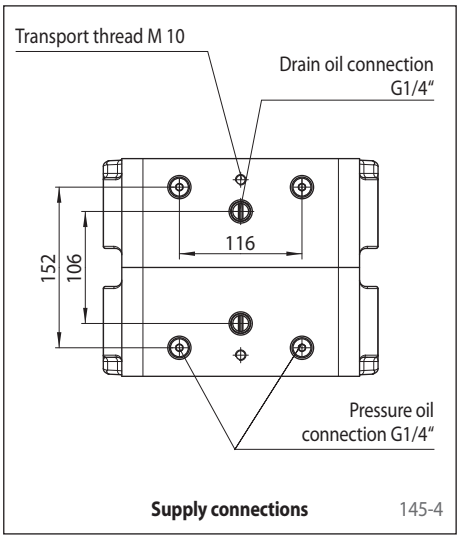
Mounting



Mounting on the inner diameter of the brake disc 145-2



Mounting on the outer diameter of the brake disc 145-3



Supply connections 145-4

Calculation of the friction diameter

Mounting on the inner diameter of the brake disc:

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

(when d ≥ 2000 mm)

Mounting on the outer diameter of the brake disc:

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

Calculation of the braking torque

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

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