



Features

Brake Caliper

Code

H

Standard

W

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 (HW 150)

140

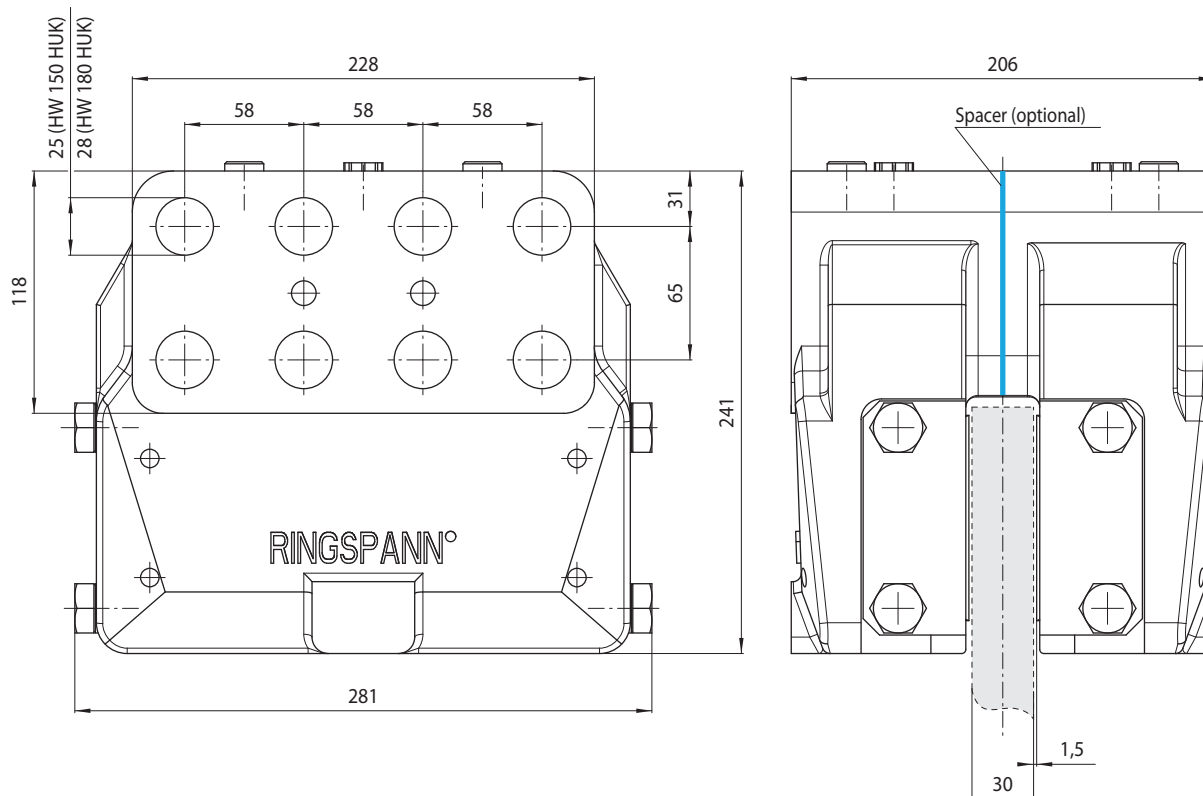
Max. clamping force 200 kN (HW 180)

200

Example for ordering

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

HW 150 HUK - 140



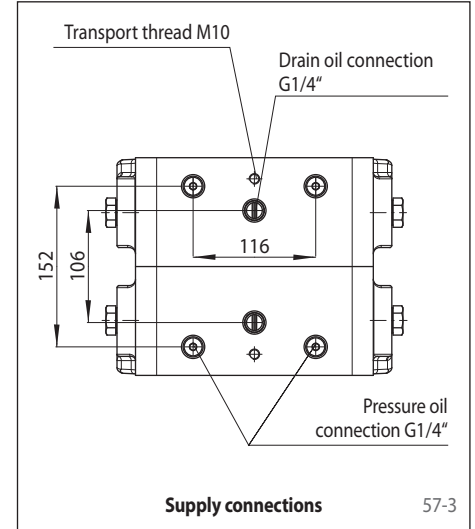
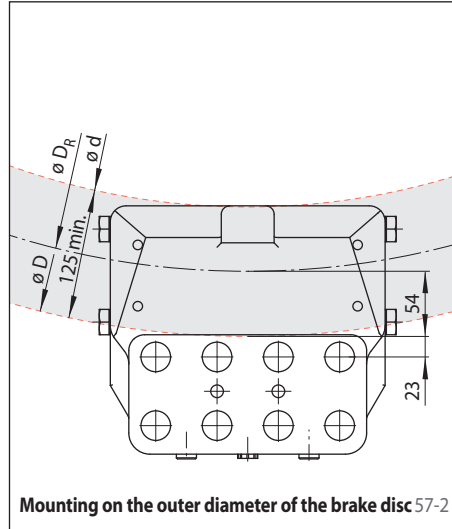
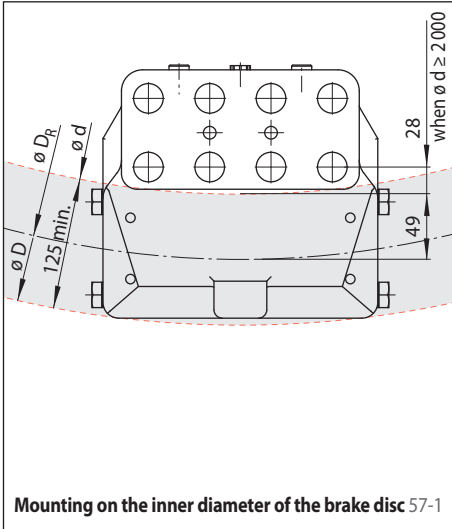
Brake Calipers HW 150 HUK and HW 180 HUK

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

Morskate®

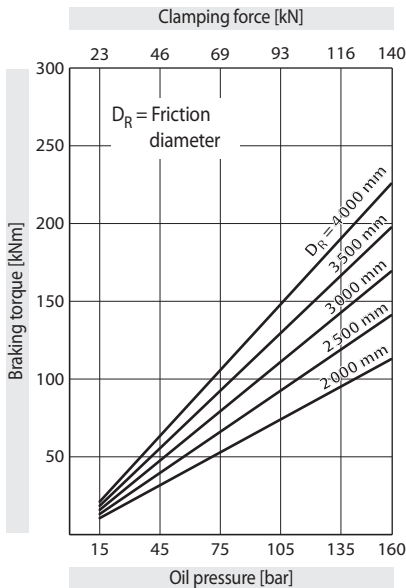


Mounting



Technical Data

Brake Caliper HW 150 HUK



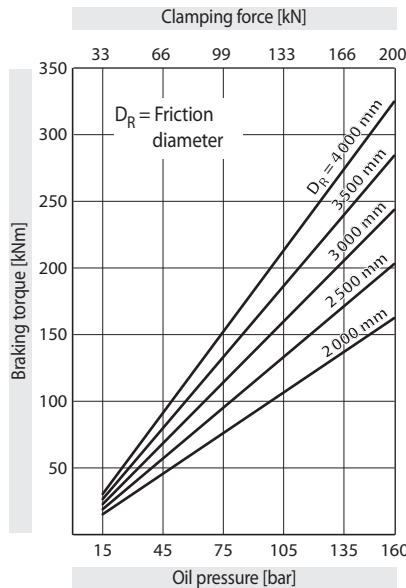
The braking torques shown in the diagram are based on a theoretical friction coefficient of 0,4.

Oil pressure:	min. 15 bar max. 160 bar
Oil volume:	17 cm ³ per 1 mm stroke
Weight:	ca. 65 kg

Other features

- High safety against leakage
- Easy change of friction blocks
- 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 HW 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 cm ³ 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

HW 150 HUK:

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

HW 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