

DATA SHEET DISC BRAKE SKD 4x125

Pressure applied, spring released disc brake

Dellner Bubenzer model SKD 4x125 disc brake is a direct acting, hydraulic applied, spring released unit. The braking force achieved is directly proportional to the applied pressure.

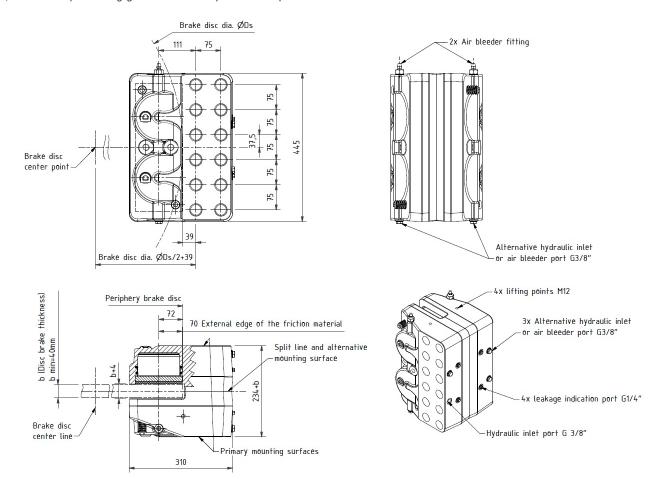
The brake consists of two symmetrical halves that accommodate a standard disc thickness of 40mm. For use with thicker brake discs, the brakes can be supplied with spacers.

The tangential braking force is directly transmitted to the brake housing. As a result, the brake pistons are not subject to any radial forces, which contributes to longer brake life.



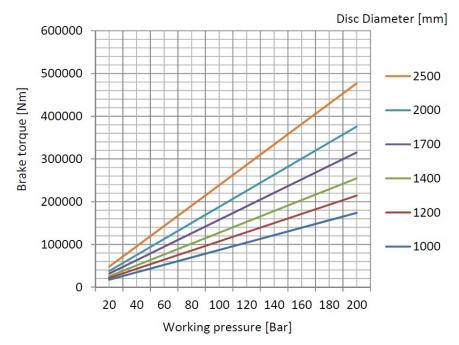
Model	Braking force 1)		Max hydraulic pressure	Friction area per brake ²⁾	Max. working oil volume per brake 3)	Piston area per brake half	Weight
	F ₁ [N/bar]	F _{max} [N]	[bar]	[cm²]	[cm³]	[cm²]	[kg]
SKD 4x125	2021	404200	200	1056	393	245	177

- 1) Calculated with an average frictional coefficient μ =0,42. Consideration has not been taken for external factors.
- 2) Oil volume required to engage the brake with fully worn friction pads.



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TORQUES



The braking torque is calculated from the following formula:

$$M_{brake} = \frac{q \times F_1 \times p \times (D_s - 2h)}{2}$$

q = number of brakes

F1 = braking force according to the table on page 1 [N]

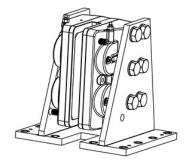
p = pressure [bar]

Ds = brake disc diameter [m]

h = distance disc periphery to piston center [m] (SKD 4x125: 0,072)

OPTIONS

- Proximity switches for on/off or pad wear indication
- Brake pads in alternative materials.
- Return springs and screws
- Supports in different configurations (see figure).
- Customer specific colour.



SUITABLE APPLICATIONS

Dellner Bubenzer models SKD are suitable wherever service, stopping, holding and tensioning brakes are needed, for example in the following types of applications:

Propulsion propeller shafts Chipping machines Wind mills Amusement rides Top drives Unwinding systems