



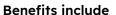
STROMAG SH1 HYDRAULIC DISC BRAKES

THE MOST COMPACT EMERGENCY BRAKE OF OUR SH RANGE

This emergency brake is the smallest and most compact of our SH range, it can be associated with disc diameter from 300 to 1000 mm and is adapted to handling equipments such as cranes, conveyors or winches in steel industry, mining and quarries, mass transport, port and offshore applications.

Robust construction and simplicity of operation bring to this caliper a high reliability. It allows an easy mounting and maintenance, and insures maximum efficiency in the most severe environmental conditions.

The modular design of the SH1 caliper enables standardisation on multiple installations: availability in a large range of torque and association with different types of lining pads according to the application.



- Fail-safe braking hydraulic release
- Symmetrical, compact and lightweight design
- Direct acting caliper / few components
- Designed for 200,000 cycles
- Pads fastening by clips: easy and quick replacement
- Strain absorbing system with column
- Low force loss per additional air gap millimeter
- Low temperature materials and marine protection
- Options: indicators of opening, lining wear and temperature



Applications

- Tower Cranes
- Offshore Winches
- Mining and Steel
- Port Applications
- Mass Transpor









Revision number: T10097-01-I Revision date: 15.09.2021

TECHNICAL DATA / DIMENSIONS

Caliper SH1

- Fail-safe braking
- Spring application / Hydraulic release
- Holding tool for maintenance operation
- Lining wear detectors
- Manual wear centering & compensation
- Ass. discs th.: 12.7, 15, 20 & 30 mm
- Protection C5-M M

Working conditions:

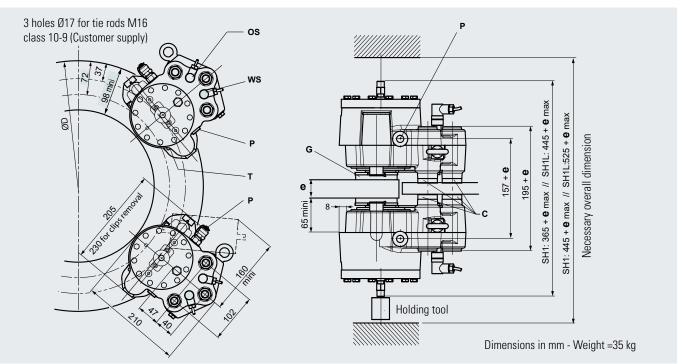
- Ambient temperature:
 Dynamic braking: -30°C to +70°C
 Brake applied (parking): -40°C to +70°C
- Relative humidity ≤ 70%
- Dust in atmosphere ≥ 65µm

Use:

 The brake should be applied only in case of emergency stop, overspeed or shutdown of electric mains. Other use, consult us.

Options:

- Opening proving switch OS
- Lining wear proving switch WS
- All non-standard disc th. > 12,7mm (1/2")
- Lining temperature sensor T
- Mechanical release tool DM
- SH1L: caliper requiring no manual wear compensation:
 - braking force before wear = +10% maxi braking force after wear = -10% mini



Designation		Caliper	Caliper Lining		SH1-5	
Designation					Lining	US2-1
Braking force BF for air gap disc/			Dynamic	N	11,000	11,000
lining of 2x1mm		Static	N	9,900	9,680	
Linear speed of the disc				m/s	≤ 50	≤ 10
Dynamic braking torque BT (m.N) for 1 caliper and disc \emptyset D (mm)/300 \leq D \leq 1000 mm			nd	Nm	BT = BF (D/2,000-0.037)	
Regulation pressure	Minin	Minimum			150	
	Maxir	Maximum			170	
Setting pressure limit valve of hydraulic unit					190	
Total volume of oil displaced for air		2 x 1 mm (nominal opening)		cm ³	5	
		2 x 3 mm (wear+opening)		cm ³	13	
gap/lining of		2 x 7mm SH1L (wear+opening)		cm ³	29	

C = 3	Spacers	according	to disc	thickness

G = Linings: Thickness of new lining 8 mm Thickness to wear 6 mm Each 2 mm of wear on each side: manual centering and compensation

OS = Opening switch (option)

WS = Lining wear switch (option)

P = 2 oil ports 1/4»G per half-caliper Pressure taps delivered separately

T = PT100 sensors (option)

ØD = Disc diameter = 300 mm minimum

e = Disc thickness

ELECTRICAL DATA:

Opening and wear switches (options)

3 wires PNP NO - 12 to 24 VDC 200 mA connector M12 - 5 positions - according to standard IEC61076-02-101 /code A

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