

TECHNICAL INFORMATION

ModuLT



The new ModuLT Air Disc Brake features a unique combination of low weight, strong braking power and durability for an exceptionally broad range of applications.

- › Optimized for lighter weight while maintaining strength and durability
- › A single piston mechanism with similar clamping force distribution as the Haldex twin piston mechanism
- › Simplified maintenance, secure boltless pad retainer and only two bolts for the complete disc brake caliper assembly
- › Modular: the same mechanism and sliding function design used on multiple brake sizes
- › Long service life – stainless steel slide pins, PTFE coated steel bushings, and the mechanism seal is folded inward so it is protected from external damage
- › High efficiency – the use of double roller bearings for the mechanism lever keeps the hysteresis low and achieves a high efficiency

DBT22LT Air Disc Brake

The ModuLT program will include a number of variants for different wheel sizes and various applications within the truck, bus and trailer segments.

The basic design of the ModuLT consists of a large single piston mechanism, a single casting caliper and two slide pins.

The Haldex ModuLT disc brake is designed to provide high performance combined with durability, low weight and a minimum number of wearing parts. The ModuLT has a floating single casting caliper and an integrated adjustment unit, which automatically compensates for brake pad wear. The disc brake is actuated by the brake chamber onto the mechanism lever, which presses the inner brake pad against the disc. This causes the caliper to slide laterally, so the outer brake pad also comes in contact with the disc. The caliper moves on two stainless steel, lubrication free, slide pins.



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Design and Function

Installation Drawing (measurements shown in mm)



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DBT22LT Air Disc Brake

The DBT22LT is a disc brake caliper for a 430 mm disc. The brake can be used for a broad range of applications subject to installation approval.

Technical Data

- › Design rated max brake torque:
20 kNm (15,000 ft. lbs.)
- › For wheel size 22.5"
- › Max operation force:
11 kN (8,000 ft. lbs.)
- › Friction radius:
173 mm (6.8 in.)
- › Max brake chamber stroke:
65 mm (2.5 in.)
- › Nominal brake ratio 15.4 : 1
- › Mechanical efficiency > 93%
- › Running clearance:
0.7 to 1.1 mm (0.02 to 0.04 in.)
- › Weight of complete disc brake unit, including pads:
< 32 kg (70 lbs.)

Disc

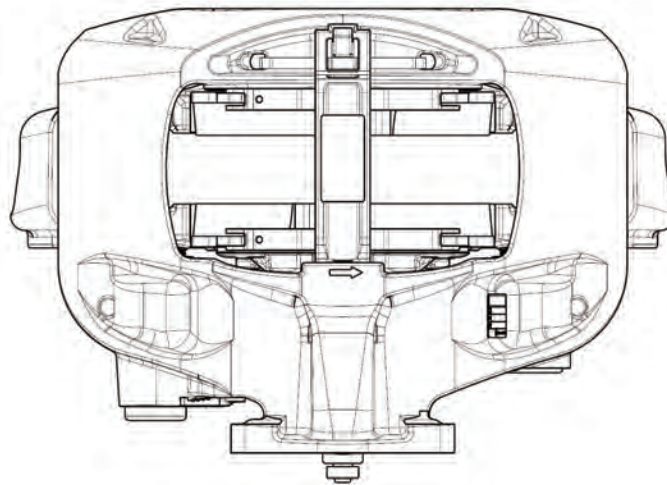
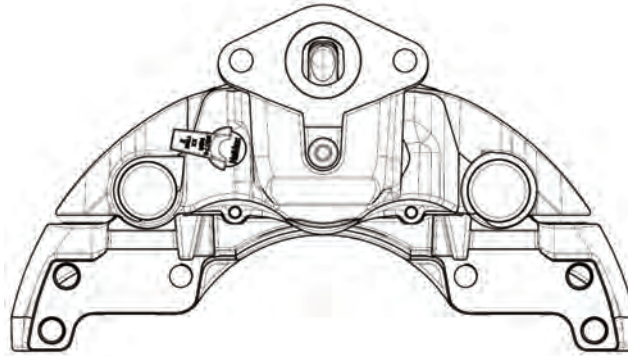
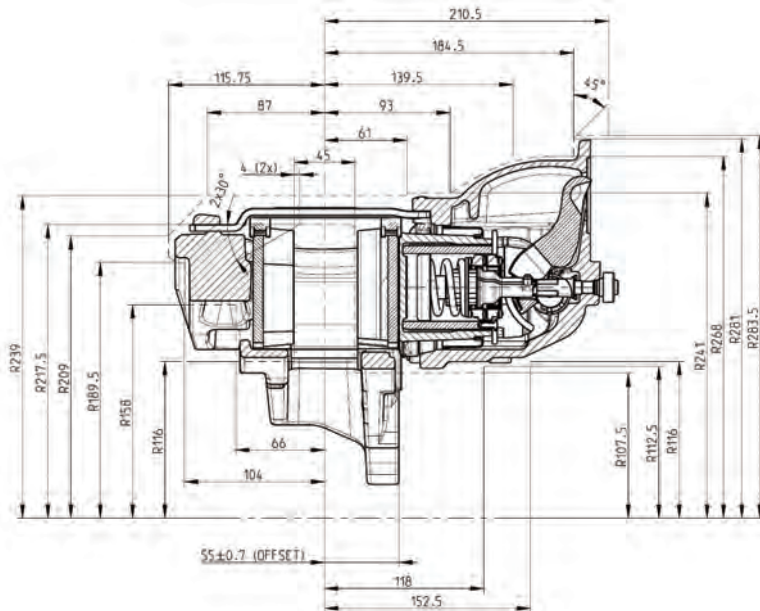
- › External diameter of brake disc:
430 mm (16.8 in.)
- › Total thickness new:
45 mm (1.8 in.)
- › Residual thickness worn out:
37 mm (1.5 in.)

Pad

- › Total thickness:
30 mm (1.2 in.)
- › Backplate thickness:
7.5 mm (0.3 in.)
- › Pad surface area (both pads):
318 cm² (49.3 in.²)
- › Pad wear volume (both pads):
636 cm³ (38.8 in.³)

Options

- › Pad Wear Indicator (PWI)
- › Carrier hole pattern



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