ModulT® Gen II

DBT22LT Air Disc Brake Data Sheet

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



- Optimized for lighter weight while maintaining strength and durability
- A single piston mechanism with clamping force distribution similar to the Haldex twin piston mechanism
- Simplified maintenance, secure boltless pad retainer and only two bolts for the complete air 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 bellows is inverted to protect it from external damage
- High efficiency – the use of double roller bearings for the mechanism lever keeps hysteresis low and achieves high efficiency

The ModulT product family includes a number of variants for different wheel sizes and various applications within the truck, bus and trailer segments.

The Haldex ModulT Gen II disc brake combines high performance with durability, low weight, and a minimum number of wearing parts.

The basic design of the ModulT Gen II consists of a large, single-piston mechanism, a single-casting caliper, and two lubrication-free, stainless steel slide pins.

The single-casting caliper “floats” on the two slide pins to apply equal pressure to both sides of the rotor and to adjust as the integrated adjustment unit automatically compensates for brake pad wear.

Contact your Haldex sales professional for further details.

Haldex

haldex.com

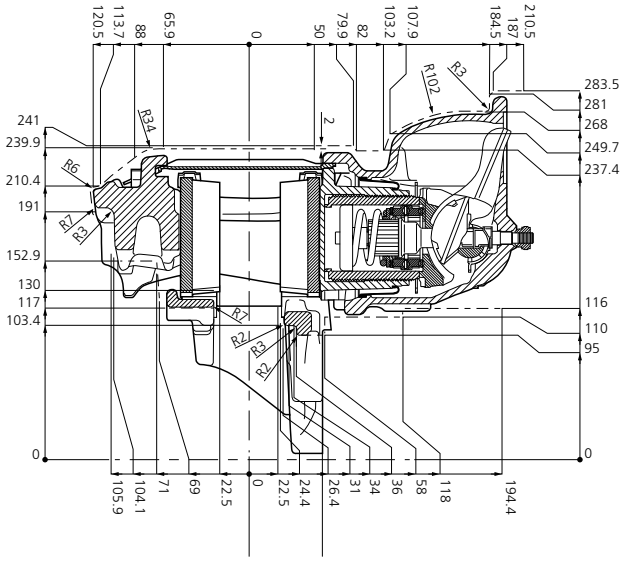
High performance and low maintenance in a durable, single-piston air disc brake design. ModulT Gen II

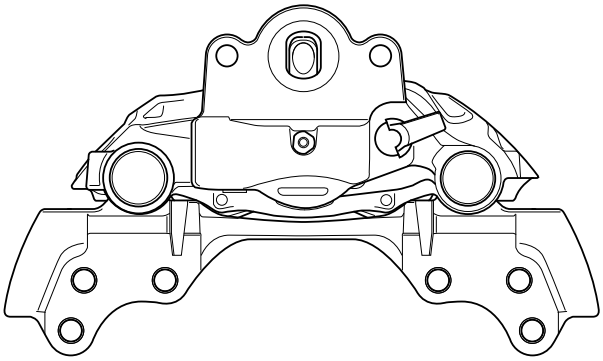


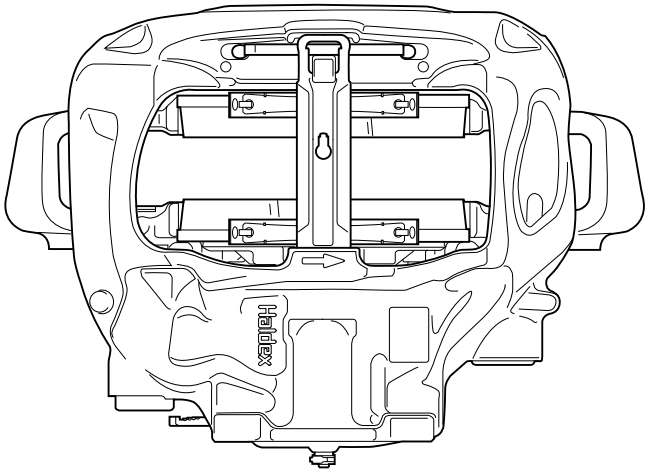
Design and Function

ModuLT Gen II

Installation Drawing (measurements shown in mm)







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

Technical Data

- **Design rated max brake torque:**
  20 kNm (14,750 ft. lbs.)
- **For wheel size 22.5"**
- **Max operation force:**
  11 kN (2,473 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:**
  < 30 kg (66 lbs.)

Rotor

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

Pad

- **Pad composition:**
  Friction Type N – Copper free
- **Total thickness:**
  30 mm (1.2 in.)
- **Backplate thickness:**
  9 mm (0.354 in.)
- **Pad surface area (both pads):**
  290 cm^2 (44.95 $in.^2$)
- **Pad wear volume (both pads):**
  570 cm^3 (34.78 $in.^3$)

Options

- **Pad Wear Indicator (PWI)**
- **Carrier mounting patterns**
  Four different patterns available

To learn more, contact your Haldex sales professional.

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For additional contact information or to learn more about Haldex, please visit **Haldex.com**

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