Rail Vehicle Systems

Hydraulic Brake Calipers

Applications

- Light Rail Vehicles
- Metros
- People Mover

KNORR-BREMSE

Hydraulic Brake Calipers

Knorr-Bremse has a wide range of hydraulic brake calipers for generation of braking force. The compact modules are suitable for a wide variety of vehicle platforms and requirements.

ADVANTAGES

- High application force within small installation space
- Application force and mechanical emergency release adjustable
- Mounting possible to gearbox as floating support or to the bogie frame as elastic suspension, for example
- Maintenance-friendly thanks to completely sealed bearings and joints
- Design principles successful worldwide and in use for many years
- Optional remote mechanical release
- Force actuator with automatic wear compensation

DESIGN

Knorr-Bremse's hydraulic brake vehicles are suitable for many different types of rail vehicles and installation conditions. A wide range of interfaces can be equipped. Their robust design means they are unaffected by concussion or harsh environmental conditions.

They are available as:

- Fixed calipers in frame-type design
- Floating calipers in frame-type or lever-type design
- Elastic-mounted calipers as frame-type or lever-type design
- Brake calipers for special mounting positions

TECHNICAL DATA

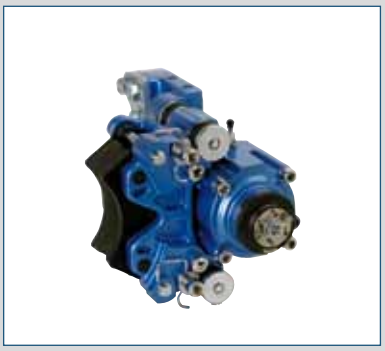
HC1P45 plus

- Floating caliper with lever-type design
- Spring actuator brake
- Brake force per brake disc up to 100 kN
- Two hydraulic release circuits
- Maximum width of brake disc 100 mm
- Weight of brake caliper without bracket around 60 kg
- Optionally available with elastic suspension
- Remote mechanical release

HC1P28

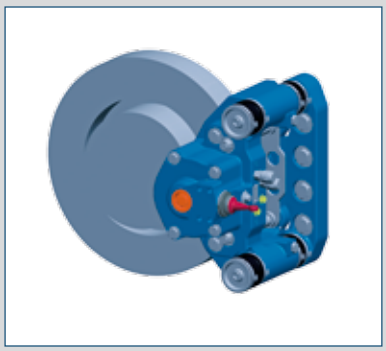
- Floating caliper with lever-type design
- Spring actuator brake
- Brake force per brake disc of 56 kN
- Two hydraulic brake circuits
- Maximum width of brake disc 60 mm
- Weight of brake caliper without bracket around 35 kg
- Optionally available with elastic suspension

HH1P38



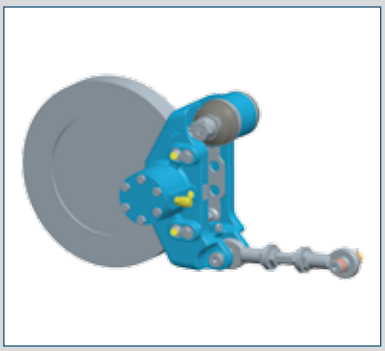
- Floating caliper with lever-type design
- Spring actuator brake
- Brake force per brake disc of 76 kN
- Two hydraulic release circuits
- Maximum width of brake disc 100 mm
- Weight of brake caliper without bracket around 65 kg

HS1P28



- Floating caliper frame-type design
- Spring actuator brake
- Brake force per brake disc of 56 kN
- Two hydraulic release circuits
- Maximum width of brake disc 60 mm
- Weight of brake caliper without bracket around 35 kg
- Optionally available with elastic suspension
- Remote mechanical release

HSE1A30



- Floating caliper frame-type design
- Active brake
- Brake force per brake disc of 60 kN
- One hydraulic brake circuit
- Maximum width of brake disc 60 mm
- Weight of brake caliper without bracket around 37 kg

HF2A15

- Fixed caliper
- Active brake
- Brake force per brake disc of 60 kN
- One hydraulic brake circuit
- Maximum width of brake disc 60 mm
- Weight of brake caliper around 17 kg

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