

Air Disc Brakes

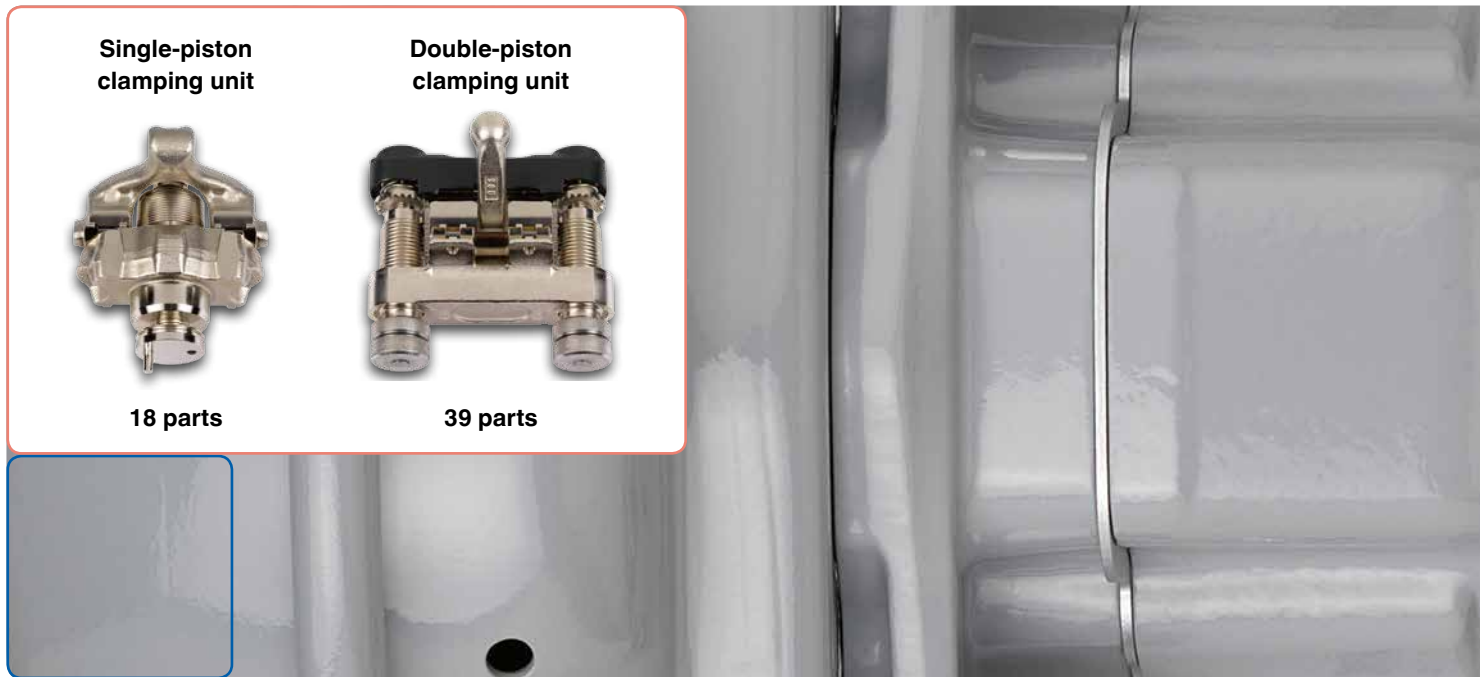
PAN™ Range for
Commercial Vehicles



- Reliable WABCO **SINGLE-PISTON** technology
- Excellent **FIELD PERFORMANCE**
- **LIGHT-WEIGHT DESIGN** for all rim sizes

WABCO

Air disc brakes with single-piston technology



The reliable and proven single-piston technology has made WABCO's PAN range one of the most successful air disc brake ranges. The compact design is based on the careful combination of FEM (Finite Element Method) calculations and patented single-piston technology. The result: significant vehicle weight improvement in all classes.

YOUR BENEFITS

- **Maximized payload due to light weight design**
- **Compact design for easy axle adaptation**
- **Excellent bad road resistance**
- **Heat shielded piston boots**
- **KTL* coating as standard corrosion protection**
- **Extended service intervals due to increased pad thickness on PAN 22**

PAN 17

With the introduction of pneumatic disc brake PAN 17 in 1996, WABCO pioneered the control of tangential taper wear. Since then, the patented taper wear compensation in combination with the advanced single-piston technology has passed the test of time and generated strong customer satisfaction. Our success in 17.5" wheel applications demonstrates the effectiveness of this technology.

* KTL: Kathodische Tauch-Lackierung / Cathodic corrosion protection

Reliable, proven technology with fewer components



Technical Data	PAN 17	PAN 19	PAN 22	PAN 25
Braking torque	10.000 Nm / 7,400 ft. lbs.	17.000 Nm / 12,500 ft. lbs.	Truck: 23.000 Nm / 17,000 ft. lbs Trailer: 21.000 Nm / 15,500 ft. lbs.	25.000 Nm / 18,400 ft. lbs.
Disc dimension	330x34 mm / 13x1.3 in	375x45 mm / 14.8x1.8 in	430x45 mm / 17x1.8 in	525x41 mm / 20.6x1.6 in
Pad surface area	240 cm ² / 37 in ²	292 cm ² / 45 in ²	340 cm ² / 53 in ²	340 cm ² / 53 in ²
Pad thickness	19 mm / 0.75 in	21 mm / 0.83 in	23 mm / 0.91 in	23 mm / 0.91 in
Weight (incl. pads)	23 kg / 51 lb	32 kg / 71 lb	36 kg / 79 lb	39 kg / 86 lb
Rim size	17,5" / 17.5 in	19,5" & 22,5" / 19.5 in & 22.5 in	22,5" / 22.5 in	25" / 25 in
Max. actuator size	Typ 20 / Type 20	Typ 24 / Type 24	Typ 24 / Type 24	Typ 24 / Type 24

PAN 19

The success of PAN 17 was followed by the introduction of the single-piston technology to the 19.5" class. With PAN 19 WABCO set new standards both in the trailer and in the mid-class truck segments. At only 32 kg it is still one of the lightest brakes of this size.

PAN 22

With PAN 22 WABCO extended the single-piston PAN range with a brake for the trailer segment and trucks up to 18 Tons. Pad surface has been made more effective and pad thickness has been enlarged by 2 mm, resulting in extended service intervals compared to previous designs. WABCO set a new milestone which has now become an industry standard. PAN 22 is still leading the market with lowest weight of 36 kg.

PAN 25

This variant demonstrates, that single piston technology also works perfectly in 25" wheel applications. WABCO launched the first Air Disc Brake for All-Terrain-Crane Vehicles world-wide. PAN 25 replaces 500 mm drum brake applications. Beside a significant cost reduction, this brake sets new standards in terms of comfort, safety and performance.



RELIABILITY

- Encapsulated guiding system with stable metal sealing
- Redundant sealing systems at pin guidance and adjuster device
- Outstanding field performance reflected in high customer satisfaction

SERVICE

- Designed to be maintenance-free
- Lifetime lubrication
- Easy radial pad exchange
- Extended service intervals for less service cost

SAFETY

- Excellent performance due to high mechanical efficiency
- FEM/CAD-components with higher safety reserves
- Low fading behaviour at short lever travels
- Available with brake pad wear indicator

When buying a WABCO product, please check that it contains the typical WABCO marks (particularly on the packaging, labels and identification plate) as evidence that it is an original WABCO part. In case you have any doubts, please contact WABCO or an authorized WABCO partner.

WABCO (NYSE: WBC) is a leading global supplier of technologies and control systems for the safety and efficiency of commercial vehicles. For over 140 years, WABCO has pioneered breakthrough electronic, mechanical and mechatronic technologies for braking, stability and transmission automation systems supplied to the world's leading commercial truck, trailer and bus manufacturers. With sales of \$2.8 billion in 2011, WABCO is headquartered in Brussels, Belgium. For more information, visit

www.wabco-auto.com

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