

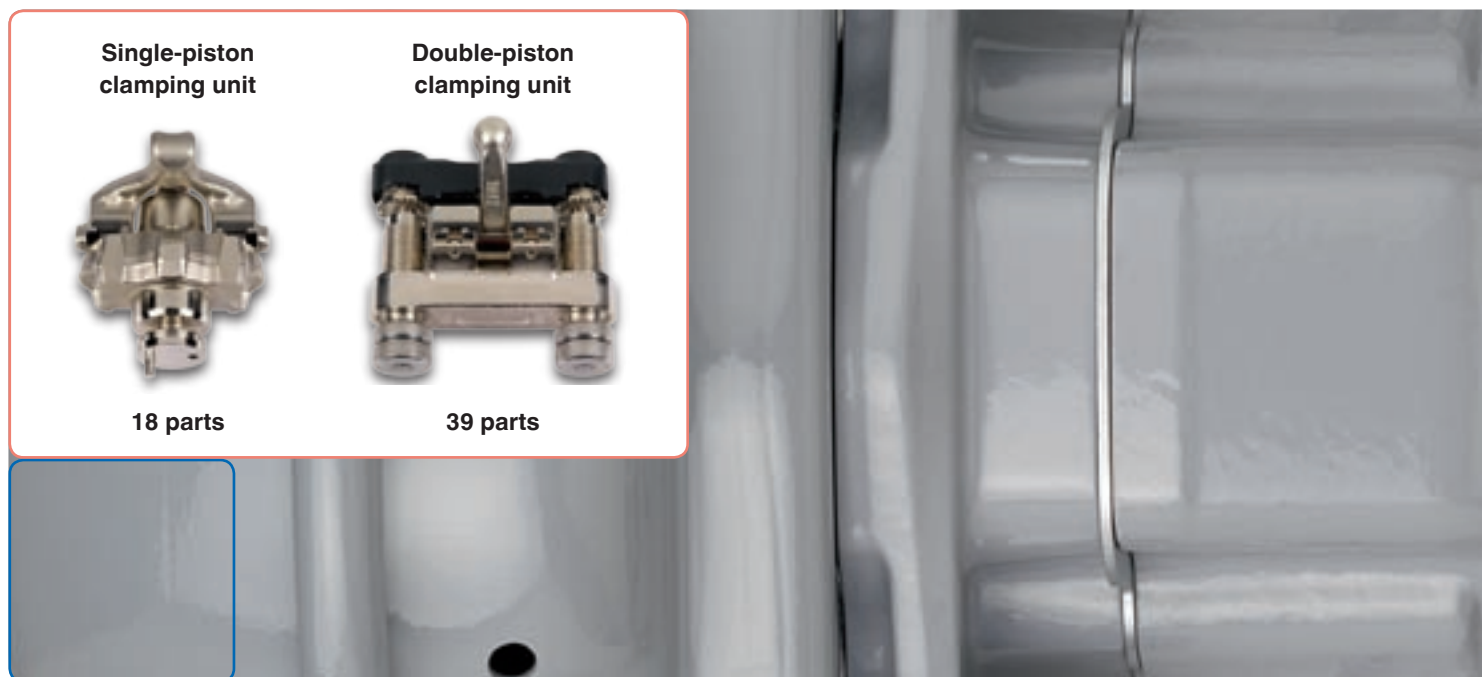
Air Disc Brakes

PAN Range for
Commercial Vehicles



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

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 22-1**

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 per Type	PAN 17	PAN 19-1 plus	PAN 22-1	PAN 25
Braking torque up to	14,000 Nm / 120,000 lbf in	21,000 Nm / 185,000 lbf in	24,000 Nm / 210,000 lbf in	25,000 Nm / 221,000 lbf in
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"	19.5" / 22.5"	22.5"	25"
Gross axle weight rating	7 t / 15,500 lb	9 t / 19,500	10 t / 22,000 lb	12 t / 26,500 lb

PAN 19-1 plus

The success of PAN 17 was followed by the introduction of the single-piston technology to the 19.5" class. With PAN 19-1 plus 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 22-1

With PAN 22-1 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. PAN22-1 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 Vehicle Control Systems is one of the world's leading providers of electronic braking, stability, suspension and transmission automation systems for heavy duty commercial vehicles. Customers include the world's leading commercial truck, trailer, and bus manufacturers. Founded in the U.S. in 1869 as Westinghouse Air Brake Company, WABCO was acquired by American Standard in 1968 and spun off in 2007. Headquartered in Brussels, Belgium, WABCO employs more than 7,700 people in 31 countries worldwide. In 2007, WABCO's total sales were \$2.4 billion. WABCO is a publicly traded company and is listed on the New York Stock Exchange with the stock symbol WBC.

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