

SAF ●

P89 PLUS™

AIR DISC BRAKES

ENHANCED AIR DISC BRAKE TECHNOLOGY THAT DELIVERS RELIABILITY AND REDUCED MAINTENANCE FOR MAXIMUM UPTIME



P89 PLUS™

AIR DISC BRAKE TECHNOLOGY

The P89 Plus™ air disc brake is globally recognized for its advanced braking efficiencies, reliability and maintenance free design.

Driving these benefits is the P89 Plus™ disc brake's advanced rotor and hub adapter design and manufacturing process. P89 Plus™ proprietary bi-metallic casting process mechanically joins two materials with unique properties into one P89 Plus™ rotor/hub assembly.

BI-METALLIC ROTOR AND HUB ADAPTER

To redirect and control high temperatures associated with vehicle braking, the rotor is designed with a series of ventilation channels. Unlike traditional rotors that experience extreme lateral deformation under high temperatures (umbrella effect), the P89 Plus™ rotor expands in a radial direction maintaining a flat and stable braking surface. As a result, harmful stress cracks, and premature brake pad failures are significantly reduced.



**PREMIUM PERFORMANCE,
MAINTENANCE FREE AIR DISC BRAKE
DESIGN WITH 7-YEAR WARRANTY**
(See warranty document XL-AS11003WC for details)

Advanced rotor and hub design

advanced rotor and hub adapter design with proprietary bi-metallic casting process that mechanically joins two materials with unique properties into one assembly.

Long life sealed bearings

long lasting, leak resistance that protects against extreme temperatures and corrosive chemicals.



Heavy-duty parallel spindle wheel end

robust spindle design with premium, long life sealed bearings for enhanced performance, unmatched durability and reduced maintenance.

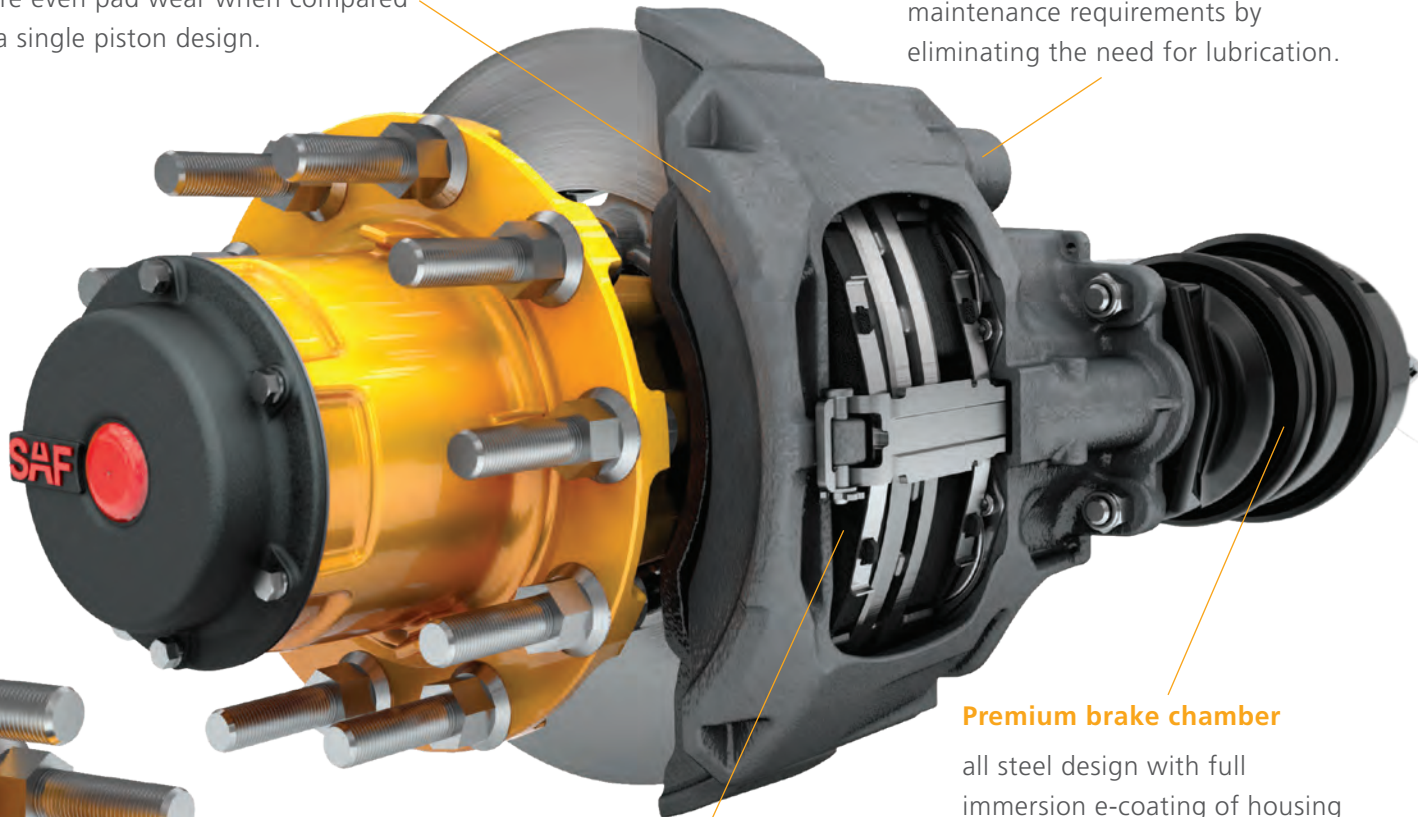


**SAF SBS 2220-K0
dual piston caliper design**

increased braking performance and pad life with larger brake pads and more even pad wear when compared to a single piston design.

Dual sealed slide pins

sealed slide pins simplify maintenance requirements by eliminating the need for lubrication.



Premium brake chamber

all steel design with full immersion e-coating of housing and internal components for long life corrosion protection.

Semi-metallic disc brake pads

20% larger pad design provides the optimum balance of stopping power and long wear life to extend service intervals.

Industry standard premium style spindle nut

provides precise bearing adjustment utilizing spindle nuts with North American standard right hand threads that prevents inadvertent back-offs when engaged and easily disengaged for simple removal.

OPTIONAL TIRE PILOT PLUS™

Spec Tire Pilot Plus for even more savings – enhanced tire life, fuel efficiency and uptime.



P89 PLUS™ AIR DISC BRAKE FLEET BENEFITS

- Enhanced braking performance with shorter stopping distances versus drum brake systems
- Significantly longer brake pad life for extended service intervals
- North American design for reliable, robust performance
- Lowers risk for out-of-adjustment violations when compared to drum brakes
- Reduced maintenance and quick brake pad replacement for increased uptime
- INTEGRAL™ disc brake technology for superior braking performance
- 50 lbs. savings per tandem when compared to drum brake systems
- Designed to accept industry standard wear parts
- Industry leading 7-year warranty
(See XL-AS11003WC for details)



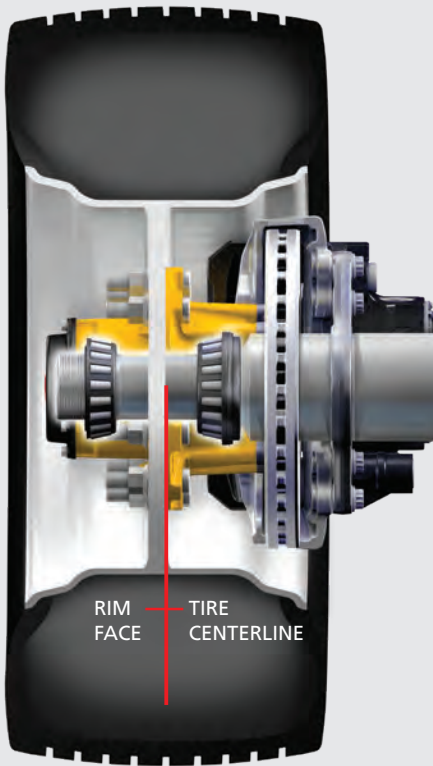
ALSO AVAILABLE
OPTIONAL P89

P89 air disc brake's offers longer lasting brakes, reduced maintenance and weight savings at a price point that is affordable for fleets of all sizes.

(See document XL-SA20051SL-en-US for more details).

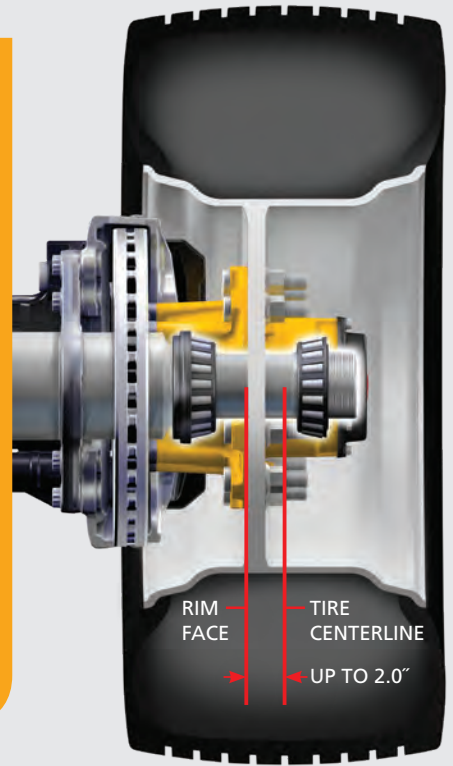


WHEEL OFFSET VERSATILITY



ZERO OFFSET

The wide set bearings in the P89 Plus™ allow for greater wheel offset options. This wider bearing configuration accommodates the offset wheel often required for North American applications. This wider bearing configuration also helps keep the optimum load distribution between the bearings.



2" OFFSET

THE SAF P89 PLUS™ SPINDLE DESIGN PROVIDES FLEETS THE FLEXIBILITY TO CHOOSE THE WHEEL END OFFSETS YOU DESIRE.

The P89 Plus™ is engineered to accept industry standard single wide-based wheels with up to 2" offsets and dual wheel configurations. The more robust spindle is optimized for specialty applications. The P89 Plus™ is designed with the North American fleet owner in mind – a durable, long life system that is easily maintained.

NOTE: Axle is derated to 20,000 lbs. with 1.13" and 2.0" offset wheels.

P89 PLUS™ DISC BRAKES ARE THE IDEAL SOLUTION FOR THESE SAF SUSPENSIONS



CBX23 AeroBeam
CBX23/CBX25
CBX25/30 CBX25/30u



CBX23u
CBX25u
CBX25/30y



CBX40 AeroBeam
CBX40/CBX46/CBX50



ULX40



CBX69



TRAILER AXLES AND
SUSPENSION SYSTEMS



COUPLING AND
LIFTING SYSTEMS



SUSPENSIONS FOR
TRUCKS AND BUSES



SUSPENSIONS AND
AXLE SYSTEMS



BUS AIR SUSPENSION
SYSTEMS



V. ORLANDI
TOWING
SYSTEMS



TRAILER AXLES/SUSPENSIONS,
COUPLING AND LIFTING
SYSTEMS

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