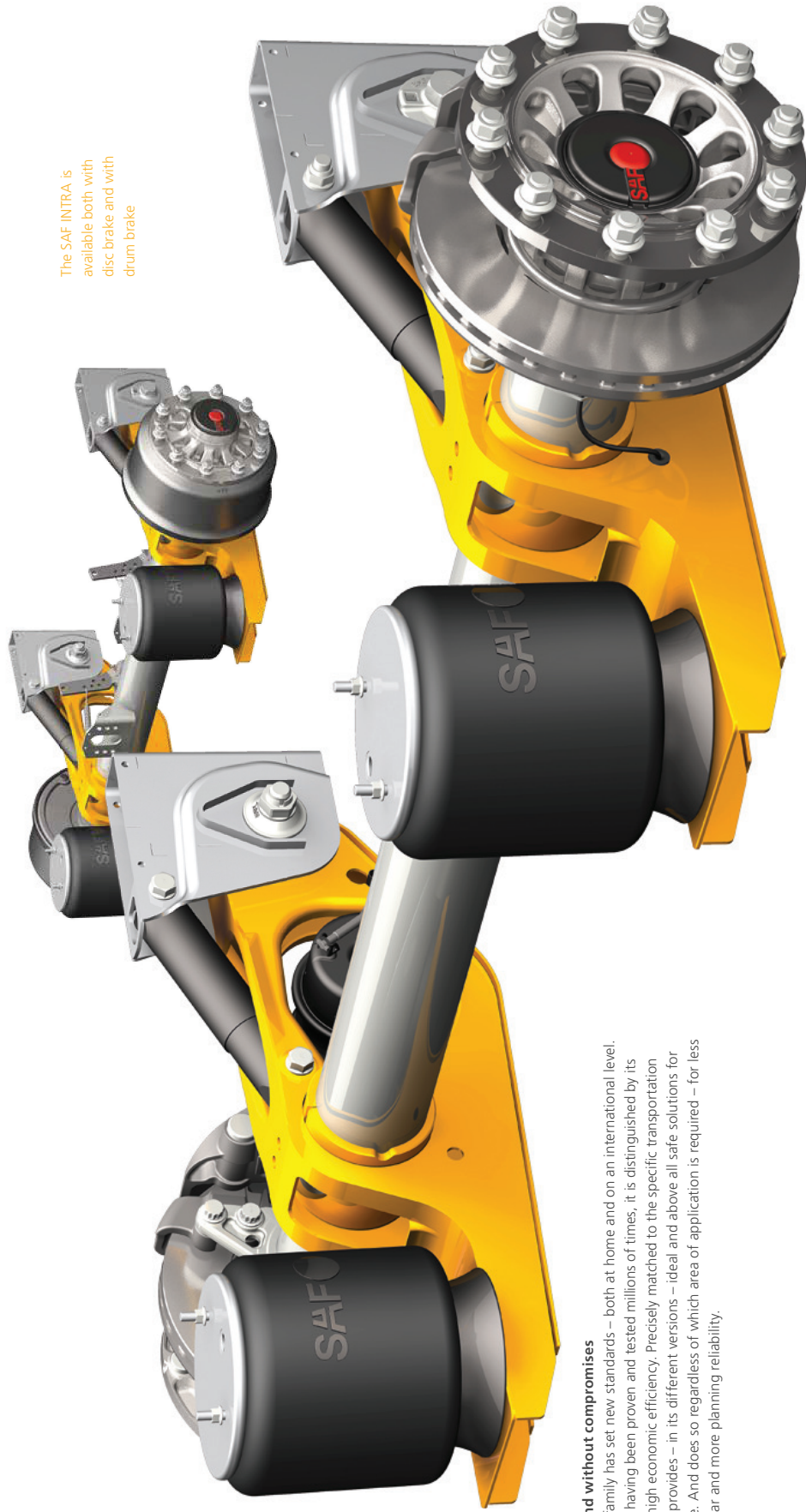


THE INTRA FAMILY



The SAF INTRA is available both with disc brake and with drum brake

Efficient and without compromises

The INTRA family has set new standards – both at home and on an international level. Today, after having been proven and tested millions of times, it is distinguished by its particularly high economic efficiency. Precisely matched to the specific transportation task, INTRA provides – in its different versions – ideal and above all safe solutions for the 9t range. And does so regardless of which area of application is required – for less wear and tear and more planning reliability.

ONE UNIT – MANY VARIANTS AND APPLICATIONS ...

Especially protected due to its position in the functional suspension arm: the shock absorber

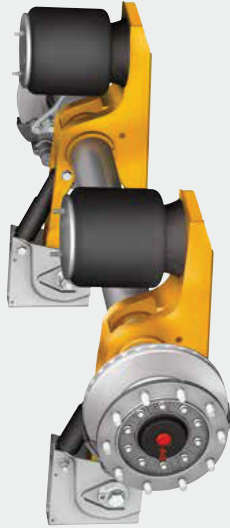


The patented SAFE-GUARD-DESIGN of the functional suspension arm protects the brake cylinder reliably from damage

Long-term conservation of value and functional safety through sophisticated cathodic dip coating with optimum corrosion protection down to the last detail

Functional suspension arm and axle tube form an inseparable and maintenance-free unit. This eliminates the need for U-bolts, clamping plates and nuts. The entire design is extremely robust and yet very lightweight

SAF INTRADISC AIRVENT

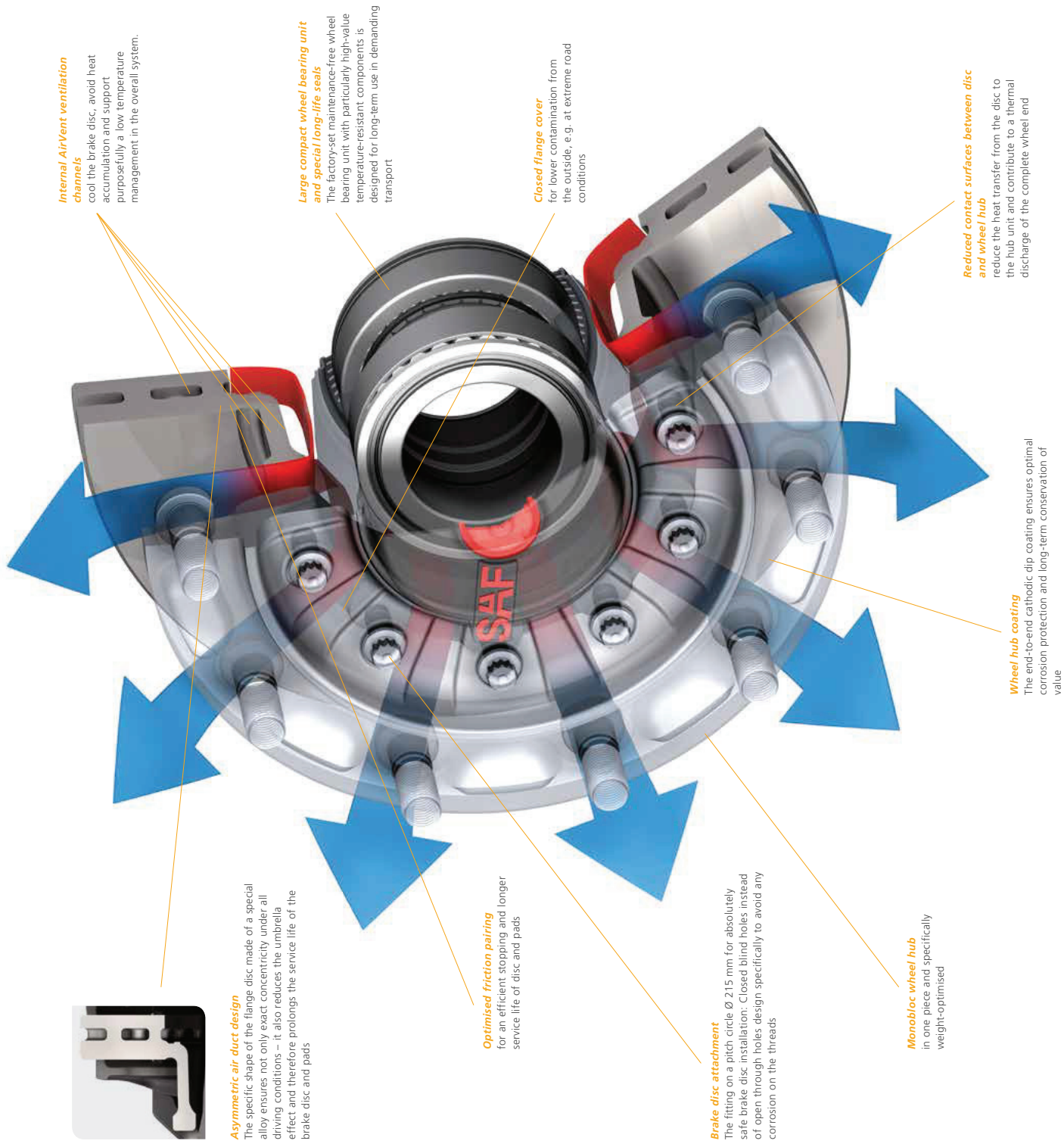


The 9t air suspension system with optimised disc brake technology and an exemplary price-performance ratio.

The SAF INTRADISC AirVent raises the bar again in terms of economic efficiency and reliability in the area of 9t axle systems with disc brakes. The core of the system is the SAF AirVent wheel end. It is equipped with an asymmetrically cast, specially alloyed 22.5" or 19.5" disc that has been tried and tested over many years. Particularly efficient and safe, the SAF INTRADISC AirVent makes the transport business more profitable again.



The patented SAF SAFE-GUARD-DESIGN of the functional suspension arm reliably protects the brake cylinder from damage.



Internal AirVent ventilation channels
cool the brake disc, avoid heat accumulation and support purposefully a low temperature management in the overall system.

Large compact wheel bearing unit and special long-life seals
The factory-set maintenance-free wheel bearing unit with particularly high-value temperature-resistant components is designed for long-term use in demanding transport

Closed flange cover
for lower contamination from the outside, e.g. at extreme road conditions

Reduced contact surfaces between disc and wheel hub
reduce the heat transfer from the disc to the hub unit and contribute to a thermal discharge of the complete wheel end

Wheel hub coating
The end-to-end cathodic dip coating ensures optimal corrosion protection and long-term conservation of value



Asymmetric air duct design
The specific shape of the flange disc made of a special alloy ensures not only exact concentricity under all driving conditions – it also reduces the umbrella effect and therefore prolongs the service life of the brake disc and pads

Optimised friction pairing
for an efficient stopping and longer service life of disc and pads

Brake disc attachment
The fitting on a pitch circle \varnothing 215 mm for absolutely safe brake disc installation: Closed blind holes instead of open through holes design specifically to avoid any corrosion on the threads

Monobloc wheel hub
in one piece and specifically weight-optimised

OPTIMONS

ABS SENSING

SAF TWO-SIDE AXLE LIFT

SAF ONE-SIDE AXLE LIFT

SAF KILOMETRE COUNTER

SAF TIRE PILOT

BRAKE CYLINDERS

SAF UP TRAIN LOADING SYSTEM

PAD WEAR SENSING

SAF PROTECTOR SHEET

SAF PC PREMIUM COATED

SAF REINFORCED AIR SPRINGS

OPTIONS FOR THE AXLES

PRODUCT	SAF ABS SENSING	SAF TWO-SIDE AXLE LIFT	SAF ONE-SIDE AXLE LIFT	SAF HUBODMETER	SAF TIRE PILOT	SAF BRAKE CHAMBERS	SAF UP TRAIN LOADING SYSTEM	SAF PAD WEAR SENSING	SAF PROTECTOR SHEET	SAF PC PREMIUM COATED	SAF REINFORCED AIR SPRINGS
DESCRIPTION	- exciter ring and sensor holder (as standard/pre-assembly) - can be activated using simple and reliable plug connections	- for 22.5" wheels - only weighs approx. 21 kg per axle - very simple retrofit	- specifically for low ride heights - only weighs approx. 30 kg - very simple retrofit	- measures the exact mileage of trailers - simple retrofit - quick and reliable mounting	- tyre-inflating system for trailers and semi-trailers - monitoring and preservation of the set tire pressure in the trailer	- completes surface coating - high-quality internal components - fully integrated air connections	- one of the lightest train loading suspension on the market - springs not clamped during rail loading	- simple retrofit - can be connected to the Trailer ABS or to a separate control and display unit	- protects the brake disc against stone chipping and other foreign objects	- with our new 3-layer coating protection with up to 50 % Zinc content - very high corrosion protection	- with steel plungers for extreme loads
AXLE											
SAF INTRADISC PLUS INTEGRAL	X	X	X	X	X	X	X	X	X	X	X
SAF INTRADISC AIRVENT	X	X	X	X	X	X	X	X	X	X	X
SAF INTRADRUM	X	X	X	X	X	X	X	standard	standard	-	X
SAF INTRA CD DRUM	X	X	X	X	X	X	on request	-	standard	-	X
SAF INTRA CD DISC	X	X	X	X	X	X	on request	X	X	X	X
SAF INTRA CD TRAK	X	-	-	X	-	X	-	X	X	-	X
SAF INTRA MEGA	X	X	X	X	X	X	X	X	X	X	X
SAF INTRA SELF-STEERING AXLE	X	-	-	X	X	X	X	X	X	-	X



TRAILER AXLES AND
SUSPENSION SYSTEMS



COUPLING AND LIFTING
TECHNOLOGIES



SUSPENSIONS FOR
TRUCKS AND BUSES



SUSPENSIONS AND COMPONENTS
FOR COMMERCIAL VEHICLES



V. ORLANDI

COUPLING AND LIFTING
TECHNOLOGIES



TRAILER AXLES AND
SUSPENSIONS SYSTEMS