

SAF INTRADISC plus INTEGRAL

9-TON AIR SUSPENSION SYSTEM WITH DISC BRAKE 19.5" AND 22.5"



THE CHALLENGE

- More kilometres less wear
- More planning safety
- More efficiency
- More profitability

More intensive competitive pressure and more and more requirements to be met, decreasing profit margins and increasing operative and maintenance costs – in the commercial vehicles industry, companies have long recognised that only those companies that can adapt

to the new general conditions as soon as possible will be able to remain among the leading players. Forwarding companies and vehicle manufacturers alike are thus increasingly counting on components that meet three decisive requirements:

Profitability, performance and safety.

The engineers at SAF-HOLLAND have faced up to this challenge and developed a completely new problem solution for trailer axles with disc brake – and thus impressively confirmed their competence and technical leadership once more. In the trailer sector, SAF-HOLLAND is the only manufacturer so far that can offer vehicle manufacturers and hauliers this innovative technology:

The SAF INTRADISC plus INTEGRAL

THE SOLUTION: INTEGRAL-TECHNOLOGY

Developed by SAF-HOLLAND for a new axle generation and patented for you:

The INTEGRAL-DISC is cast onto a high-strength splined adapter ring and bolted to the wheel flange as a self-contained unit.

An absolutely clearance-free connection is thus created between adapter ring and brake disc without the two parts fusing together. And there lies the crucial benefit:

The compound casting of disc and adapter means that the disc can expand radially and retracts again radially as it cools.

And that means:

The dreaded "hot spots" that result in stresses in the material and potential cracking right up to failure of the disc with conventional brake discs are eliminated. And since the brake surfaces remain absolutely flat in all operating states, the service life of the pads is also significantly prolonged.



THE PRINCIPLE: MORE COST-EFFECTIVENESS FOR YOUR TRAILER

The new performance class for air suspension systems

with 19.5" and 22.5" disc brakes for 9 ton axles with 19.5" and 22.5" single wheels

For the first time in the trailer sector:

By contrast with conventional one-piece brake discs, the INTEGRAL is a two-piece brake disc that is manufactured by compound casting from different materials.

This design principle – used for the first time worldwide for trailer axles by SAF-HOLLAND – is gentler on material and therefore prolongs the service life of pads and disc.

THE SAF INTRADISC plus INTEGRAL IS ALSO AVAILABLE IN A

> 9-t-CD CUSTOM DESIGN VERSION for special applications

> > 9-TON STEERING AXLE

MORE PROFITABILITY FOR YOUR BUSINESS

INTEGRAL benefit -

With 15 large radiator-like ventilation slots in the wheel flange, SAF-HOLLAND achieves at least 60% more ventilation cross-section than in a design with closed wheel flange - depending on the size of the openings in the wheels fitted

Weight-optimised and precise in form: The brake carrier

Optimum protection thanks to its positioning in the functional suspension arm: The shock absorber INTEGRAL benefit

Significantly reduced heat transmission thanks to small contact surfaces between INTEGRAL disc and wheel flange

INTEGRAL benefit

Compared with a design with one-piece brake disc and closed wheel flange, the SAF INTRADISC plus INTEGRAL has a 100% larger heat-dissipating surface area

Long-term value retention and functional reliability thanks to the highquality KTL coating with optimum corrosion protection from the very beginning

The functional suspension arm and axle beam form an inseparable and maintenance-free unit. This eliminates the need for U-bolts, clamping plates, axles seats and nuts, etc. The whole construction is extremely robust, yet nevertheless exceptionally light

The patented Safe-Guard design of the functional suspension arm protects the brake cylinders reliably against damage

The benefits of the standard alignment eccentric: Quick and simple adjustment of the axle, maintenance-free pivot bolt assembly

INTEGRAL benefit

Conical ventilation channels in the brake disc for maximum internal ventilation

INTEGRAL benefit

10 ventilation channels under the brake disc

Selective long-term corrosion protection also on hub caps, fixtures, wheel bolts and nuts

The SAF Hub Unit is a compact assembly of hub and bearing. It is adjusted at the factory and then encapsulated. The SAF Hub Unit is maintenance-free

INTEGRAL benefit

10 additional ventilation channels under the adapter ring

with SAF disc brakes SBS 2220 H0

from $397 \, \text{kg}$ with 22.5" disc brake

COMFORTING: THE INTEGRAL GUARANTEE

SAF-HOLLAND is the first trailer axle manufacturer in the world to offer a special guarantee against continuous cracks in brake discs on trailers

MORE KILOMETRES -LESS WEAR

INTEGRAL-**GUARANTEE**

500,000 km UP TO 3 YEARS WITH 22.5" DISC 350,000 km UP TO 2 YEARS WITH 19.5" DISC

THE INTEGRAL-GUARANTEE is available only for the INTRADISC plus INTEGRAL 9 ton air suspension system

RELIABLE PROTECTION

The INTEGRAL-GUARANTEE is your protection against continuous cracks in the brake disc. If the brake disc shows continuous cracks and therefore has to be replaced (TÜV criteria), SAF-HOLLAND will replace it free of charge (excluding labour and workshop costs) according to the SAF-HOLLAND guarantee conditions.





Current damage pattern standard in accordance with the SAF-HOLLAND maintenance

VARIABLE: THE OPTIONS

Tailored exactly to your transport applications for more profitability in your business.



Every SAF INTRADISC plus INTEGRAL can be additionally equipped with the following options. They can be ordered during the specification of your trailer to your trailer builder, or can be very easily

BRAKE CHAMBER



- Complete surface coating
- High-quality () internal components
- > Fully integrated air connections

Preassembled and available as standard: Exciter ring and sensor holder

retrofitted later.

ABS/EBS sensing can be activated via a simple and reliable plug connection

ABS SENSING



PAD WEAR SENSING



- Easy to retrofit
- Can be connected to the trailer EBS or to a separate monitoring and display unit

- > Weight only approx. 21 kg
- Very easy to retrofit



TWO-SIDE LIFT FOR 22.5" WHEELS



SINGLE-SIDE LIFT, SPECIALLY FOR LOW, RIDE HEIGHTS

- Weight only approx. 30 kg
- Very easy to retrofit

PERFECT: YOU HAVE THE CHOICE







