

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**.

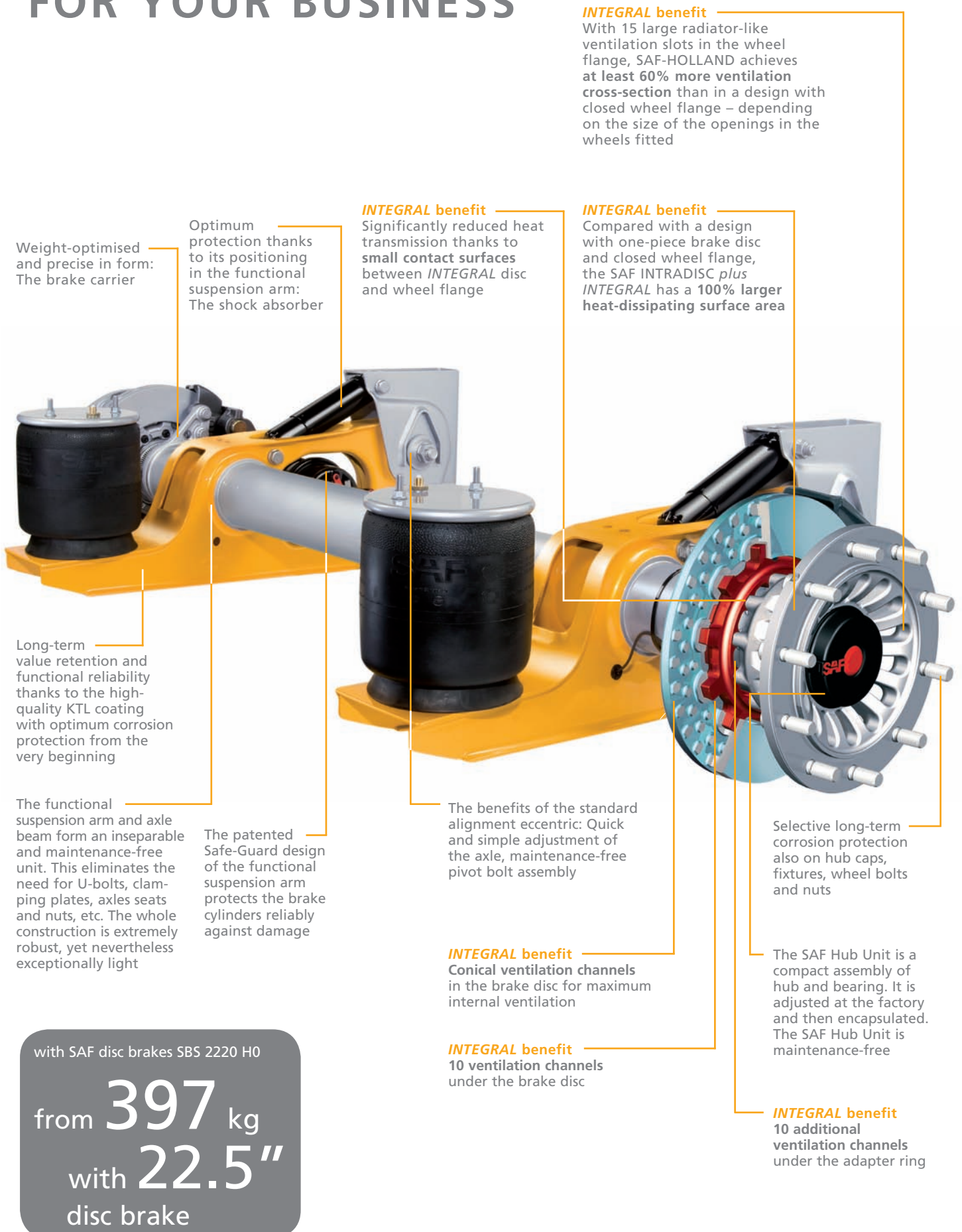
This design principle – used for the first time worldwide for trailer axles by SAF-HOLLAND – is gentler on material and therefore prolongs the service life of pads and disc.

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



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

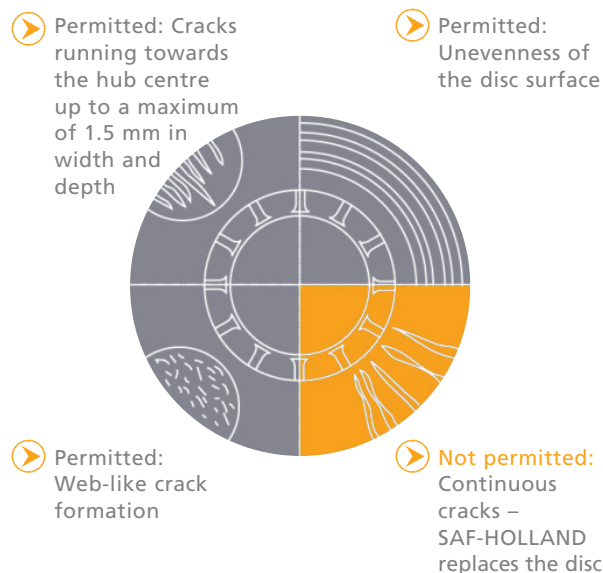
The *INTEGRAL*-GUARANTEE is your protection against continuous cracks in the brake disc. If the brake disc shows continuous cracks and therefore has to be replaced (TÜV criteria), SAF-HOLLAND will replace it free of charge (excluding labour and workshop costs) according to the SAF-HOLLAND guarantee conditions.

TYPICAL DAMAGE PATTERNS



Continuous cracks in one-piece brake discs By comparison:
Permissible cracks in an *INTEGRAL* discs

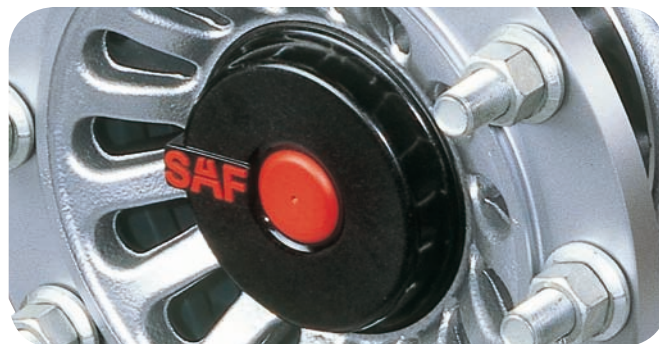
TYPICAL SIGNS OF WEAR



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

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 retrofitted later.

BRAKE CHAMBER



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

ABS SENSING



- Preassembled and available as standard: Exciter ring and sensor holder
- ABS/EBS sensing can be activated via a simple and reliable plug connection

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

9-ton air suspension unit



with either 22.5"
or 19.5" disc brakes

9-ton self-steering axle



with either 22.5"
or 19.5" disc brakes

9-ton air suspension unit MEGA VERSION



with either 22.5"
or 19.5" disc brakes

9-ton air suspension unit CD CUSTOM DESIGN VERSION



for special applications
with either 22.5"
or 19.5" disc brakes