

# THE SAF INTRADRUM – TRIED AND TESTED: TECHNICALLY SOPHISTICATED, EXCEPTIONAL SAFETY – WITH OUTSTANDING LIGHT WEIGHT AND PROFITABILITY

## THE NEW SAF PREMIUM CLASS FOR AIR SUSPENSION UNITS with 420x180 mm drum brake for 9 tonne axles with 22.5" wheels and single tyres

The SAF INTRADRUM is an integrated suspension system for all transport companies and fleets that make special demands on high reliability and practical ease of maintenance.

**COMPETENCE —  
— GUARANTEE\***

\*1 million kilometres up to 6 years on the complete unit for the on-road version  
500,000 kilometres up to 3 years on the complete unit for the off-road version  
according to the SAF-HOLLAND guarantee conditions

Particularly protected thanks to its positioning  
in the SAF functional suspension arm:

**The SAF shock absorber**

**The SAF Hub-Unit**

is a compact unit of hub  
and bearing. It is delivered  
pre-set and encapsulated.  
The SAF Hub Unit  
is maintenance-free

**Eccentric adjustment  
as standard:**

Quick and simple  
adjustment of the axle,  
maintenance-free  
bolting of the functional  
suspension arm

**Full contact  
of the wheel rim**

**The brake has  
a spherical mounting:**

This ensures exceptionally  
long service life of the brake  
linings

Long-term life and functional  
reliability thanks to the sophisticated  
**cathodic coating** with optimum  
corrosion protection down  
to the last detail

**Functional suspension arm**

**and axle beam** are an inseparable  
and maintenance-free unit at SAF-HOLLAND.  
This eliminates the need for e.g. U-bolts,  
clamping plates, axle/suspension seats  
and nuts. The whole assembly is extremely  
robust yet exceptionally light

from **410** kg

**Selective long-term  
corrosion protection**  
of hub, hub caps, wheel  
bolts and nuts and fixings

**ABS preparation  
as standard**

The SAF INTRADRUM is also available as

**9 tonne Off-Road**

# The INTRADRUM TECHNOLOGY

SAF  
Quality

## High-performance components, developed by SAF-HOLLAND and optimised over many generation of axles – to form a perfect suspension system:

Do you want to transport efficiently, profitably and practically maintenancefree? With planning security from the very first kilometre and for years to come, irrespective of the desired trailer type or manufacturer? SAF has designed exceptionally performant and reliable components to meet these demands, tailored them exactly to one another and combined them to produce a perfect suspension system. Its name: SAF INTRADRUM. Its hallmark: Reliability proven 100,000 times over, renowned sturdiness and exceptional profitability. Apart from these benefits, SAF INTRADRUM suspension systems offer you additional outstanding strengths:

### The SAF Hub Unit

The great benefit of this design: Wheel hub and wheel bearing form a self-contained unit. The interplay of hub and bearing is therefore precisely set and life-time lubricated at production assembly. A further benefit: The hub unit is therefore completely sealed and maintenance-free.



### The SAF Functional Suspension Arm

The typical round axle beam of high-grade steel is welded to the two functional suspension arms to create an inseparable, completely maintenance-free unit - the strong "backbone" of every SAF INTRADRUM. The practical benefit: No additional mounting of extra parts such as e.g. axle/spring seats and U-bolts, no retightening of nuts and bolts.



### The SAF 3D Bush

Pressed into the functional suspension arm, this special bearing developed by SAF, absorbs the wheel, side tilt and braking forces. This not only relieves the load on your trailer frame, but also significantly increases the handling stability. A further major benefit: The 3D bush is absolutely maintenance-free.



### The SAF Shock Absorber

Exactly matched to the suspension system: The SAF high-performance shock absorber with specific characteristics. It is mounted in the middle of the hanger bracket and functional suspension arm and is able to effectively damp the forces of the un-sprung weight. A great benefit of this configuration: Mounting inside the functional suspension arm additionally protects the shock absorber even on poor roads, e.g. from flying stones.



# EXCEPTIONAL SERVICE FRIENDLINESS

## SAF DRUM BRAKES

Technical sophistication

## The major benefits of a well designed and sophisticated mechanical system

SAF-HOLLAND attach very great importance to the quality of the brakes in our suspension systems. We therefore only works with recognised internationally successful suppliers. SAF-HOLLAND therefore assures you that with the SAF INTRADRUM, you are operating not only a particularly cost-efficient air suspension system, but also one that is reassuringly safe.



### Camshaft compact bearing

As a preassembled unit without individual parts and thanks to its compact dimensions, the bearing can be replaced and easily at any time, as required. It has permanent corrosion protection and only has to be lubricated at regular intervals. You save time, money and weight.



Front camshaft compact bearing



Rear camshaft compact bearing

### SAF brake linings

are asymmetrically shaped using computer calculations and are subject to continuous strict production controls. Special material blends and the unusual shape pay off by giving long service life and the best possible safety. When the brake linings have to be changed, replacement with SAF-HOLLAND ORIGINAL PARTS is always to be recommended.



### Precise cam roller guide

The precision machined S-cams can exactly control the movement of the brake shoes and the applied brake pressure. This ensures optimum braking effect.



### Advantage SAF: The spherical bearing

On the SAF INTRADRUM, the brake shoes are mounted around a spherical head like a ball joint. Thanks to their special geometry, the shoes remain mobile in all directions, allowing the linings to wear more uniformly and also for greater life.



### Finish ground brake lining contour

Even in the event of a repair, machining the brake linings is not necessary. For this reason, you can rely on the full braking force of your SAF INTRADRUM again right from the first turn of the brake drum.



### Brake shoe change within seconds

With the SAF INTRADRUM, all you need is a screwdriver and a flick of the wrist – extremely simple and done in seconds.



### Less individual parts

You save not only on stocks of spare parts but also and more particularly on the maintenance and repair.

# VARIABLE: THE OPTIONS

## TAILORED EXACTLY TO YOUR TRANSPORT ACTIVITIES – FOR MORE EFFICIENCY IN YOUR BUSINESS

Every SAF INTRADRUM can be additionally equipped with the following options. You can order these as part of your trailer specification or install them very simply at a later date.

### ABS sensing



- Exciter ring and sensor holder
- As standard and preinstalled
- ABS/EBS sensing
- Can be activated with simple and reliable plug connections

### SAF kilometre counter



- Kilometre counter to measure the exact operating life of trailers
- Simple retrofit installation
- Quick and operationally reliable installation

### Two-side lift for 22.5" wheels



- Weight only approx. 21 kg
- Very simple retrofit installation

### Single-side lift, especially for low ride heights



- Weight only approx. 30 kg
- Very simple retrofit installation

### Slack Adjuster



- Automatic
- Rugged and requires little maintenance
- Easy, safe, and fast installation
- Various installation positions thanks to flexible control arm positions

### SAF Brake chambers



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

# ON-ROAD OR OFF-ROAD: YOU HAVE THE CHOICE

## SAF INTRADRUM

9 tonne **On-Road**

with 420x180 mm drum brake



## SAF INTRADRUM

9 tonne **Off-Road**

with 420x180 mm drum brake

For the SAF INTRADRUM Off-Road, the wall thickness of the axle beam is designed for particularly severe loads and the functional suspension arm has been specially strengthened. Even so, the unit weight has increased by only approx. 13 kg. SAF-HOLLAND recommends this version e.g. for:

- Trailers in Off-Road operations
- Tippers
- Pavers: SAF-HOLLAND also offers a version of the IO series with a shortened 500/340 mm trailing arm on the rear axle.



### Recommendation:

If you decide in favour of the SAF INTRADRUM Off-Road, please talk to your trailer builder about the use of the 2923V air bag with 4-point mounting. This will help to selectively reduce the risk of the air bag being torn off, e.g. during rapid unloading.

# GUARANTEED SAFETY FROM THE 1ST KILOMETRE – WITH THE SAF-HOLLAND SAFE+EASY SERVICE PACKAGE

safe+easy is a service package from SAF-HOLLAND – specially developed for trailers. The trailer operating costs are calculated in advance and converted into a monthly lump sum per kilometre. As a result, safe+easy provides reliable protection against unscheduled workshop visits and unexpected repair and service costs.



[www.safholland.com](http://www.safholland.com)

## What advantages does safe+easy offer you?

- A fixed contact person in the event of a repair
- Guaranteed fixed cost
- Complete repair handling
- Guaranteed availability of SAF-HOLLAND ORIGINAL PARTS
- Workshop inspection and cash in advance
- Additional services such as e.g. statutory inspections, also of the complete trailer brake system, on request

Further information and an example calculation for your fleet without obligation can be obtained from Tel: +49 (0) 60 95/3 01-3 84 or [anton.bigelmaier@safholland.de](mailto:anton.bigelmaier@safholland.de)