

simalube – the automatic single-point lubricator

Uninterrupted operation and efficient maintenance for intralogistics



simalube

 SWISS MADE

Your benefits with simalube

- ✓ **Increased component service life**
According to the EPTDA*, consistent, adequate lubrication reduces wear and tear and extends the service life of components such as roller bearings, chains and guides by up to 30%.
- ✓ **Reduced electricity costs**
The Coop distribution centre in Schafisheim (Switzerland) automated lubrication in its 24/7 bakeries – resulting in a 0.2 ampere reduction in power consumption per motor.
- ✓ **Less effort – more impact**
Automated lubrication reduces the workload for the maintenance team at Coop, allowing them to focus on preventive tasks instead of repetitive manual lubrication – with up to 81% savings in working hours.
- ✓ **Avoid unplanned stops**
According to Global Trade**, component failures are one of the main causes of unplanned downtime. The combination of predictive maintenance and automatic lubrication with simalube enables up to 15% higher plant availability and up to 25% lower maintenance costs.
- ✓ **Increased occupational safety**
Automated lubrication solutions such as simalube increase occupational safety by eliminating the need for manual intervention on running machines. This significantly reduces the risk of accidents.
- ✓ **Efficiency meets environmental awareness**
A life cycle analysis by Carbotech AG*** shows that the CO₂ footprint of a simalube 125 ml dispenser corresponds to approximately a 3 to 5 kilometre car journey. In addition, the dispenser is easy to dispose of – the drive with gas generation cell can be removed separately and recycled properly.



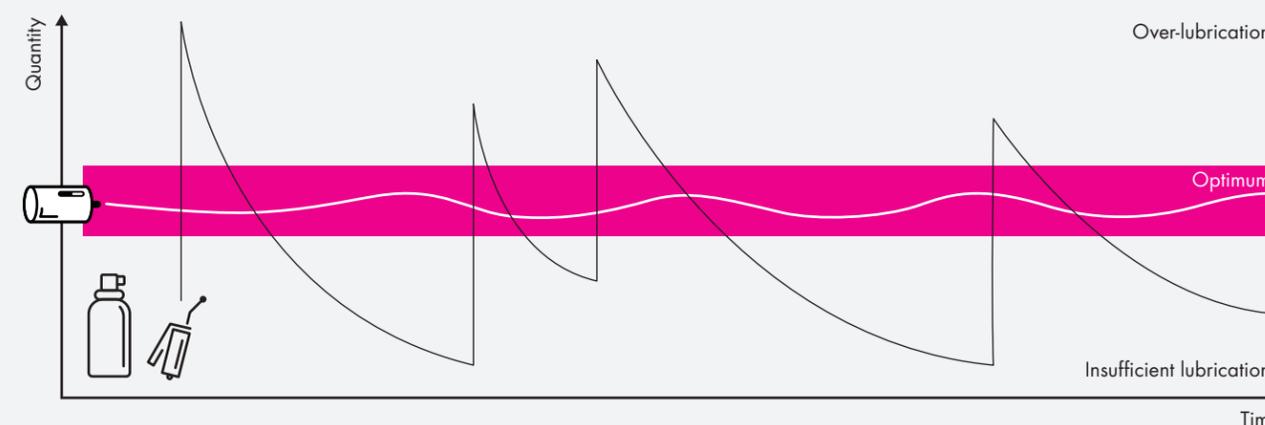
Go directly to the product enquiry:
simatec.com/int/en/product-request

Uncompromising performance for your machines and systems

«Created by experts: the automatic simalube lubrication solution»

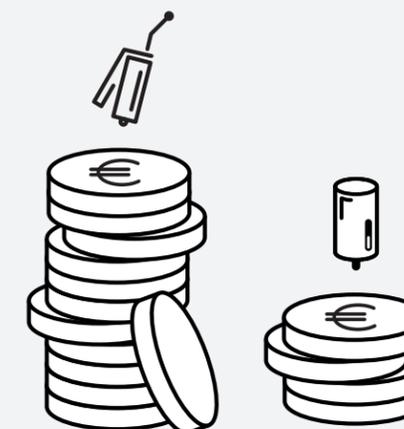
No more unplanned maintenance interruptions! In the fast-paced world of logistics, efficiency is crucial. Our simalube lubricators are the insider tip for reliable and uninterrupted processes. Thanks to automatic and precise lubrication, they ensure consistently high system availability while reducing your maintenance costs. Gain time, safety, reliability and efficiency with simalube – the smart lubrication solution for every logistics operation!

Automatic lubrication compared to manual lubrication:



Cost savings of up to 30%:

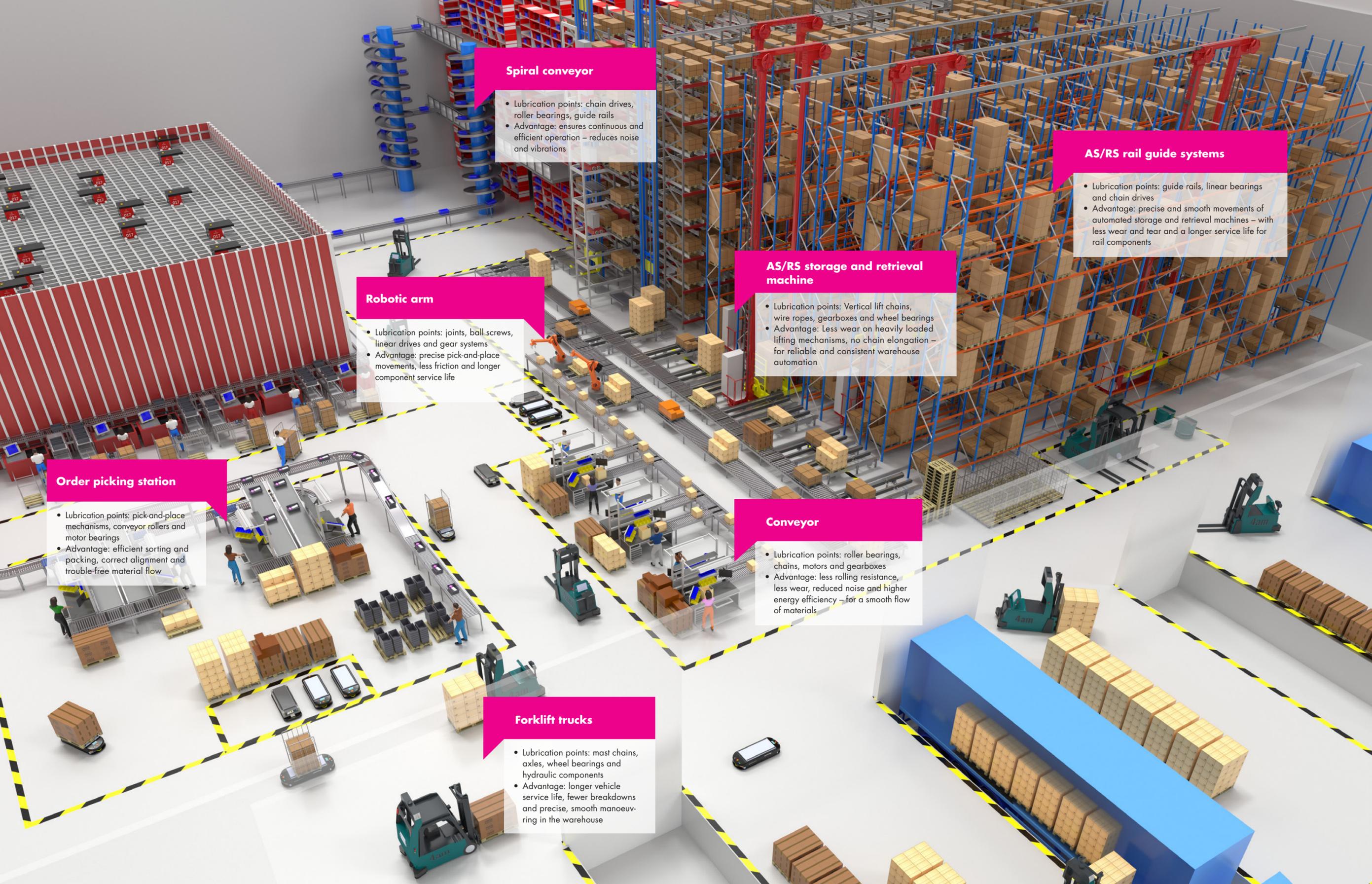
- ✓ Less wear on chain pairs
Fewer malfunctions
- ✓ Longer service life of chain pairs
Lower spare part costs
- ✓ Lower spare part costs
Stress factor decreases
- ✓ Easier planning of maintenance work
Routine is established
- ✓ No discharge of propellants
No sprays in use
- ✓ CO₂ reduction through minimised power consumption
Environmental protection
- ✓ Fewer working hours
More resources



* European Power Transmission Distributors Association. Quelle: EPTDA (2017). Material Handling: Market and Production Line Intelligence.

** Global Trade: The Authority For US Companies Doing Business Globally.

*** Carbotech AG: Environment, sustainability and pollutant consulting.



Spiral conveyor

- Lubrication points: chain drives, roller bearings, guide rails
- Advantage: ensures continuous and efficient operation – reduces noise and vibrations

Robotic arm

- Lubrication points: joints, ball screws, linear drives and gear systems
- Advantage: precise pick-and-place movements, less friction and longer component service life

Order picking station

- Lubrication points: pick-and-place mechanisms, conveyor rollers and motor bearings
- Advantage: efficient sorting and packing, correct alignment and trouble-free material flow

AS/RS storage and retrieval machine

- Lubrication points: Vertical lift chains, wire ropes, gearboxes and wheel bearings
- Advantage: Less wear on heavily loaded lifting mechanisms, no chain elongation – for reliable and consistent warehouse automation

Conveyor

- Lubrication points: roller bearings, chains, motors and gearboxes
- Advantage: less rolling resistance, less wear, reduced noise and higher energy efficiency – for a smooth flow of materials

Forklift trucks

- Lubrication points: mast chains, axles, wheel bearings and hydraulic components
- Advantage: longer vehicle service life, fewer breakdowns and precise, smooth manoeuvring in the warehouse

AS/RS rail guide systems

- Lubrication points: guide rails, linear bearings and chain drives
- Advantage: precise and smooth movements of automated storage and retrieval machines – with less wear and tear and a longer service life for rail components

Applications

- Forklift trucks/load chains
- AS/RS buffer system conveyors
- Storage and retrieval machines
- Robot arms
- Conveyor belts
- Vertical lifts/carousels

Added value through automatic lubrication

- Increase cost efficiency: Automatic lubrication enables savings of up to 30% in maintenance and operating costs.
- Intelligent maintenance: Automatic lubrication continuously delivers precise lubrication quantities – this reduces unplanned downtime and supports predictive maintenance in line with Industry 4.0.
- Proactive collaboration: Clearly defined maintenance and lubrication intervals make servicing easier to plan, maintenance more efficient – and operating costs can be reduced in the long term.

Annual costs – components at a glance

On average, a logistics centre pays annually for:

Steel cables

2,350–7,040 USD

Roller conveyors

4,700–23,500 USD

Chain conveyors

5,860–29,300 USD

Rolling bearings and guides

7,000–17,600 USD

Case study

Initial situation



3,000 chain and roller conveyors lubricated monthly to biannually using sprays



**600 working hours per year
11,160 spray cans**



**Overdosing led to malfunctions
Increased friction and power consumption of the motors
Noise and chain breaks
Effort: approx. two hours per chain**



**Costs per year:
USD 111,129 spray cans
USD 60,137 working hours
USD 72,666 per hour in the event of breakdowns**

Cost savings and process improvements with **simalube** – Coop distribution centre in Schafisheim (Switzerland)

Cost comparison

Manual lubrication			simalube		
Spray cans	USD	111,129	Lubricators	USD	99,101
Labour	USD	60,137	Labour	USD	11,275
Total	USD	171,266	Total	USD	110,376
11,160 spray cans and 600 working hours			2,232 lubricators and 112 working hours		

Savings in materials and labour: USD 60,890 per year

Energy savings

The Coop distribution centre in Schafisheim demonstrated that simalube reduces the power consumption per motor by up to 0.2 amps – a significant contribution to increasing energy efficiency.

**1,116
motors**

**320
working days
at 15 hours each**

**1,340 kWh
savings per day
CHF 0.21 per kWh**

Energy savings: USD 112,757 per year

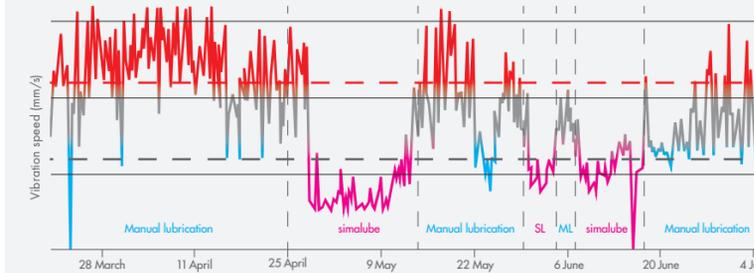
Total savings

USD 173,647 per year

Not included: costs of USD 72,666 per hour of downtime – a significant additional savings potential.

Reliability that pays off

One of the world's largest logistics centres replaced manual lubrication with automatic single-point lubricators. Tests and vibration analyses confirmed that simalube delivers measurably better performance and maximum operational reliability.



Manual lubrication until the end of April: many upward outliers (red peaks)
Automatic lubrication from the end of April: significant harmonisation (pink peaks)

Conclusion: Increase efficiency and safety with automatic, reliable lubrication from simalube. For consistently high machine availability – while reducing maintenance costs.

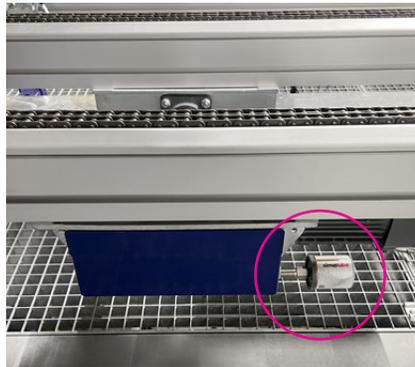
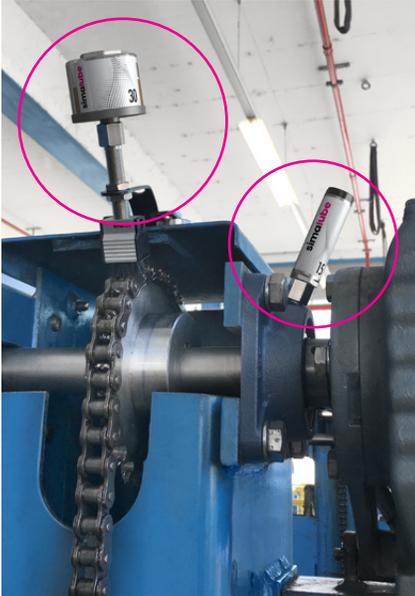
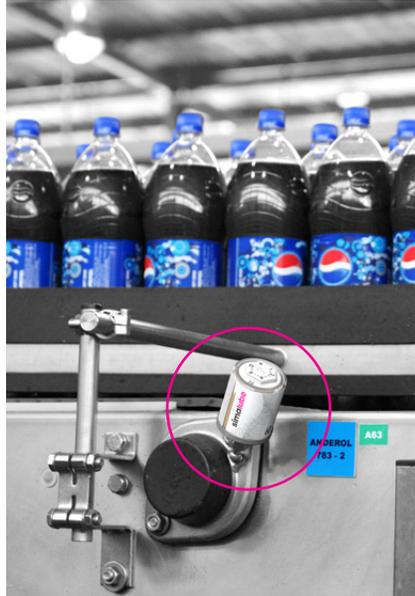
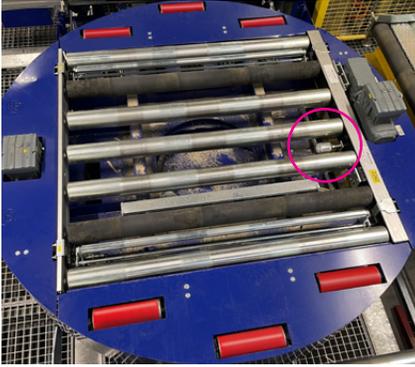
Your benefits at a glance

- ✓ **Maximum efficiency in logistics**
Lubricant dispensers increase stable and continuous operation in heavily frequented environments.
- ✓ **Avoid downtime, reduce costs**
Fewer breakdowns thanks to automatic lubrication – reliable with simalube.
- ✓ **Significantly reduce maintenance costs**
Longer service life and targeted maintenance save time and money.
- ✓ **Quieter operation, more relaxed working**
Less noise ensures a more pleasant working environment.
- ✓ **Sustainable and environmentally friendly**
Move away from sprays – towards recyclable, energy-efficient solutions.
- ✓ **Make optimal use of human resources**
Automation frees up time for other tasks.

Simple and convincing: «With simalube, the investment pays for itself more than twice over compared to manual lubrication.»



Discover your savings potential with automatic lubrication:
simatec.com/int/en/form/benefit-calculator



We would be happy to provide you with information about the use of simalube products in the intralogistics.

Our highly qualified specialists have in-depth technical expertise and can show you how automatic lubrication can reduce costs and extend the service life of machines in a targeted manner.

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