

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.

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.

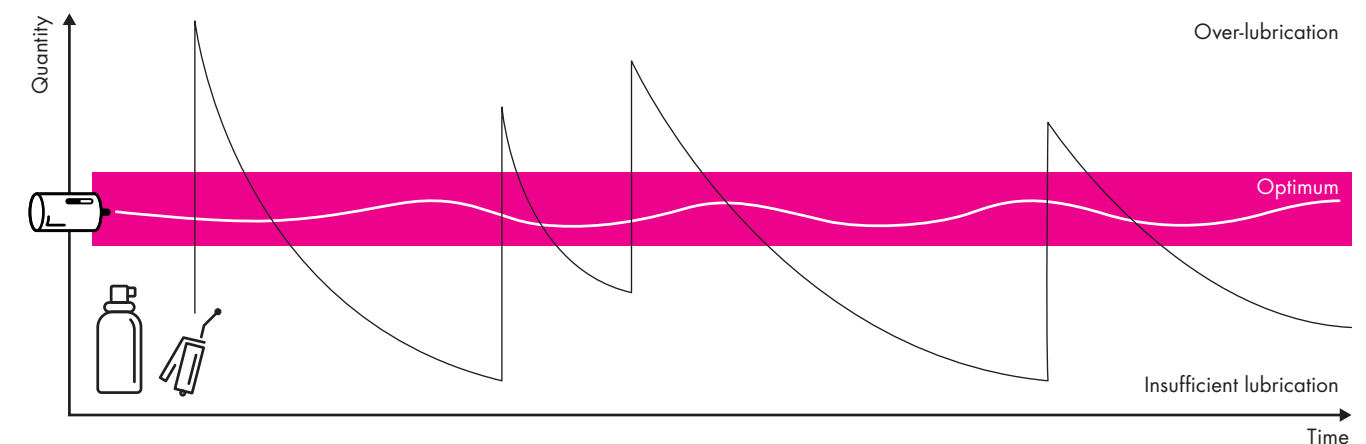
*** Carbotech AG: Environment, sustainability and pollutant consulting.

Uncompromising performance for your machines and systems

«Created by experts: the automatic simalube lubrication solution»

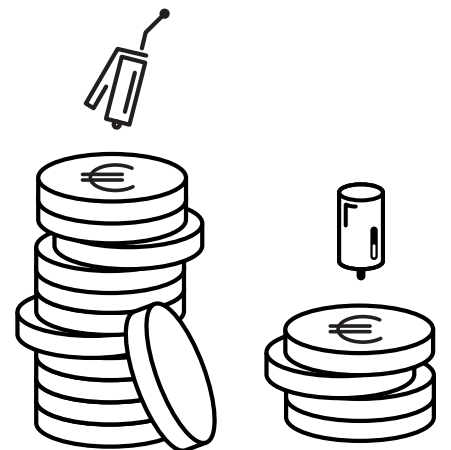
No more unplanned maintenance interruptions! In the fast-paced world of logistics, efficiency is crucial. Our simalube lubricators are the insider tip for reliable and uninterrupted processes. Thanks to automatic and precise lubrication, they ensure consistently high system availability while reducing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

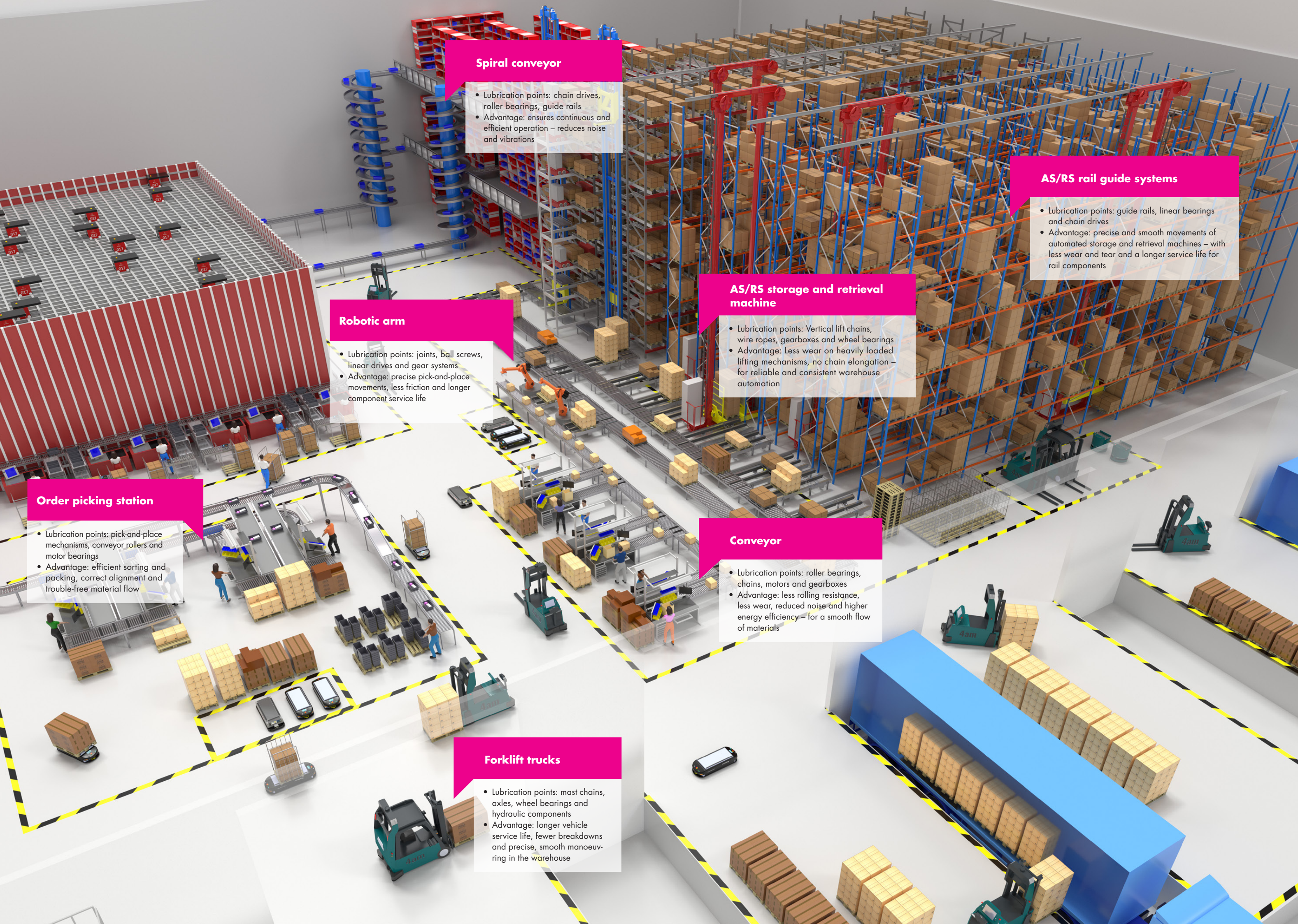
Automatic lubrication compared to manual lubrication:



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





Spiral conveyor

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

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

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

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

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

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

2,000–6,000 €

Roller conveyors

4,000–20,000 €

Chain conveyors

5,000–25,000 €

Rolling bearings and guides

6,000–15,000 €

Case study

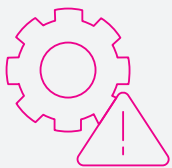
Initial situation



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:
CHF 88,722 spray cans
CHF 48,000 working hours
CHF 58,000 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	CHF	88,700	Lubricators	CHF	79,100
Labour	CHF	48,000	Labour	CHF	9,000
Total	CHF	136,700	Total	CHF	88,100
11,160 spray cans and 600 working hours			2,232 lubricators and 112 working hours		

Savings in materials and labour: CHF 48,600 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
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Energy savings: CHF 90,000.– per year

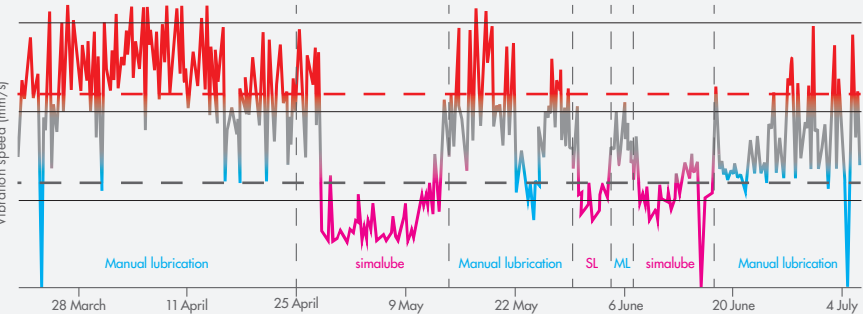
Total savings

CHF 138,600 per year

Not included: costs of CHF 58,000 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.



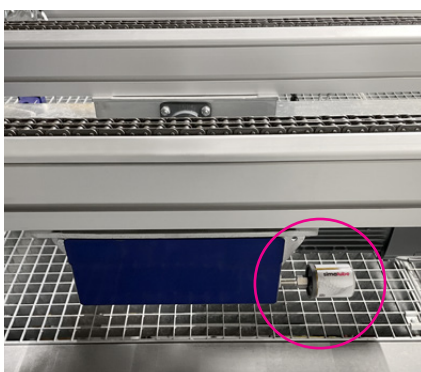
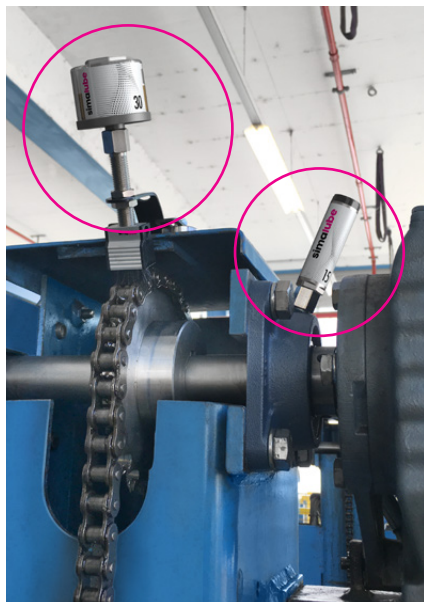
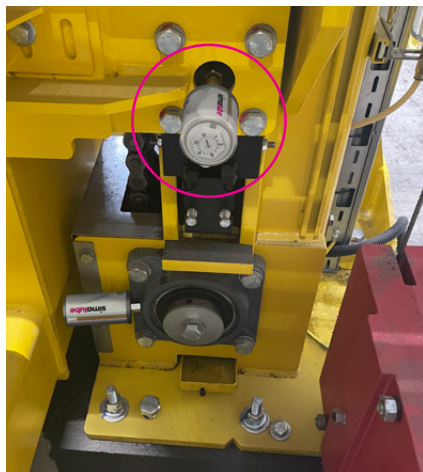
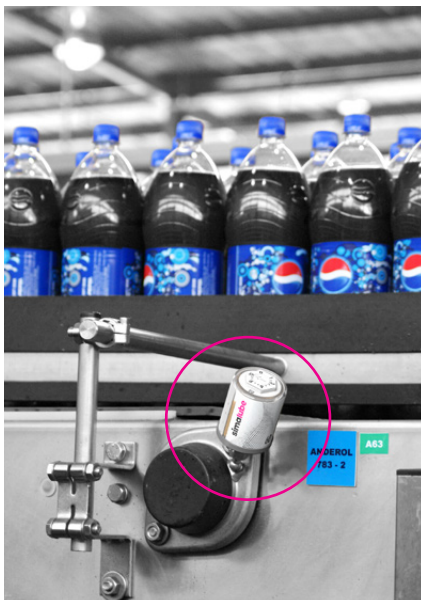
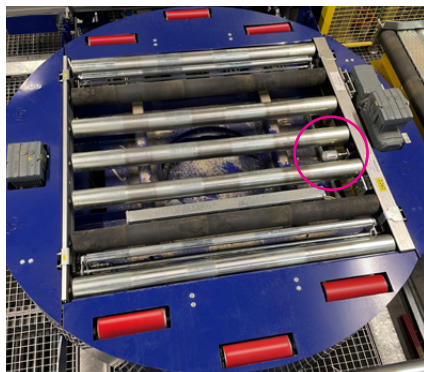
Manual lubrication until the end of April: many upward outliers (red peaks)
Automatic lubrication from the end of April: significant harmonisation (pink peaks)

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.»



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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