

Sumitomo Drive Technologies



MAXIMUM GEARBOX UPTIME
SMART OIL MAINTENANCE & MONITORING



Mobile Solution for Offline Oil Filtration

Clean oil, anywhere. Our mobile offline filtration system with 3*, 5, or 10** µm elements delivers:

- Effective surface and depth filtration for extended oil life
- Reliable removal of water, particles and varnish (sludge)

* Standard µm for depth filter / ** Standard µm for pressure filter



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Mobile/Semi Automatic oil filtration

From break & fix to a sustainable product lifecycle

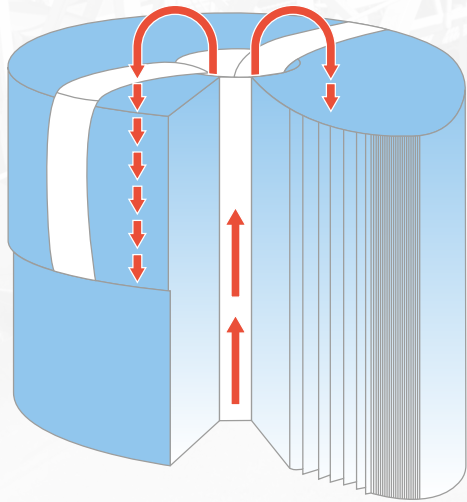
Reusage of oil

Make your oil even cleaner than from the original manufacturer's standard

Visualisation of debris and water

Increase efficiency and profitability through digital maintenance technology

Purifying & Protecting Your Oil



Suction filter
The suction filter captures coarse particles to protect the pump. An integrated bypass ensures continuous oil flow in case the filter becomes saturated, preventing pump failure.



Pressure filter
The pressure filter removes fine particles to maintain high oil cleanliness. An integrated bypass ensures that critical components, such as heaters or coolers, continue to receive oil even when the filter is saturated.



Depth filter
The depth filter purifies the oil by removing free and dissolved water as well as oil degradation products such as varnish and sludge. At the same time, the filter media captures solid contaminants, extending the oil's service life.

Key Functionalities

- Oil filtration
- Improved oil cleanliness levels
- Mobile solution
- Continuous filtration
- Integrated versatility
- Stand-alone solution

Operating Modes

- Bypass scenarios for:
 - Permanent filter
 - Filter for large or heavily contaminated systems
 - Filter with integrated cooler or heater
- Filling
- Draining
- Transfer

Oil Flow & Capacity

- Flow rate: up to 16 liters per minute
- Cart filter capacity: 8 liters
- Suitable for gearboxes with oil capacities up to 1000 liters

Spare Parts & Accessories

- **Surface Filter (Spin-On)**
3 µm | 5 µm | 10 µm (Standard) | 125 µm (Protection filter)
- **Depth Filter (RRR)**
3 µm (standard) | 5 µm | 10 µm
- **Hose Kit**
Various coupling sizes for the gearbox-side hose kit available, covering both return and suction connections



Real-Time Data Access Anywhere

A mobile real-time data monitoring system with two independent dashboards – local and cloud-based. Features include:

- IP65-rated enclosure for harsh environments
- Compliance with EU Cyber Resilience Act (CRA) and EU Data Act
- Secure Virtual Private Network (VPN) connection
- End-to-end encrypted cloud communications
- LTE/4G/5G SIM card connectivity
- Optional WiFi access



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Key Functionalities

- Oil cleanliness
 - Particle contamination
 - Humidity level
- Oil temperature surveillance
- Vibration-based monitoring
 - Key Performance Indicators (KPIs)
 - Fast Fourier Transform (FFT)
- Advanced dashboard functionality
- Stand-alone solution
- Universal system compatibility

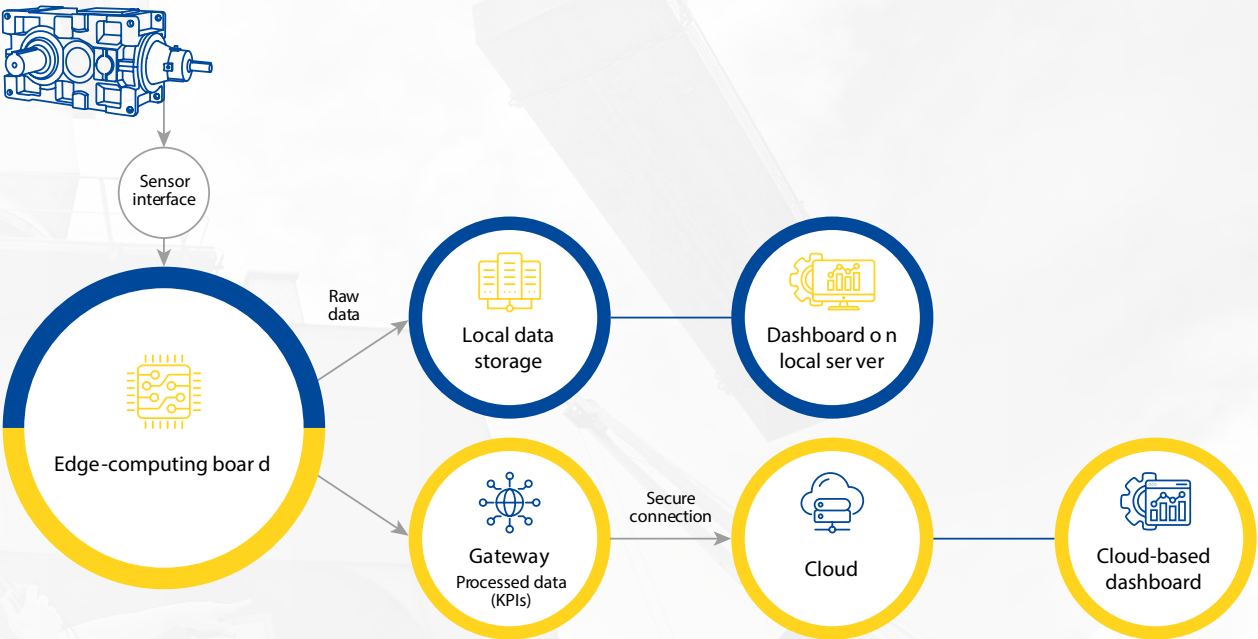
Oil Flow & Capacity

- Flow rate: 0.25 to 0.40 liters per minute

24/7 monitoring for smarter, safer gearbox operation

- Oil temperature
- contaminants & wear
- Water saturation
- Advanced vibration analysis

How it works



Spare Parts & Accessories

- Ethernet Cables (IP67-rated)
3 m | 6 m
- Power Cords (IP67-rated)
3 m | 5 m
- Protection (Spin-On) Filter
125 µm
- Vibration Sensors with Cables
5 m | 10 m
- Hose Kit
Various coupling sizes for the gearbox-side hose kit available, covering both return and suction connections



All-in-One Gearbox Health Management

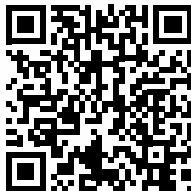
eye COMPLETE combines real-time monitoring with mobile offline oil filtration. Featuring local and cloud dashboards, it provides 24/7 data access and transparency while extending gearbox life with filter elements of 3*, 5, or 10** µm. Features include:

- Effective surface and depth filtration for extended oil life
 - Reliable removal of water, particles and varnish (sludge)
 - IP65-rated enclosure for harsh environments
 - Compliance with EU Cyber Resilience Act (CRA) and EU Data Act
- Secure Virtual Private Network (VPN) connection
 - End-to-end encrypted cloud communications
 - LTE/4G/5G SIM card connectivity
 - Optional WiFi access

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Up to
5x

Gearbox life extension



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Key Functionalities

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 - Fast Fourier Transform (FFT)
- Advanced dashboard functionality
- Stand-alone solution
- Universal system compatibility

Oil Flow & Capacity

- Flow rate: up to 16 liters per minute
- Cart filter capacity: 8 liters
- Suitable for gearboxes with oil capacities up to 1000 liters

Optimized maintenance planning

Reduced downtime and extended gearbox lifetime

Extended oil life

Lower repair costs

Automated Reporting

Automatic email and SMS alerts

Continuous 24/7 monitoring

Periodic gearbox status reports

Spare Parts & Accessories

- Ethernet Cables (IP67-rated)
3 m | 6 m
 - Power Cord (IP67-rated)
3 m | 5 m
 - Surface (Spin-On) Filter
3 µm | 5 µm | 10 µm (Standard) | 125 µm (Protection filter)
- Vibration Sensors with Cables
5 m | 10 m
 - Depth Filter (RRR)
3 µm (Standard) | 5 µm | 10 µm
 - Hose Kit
Various coupling sizes for the gearbox-side hose kit available, covering both return and suction connections



Find your closest Sumitomo Drive Technologies facility here.

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