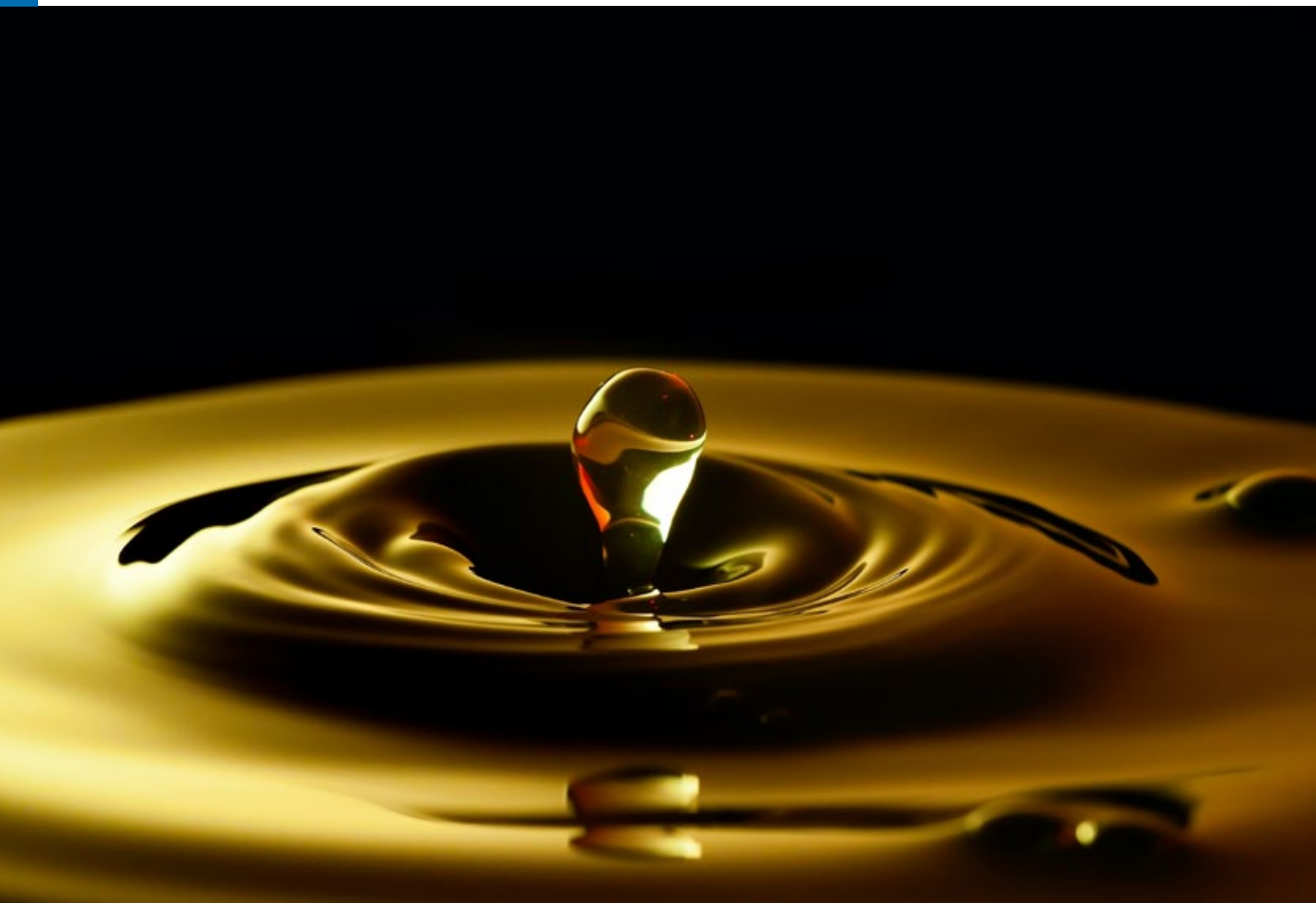


**Keep your industrial oils clean
with ANDRITZ separators**
to improve operations and save money



Keep your industrial oils clean with ANDRITZ separators to improve operations and save money

Industrial oils need to be kept clean at all times to avoid process malfunctioning and costly downtimes. Efficient cleaning of industrial oils also allows you to meet ever stricter environmental standards, cut disposal costs, improve operating conditions, and ultimately be more competitive on the market. With ANDRITZ separators, you can remove water and any solid particles present efficiently, boost the oil operating life, reduce costs, and increase production dramatically.

Removing water because ...

Industrial oils may be contaminated with water due to leakages and condensation, having several negative effects on the oil properties and on operations and performance overall:

- High-viscosity emulsions are created which have a damaging effect on mechanical parts, reducing the life cycle of gears, bearings, pumps, pistons, etc.
- Hard particles form due to oxidation of oils and additives
- Diminished oil lubrication properties/capacity
- Rust formation

ANDRITZ separators can separate water from oils in all concentrations. The separation process runs continuously, the oil is kept clean at all times and retains all of its original properties, and your equipment can run without any breakdowns because the water is removed constantly. Furthermore, the centrifugal separators only remove the water, but leave any additives in the oils.

Removing solid particles because ...

Industrial oils may be contaminated by solid particles coming from wear on metals, plastics, and rubber, as well as by paint

fragments and dust. These particles reduce the lubricating properties of the oils, thus increasing wear and causing equipment blockages involving costly downtime and maintenance work. A centrifugal separator is needed to remove particles of all sizes efficiently and economically. ANDRITZ separators keep operations running safely without unexpected breakdowns, removing solid particles with sizes down to 3 microns.

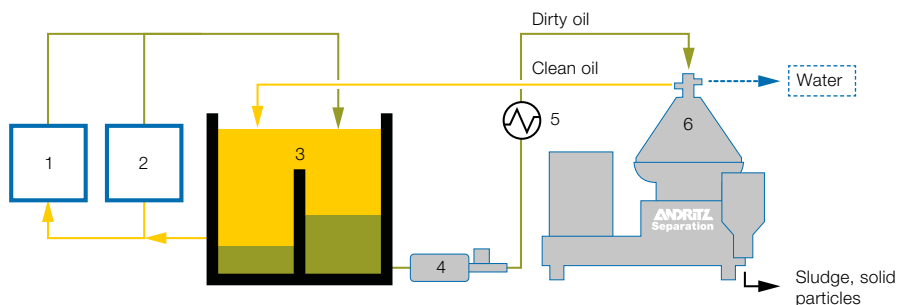
Why change?

ANDRITZ separators achieve better performance than alternative systems in removal of both water and solid particles. We provide a wide range of turnkey solutions, targeting all separation requirements and applications.

Your benefits

- Longer equipment lifetime
- Reduced oil consumption
- Improved and consistent end product quality
- Optimum performance with minimized footprint
- No operator supervision is needed thanks to the self-cleaning system
- Reduced downtimes and, therefore, increased production
- Continuous processing
- Healthier and cleaner workplace
- Reduced waste disposal costs
- No more filter cartridge consumption and disposal
- Reduced maintenance

	ANDRITZ separator	Traditional filtration system	Vacuum system
Flow rate	High	High	Low
Removal of both water and solids	Yes	No	No
Solids removal – min. size	3 µm	5 µm	NA
Free water removal	Yes	No	Limited
Emulsified water removal	Limited	No	Yes
Operating costs	Low	High	High
ROI	Short	Long	Long



▲ 1./2. Utilities, 3. Centralized tank, 4. Pump, 5. Electric heater, 6. Separator, purifier or clarifier version



▲ CA40 MO complete system

Fields of application

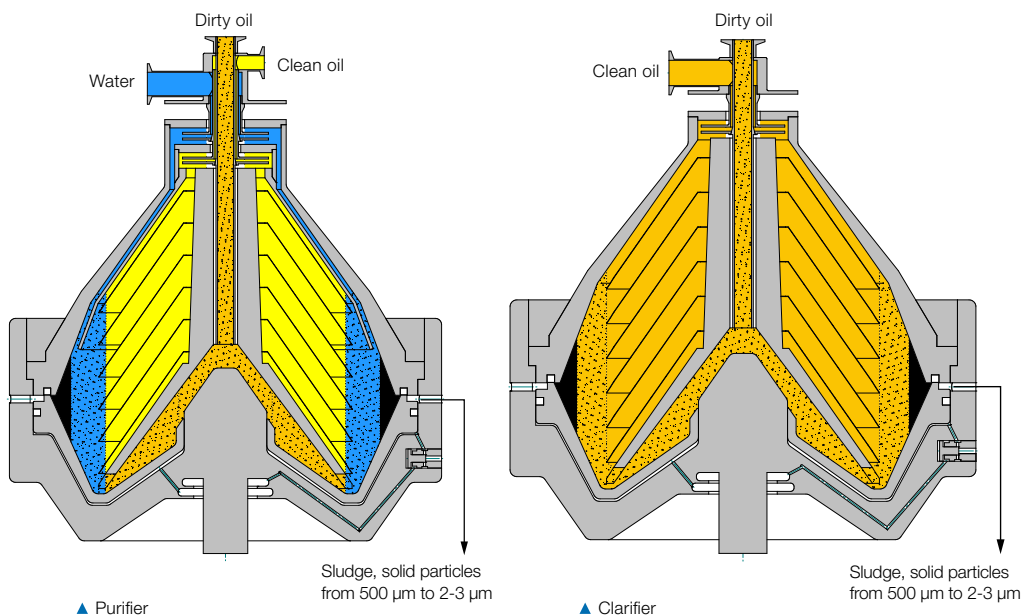
- Lubricating oils
- Hydraulic oils
- Quench oils
- Cutting oils
- Fuel oils
- Drawing oils
- Rolling oils
- Test bed oils
- Heat transfer oils

Scope of supply

- Skid-mounted separator, purifier or clarifier version
- Control panel
- Feed pump
- Electric heater
- Flow meter
- Sludge tank
- Sludge pump
- Piping
- Control valves
- Steel base where all components are pre-assembled and tested for plug and play

Optional feature

- Automatic pre-filter



▲ Purifier

Sludge, solid particles from 500 µm to 2-3 µm

▲ Clarifier

Sludge, solid particles from 500 µm to 2-3 µm

Separator type	Model	Flow rate (l/h)	Motor (kW)
Solid bowl	CN10 MO/PMO	300-800	1.8
Solid bowl	CN31 MO/PMO	600-1,800	4
Solid bowl	CN50 MO/PMO	3,000-7,000	1.1
Self-cleaning	CA21 MO/PMO	500- 2,000	5.5
Self-cleaning	CA40 MO/PMO	2,500-4,000	11
Self-cleaning	CA41 MO/PMO	2,500-4,000	11
Self-cleaning	CA70 MO/PMO	4,500-6,000	15
Self-cleaning	CA71 MO/PMO	4,500-6,000	15
Self-cleaning	CA151 MO/PMO	8,000-15,000	30

Note: Performance indicated may vary due to actual product viscosity, process temperatures, degree of contamination, and cleaning effort required.

What's your biggest separation challenge?



ANDRITZ SEPARATION is the world's leading separation specialist with the broadest technology portfolio and more than 2,000 specialists in 40 countries. For more than 150 years we have been a driving force in the evolution of separation solutions and services for industries ranging from environment to food, chemicals and mining & minerals.

As the OEM for many of the world's leading brands, we have the solutions and services to transform your business to meet tomorrow's changing demands – wherever you are and whatever your separation challenge.

Ask your separation specialist

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