siebec

DEDICATED EQUIPMENT

Machining & metalworking

Filtration, deoiling, treatment & recycling of fluids

Automatic fluid monitoring & correction station

Oil mist filtration

Dirt / solids vacuum cleaners

Versatile draining vacuums

Air treatment & filtration

Filter media

EN

MADE IN FRANCE

For over 60 years, it is at the heart of the French Alps that we have been developing solutions for the filtration, transfer and treatment of industrial fluids.

6 reasons to choose SIEBEC

Advice & expertise

Our experts guide you through the technical evaluation and improvement of your current setup.

Competitive pricing

Our management of the entire production cycle allows us to offer our products at highly attractive prices.

Quality control

Our filtration media are developed and tested in our laboratory to ensure optimal performances.

On-demand

Our design office is specialized in the creation of installations with the highest requirements.

Media analysis

SIEBEC LTS analyze your media and establish a filtration efficiency report thanks to a normalized bench test.

Express delivery

Many of our products are in stock and shipped within 48 hours. Spare parts shipped in 24 hours.

Filtration & treatment

Suction, draining & air filtration

Media & filtration treatments

MINIPURE

Filtration & deoiling of cutting fluids

Compact, this station offers continuous filtration of cutting fluids in order to maintain excellent machining properties.

Complete filtration
Removes microscopic particles, fines, solid particles and whole supernatant or emulsified oils from machine lubrication (case of soluble oils).

Protection of the machine tool
No risk of clogging the original filter, protection of the spindle rotating joints.

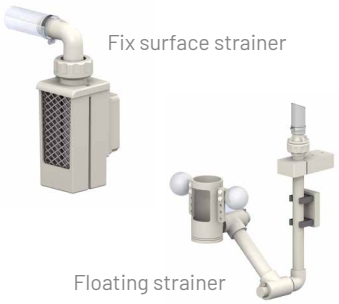
Excellent cutting parameters
Purified, particle-free oil and supernatant oil for optimal lubrication and cooling

Improved service life
Retention of fluid characteristics and increased cutting tool life.

Options
SAFTECH : dry run protection
Mobile cart or skid
Carterised station
Washing kit to clean the machine tank
Surface or floating strainer

Cutting fluid before and after filtration through MINIPURE™

Cart version of the MINIPURE™



Fix surface strainer

Floating strainer

Customized filtration: 5 interchangeable media on 1 to 3 tanks

FILTECH™
HighFlow pleated cartridge
Filtration from 1 to 100 µm
Washable & reusable
tool-less setup

BAGTECH™
Prefiltration bag
Filtration from 150 to 600 µm
Washable & reusable
tool-less setup

MAGTECH™
Magnetic filtration
5 kg of particles recovered
Easy setup & cleaning
From 3000 to 11000 Gauss

OILTECH™
Deoiling microfibers
High retention capacity
Hydrophobic fibers
500 g recovers up to 6 l of oil

WATERTECH™
Water absorbent
Removes water from whole oils

CENTRIPURE

Filtration of high pressure cutting fluids

Dedicated to the protection of the machine's central sprinkler and HP pumps, the CENTRIPURE guarantees 100% filtration. Its design allows to increase the lubricant capacity in a reduced space.

Increased capacity

From 250 to 2000 liters lubricant tank onboard depending on versions.

Temperature control

The COOLTECH™ option guarantees constant cutting parameters by maintaining the fluid at an optimal temperature.

Integration of HP pumps from the machine.

In order to reduce costs, we enable the installation of HP pumps from the machine directly onto the CENTRIPURE™.

Custom-made design.

Because our clients have different needs, we design CENTRIPURE™ following your specifications.

Belt filter

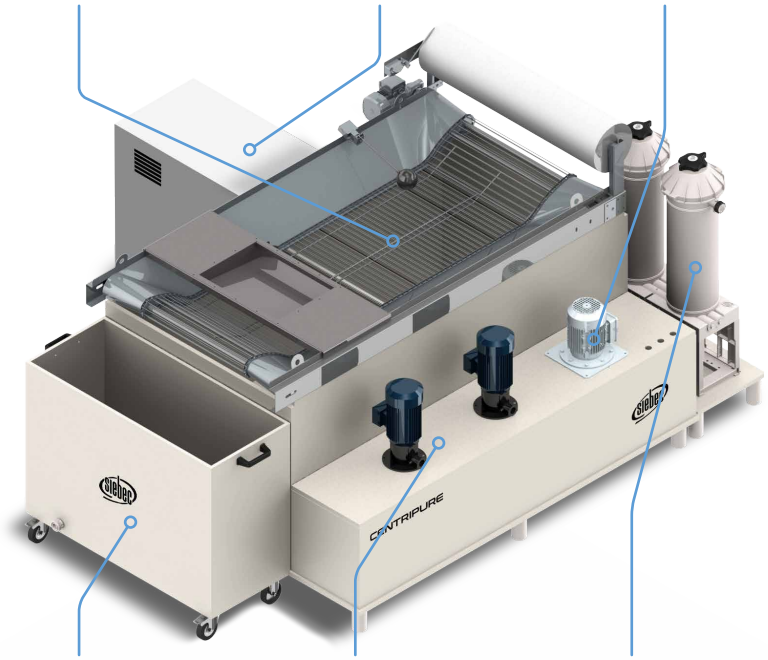
Separates sludge and chips from the cutting fluid (+ magnetic prefilter in option)

COOTECH™

Temperature control of the lubricant tank

Sprinkler pump

Lubrication & cooling of cutting tools



Drainage tank

Sludge and chips collection at the belt filter outlet

High-pressure pumps

Supplies water to the machine center

Double filter

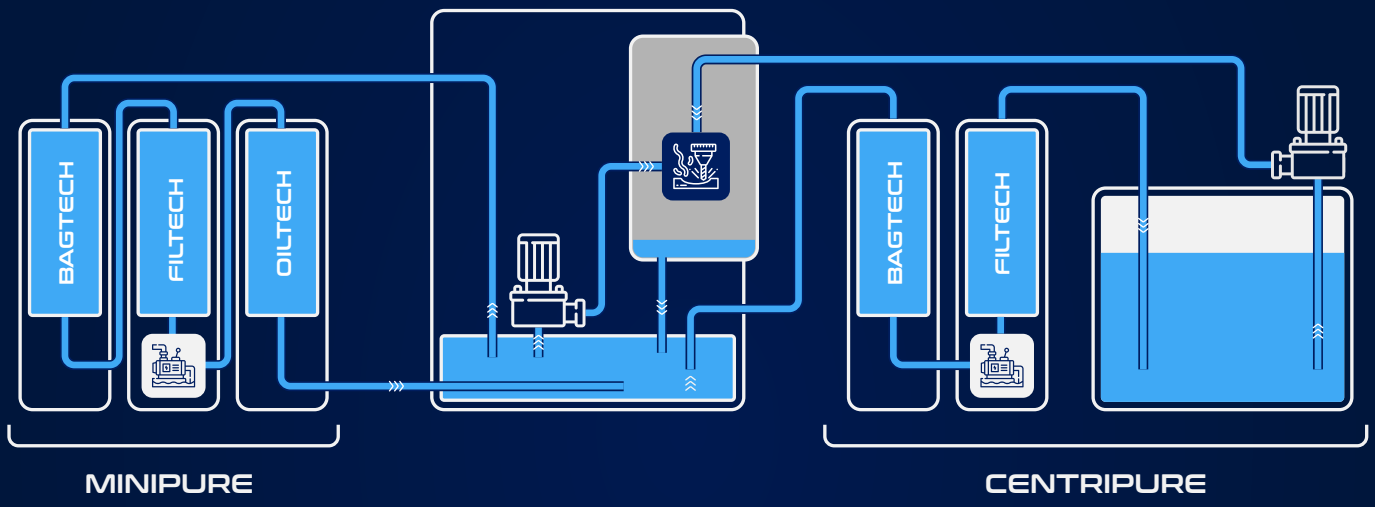
High efficiency fine filtration for HP circuit protection

Available in standard or with machine casing, CENTRIPURE™ is designed to fit clients needs.

CENTRIPURE™ with custom design to fit under machine-tool.

Radiaplates enabling temperature control of the lubricant tank (COOLTECH™ option)

How to chose? MINIPURE vs CENTRIPURE.



MINIPURE

The MINIPURE is the indispensable ally of your machine tool.

It allows to continuously clean the lubricant from the machine tank and to feed the spray pump with a filtered fluid free of particles and supernatant oils, ensuring excellent cooling and lubrication.

CENTRIPURE

The CENTRIPURE has its own 100% filtered cutting fluid tank (250 l or more) on which it is possible to install the HP machine pump directly.

In this way, the coolant in the center is supplied with a perfectly filtered fluid, protecting the rotating joints and preventing clogging of the tools.

It is also possible to graft a thermal block (COOLTECH™ option) on the tank of the CENTRIPURE™ in order to maintain the fluid at optimal temperature.

The CENTRIPURE can be modified to adapt to large volumes of chips and sludge by replacing the BAGTECH™ pre-filtration with an automatic belt filter upstream of the FILTECH high efficiency fine filtration on pleated cartridges.

OILMAX

Liquids deoiling

Ideal for removing large quantities of supernatant oil.

Excellent phase shifting

The optimized coalescence ensures efficient phase shifting for sensitive applications.

High capacity prefilter

BAGTECH™ technology combined with magnetic filtration MAGTECH™ to ensure high efficiency prefiltration.

Principle

The oil present in the liquid in the form of micro-droplets accumulates on the PP coalescing media, then migrates to the surface and is recovered.

Options

Programmer: automatic extraction
Mobile version with rolling cart
Floating skimmer for variable levels
Fixed skimmer for stable levels

Fix surface strainer

Floating strainer [Patented]

NANOREACTOR

Antibacterial treatment

Prevents bacterial growth within the fluid in order to preserve its properties.

Patented technology

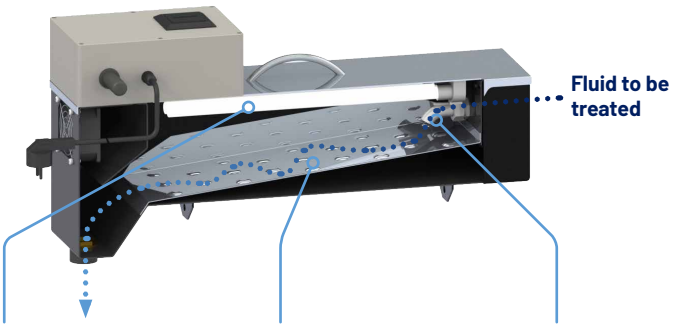
The gravity design allows efficient treatment of fluids, even turbid, without clogging the lamp.

Many benefits

Reduction of biocide needs, reduction of bacteria rate (3 log), elimination of bad smells, dermatitis...

Various applications

Swarf juice, washing water, tribofinishing machine effluents...



No contact between the UV lamp and the fluid

Easy to replace

Flow divider

Maximized bacteriological removal

Effective on turbid liquid

>50% transmittance

EASYMIX

Automatic monitoring & correction of cutting fluids

Capable of managing the parameters of 1 to 4 lubricant tanks

This intelligent station allows remote monitoring of the quality of cutting fluids and automatic correction of the soluble concentration.

The assurance of quality machining
Optimal concentration of soluble material. Perfect lubrication of cutting tools.

Maximum autonomy
Automatic monitoring and correction (soluble concentration, pH, temperature [option]) without intervention. Management of the lubricant tank level.

Personal space in the cloud
No need to go on site. 24/7 autonomy. Data history.

Characteristics
Time programmer (start and stop of operation or synchronization with the start of the plant).
Alarm settings (concentration, pH, temperature, filter clogging, level detection, ...).

Excellent phase shift
Transfer of data from the controller to a secure cloud server.
Real-time visualization of parameters on computer or smartphone.
Storage of the history.
Sending of email in case of anomaly (Text message option).
Data integration on local ERP (option).

THE KEYS OF SIEBEC KNOW-HOW

Accurate reading of lubricant properties, even over time

Automatic correction of soluble concentration

Management of lubricant level in the machine tank

Notification & follow-up via cloud application.

Visuals and data are indicative, not contractual

EASYPURE

Autonomous station for recycling fluids and treating effluents

Dedicated to the recycling of cutting fluids directly in the machine shop, the EASYPURE reduces the consumption of new fluid while preserving its original properties.

Recycled = saved
Reduces the cost of reprocessing used fluid, reduces the purchase of new fluid, increases the life of the fluid used.

Optimal properties
SIEBEC filtration ensures the elimination of particles and lubricating oils, while preventing bacterial growth.

Better for the environment
On-site reprocessing eliminates trucking and reduces new fluid consumption. Good for your carbon footprint!

Wide compatibility
Handles emulsions, micro-emulsions, synthetic and whole oils, chip juices...

Characteristics
Automatic and/or manual operation through the touchscreen interface.
Start and stop control or synchronization with the start of the plant.
Alarm settings (pH, temperature, filter clogging, level detection).

Applications
Recycling of cutting fluids
Treatment: tribo-finishing / vibro-abrasion water, washing machine rinsing water, penetrant cleaning effluents, degreasing baths...

1. Used fluid storage
Used chip juices and cutting fluids are stored in the 1000 l IBC. The fluid is then automatically transferred to the station in 500 l batches. Not enough to drain? Find out more about our vacuum dischargers on page 12.

2. Decanting
The fluid is transferred to the phase change tank. The lubricating oils are collected in the module (A) and the sludge and chips are transferred to a BigBag for disposal.

3. Filtration & de-oiling
Once sludge, chips and supernatant oils have been removed, the fluid receives a finishing treatment to refine its filtration and eliminate fine particles and traces of lubricating oil.

4. UV treatment
The regenerated fluid is stored in the final IBC where it receives continuous UV treatment to prevent bacterial growth. See NANOREACTOR™ page 6.

5. Regenerated Fluid
The fully regenerated fluid is ready to be transferred to the machine tool lubricant tank for a new life.

6. Finishing treatment (option)
The recycled fluid can be advantageously mixed with new fluid, and perfectly dosed using the EASYMIX automatic dosing station. Please contact us for more information.

QFAP / GKS / QLINOX / QPINOX

Centralized filtration & industrial applications

A wide range of housings for the filtration of your fluids in the workshop.

High performance filtration

FILTECH™ HighFlow pleated cartridges or BAGTECH™ bag.

Plant installation

Large capacity filters adapted to plant filtration.

Improved filtration

FILTECH™ high efficiency cartridges increase the quality of filtration at the belt filter outlet.

Advantages

Stainless steel design: can withstand high pressure and high temperatures.
Wide range of filtration media: bags, cartridges...
QLINOX™ and QPINOX™ housings are bag and cartridge compatible and can easily switch between the two media.

QFAP

GKS

QLINOX

QPINOX

Materials	304/316L stainless steel	304/316L stainless steel	316L stainless steel**	304/316L stainless steel**
Media	Bag	Cartridge (x1)	Cartridge (x1)	Cartridge (x4)
Height	Size 7 / 10 / 20	10" / 20"	20" / 30"	20" / 30"
Porosity (µm)	1 - 1500	0.5 - 100	1 - 100	1 - 100
Max flow rate (m^3/h)	-	-	50	250
Max pressure (bar)	10 (110°C)	80 (150°C)	10 (75°C)	7 (75°C)

* Other pressures available on demand
** Plastic versions (polypropylene and PVDF) available

ATMOS

Oil mist filtration

Provides a healthier working environment and recovers large amounts of cutting oil otherwise lost through evaporation.

Very high performance

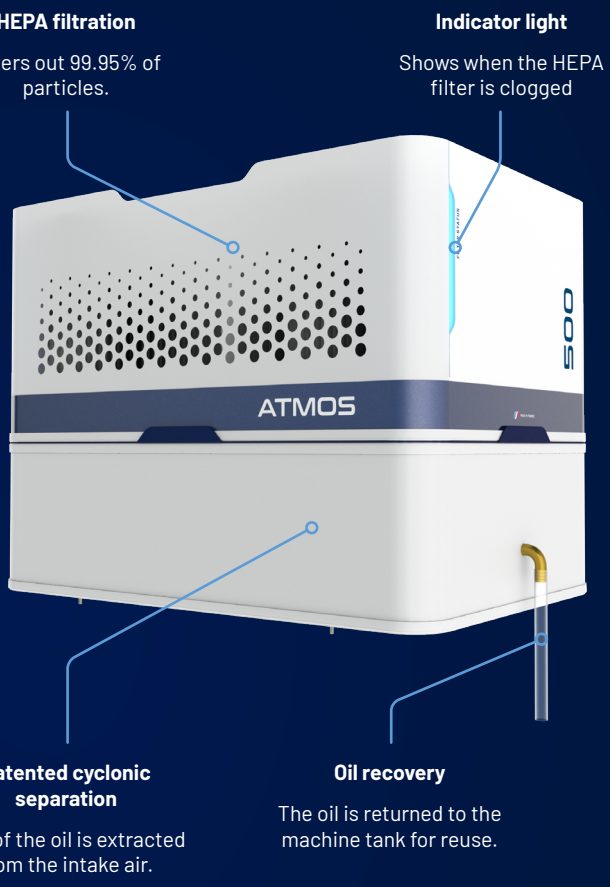
Cyclonic separation removes 90% of the oil in the intake air, with the rest collected by the HEPA filter.

Safe and healthy environment

The elimination of oil mist reduces health risks for operators due to prolonged contact with a contaminated atmosphere.

Lubricant savings

Cyclonic technology recovers 90% of the volume of oil lost through evaporation during machining and returns it to the machine tank.



Characteristics

Modular design: the ATMOS can be adapted to air flows from 500 to 2000 m3/h.
Exceptional efficiency: consumption less than 400 W per 500 m3/h module.
Cyclonic technology : 64 cyclones separate the oil from the air.
Minimal maintenance: the cyclonic separation efficiency significantly reduces the frequency of HEPA filter replacement.
Custom-designed fan wheel for optimum performance.
Ultra-quiet system.

A range to cover the needs of all types of machine tools from 500 to 2000 m3/h.

How to chose your industrial vacuum unit?

	APS	WINDVAC	OPTIMOIL TANKVAC SQ	OPTIMOIL HV TANKVAC HV	GOLDVAC
Dust (dry)	Yes	Non	Non	Non	Non
Dry chips	Yes	Non	Non	Non	Non
Lubricated chips	Yes Vol. solids > Vol. liquids (without separation)	Non	Yes Vol. liquids > Vol. solids (with separation)	Yes Vol. liquids > Vol. solids (with separation)	Yes (precious metals)
Machine tank emptying **Emulsions (with chips or sludge)** **Whole oils (with chips or sludge)**	Non	Yes (without separation)	Yes (with separation)	Yes (with separation)	Yes (precious metals)
Emptying clear water or detergents (non-foaming)	Non	Yes (with stainless option and low volume)	Yes (with stainless option and low volume)	Yes (with separation) ideal for vol. > 500 liters	-
Suction of lubricant retentions	Non	Yes	Yes	Yes	-
Suction of solvents, toxic products, hydrocarbons, flammable products or ATEX risk	Non	Non	Non	Non	Non
Deep suction	Yes (1,5 m (vacuum mode) Several meters (ventilation mode))	Yes (up to 6 m)	Yes (up to 4 m with TURBO™)	Yes (up to 5 m with TURBO™)	-
Discharge	Non	Yes (differed from the suction)	Yes (simultaneous to the suction)	Yes + high volume transfer MODE. MULTIPLE(	Yes (simultaneous to the suction)
SIEBEC fine filtration (at the outlet)	Non	Non	Option	Option	Yes (5 µm + 1 µm absolu)
Pre-separation (at the suction)	Non	Non	2000 µm metal basket (200 µm with bag)	2000 µm metal basket (200 µm with bag)	200 µm with bag
Primary filter unclogging	Semi-auto or cyclical automatic depending on model	Non	Non	Non	Non
Energy	Electric or pneumatic	Pneumatic	Electric	Electric	Electric
Pickable with forklift	Non	Yes	TANKVAC SQ	TANKVAC HV	Non
Towable	Non	Non	TANKVAC SQ (indoor floors)	TANKVAC HV (indoor/outdoor floors)	Non

APS

Dirt & solids industrial vacuums

Suitable for maintenance work and intensive continuous industrial vacuum applications, the APS combines power and robustness.

	102 M	350 D	303 ST	305	511 P	1000 BP	300 P50
Capacity (litres)	25	50	50	75	160	100	50
Power (kW)	2,2	3,3 bypass	3	5,5	11	4	-
Supply	230V Mono	230V Mono	400V x3	400V x3	400V x3	400V x3	Pneumatic
Air flow (m^3/h)	340	510	320	520	1040	2200	380
Max (-) pressure (mmH20)	2300	2300	2900	2900	2900	430	3800
Unclogging	Semi-auto	Semi-auto	Semi-auto	Semi-auto	Auto	Auto	Semi-auto

WINDVAC

Pneumatic draining vacuum

Powered by connection to the compressed air network, the WINDVAC excels in the suction of charged liquids with a maximum flow rate of 200 liters per minute!

	WINDVAC 3	WINDVAC 4	WINDVAC 7
Applications	Slightly loaded liquids	Slightly loaded liquids	Loaded liquids
Function	Suction only	Suction + discharge	Suction + discharge
Flow rate (l/min)	130	200	200
Discharge (l/min)	N/A	200	200
Air consumption (m^3/h)	45	42	42
Max (-) pressure (mmCE)	3200	4000	3800/7000

OPTIMOIL / TANKVAC SQ

Draining vacuum for machine lubricant tanks

Designed for emptying lubricant pans, the OPTIMOIL and TANKVAC SQ incorporate TURBO technology, which enables them to suck up both cutting oils and chips. The optional fine filtration at the discharge allows the fluid to be recycled directly.

In addition to the functions of the OPTIMOIL, the TANKVAC SQ is equipped with a 600 liter storage tank and an integrated sludge tank.

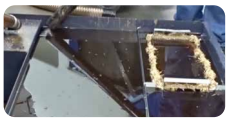
203M TC

SQ 604

TECHNOLOGY
TURBO®

WATCH THE VIDEO

This patented auto-adaptive multi motors technology is unique on the market. It enables the device to detect the suction context and automatically switch its motor settings to favor powerful vacuum (serial motors) or high flow rate (parallel motors). Thus, it works just as well on liquids as solids!



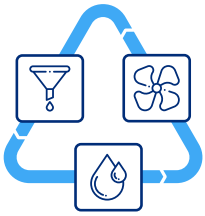
- **Vacuum (x2)**
  Liquids vacuuming (charged fluids, oils, sludge...)

- **Flow rate (x3)**
  Solids vacuuming (lubricated chips, dust...)

FILTRATION
FINE

The fine filtration (20 or 5 µm) integrated upstream the discharge port enables the direct reuse of the fluid into the process. Significant time & money savings!

The L-TECH™ cartridge has a very high filtration area (5 m^2) and is washable and reusable.



	OPTIMOIL				TANKVAC SQ		
	103 / 203 M TC	104 / 204	205	209	603M TC	604	605
Capacity (litres)	90 / 190	90 / 190	190	190	600	600	600
TURBO™ technology	Oui	Non	Non	Oui	Oui	Non	Non
Power (kW)	3,3	4	5,5	9,5	3,3	4	5,5
Supply	230V Mono	400V x3	400V x3	400V x3	230V Mono	400V x3	400V x3
Flow rate (m^3/h)	480	370	520	750	480	370	520
Max (-) pressure (mmH20)	3800	2900	2900	5000	3800	2900	2900

OPTIMOIL HV / TANKVAC HV

High volume draining vacuums

In addition to TURBO™ and FILTRATION FINE technologies, these units incorporate HV technology that transfers fluid at a rate of 250 l/min.

The TANKVAC HV has a storage capacity of 1,000 or 4,000 liters and is designed to easily navigate outdoor terrain.

203M TC

1205

Vacuum everything!

Chips and sludge are separated from the liquid by the pre-filtration basket.

Ultra-fast transfer

These units empty a 1000 liter IBC in only 4 minutes.

Instant recycling

The fine filtration at the discharge allows the fluid to be reused immediately.

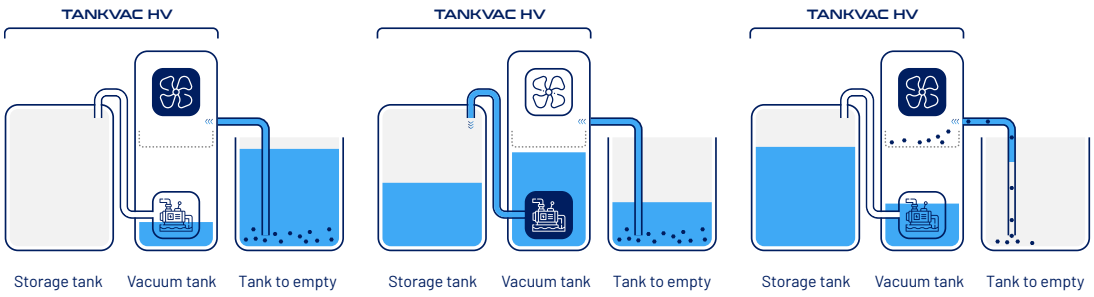
Wheels, cart or skid

Available in various versions to fit the context of each workshop.

TECHNOLOGY HV®

This patented SIEBEC SOFRAPER exclusivity allows ultra-fast transfer of liquids while guaranteeing complete cleanup of tanks, without any residues liquids nor solids.

WATCH THE VIDEO



1. Standard suction
Enables the filling of the vacuum tank in order to prime the transfer pump.

2. Transfer up to 250 l/min
Once the pump submerged, the high velocity transfer automatically switches on !

3. Tank bottom suction
Allows the vacuuming of liquids and solids remaining at the bottom of the tank.

	OPTIMOIL HV				TANKVAC HV		
	103 / 203 M TC	104 / 204	205	209	1203M TC	1205	1209*
Capacity (litres)	90 / 190	90 / 190	190	190	1000 / 4000	1000	1000
TURBO™ technology	Oui	Non	Non	Oui	Oui	Non	Oui
Power (kW)	3,3	4	5,5	9,5	3,3	5,5	9,5
Supply	230V Mono	400V x3	400V x3	400V x3	230V Mono	400V x3	400V x3
Flow rate (m^3/h)	480	370	520	750	480	520	750
Max (-) pressure (mmH20)	3800	2900	2900	5000	3800	2900	5000

** Also available in a 4211 version with a capacity of 4000 liters and a power of 11 kW.*

GOLDVAC

Precious metal recovery vacuum cleaners

The machining of precious metals generates very valuable chips. The GOLDVAC has been designed to recover them in the most optimal way possible, in order to simplify inventories.

Zero loss of precious metals

Double stage filtration on 20/5 µm calcinable cartridge then 1 µm absolute.

Simultaneous suction & discharge

Allows to reinject the sucked fluid directly into the lubricant tank.

Fast return on investment

The recovery of precious metals has a very high economic and ecological potential.

	103 / 203 M TC	104 / 204
Capacity (litres)	90 / 170	90 / 170
Power (kW)	3,3	4
Supply	230V Mono	400V x3
Flow rate (m^3/h)	480	370
Max (-) pressure (mmH20)	3800	2900

Available options for suction & draining units

Option	Description
Sludge tank (30 liters)	Separated collect of sludge and chips (3 m flexible included)
HP effect lance	Simplified cleaning of tanks
Prefiltration bag	From 2000 µm to 200 µm prefiltration
Fine filtration	Fine filtration at the discharge on 5 or 20 µm cartridge
Level indicator	Visual control of the content of the barrel
Stainless steel barrel	Ideal of corrosive and non-foaming washing products
Electrical cutoff float	Stops the motor for maximal safety
Removable pistol grip	Easier and faster transfer
IBC 1000 l kit	Connects the OPTIMOIL™ to a high capacity tank
Towing bar	Enable the unit to be towed for faster moving

Consult us to know the compatibility of these options with the various units.

ROLLAIR

Centralized vacuuming for dust, solids and lubricated chips

High-pressure suction particularly suitable for the suction of lubricated chips, dust and heavy particles with discharge of the collections into the waste disposal bin.

AIRLCEAN

Particles suction & air treatment

Collection, filtration and evacuation of smoke and dust directly from the workstation or in a centralized installation.

Several models
Mobile or wall-mounted
High suction power
HEPA filtration
Smoke / dust separation
Automatic unclogging

Setup
Centralized vacuuming
Work station vacuuming
Machine vacuuming

- ...

FILTRATION MEDIA

Filtration cartridge & baskets

A wide selection to answer all the needs of workshops.

QUALIBOB™™

Standard wound cartridge

- 1 to 200 µm
- Ø ext : 80 / 110 mm
- Cotton (140°C), PP (74°C)
- Depth filtration through thread winding on PP or stainless steel core

QUALITHERM™

Standard thermowelded cartridge

- 0,5 to 150 µm (nominal)
- PP (75°C), Nylon (120°C), PE (120°C)
- Powerful depth filtration thanks to the density gradient

QUALIMAX™

Activated carbon extruded cartridge

- Active carbon
- Ø ext : 63 mm
- Reduction of chlorine and smells

FILTECH™

Large filtration area pleated cartridge

- 0,2 to 100 µm (nominal & absolute)
- Ø ext : 180 mm
- PP (70°C), GF (90°C), PE (92°C), Nylon (92°C)
- Inward filtration
- Washable & reusable

SOLINOX™

Liquids, gas & vapor prefiltration cartridge.

- 5 to 350 µm nominal
- 316L stainless (300°C)
- Woven fabric onto cylindrical support
- Washable & reusable

STEELPORE™

Fine filtration cartridge

- 0,5 to 40 µm absolute
- 316L stainless (350°C)
- Pleated filter element made of porous sintered fibers
- Reusable

STAINLESS BASKET

Prefiltration basket

- 5 to 5000 µm
- 316L stainless
- Custom design to fit your machine

Bon à savoir.

Cette brochure ne référence pas tous nos médias de filtration.

N'hésitez pas à nous consulter pour des besoins spécifiques.

FILTRATION MEDIA

Filtration cartridge & baskets

A wide selection to answer all the needs of workshops.

QUALIPOCHE F

Felt bag

- 1 to 200 µm
- Ø ext : 88 - 260 mm
- PP (90°C), PES (130°C), Nylon (150°C), PTFE, Nomex®
- tool-less setup

QUALIPOCHE M

Monofilament bag

- 0,5 to 1500 µm
- Ø ext : 88 - 260 mm
- PP (90°C), PES (130°C), Nylon (150°C)
- Washable & reusable
- tool-less setup

MAGTECH™

Magnetic filtration

- 5 kg of particles removed
- Easy setup and cleaning
- 3000 to 11000 Gauss

PP MICROFIBERS

Deoiling microfibers

-
- 500 g collects 6 liters of oil
- Unlimited storage in a dry environment
- Safe to incinerate

BANDTECH™

Rolled media for belt filter

- Ultra-long lifespan
- Low pressure drop
- Good separation rate on fines
- Large volume in vacuum
- Depth filtration : thick media
- Progressive non-woven structure

PRESSTECH™

Filter press cloth

- Weight : 140 - 1000 g/m^2
- Air permeability : 2 - 1000 l/dm^2/min
- Sewing : simple / double / dot / welded
- Attach : VELCRO®, ties, holes, eyelets...
- Option : double bottom

TECHNICAL FABRIC

Centrifuge bags, and custom media

- Wide range of materials and porosity
- Custom-made
- Filter bags, panels and diaphragms
- Filter bags, panels and diaphragms
- Bags for spin-dryers

A question?
Need advice?
Our experts answer you.

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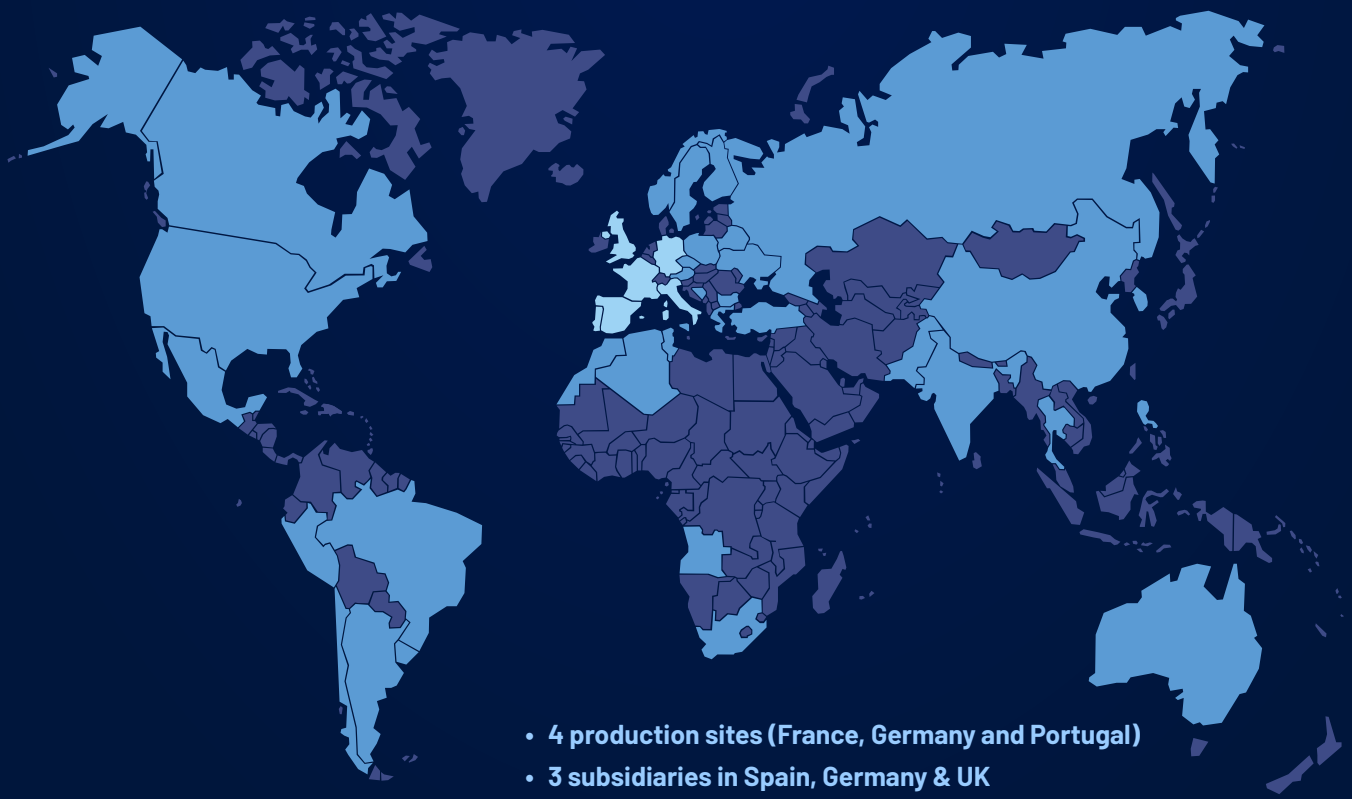
Discover SIEBEC Group



- **4 production sites (France, Germany and Portugal)**
- **3 subsidiaries in Spain, Germany & UK**
- **45 distributors across the world**

www.siebec.com

BROCHURE / MACHINING & METALWORKING / EN