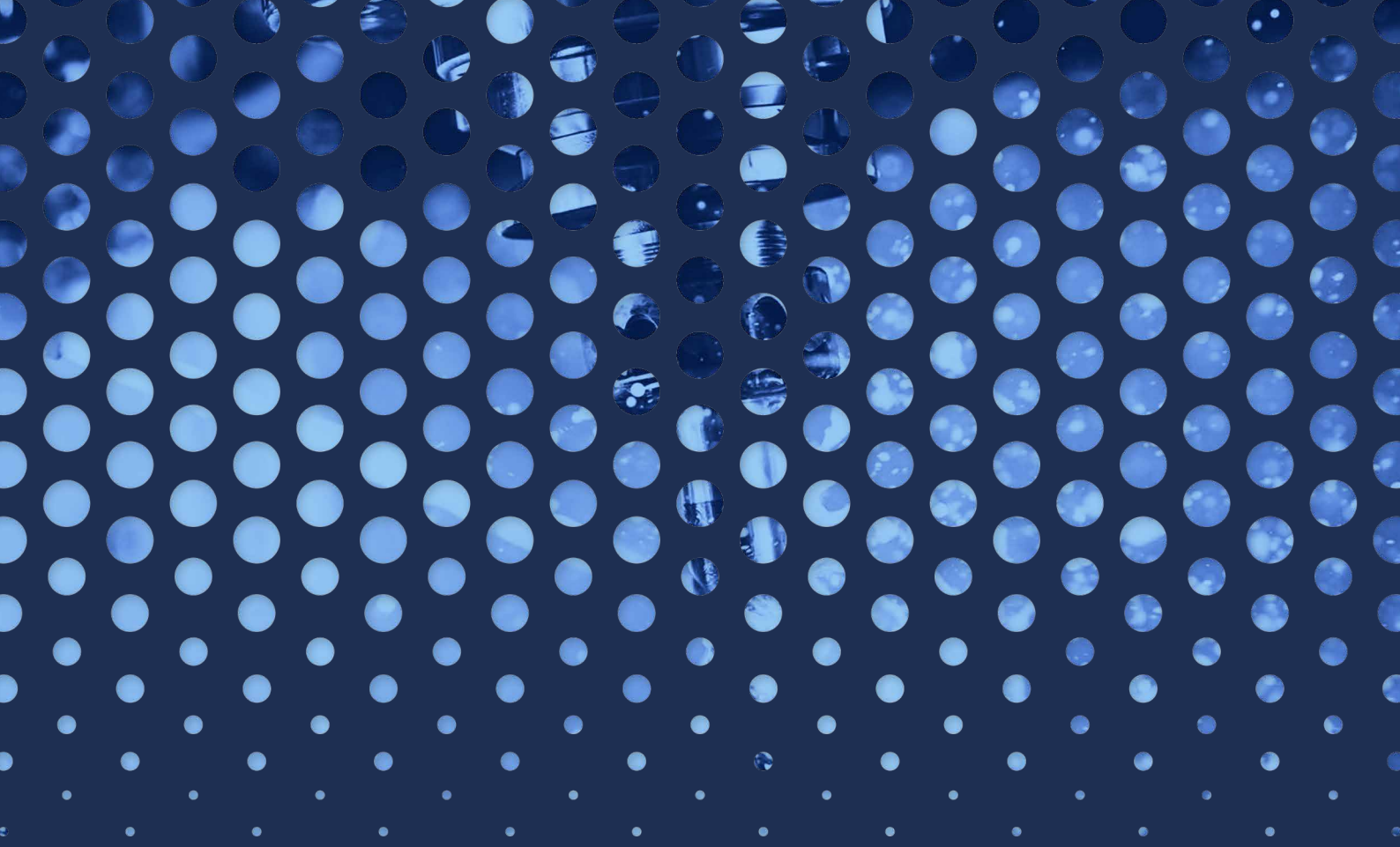


DEDICATED SOLUTIONS

Filtration & Cutting Fluid Treatment

Filtration and Treatment Solutions for Cutting Fluids
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

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, TRANSFER, TREATMENT & VACUUM

Filtration & treatment

Suction, draining & air filtration

Filtering Media

Visuals and data are indicative, not contractual

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).

Excellent cutting parameters

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

Protection of the machine tool

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

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™

Fix surface strainer

Floating strainer

Customized filtration: 5 interchangeable media on 1 to 3 tanks

FILTECH

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 HP

High-pressure coolant supply unit – booster

Principle

The CENTRIPURE HP is a compact high-pressure unit designed for machine tools, particularly small and medium-sized machining centers and lathes. This unit can also be configured to be supplied by an island or plant-wide filtration unit, allowing it to operate as a booster. It can be delivered with or without aesthetic casing, depending on production environment integration and design requirements.

Specifications

Flow rate (l/min)
20 - 50

Pressure (bar)
20 - 120

Emulsion or full oil
With or without additional buffer tank
Up to 4 controllable outlets
Dedicated lifting pump

Benefits

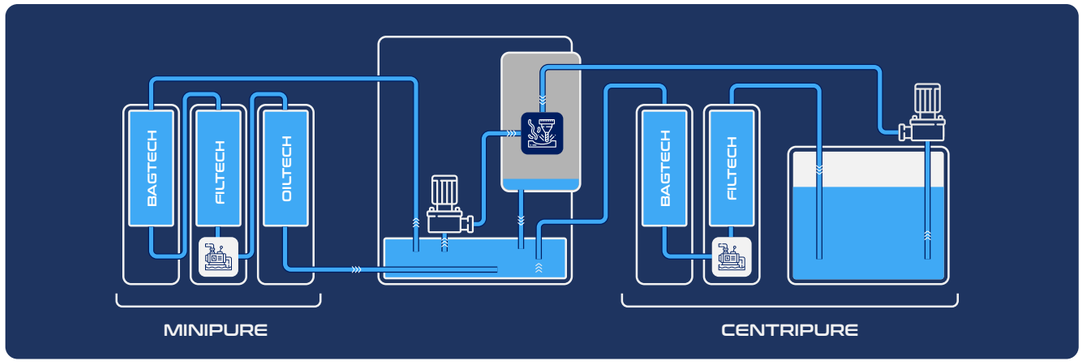
It filters the cutting fluid and supplies the machine under high pressure to significantly improve machining performance, tool life, and process stability—especially during deep drilling, heavy milling, or high-performance turning.

Configurable filtration system

Cartridge
FILTECH

Bag
BAGTECH

Filter media rolls
BANDTECH



PUMPING OF CONTAMINATED LIQUID

Lift tanks and pumps

Specifications

- Control possible with frequency converter and radar sensor (non-intrusive)
- Vertical or horizontal pumps
- Flow rate: Up to 2500 L/min
- Pressure: Up to 115 HMT
- Max chip weight percentage in fluid: up to 1.5%
- Full passage up to 80 mm
- High-strength materials

Options

- Dry running
- Cutter or grinder function
- Patented air degassing system

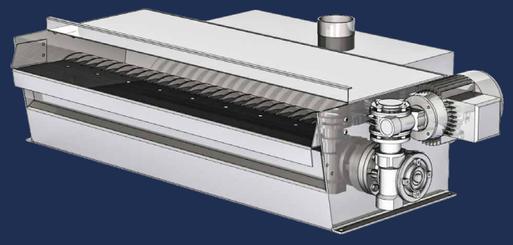
MAGNETIC SEPARATOR

Rotary disc drum

Disc magnetic separator with permanent ferrite magnets for a more robust construction.

Specifications

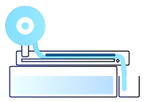
- Up to 1500 L/min in emulsion – 700 L/min in full oil
- Pre-filtration without consumables
- Removes 70% of the incoming load
- Can be used alone depending on application or upstream of a band filter



ROLL MEDIA FILTRATION SYSTEM

Flat gravity filter

Very attractive technical and economic ratio.

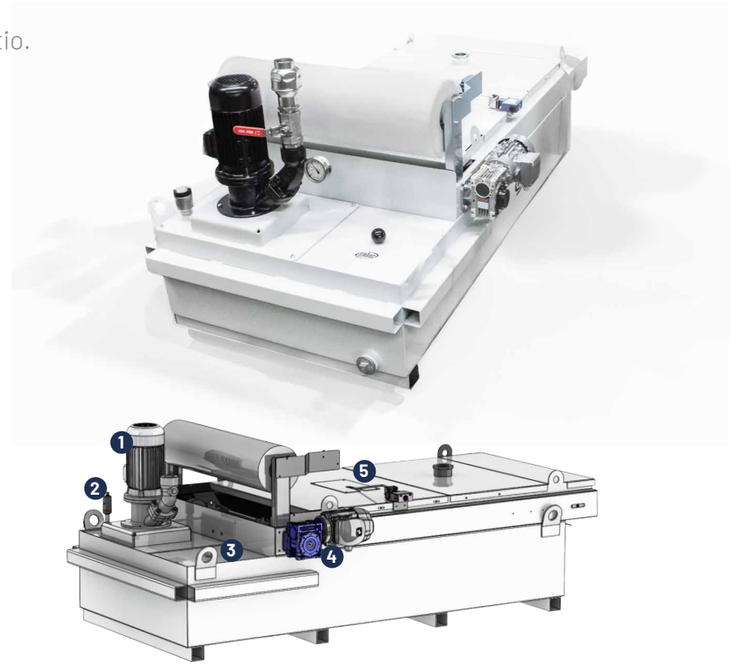


FLAT GRAVITY FILTER

Specifications

- Flow rate up to 500 L/min
- Standard or custom tanks
- With or without control electric cabinet
- All types of fluids
- Painted steel construction, stainless steel 304/316

1. Low and high pressure supply
2. Level sensor with float or radar
3. Inspection hatch
4. Media advance gear motor
5. Roll media filter



ROLL MEDIA FILTRATION SYSTEM

Hydrostatic belt filters

Deep bag filtration system with sealing belts.

HYDROSTATIC

Specifications

- Flow rate up to 2000 L/min
- Use of BANDTECH media with high filtration efficiency
- High incoming load possible
- All types of fluids
- Painted steel, stainless steel 304/316, and plastic construction

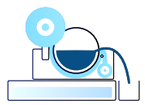
Benefits

- High natural pressure exerted by the weight of the liquid in the cradle
- Promotes the formation of a filtration "cake"
- Reduces consumption of the filter media

ROLL MEDIA FILTRATION SYSTEM

Compact drum belt filters

The perfect balance between flat gravity and hydrostatic filter with side flange sealing.



DRUM-TYPE COMPACT

Specifications

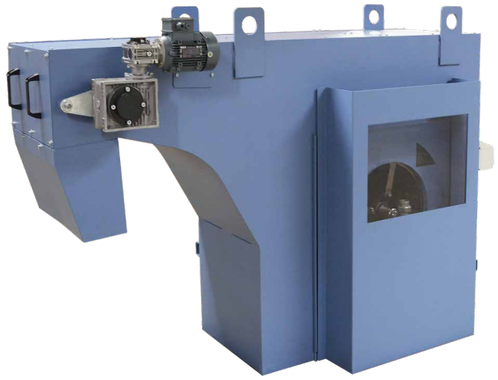
- Flow rate up to 1000 L/min
- Highly versatile
- Compact footprint
- Painted steel, stainless steel 304/316 construction

Discover our **BANDTECH** *media rollspage 24-25*

CONSUMABLE-FREE FILTRATION

Self-cleaning mesh filter

Automatic cleaning system with pressurized nozzle ramp fed by filtrate.



Principle

Filter without consumables, equipped with stainless steel mesh.

Specifications

Filtration (µm)

50 - 150

Optimized for soft metals

Particularly suited for machining aluminum and brass.

High and adjustable flow rate

Up to 1200 L/min per drum, combinable in a single housing.

CONSUMABLE-FREE FILTRATION

Centrifuge

Centrifugation system with manual or automatic sludge removal.

Principle

Separation of a solid phase from a liquid (emulsion or neat oil).

Filtration possible < 5µm without consumables.

Specifications

Drum volume (L)

max. 15

Separation factor (g)

1800

Emulsion flow rate (L/min)

max. 220

Designed for demanding materials

Ideal for glass, carbide, ceramics or mass finishing media.

Processing steps of a manual version

Step 1: Inlet & Distribution

The dirty liquid enters from the top and is evenly distributed in the bowl via a diffuser cone.

Step 2: Filtration

Under centrifugal force, particles stick to the bowl walls, forming sludge. The purified fluid flows out through a specific outlet.

Step 3: Cleaning

When cleaning is triggered, the centrifuge is slowed down, reducing centrifugal force. The liquid is drained via a lower outlet called the "leakage liquid."

Step 4: Draining & Removal

After the centrifuge stops, the operator can open and clean the bowl.

EASYMIX

Automatic monitoring & correction of cutting fluids

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

Capable of managing the parameters of 1 to 4 lubricant tanks

The assurance of quality machining

Optimal concentration of soluble material. Perfect lubrication of cutting tools.

Maximum autonomy

Automatic correction of soluble concentration, without manual intervention. Remote monitoring of temperature and pH. Management of the lubricant tank level.

Personal space in the cloud

No need to go on site. 24/7 autonomy. Data history.

Specifications

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

Cloud option

- 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.

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.

SPP STEP

Programmable dosing pump

Principle

Compact and easily integrable, the SPP™ STEP peristaltic dosing pump is ideal for intermittent dosing, ensuring maximum precision and superior reliability thanks to its advanced programming features and modularity.

Specifications

Flow rate (l/h)

1 - 28

Rotational speed (rpm)

65

Power (W)

20

Dosing precision

Ultra-precise programmable volumetric dosing, essential for high-precision machining applications.

Easy integration

Programmable and compact interface with direct 230V connection, ideal for adapting to existing systems.

Simplified maintenance

Intuitive interface and control options for continuous and uninterrupted operation.

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

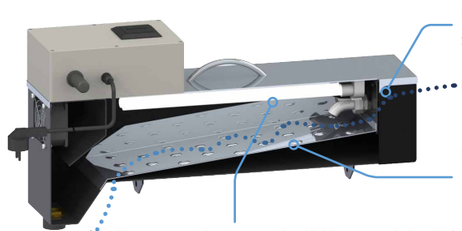
Fixed surface skimmer

Floating skimmer [Patented]

NANOREACTOR

Antibacterial treatment

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



Effective on turbid liquid

>50% transmittance

Fluid to be treated

Flow divider

Maximized bacteriological removal

No contact between the UV lamp and the fluid

Easy to replace

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...

COOLTECH

Cooling

Principle

Integration on spray units of a cooling circuit to maintain cutting fluid at a fixed or ambient temperature.

Technologies

- Chiller with direct expansion, tankless.
- Immersed coil chiller.
- Cooling plates

High-efficiency technology

Chilled water units with plate or tubular heat exchangers.

High cooling capacity

Up to 100 kW cooling capacity.

Custom-made

Technology optimization according to client requirements.

QFAP / GKS / QLINOX / QPINOX

Bag & cartridge filter housing

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.

QFAP

GKS

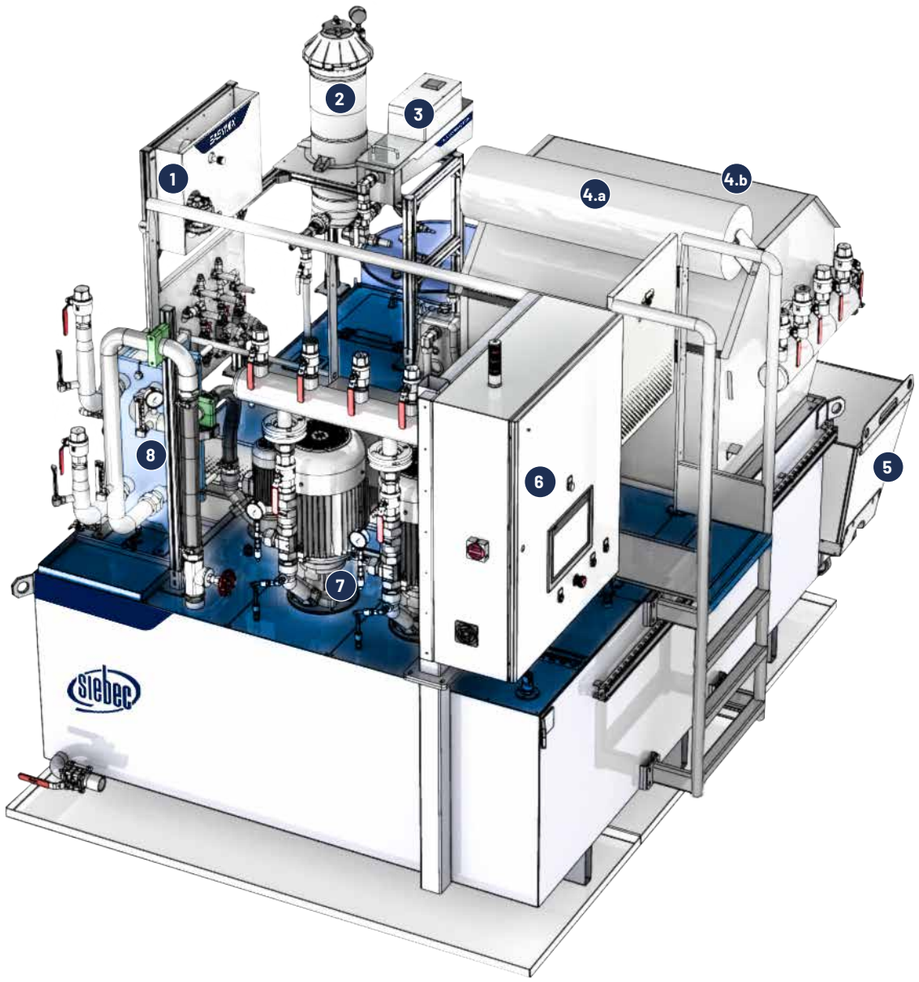
QLINOX

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

Design & custom projects



Technical solutions

1. **EASYMIX** : Analysis / correction of soluble concentration.
2. **FILTECH** : Fine filtration / **OILTECH** : Oil removal.
3. **NANOREACTOR** : Antibacterial UV treatment.
4.a **BANDTECH** : Filter media roll.
4.b Filter with rolling media (drum).
5. Used media recovery tank.
6. Automation 4.0
7. Low & high pressure watering, and frequency inverter (pressure regulation and energy savings).
8. **COOLTECH** : Maintaining cutting oil temperature.

Specifications

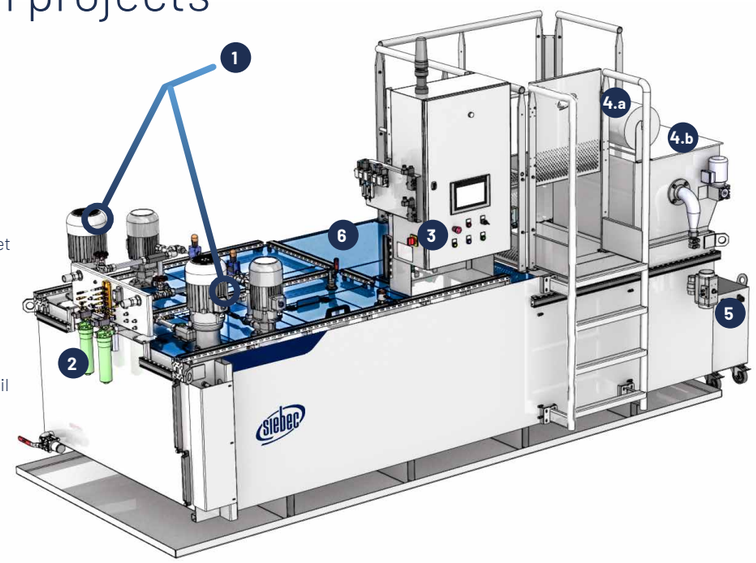
- Process: Milling + turning
- Machined material: stainless steel
- Number of connected machines: 4
- Lubricant: emulsion
- Flow rate: 480 L/min
- Pressure: up to 70 bars

CONTRACT REVIEWS

Design & custom projects

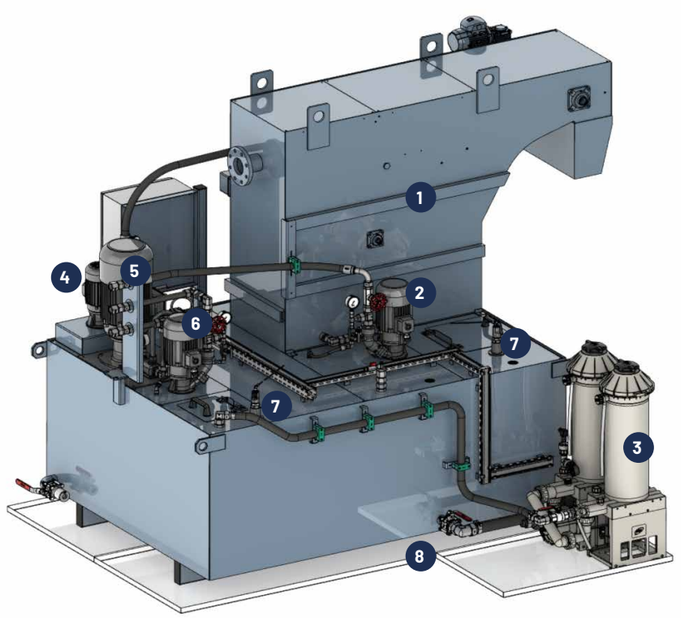
Technical solutions

1. Low & high pressure spray, and frequency inverter (pressure regulation and energy savings).
2. Safety sentinel cartridge filter.
3. Automation 4.0: IO-LINK protocol and Profinet communication.
4.a **BANDTECH** : Filtering media roll.
4.b Roll media filter (drum).
5. Waste media recovery tank.
6. Pre-arrangement **COOLTECH** / Immersed coil



Specifications

- Process: Gantry milling
- Machined material: Aerospace aluminum
- Number of connected machines: 1
- Lubricant: emulsion
- Flow rate: 200 L/min
- Pressure: 12 to 40 bars



Technical solutions

1. Rotary drum filter with permanent media (stainless steel mesh) at 50 µm
2. Low-pressure pump in the semi-clean compartment
3. **MINIPURE** unit for fine filtration **FILTECH** and oil removal **OILTECH**
4. Screen cleaning pump
5. HP pump 30 L/min at 80 bar with pressure regulation
6. Low-pressure pump in the ultra-clean compartment
7. KEYENCE radar detectors
8. Drip containment tray

Specifications

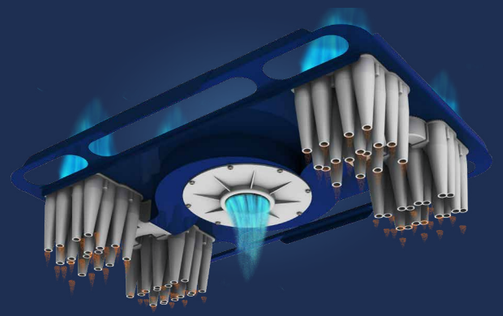
- Process: Large-scale turning
- Material: Aerospace alloys
- Number of connected machines: 1
- Lubricant: Emulsion
- Flow rate and pressure: 30 L/min at 80 bar and 2x 50 L/min at 6 bar

ATMOS

Oil mist filtration

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

SIEBEC PATENTED – EXCLUSIVE INNOVATION



HEPA filtration

Filters out 99.95% of particles.

Indicator light

Shows when the HEPA filter is clogged

Oil recovery

The oil is returned to the machine tank for reuse.

Patented cyclonic separation

90% of the oil is extracted from the intake air.

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 250 to 1500 m^3/h.
- Exceptional efficiency: 290 W per 500 m^3/h module.
- Cyclonic technology : 64 to 192 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.

ATMOS 64

ATMOS 128

ATMOS 192

Visuals and data are indicative, not contractual

How to choose your ATMOS?

	ATMOS 32	ATMOS 64	ATMOS 128	ATMOS 192
Effective airflow rate (m^3/h)	250	500	1000	1500
Power (W)	200	290	580	870
Power supply	230V single-phase			
Filtration technology	Patented multi-cyclone separation			
HEPA filter	Yes (HEPA 13 - 99.95% efficiency)			
Noise level (db(A))	66	68	69	70
Air inlet diameter (mm)	Ø97	Ø167	Ø167	Ø167
Dimensions (mm Lxlxh)	355 x 355 x 423,5	708 x 462 x 621	708 x 462 x 846	708 x 462 x 1061
Activated carbon container for HEPA filter	N / A	OPTIONAL	OPTIONAL	N / A
Activated carbon container volume (L)	N / A	30	60	N / A

ATMOS +

Oil smoke filtration

Special version designed for demanding applications when mist turns into oil smoke.

Principle

Standard machining conditions produce oil mist with droplet sizes considered medium to fine (a few µm). Certain machining conditions (high heating, full oil, very high pressure) cause very fine oil smoke (<1µm), resulting in rapid clogging of HEPA 13 filters.

A technical explanation of aerosol/droplet formation is available in our technical guide on the SIEBEC website:

https://www.siebec.com/en/products/oil-mist-purification/

Siebec therefore created a special + version integrating an intermediate filtration stage between the cyclones and the HEPA 13 filter. This intermediate stage captures large quantities of these very fine droplets and preserves the lifespan of the final HEPA filters.

This device is available on AT64+ and AT128+ models.

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...

Specifications

- 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...

Designation		Description
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 7.

Designation		Description
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.

Visuals and data are indicative, not contractual

EASYPURE CONTRACT REVIEWS

Custom design

Custom filtration unit : 3 filtration stages

1st stage :
The used emulsion, coming from machine drainings, is first directed to a 2,000-liter buffer tank. This first stage helps stabilize and prepare the fluid for subsequent treatments. A coalescence oil separator, equipped with a prefilter bag, then separates foreign oils present in the emulsion. This prefiltration also retains large chips, optimizing the effectiveness of the downstream treatment stages.

2nd stage :
The lubricant is then pumped to a conical trunk decanter, where the heaviest particles are separated by gravity. A recovery cart collects micro-chips and sludge, acting as a mechanical prefiltration stage. The clarified fluid is then finely filtered via the specific MINIPURE MP53 module, ensuring optimal quality before being transferred to the final storage compartment.

3rd stage :
Finally, the filtered fluids are stored in a final 2,000-liter tank. An integrated NANOREACTOR system provides continuous biological treatment, eliminating bacteria and ensuring the long-term chemical stability of the lubricant. At the same time, our intelligent EASYMIX module monitors the soluble oil concentration in real time and automatically adjusts the mix to maintain optimal parameters. At the outlet, a dedicated pump feeds the machine tanks with fully regenerated fluid, ready to be reused in the machining process.

Designation		Description
1	Emulsion to process	Retention up to 2,000 L
2	OILMAX (p.10)	Oil removal from liquids
3	Pre-filtration	Filter equipped with a PP OILTECH microfiber bag, allowing absorption of oils present in the liquid.
4	Oil separator retention	
5	500 L decanter	Containing the volume of emulsions to be regenerated
6	Electrical cabinet	Command and control of the system's proper operation
7	MINIPURE	Fine filtration and final oil removal before transfer to the final compartment

Designation		Description
8	Retention	The retention allows the full tank volume (500 L) to be contained in case of leakage
9	Agitator	Allows mixing of various effluents and products
10	Sediment collection cart	Composed of a filter bag
11	NANOREATOR	Antibacterial treatment of fluids
12	Tank 2,000 L + Retention	Before distribution in the workshop
13	Level control	Radar technology
14	EASYMIX	Automatic monitoring & correction of cutting fluids
15	Process pump	This pump allows autonomous feeding of machines.

Visuals and data are indicative, not contractual

Suction, draining & air filtration

How to chose your industrial vacuum unit?

	APS	WINDVAC	OPTIMOIL TANKVAC SQ	OPTIMOIL HV TANKVAC HV	GOLDVAC
Dust (dry)	Yes	No	No	No	No
Dry chips	Yes	No	No	No	No
Lubricated chips	Yes Vol. solids > Vol. liquids without separation	No	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)	No	Yes without separation	Yes with separation	Yes with separation	Yes (precious metals)
Emptying clear water or detergents (non-foaming)	No	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	No	Yes	Yes	Yes	-
Suction of solvents, toxic products, hydrocarbons, flammable products or ATEX risk	No	No	No	No	No
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	No	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)	No	No	Option	Option	Yes (5 µm + 1 µm absolute)
Pre-separation (at the suction)	No	No	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	No	No	No	No
Energy	Electric or pneumatic	Pneumatic	Electric	Electric	Electric
Pickable with forklift	No	Yes	TANKVAC SQ	TANKVAC HV	No
Towable	No	No	TANKVAC SQ (indoor floors)	TANKVAC HV (indoor/outdoor floors)	No

APS

Dirt & solids industrial vacuums

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

350 D 511 P

	102 M	350 D	303 ST	305	511 P	1000 BP	300 PSO
Capacity (l)	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 (m³/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!

WATCH THE VIDEO

	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 (m³/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

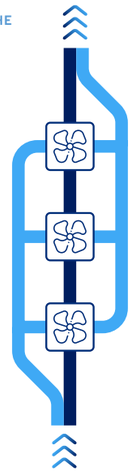
WATCH THE VIDEO

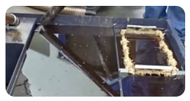
SQ 604

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 (l)	90 / 190	90 / 190	190	190	600	600	600
TURBO™ technology	Yes	No	No	Yes	Yes	No	No
Power (kW)	3,3	4	5,5	9,5	3,3	4	5,5
Supply	230V Mono	400V Tri	400V Tri	400V Tri	230V Mono	400V Tri	400V Tri
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

WATCH THE VIDEO

1205

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

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

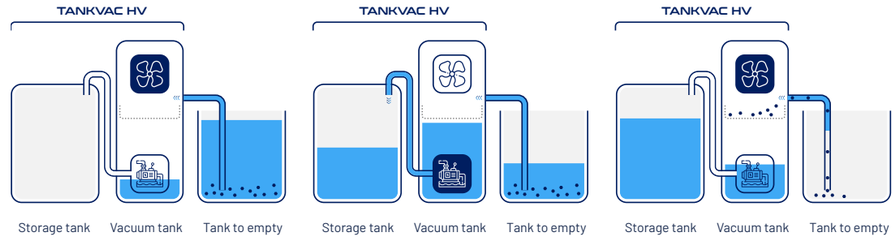
Ultra-fast transfer
These units empty a 1000 liter IBC in only 4 minutes.

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 (l)	90 / 190	90 / 190	190	190	1000 / 4000	1000	1000
TURBO™ technology	Yes	No	No	Yes	Yes	No	Yes
Power (kW)	3,3	4	5,5	9,5	3,3	5,5	9,5
Supply	230V Mono	400V Tri	400V Tri	400V Tri	230V Mono	400V Tri	400V Tri
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.

203M TC

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 (l)	90 / 170	90 / 170
Power (kW)	3,3	4
Supply	230V Mono	400V Tri
Flow rate (m³/h)	480	370
Max (-) pressure (mmH20)	3800	2900

siebec SOFRAPER

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.

AIRCLEAN

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
...

siebec SOFRAPER

BANDTECH

Filter media rolls

A wide range of materials and weights, specifically developed for belt filters, ensuring effective filtration and optimal purity for industrial liquids.

Optimize your industrial filtration processes with a full range of filter media rolls.

Designed to deliver performance suited to various environments, these media are available in a variety of materials and specifications to meet the specific requirements of each application.

TECHNOLOGIES

- GRAVITY FLAT
- HYDROSTATIC
- COMPACT DRUM
- PRESSURE BELT
- VACUUM BELT

NON-WOVEN FILTER MEDIA AND WEIGHTS

VISCOSE
25 | 35 | 50 | 65 g/m²

VISCOSE / POLYESTER
50 | 66 | 90 g/m²

THERMALLY BONDED POLYESTER
25 | 32 | 50 | 70 g/m²

NEEDLE-PUNCHED POLYESTER
80 | 100 | 150 | 300 g/m²

POLYPROPYLENE
30 | 50 | 70 | 100 g/m²

Reliable filtration of impurities and solid particles in all types of fluids

PROCESS TREATMENT

Emulsions (soluble oils)

Filtration of emulsions to remove particles and ensure the efficiency of cooling and lubrication systems.

Whole oils

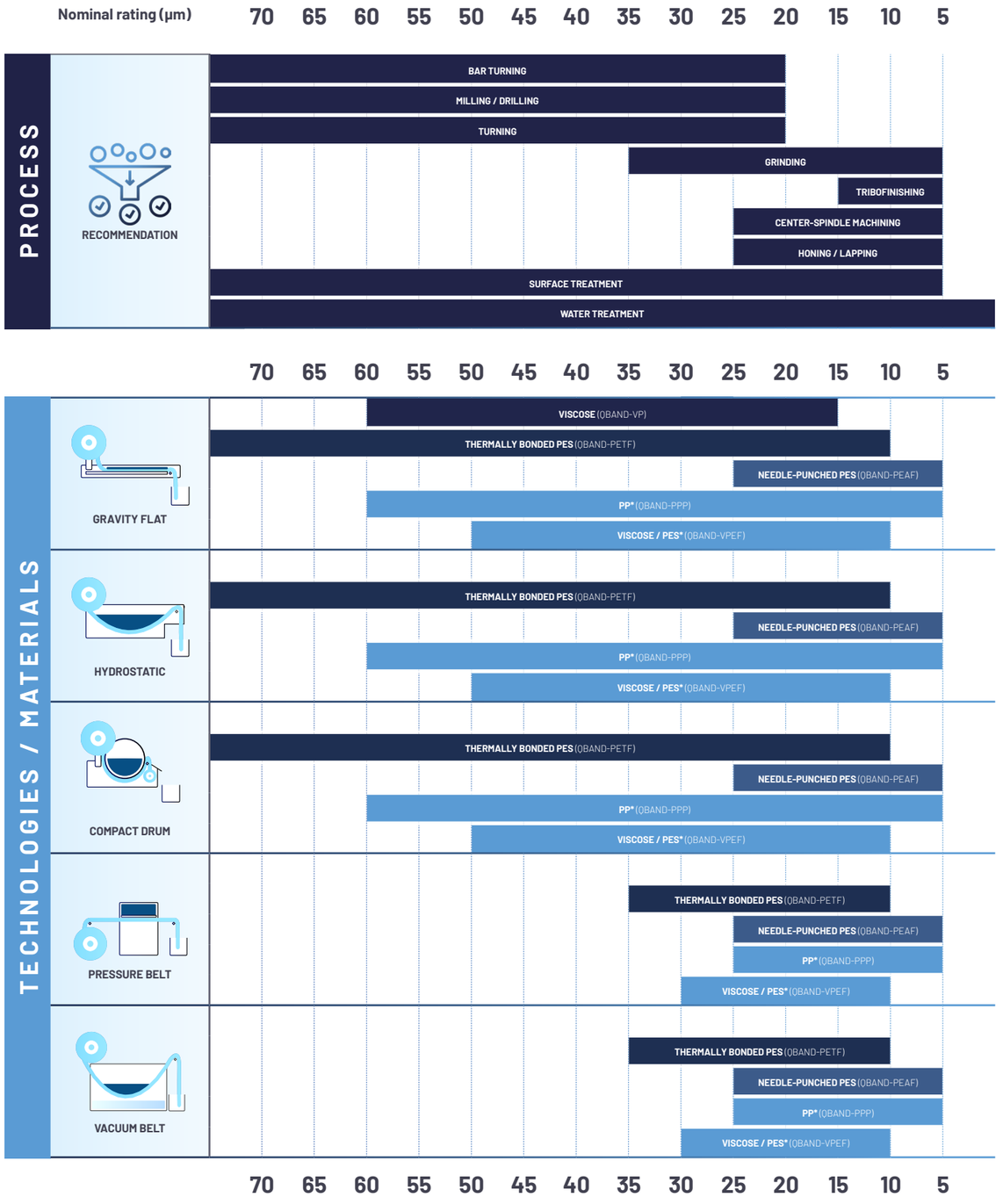
Specialized filtration to remove metallic residues and maintain process efficiency.

Washing baths, electroplating and phosphating

Filtration to preserve the quality of surface treatments and extend equipment life.

SEE PAGE 6, GRAVITY CENTRAL PLAN

How to choose the right filter paper for your industrial process?



FILTRATION MEDIA

Filter Bags

High-quality and high-finish filter bags

Our range is divided into several families including standard, high-capacity, and high-efficiency bags.

Felt and high-efficiency bags are 100% welded to guarantee the best filtration performance. This construction provides a real improvement compared to sewn bags. The sewing process generates holes within the media and injected rings, causing preferential flow. Conversely, complete welding ensures a 100% tight seal between the media and rings, with no bypass.

The laser cutting process of the media eliminates any risk of contamination. Unlike electric scissors cutting, the laser cauterizes the cutting edge, preventing the fabric from fraying. This technology is perfectly suited to all filter media.

SIEBEC has developed a complete range of injected plastic rings, enabling perfect retrofitting with the biggest brands on the market. We will always find a compatible ring for your existing installation.

ADVANTAGES

Custom manufacturing • OEM

FILTRATION THRESHOLD

0.5 to 1500 µm

PARAMETERS

Size • Materials • Porosity • Type of ring

Chemical Compatibilities

	Polypropylene	Polyester	PTFE	Nomex®	Nylon
Alkaline	+++	-	+++	+++	+++
Acid	+++	+++	+++	+	-
Oxidizer	-	+++	+++	+	+
Solvent	+	++	+++	+++	++
Tmax(°C)	90	140	260	200	120

+++ Excellent | ++ Good | + Fair | - Non-compatible

Ring Shapes

PROFILE 1 | PROFILE 2 | PROFILE 3 | PROFILE 4 | O-RING

Available Sizes

Code	Diameter (mm)	Length (mm)
10	180	450
10W	180	450
20	180	820
20W	180	820
30	260	860
40	260	1070
03	95	230
04	107	230
05	110	230
07	95	385
08	107	385
09	110	385
X100	152	510

FILTRATION MEDIA

Filter Bags

A wide range of technologies for demanding applications

STANDARD BAGS

F

FELT
PP / PE / PTFE / Nomex®
1 - 200 µm
Ø ext : 88 - 260 mm

M

MONOFILAMENT
PP / PE / Nylon
Washable & reusable
1 - 1500 µm
Ø ext : 88 - 260 mm

HIGH-CAPACITY BAGS

ULD

EXTENDED LIFE
Thick PP/PE Felt
1 - 100 µm

MULTI

MULTI-LAYER
PP/PE Felt
1 - 200 µm

SPECIAL

OIL

OIL ABSORPTION
Felt + Microfibers
0.5 - 3 µm

MAGNETIC

MAGTECH

MAGNETIC FILTRATION
5 kg of particles captured
Easy assembly & cleaning
Power 3000 to 11000 Gauss

HIGH-CAPACITY BAGS

HE20

HIGH EFFICIENCY 95%
Meltblown PP
1.5 - 32 µm

HE100

HIGH EFFICIENCY 99%
Meltblown PP
1 - 10 µm

HE5000

HIGH EFFICIENCY 99.98%
Meltblown PP + Nanofibers
0.5 - 3 µm

QUALI-PLEATED-BAG

PLEATED BAG

HE1000

HIGH EFFICIENCY 99.90%
Meltblown PP / PE / GF
0.5 - 90 µm

Visuals and data are indicative, not contractual

FILTRATION MEDIA

Filter cartridges

WOUND CARTRIDGE

QUALIBOB

PRE-FILTRATION
Wound yarn, PP / Stainless steel core
1 - 200 µm

THERMOWELDED CARTR.

QUALITHERM

PRE-FILTRATION
PP / PE / Nylon
0,5 - 100 µm

CARBON CARTR.

QUALICARB C

CHLORINE & ODOR REDUCTION
Carbon
5 µm

MAGNETIC ROD

QUALIMAG

REMOVAL OF METALLIC PARTICLES
Stainless steel 304L / 316L
3800 - 11000 gauss

CARTRIDGE

QUALIPLIS

LARGE FILTRATION SURFACE
PP / GF / PE
0,5 - 90 µm

CARTRIDGE

QUALIPORE DEPTH

HIGH THICKNESS
PP / GF / PE
0,5 - 90 µm

FINE FILTRATION CART.

STEELPORE

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

PLEATED CARTRIDGE

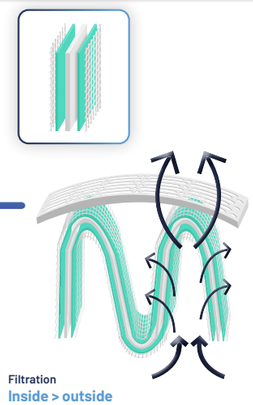
FILTECH

LARGE FILTRATION AREA
PP / GF / PE / Nylon
0,2 - 100 µm

HIGH-FLOW CARTRIDGES

QUALI-HIGH-FLOW

HIGH-FLOW PLEATED CARTRIDGES
PP / PE
0,2 - 100 µm
20" / 40" / 60"



HIGH-FLOW MEDIA COMPOSITION

External structure
Reinforced injected cage for optimal rigidity and easy removal, even after clogging

Filter media
The filter media is the layer that ensures the filtration threshold (filtration efficiency). Special care is taken to select the most effective media

Supports (x2)
The supports protect the filter media during the manufacturing process and offer pre-filtration to increase the cartridge's retention capacity

Drainage grids (x2)
Drainage grids allow flow without pressure loss and ensure even distribution over the entire filtration surface

FILTRATION MEDIA

Filter baskets, absorbents, filter fabrics & wire meshes

CELLULOSE & WOOD FLOUR

CELLULOSE & WOOD FLOUR
Filtration additives for so-called "precoat" filtration systems.

DEOILING MICROFIBERS

INCINERABLE MICROFIBERS, SAFE FOR DISPOSAL
Unlimited storage in a dry environment. 500 g collects 6 liters of oil.

ABSORBENT BOOMS

ABSORBENT BOOMS FOR ALL LIQUIDS
PP
Surrounds, contains and absorbs.

ABSORBENT SHEETS

COMPATIBLE WITH ALL LIQUIDS
PP
Single or double thickness. Available in pre-cut rolls.

FILTER PRESS CLOTH

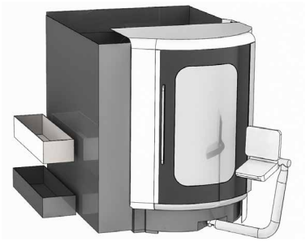
PRESSTECH

FILTER PRESS CLOTH
Sewing : simple / double / dot / welded.
Option : double bottom
Attach : VELCRO®, ties, holes, eyelets...
140 - 1000 g/m²

CENTRIFUGE BAG

BAGS FOR SPIN-DRYERS
Wide range of materials and porosity.
Filter bags, panels and diaphragms.

MACHINE TANK BAG



SOCK IN MACHINING TANK
Option to include drawstrings or zipper closure for easier handling during retrieval.
0,2 - 100 µm

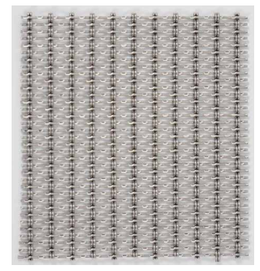
FILTER BIG BAG

SLUDGE FILTRATION
PP felt / PE
1 - 200 µm

PREFILTRATION BASKET

316L STAINLESS BASKET
Custom design to fit your machine.
5 - 5 000 µm

METAL MESH



STAINLESS STEEL MESH
Custom design to fit your machine.

Air filters

Media rolls

Ideal for protecting electrical cabinets, motors and compressors.

Dedicated application

Pre-filtration for the protection of key components present in the metallurgical industry. To be cut from the roll or ordered in custom sizes.

Media	Fiberglass; Polyester
Maximum temperature in continuous service	110º C (polyester media) 120º C (fiberglass)
Type	Packaged in rolls or pre-cut format
Efficiency EN779:2012	G2, G3, G4, M5
Recommended final pressure drop	150 Pa
Dimension	Format: All sizes available Roll: Width 1m / 2m - Length 20m

Filter classification

Filter class	G1	G2	G3	G4	M5	M6	F7	F8	F9
Category	Coarse				Medium		Fine		
Average Retention (AR) of Synthetic Dust (%)	50 < AM < 65	65 < AM < 80	80 < AM < 90	90 < AM					
Average Efficiency (AE) on 0.4 µm Particles (%)					40 < EM < 60	60 < EM < 80	80 < EM < 90	90 < EM < 95	95 <EM
Minimum Efficiency on 0.4 µm Particles (%)							35	50	70

Filter categories

G filters : Coarse

They serve as pre-filtration of air intakes: they stop dust, hair, insects, ashes... These filters protect the ventilation system as the first barrier against perceptible particles.

M filters : Medium

They serve to refine filtration as they stop pollen, smoke, and finer dust particles.

F filters : Fine

They meet even stricter standards as they ensure filtration of very fine particles, VOCs, mold, bacteria.

H filters : Absolute

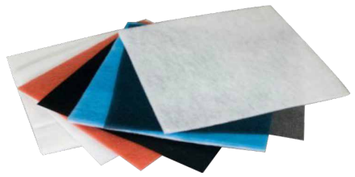
For specific applications, especially in air exhaust inside the workshop close to the operators.

Visuals and data are indicative, not contractual

FILTRATION MEDIA

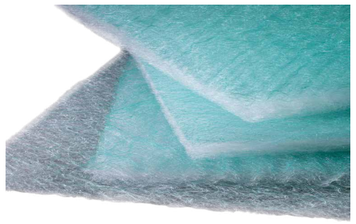
Air filters

FILTRATION MEDIA



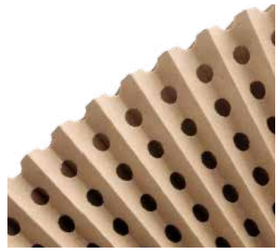
PRE-FILTRATION
Available in rolls, cut pieces, usable for flat and pleated filters...
PES

FILTRATION MEDIA FIBERGLASS



PRE-FILTRATION & PAINT BOOTH EXTRACTION
Improved dust capture capacity thanks to deep filtration.

PLEATED CARDBOARD FOR PAINT BOOTH



FOR SOLVENT-BASED AND WATER-BASED PAINTS
Used for overspray filtration in paint booths and spray gun applications.
Retention capacity : 5 à 18kg/m²

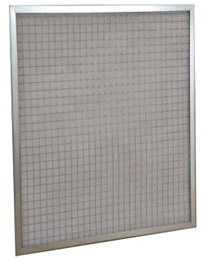
METAL FILTERS

PRE-FILTRATION
Washable filters generally used for high-temperature processes. Galvanized, stainless steel.

GALVA PLEATED FILTER PLG

PRE-FILTRATION
Thermally bonded PES fibers.
Disposable or rechargeable pleated filter.

GALVA FLAT FILTER PJG



PRE-FILTRATION IN AIR HANDLING UNITS
Disposable flat filter.
Thermally bonded PES fibers /FV

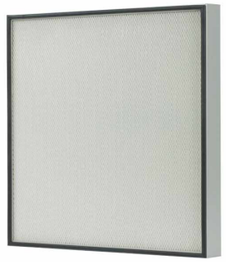
GRAVIMETRIC MULTI-POCKET FILTER

HIGH-EFFICIENCY MULTI-POCKET FILTER
Pre-filtration in air handling units.
PES

POLYHEDRON FILTER WITH METAL FRAME

POLYHEDRON MINI-PLEAT HIGH EFFICIENCY
Terminal filtration.
Galvanized steel frame.
FV

HEPA PANEL FILTER



HIGH-EFFICIENCY MINI-PLEAT FILTERS
Terminal filtration.
Galvanized steel frame.
FV

Visuals and data are indicative, not contractual

A question?
Need advice?
Our experts answer you.

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