



Cosmetics & personal care integrated solutions



About Coperion cosmetics & personal care solutions

Coperion is a global industry and technology leader in specialized solutions and integrated systems for the health and nutrition industries.

Our Health and Nutrition (H&N) experts develop and produce systems, technologies and components for the cosmetics, personal care, pharmaceutical, and nutraceutical industries. Coperion's H&N technology brands - DIOSNA, Gabler Engineering, Kemutec, K-Tron, Unifiller, and VMI - deliver industry-leading solutions built on decades of global expertise.

We offer comprehensive solutions for cosmetics and personal care products including lotions, creams, mascara, foundation and powders.

For the cosmetics and personal care markets, we offer comprehensive technology solutions for a variety of products including lotions, creams, mascara, foundation and powders.

We accompany you from the receipt of your raw materials and active ingredients, through R&D testing and pilot-scale trials, providing equipment tailored to your specific manufacturing needs. This allows cosmetic companies to reliably scale up from laboratory formulations to full production while maintaining quality, safety and efficiency at every stage.

Coperion employs more than 5,000 people with over 50 sales and service companies worldwide.

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Why choose Coperion?

Versatile options

Various processing technologies and integrated solutions for solid and liquid products.

Single source supply

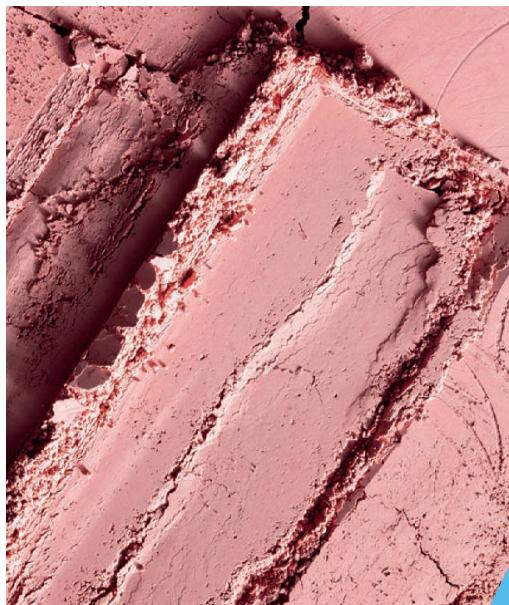
Full system design for peace of mind – from R&D to production processing.

Specialized engineering teams

Ensure the design is focused on safety and efficiency.

Reliable processing

Coperion unites renowned application experts and equipment providers, offering a comprehensive suite of solutions for all your cosmetic processing needs.



Formulations & products

Our cosmetic technologies are equipped with advanced features designed to ensure precision, quality, and consistency.

From makeup and skincare to hair and body care, we support the manufacturing of products that help people look and feel their best. Whether it's a smooth texture, a fresh scent, or visible results on skin and hair, our solutions help shape the beauty and well-being experiences that inspire confidence every day.





Products

Make-up

- Mascaras
- Lipsticks
- Makeup powders (eye shadow, foundation, etc.)
- Nail polish

Hygiene

- Makeup remover
- Toothpaste
- Gel, soap
- Deodorant
- Mouthwash

Skin Care

- Creams & ointments
- Oils, milk, scrubs, gels
- Hands – Face – Feet
- Hyaluronic acid

Hair care

- Shampoos & conditioners
- Mousses
- Masks
- Lotions, creams
- Gels, oils
- Hair dyes & bleaches

Perfumes

- Perfume
- Eau de toilette
- Cologne

Inflammable gels & lotions

- Hair styling products (lotions, hairsprays, shine sprays)
- Deodorants & antiperspirants
- Cleaning sprays

Formulations & products



Processing solutions for all cosmetic and personal care formulations.

From liquids to powders, every cosmetic form comes with its own challenges – and opportunities. Our expertise spans the full spectrum of cosmetic formulations.

We provide solutions that ensure consistent quality, strict GMP compliance, and precise control over formulation attributes such as viscosity, texture, and color.

Our mission:

To deliver formulations that combine technical performance with consumer appeal, stability, effectiveness, and a unique sensory signature.

Product consistencies from liquid to viscous, pasty, mousse and powder based solid products

Liquids consistency:

Liquid/liquid mixing

- Dilution, homogenization: perfumes, serums, makeup remover
- Emulsification: cosmetic milks, lotions

Pasty consistency: Highly viscous/thick products

- Mixing of liquid/solid with high proportion of powders for products like toothpaste, masks, ointments

Viscous consistency:

Liquid/solid mixing

- Dissolution: perfumes, gels
- Suspension: gels, shampoos, pigments

Complex/highly viscous consistency: Liquid/solid mixing

- Emulsification/gelling/ homogenization & high viscosity: cosmetic creams, mascara, foundation

Moussy consistency:

Liquid/solid/gas

- Incorporation of air or application of shear to reduce bubble size for products like shaving foam, hair mousse, body mousse etc.

Powder based, solid consistency:

- For solid cosmetic and personal care products, toothpaste, mask, and peeling inclusions



Cosmetic process excellence & quality

Cosmetic formulation is a highly precise process that transforms raw materials into high-quality products.

From the introduction of raw materials to the final product, every step is carefully controlled to ensure consistency, stability, and efficacy. Our comprehensive approach guarantees that each product meets the highest standards of safety and performance.



Raw material handling and preparation

- Storage:** Ingredients are stored under controlled conditions to preserve quality (temperature, humidity, light exposure)
- Preparation:** Raw materials are weighed, sieved, or pre-treated before being introduced into the formulation
- Dosing:** Accurate measurement of each component ensures proper formulation and repeatability

Mixing & homogenizing

- Wide variety of processes for liquid to semi-solid products: dilution, dissolution, suspension, homogenization, dispersion
- Simple agitation and complex processes requiring multiple mechanical and physical effects
- Triple-agitation technology allows efficient mixing of challenging formulations
- Wide variety of processes for semi-solid to powder-based solid products: powder mixing, blending, granulating, drying, extruding, and pelletizing

Air incorporation & deaeration

- Air incorporation creates light textures in foams and mousses
- Degassing under vacuum removes trapped air, preventing defects in the final product

Thermal control

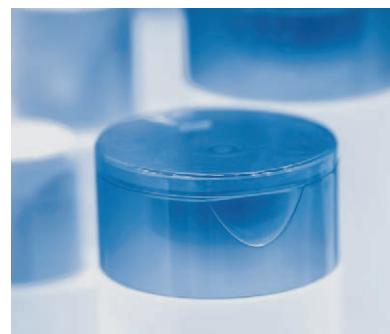
- Melting of waxes and fats ensures homogeneous blending
- Controlled cooling stabilizes emulsions, gels, and creams while preserving texture

Cleaning and sterilization

- CIP (Clean-in-place) and SIP (Sterilization-in-place) guarantee equipment is free from contaminants, ensuring product safety



Quality, traceability & controlled environment



Producing excellence requires outstanding process control.

- **Repeatability**

Every batch meets strict specifications to ensure consistent quality, texture, and performance

- **Cleaning and sterilization**

CIP and SIP procedures maintain the highest hygiene standards

- **Traceability**

Every ingredient, step, and batch is fully documented for compliance and safety





Cosmetic manufacturing demands rigorous attention to repeatability, traceability, and cleanliness.

Our technologies are designed to meet the strict requirements of controlled environments. Cleanrooms are equipped with precise specifications for:

- Materials and surfaces used in construction
- Temperature and humidity control
- Air quality management
- Regular maintenance and monitoring

By carefully managing every stage, from raw material introduction, storage, preparation, and dosing, to dispersion, mixing, thermal control, and sterilization, we ensure each cosmetic and personal care product achieves the highest level of excellence in quality, safety, and performance.



Our specialized engineering teams ensure our technologies meet all hygiene and safety guidelines and restrictions.

Processing liquids

We cover multiple applications such as: Liquid, semi-liquid, viscous, and semi-solid products like creams, gels, lotions, shampoos, and toothpastes.

Cosmetics and personal care products are designed to interact with the body in specific ways, and many parameters must be carefully controlled depending on the intended effect – whether to hydrate, protect, provide anti-aging benefits, enhance, highlight, mask imperfections, add volume, or cleanse.

Formulations can be complex depending on the desired effect. Ingredients, mixing tools, processing conditions all influence the stability, safety, and effectiveness of the final product. Choosing the right process and technologies is essential.

We offer entire integrated systems – everything from a single source.



Liquid mixing: Diluting, dispersing, homogenizing & emulsifying

Our laboratory and pilot range is designed for maximum versatility, ideal for trials, formulation development, and small-batches.

Our mixers can handle a wide range of raw materials and rheologies, allowing you to explore different processes with precision. They are perfect for experimenting and fine-tuning formulations before scaling up.

Laboratory trials



VMI Turbotest



VMI R51



VMI Ultralab



Benchtop mixers			
Models	Turbotest®, Turbotest Up	R51, R51E**	Ultralab®
Scale	Lab scale	Lab scale	Lab scale
Capacity (in litres)	0.25-20	4.5	0.5-3
Benefits & properties	Diversity of mixing tools, mixer covering a wide range of containers/ beakers, ergonomic design and intuitive touchscreen interface with 2-3 user modes, reproducibility of process parameters	Planetary mixer, versatility with 3 interchangeable tools; robust, safe and hygienic design, can be equipped with heating unit and vacuum pump	Double agitation options located peripheral and central, thermal regulation options allow cooling/ heating, application of vacuum/ pressure, touchscreen interface

** E variant contains frequency converter



Pilot production

VMI
Planetary
Mixer



VMI Vacuum
Homogenizer
Trilab



Pilot mixers		
Models	PH DT, PH Digy	Trilab
Scale	Small-batch	Pilot scale
Capacity (in litres)	10-80	10-50
Benefits & properties	3 interchangeable tools, compact and ergonomic design, intuitive touch screen interface (Digy version), easy cleaning, preset and programmable speeds	
	3 independent coaxial agitation movements, scalable pre-production vacuum mixer, intuitive touch screen interface, data logging for traceability	



Liquid mixing: Diluting, dispersing, homogenizing & emulsifying

For full production, our mixing solutions focus on efficiency, traceability, and large-scale output.

Equipped with vacuum, heating/cooling, and clean-in-place (CIP) systems, our solutions ensure smooth operations and deliver consistent, high-quality products at scale.

Production mixers

VMI Mobimix



VMI Phebus



VMI Ultimix



Production mixers			
Models	Mobimix, Telescopic Mobimix	Phebus	Ultimix
Scale	Production scale	Production scale	Production scale
Capacity (in litres)	10-2000	80-200	200-600
Benefits & properties	Mobile, liftable mixer; great versatility, ideal for pre-mixes, touchscreen interface for easy set up of parameters, wide range of tools, safe design, integration possible, into Atex environment	Compact and ergonomic planetary mixer, 3 interchangeable tools, Digi touchscreen for programming, removable mixing bowl on wheels	High output planetary mixer, wide variety of interchangeable tools, operates under vacuum or pressure, optional integrated CIP intuitive touchscreen interface or HMI



Turnkey mixing solutions



Integrate Trimix mixers, melters, and multiple production tanks into a single, seamless mixing solution



Turnkey mixing solutions	
Models	Trimix
Scale	Production scale
Capacity (in litres)	150-10000
Benefits & properties	High-performance vacuum homogenizer for production, 3 independent, complementary stirring movements, clean-in-place (CIP) system or sterilization-in-place (SIP), thermal regulation, vacuum/pressure and vacuum introduction of raw materials into the emulsifier or via open tank/ open



Liquid feeding

In applications where liquids need to be fed, pumps and tanks are combined to provide controlled liquid feeding.

Loss-in-weight liquid feeders on high accuracy load cells provide accurate continuous gravimetric flow control of liquids. Heated units can also be provided if material viscosity is an issue or for feeding temperature-sensitive materials. Depending on the application requirements, additional equipment such as mixers can be supplied as well. Liquid feeders are suitable for many different industries and prove their reliability in daily use when feeding pastes or liquids into the production process.



Coperion Liquid loss-in-weight skid, Model K-ML-SFS-P-7.5L



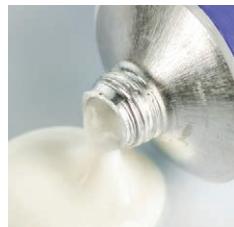
Liquid loss-in-weight (LIW) feeders		
Models	LIW KML-P, SFS-P, D5-P Liquid Feeder Mini	Feeder skids
Scale	Lab scale	Lab scale, production scale
Capacity (in litres)	7.5	<300
Benefits & properties	Specialty design high accuracy liquid loss-in-weight feeders, can be designed for a wide variety of viscosities and liquid properties, ideal for metered liquid addition to mixers, extruders, granulators	



Liquid material transfer

Efficient production environments require gentle material handling to ensure reliable ingredient transfer, smooth operation and consistent results.

Transfer pumps provide compact and economical solutions for creams, lotions and other liquids without compromising quality or consuming valuable production space. Products can be pumped directly from bowls, totes or pails with precision and ease which minimizes manual intervention. Easy integration with depositors allows for automated dosing and filling.



Unifiller
iPump transfer pump



Unifiller
iSpot compact series depositor



UJ unifiller

	Pumps
Model	iPump Transfer Pump
Scale	Production scale
Capacity (litres/min)	20
Benefits & properties	Our compact transfer pump, the iPump quickly transfers products without sacrificing quality or production space

UJ unifiller

	Depositors	
Models	iSpot Depositor	Compact series depositor (Tabletop), Compact series depositor (Mobile/Powerlift)
Scale	Production scale	
Capacity (deposits/min)	60	80
Benefits & properties	Draw and portion smooth products directly from a bowl or pail for a no-mess depositing machine	The Compact is a production workhorse with a wide deposit range, able to meet versatile depositing needs. It can be fitted with many accessories and attachments customized

Processing solids

Solid forms are widely used in the cosmetics and personal care industries.

This includes powders, granules, and (micro)pellets. When choosing a process and technology, several aspects must be considered. The characteristics of the targeted intermediate and final products are crucial for the desired quality, quantity, safety, and efficacy.

We accompany you on every stage, from R&D to production – with their expertise and our integrated system solutions.

Our Coperion process experts for:

- Ingredient handling
- Material handling
- Pneumatic conveying
- Dispensing & feeding
- Mixing & homogenizing
- Granulating
- Drying
- Extruding
- Spheronizing
- Coating

We offer entire integrated systems – everything from a single source.



Solid feeding

Accurate powder feeding is essential for consistent and efficient processes.

Whether handling fine, floodable, cohesive, or free flowing materials, our wide range of feeding technologies ensures flexibility and precision. Options include screw and vibratory feeders, and weigh belt systems, available in various volumetric or gravimetric configurations to create the optimal solution for any application. All systems deliver repeatable accuracy, from lab to production scale. Additionally, a special line of screw and vibratory feeders has been developed specifically for the strict hygiene requirements of applications in the cosmetics and personal care industry.

K-Tron Twin screw microfeeder



K-Tron Twin screw feeders



	Twin screw feeders	Screw feeders
Scale	Lab scale - production scale	Production scale
Benefits & properties	Volumetric or high accuracy gravimetric feeding, continuous, even mass flow with minimal pulsations, screw filler gently moves bulk material to the throat and into the feed screws, drive assembly completely enclosed in SST housing, modular design	Quick and easy disassembly for service and maintenance



Note: Actual feed rates depend on individual material characteristics and screw type. At higher screw speeds a poorly flowing powder will not achieve the full throughput possible with a free-flowing material due to reduced degree screw fill. Also the screw type (concave, auger, spiral, double auger) impacts the feeding rate.



K-Tron
Receiver
& feeder



K-Tron
Loss-in-
weight
vibratory
feeder



Vibratory feeders

Scale

Lab scale - production scale

Benefits &
properties

Volumetric or high accuracy gravimetric feeding, continuous, even mass flow with minimal pulsations, PH-V200 hygienic tube tray has no corners and is easy to clean, tray access for cleaning through ferrule clamps, drive assembly completely enclosed by hygienic silicone cover, lower maintenance requirements due to the absence of mechanical wear parts, modular design



Solid mixing, granulating & drying

Homogeneous mixing of solid mixtures in high-shear mixers (HSM) ensures uniform distribution.

By spraying liquid onto solid mixtures, the granulation process, in either a HSM or a fluid-bed granulator, transforms dry powder into free-flowing, stable granules with improved handling e.g. controlled-release properties. Drying, such as in fluid-bed or single-pot systems, gently removes residual moisture while preserving product integrity. These scalable processes, easily transferable from lab to full production, and ensure an efficient and consistent product quality.



DIOSNA Laboratory high-shear mixer granulator



DIOSNA Vacuum high-shear mixer granulator



	Pharmaceutical (P) high-shear granulators (HSG)
Models	P1 - P1250
Scale	Lab scale - production scale
Capacity (in litres)	0.25 - 1350
Benefits & properties	High efficiency thanks to fast mixing times with maximum quality and optimum homogeneity for difficult mixtures

	Single Pot - HSG & Vacuum dryer (VAC)
Models	VAC10 - VAC1250
Scale	Lab scale - production scale
Capacity (in litres)	2 - 1200
Benefits & properties	Wet granules are produced and then dried under vacuum, stripping gas (compressed air or nitrogen) can be added and finely distributed while drying, mixing tool is equipped with a wall scraper



DIOSNA Minilab rapid change (RC) modular laboratory processor fluid bed module



DIOSNA Universal mixer



	Fluid bed processors
Models	Minilab RC, Midilab RC, CAP150 - CAP1250
Scale	Lab scale - production scale
Capacity (in litres)	1 - 1350
Benefits & properties	Remote maintenance access, Extensive batch data acquisition and documentation, Mini and Midilab module exchange to coater

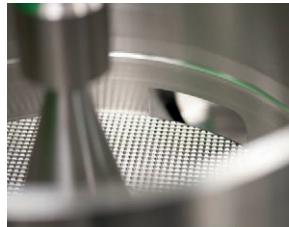


	Universal mixer granulators
Models	V10 - V1600
Scale	Lab scale - production scale
Capacity (in litres)	10 - 1702
Benefits & properties	High efficiency thanks to fast mixing times with maximum quality and optimum homogeneity for difficult mixtures, optional double jacket for heat applications

Spheronization technologies

Extrusion and spheronizing are effective processing technologies to form micro pellets, pellets, and granules used in cosmetic and personal care products like highlighter pearls, peeling, toothpaste, lotions, and more.

(Micro)pellets and granules meet these needs, and spheronizer technology is effective for manufacturing high-quality, uniformly sized granules. A product-specific geometry of the rounding disc profile results in a perfect product shape. We offer complete pellet manufacturing systems, from mixing to extrusion, spheronizing, drying, and coating - ensuring quality and consistency from lab to production scale.



Gabler
Spheronizer



	Spheronizers
Models	Spheronizer R-250, Spheronizer R-400 - R-700
Scale	Lab scale - production scale
Capacity (kg/h)	<10
Benefits & properties	Individual and ergonomic for ideal product flow, parts that come into contact with the product can be dismantled in a few simple steps and are easy to clean, a crane assists the operator in installing and removing the disc, geometry of the rounded disc profile can be adapted to specific products



Extrusion technologies

Extrusion is a continuous process where a powder blend is compacted and forced through an orifice under a variety of control parameters.

With help of extrusion technology wet granules can be processed to extrudates which can then be shaped into pellets or granules. In wet extrusion, liquids or solvents are added as binders to achieve the desired consistency and product properties. The clamshell design of our extruders allows for quick cleaning and fast product changeover.



Gabler Extruder & Spheronizer & K-Tron Feeder

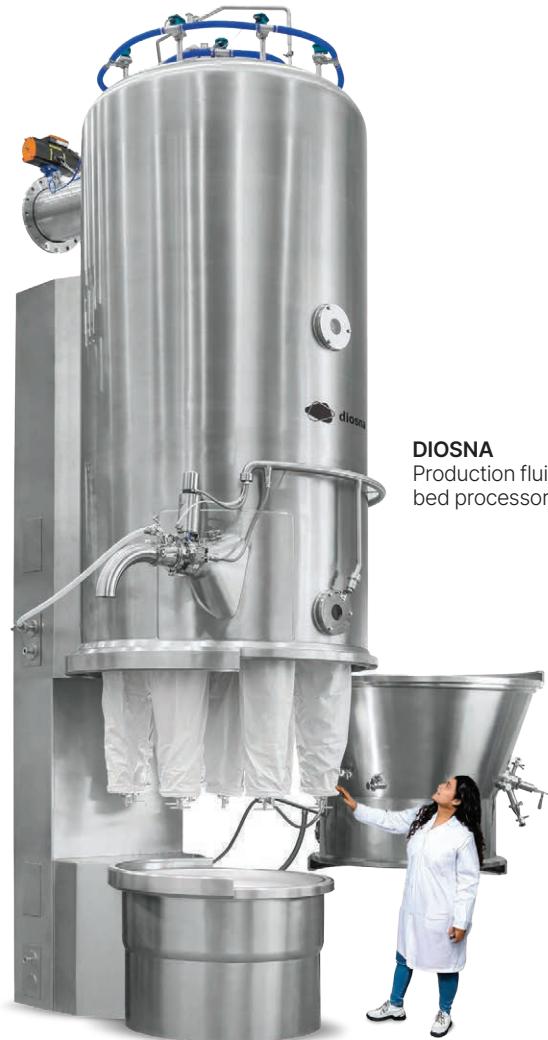


	Extruders
Models	Extruder DE-40 - 140
Scale	Lab scale - production scale
Capacity (kg/h)	<950
Benefits & properties	Easy cleaning, process part cylinder divided in upper and lower shell, independent heating zones, configurated co-rotating screws for all process requirements, integrated into a complete line or stand-alone



Pellet coating technologies

Coating of pellets and granules can be greatly performed in fluid-bed processors using the Wurster method. Coatings ensure stability by protecting the product, coloring, and visual effects.



DIOSNA
Production fluid bed processor



	Fluid bed processors
Models	CAP150 - CAP1250
Scale	Production scale
Capacity (in litres)	200-1350
Benefits & properties	Pellet/Granule coating performed with Wurster method, remote maintenance access, extensive batch data acquisition and documentation; min-max filling volume: 30%-90% + calculate with following factors: Drying: 0.9, Granulating: 0.8, Coating: 0.6 which can result into a lower min filling volume <30%





DIOSNA
Laboratory fluid bed processor



DIOSNA Pilot fluid bed processor



Fluid bed processors	
Models	Minilab RC, Midilab RC, CAP10-80 RC
Scale	Lab scale, pilot scale
Capacity (in litres)	1-105
Benefits & properties	Pellet/Granule coating performed with Wurster method, remote maintenance access, extensive batch data acquisition and documentation, rapid change to Coater, glass components, tool free disassembly; min-max filling volume: 30%-90% + calculate with following factors: Drying: 0.9, Granulating: 0.8, Coating: 0.6 which can result into a lower min filling volume <30%.



Milling & sifting

Milling and sifting, as process intermediate steps, for accurate and fluent processing of powders.

Controlled and accurate fine grinding of health products requires high standards of hygiene and cleanability. Meeting the most stringent requirements including prevention of cross contamination between batches, or of the lubricant contaminating the mill chamber is vitally important in the health industry. Sifting impacts the accuracy and homogeneity of flawless mixtures. It is effective for size classification, separates material that isn't of the required size, ensures removing unwanted material, and de-risks wet and dry granules, and powder handling.



Kemutec
KEK Cone Mill



Kemutec Universal Mill



	Universal Mill
Model	1-5 H/WB
Scale	Lab scale - production scale
Particle size range D50*, μ	100 – 20**
Benefits & properties	Easily accessible, adjustable mill speed, caters to differing products and particle size requirements, easy and efficient cleaning

	Cone Mill
Model	CM120 - CM340
Scale	Lab scale - production scale
Particle size range D50*, μ	500 – 250**
Benefits & properties	Hygienic - CIP, easy to clean, enclosed screen inspection, gentle grinding, low energy form of size reduction, no dusting and heating

	Air Classifier Mill
Model	-
Scale	Lab scale - production scale
Particle size range D50*, μ	20-10**
Benefits & properties:	Fine powder grinding, includes air-classifying wheel with an independent drive for precise control over "particle cut point" selection, control of grinding temperature and particle size distribution

*D50 stands for the median particle size where 50% of the particles are smaller and 50% are larger and shows the average median particle size which has been reduced during a milling process.

**Standard range can be extended to coarser or e.g. in the case of deagglomeration - finer sizes

Solid material transfer

Efficient material handling ensures reliable ingredient transfer and continuous production, even with materials that exhibit challenging flow properties.

Pneumatic transfer modes, via dilute or dense phase, vacuum or pressure, can provide safe and efficient transfer of even the most difficult flowing powders. Our K-Tron pneumatic conveying technologies handles materials like powders and pellets. Supporting dense and dilute phase vacuum transfer, they ensure safety, cleanliness, and easy cleaning. Suitable for standalone or integrated use, these systems optimize ingredient transfer in cosmetic, personal care, and health applications.

K-Tron P10
Pneumatic receiver



K-Tron
P30
Pneumatic
receiver



K-Tron
P100
Pneumatic
receiver



Coperion
Hygienic side entry
receiver (HSER)



Reverse air
pulse cleaning
system for cleaning
cartridge or bag
and dislodging
filtered material

coperion
K-TRON

Pneumatic receivers	
Model	P10 Pneumatic receiver
Outlet	With butterfly valve
Material capacity	7 dm ³ (0.4 ft ³)
Conveying capacity	Up to 600 kg/h (1,320 lb/h)*

coperion
K-TRON

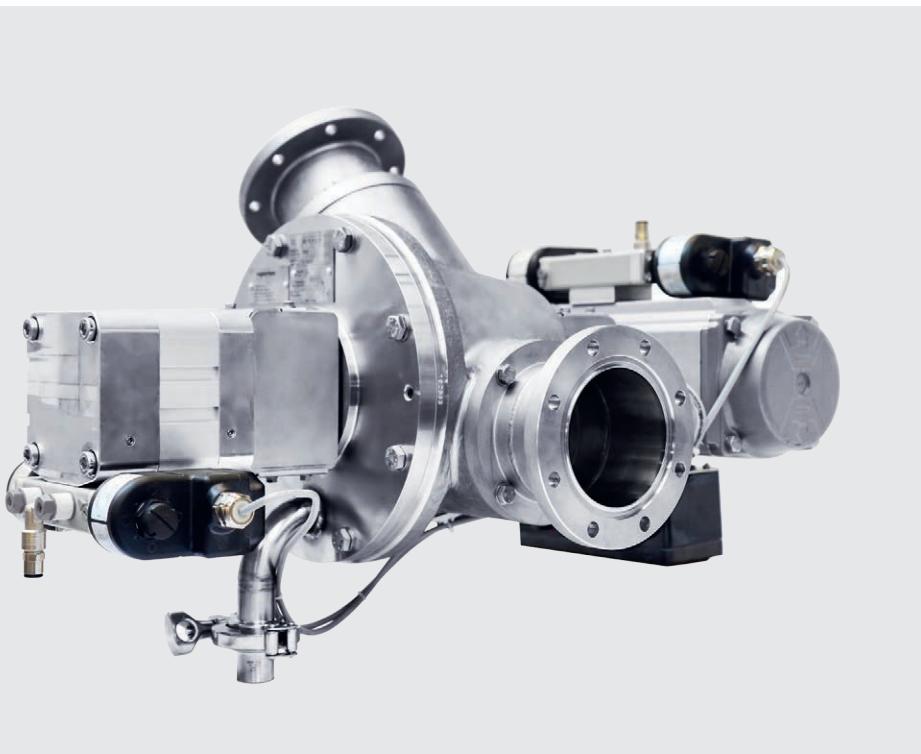
Pneumatic receivers	
Model	P30 Pneumatic receiver
Outlet	With butterfly valve
Material capacity	27 dm ³ (1 ft ³)

coperion
K-TRON

Pneumatic receivers	
Model	P100 Pneumatic receiver
Outlet	With butterfly valve
Material capacity	90 dm ³ (3.2 ft ³)
Conveying capacity	Up to 3,600 kg/h (7,920 lb/h)*

*All conveying rates are based on a distance of 15 m (50 ft) and bulk density of 0.5 kg/dm³ (31 lb/ft³). Rates vary with material characteristics, conveying distance and plant layout.

Components (valves, etc.)



We offer superior batch and continuous plant solutions, leveraging extensive experience and design expertise.

Our systems are optimized for solids processing across all applications, from laboratory to production scale. The complete portfolio ensures seamless throughput, while integrative and peripheral components are essential for system functionality.

Integrative components

- Airlocks
- Diverter, rotary valves
- Secondary filters

Peripheral solutions

- Bulk bag unloading
- Dust collection
- Feed bins & bag dump stations





Qualification services & controls capabilities

Coperion's Health & Nutrition technologies provide an extensive array of validation documentation based on the lifecycle approach, including FRS/FDS, FAT, SAT-IQ and SAT-OQ.

Custom system PLC controls are available to meet 21 CFR Part 11 compliance. Detailed HMIs can be provided to perform a wide array of advanced functions including recipe and ratio controls, barcodes/tracking and complete system alarm analyses. Our automated systems are in conformance with GAMP5.

Aftersales services



Maintaining excellence in your products through process validation, trials, and expert aftersales support.

Project management

- Comprehensive project analysis ensures the right equipment is selected for each formulation

Test and Innovation Centers

- Our dedicated Test and Innovation Centers worldwide allow us to conduct trials using your raw materials, validate processes, and leverage our process expertise to ensure optimal performance, reliability, and safety. This hands-on approach enables us to provide tailored solutions, to support your specific manufacturing needs

Standards & regulations

- Equipment is developed in compliance with cosmetic standards. During design, critical steps are validated to guarantee long-term performance: PID validation, functional analysis, GMP compliance, risk management, and adherence to regulations such as 21 CFR Part 11 and GAMP 5

Documentation & validation

- All phases include detailed documentation and testing for Installation Qualification (IQ) and Operational Qualification (OQ). Industrial units are fully assembled and tested via Factory Acceptance Test (FAT), shipped, reassembled, and validated on-site through Site Acceptance Test (SAT), ensuring reliable, high-quality cosmetic production
- A highly experienced team is available to intervene anywhere in the world, providing remote maintenance, audits, preventive maintenance, and tailored service contracts, ensuring your equipment and production lines continue to operate at peak efficiency



Complete
aftersales
solutions





Cosmetics & personal care integrated solutions



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