



# High performance feeding solutions



[coperion.com/fhn](http://coperion.com/fhn)

## One source Unlimited solutions

**From sugar to oils, Coperion brings the expertise and experience needed to handle a wide range of solid and liquid materials with precision.**

We combine innovative engineering with a broad product portfolio to deliver a single source for every feeder type. Decades of experience with challenging and fragile materials, precision-driven control systems, and deep application expertise ensure unmatched performance and longevity. Powered by our people and technology, we stand as a premium global supplier of process equipment.



### Confidence through partnership

Coperion and its brands, with over 200 years of expertise, proudly deliver solutions that help shape how the world eats, nourishes, and heals.



# Remove risk. Simplify complexity. Feed with confidence.

Proven solutions for every material challenge designed to optimize material handling processes across numerous industries.

### Why Coperion:

**Reduced risk:**  
Whatever your material, we've already solved it

**Single-source convenience:**  
One supplier for all feeder types, with unified controls and integration

**Reliable performance:**  
Unmatched feeding accuracy for consistent product quality

**End-to-end material handling:**  
From feeding and conveying to extrusion, sifting and milling - engineered to work as one

**Control efficiency:**  
Smart feeding systems that integrate seamlessly with your process



### What you gain from Coperion feeders:

#### Accuracy where it matters

Advanced feeding technology that delivers exact material control to protect product quality

#### Flexibility without compromise

Across technologies, countless materials handled - from free-flowing to the most challenging

#### Smart feeding for liquids and pastes

Accurate, adaptable solutions that improve efficiency and reduce operating costs

#### Designed for your reality

Tailored configurations to match your process, materials, and performance goals

#### Built to last

Durable, service-friendly designs minimize downtime and maximize reliability

## Trusted solutions for your feeding equipment



**Backed by over a century of experience and numerous patents, we deliver advanced feeding and weighing solutions.**

Our depth of expertise enables us to tailor our products and services to the specific requirements of diverse industries. Whether handling bulk materials for food, pet food, confectionery, or pharmaceutical applications, customers can rely on Coperion for complete lifecycle support – from system engineering and testing to planning, commissioning, and operator training.

Cutting-edge mechanical design and core technologies are at the heart of our process equipment and control systems. Our focus remains firmly on delivering added value long after installation. With service and support locations around the world, we provide on-site assistance wherever and whenever it is needed.

As part of Coperion, our global footprint opens the door to new opportunities, helping our customers achieve higher performance, reliability, and long-term success.

By combining global engineering capability with a highly collaborative approach, we work closely with customers to optimize every stage of the production process. From improving efficiency and product consistency to supporting sustainability and future scalability, our solutions are designed to adapt alongside evolving market demands. This commitment to innovation, partnership, and technical excellence ensures customers can invest with confidence and achieve lasting competitive advantage.



# Summary

Brand	Description	Model	Feed rate dm <sup>3</sup> /h	Feed rate min ft <sup>3</sup> /h	Feed rate max ft <sup>3</sup> /h	Models for				Pages
						Continuous	Batch	Gravimetric	Volumetric	
<b>Single screw feeders</b>										
K-Tron	Mid range SST feeder with horizontal agitator	S60	0.14 - 4,404	0.005	155	•	•	•	•	14, 16-17
K-Tron	High range SST feeder with horizontal agitator	S100	12 - 17,135	0.4	605	•	•	•	•	14, 16-17
K-Tron	Mid range SST feeder with horizontal agitator	KS60	0.14 - 4,140	0.005	146	•	•	•	•	14, 18-19
AccuRate	With flexible hopper and external paddle agitation	100	0.00048 - 14.16	0.000017	0.5	•	•		•	20-21
AccuRate	With flexible hopper and external paddle agitation	300	0.0048 - 104.5	0.000168	3.69	•	•		•	20-21
AccuRate	With flexible hopper and external paddle agitation	600	0.023 - 1,359	0.0008	48	•	•		•	20-21
AccuRate	With flexible hopper and external paddle agitation	900	2.83 - 7,929	0.1	280	•	•		•	20-21
MechaTron	Flexible auger for small throughputs	AI-300	0.01 - 270	0.0004	9.5	•	•	•	•	22
MechaTron	Flexible auger for small throughputs	AP-300	0.01 - 270	0.0004	9.5	•	•	•	•	22
MechaTron	Integrated electronic to drive feeder	Low Range Coni-Flex	0.06 - 595	0.002	21	•	•	•	•	22
MechaTron	Integrated electronic to drive feeder	Mid Range Coni-Flex	1.4 - 9,345	0.05	330	•	•	•	•	22
MechaTron	Integrated electronic to drive feeder	High Range Coni-Flex	96.3 - 32,196	3.4	1,137	•	•	•	•	22
MechaTron	Designed for use in applications where equipment must meet 3-A sanitary levels	3-A	1.4 - 9,345	1.4	9,345	•	•	•	•	22
K-Tron	High rate for free flowing bulk materials	S500/510	70 - 45,300	2.5	1,600	•	•	•	•	14, 23

## Summary (continued)

Brand	Description	Model	Feed rate dm <sup>3</sup> /h	Feed rate min ft <sup>3</sup> /h	Feed rate max ft <sup>3</sup> /h	Models for				Pages
						Continuous	Batch	Gravimetric	Volumetric	
<b>Twin screw feeders</b>										
K-Tron	High accuracy and low feed rates for high-end applications	MT12	0.031 - 10.71	0.0011	0.3781	•	•	•	•	24
K-Tron	High accuracy and low feed rates for high-end applications	MT16	0.083 - 33.11	0.0029	1.1687	•	•	•	•	24
K-Tron	Designed to cGMP for nutraceutical and pharmaceutical applications	QT20	0.2 - 243	0.005	8.58	•	•	•	•	25
K-Tron	Designed to cGMP for nutraceutical and pharmaceutical applications	QT35	1.6 - 2012	0.06	71.1	•	•	•	•	25
K-Tron	Low range SST feeder with horizontal agitator	KT20	0.2 - 371	0.006	13.1	•	•	•	•	26-27
K-Tron	Mid range SST feeder with horizontal agitator	KT35	2.3 - 1,772	0.07	82.8	•	•	•	•	26-27
K-Tron	Mid range SST feeder with horizontal agitator	T35	2.1 - 1,712	0.06	80	•	•	•	•	26, 28
K-Tron	High range SST feeder with horizontal agitator	T60	20 - 4,050	0.7	249	•	•	•	•	26, 29
K-Tron	High range SST feeder with horizontal agitator	T80	25 - 24,671	0.9	871	•	•	•	•	26, 29
<b>Belt feeders</b>										
Coperion	Integrated scaling and electronic for metering or feeding continuously	DEA 300, 600	20 - 47,572	0.7	1,680	•		•	•	30
K-Tron	Integrated scaling and electronic for metering or feeding continuously	Smart Weigh Belt SWB-300	10 - 40,000	0.4	1,400	•	•	•	•	30
K-Tron	Integrated scaling and electronic for metering or feeding continuously	Smart Weigh Belt SWB-600	20 - 80,000	0.7	2,800	•	•	•	•	30
K-Tron	Integrated scaling and electronic for metering or feeding continuously	Loss-In-Weight Belt FB130	0.1 - 1,400	0.004	49.4	•	•	•	•	31
<b>Vibratory feeders</b>										
SolidsFlow	Natural mass flow feeding device	2000	5.66 - 86,989	0.2	3,072	•	•	•	•	32
K-Tron	High accuracy and gentle feeding	V100	1 - 500	0.035	17.66	•	•	•	•	33
K-Tron	High accuracy and gentle feeding	V200	8 - 4,000	0.28	141.25	•	•	•	•	33
K-Tron	High accuracy and gentle feeding	V300	17 - 8,500	0.6	300	•	•	•	•	33
<b>Liquid feeders</b>										
K-Tron	For accurate feeding of liquids and pastes	Modular	0.5 - 1,500	0.018	53	•	•	•		34-35
<b>Bulk solids flow meters</b>										
K-Tron	Gentle feeding and metering of bulk solids at high rates	Smart Flow Meter K-SFM-275	3,300 - 60,000	117	2,119	•	•	•		36-37
K-Tron	Gentle feeding and metering of bulk solids at high rates	Smart Flow Meter K-SFM-350	8,300 - 350,000	293	12,360	•	•	•		36-37
Coperion	Continuous mass-flow measurement using Coriolis principle	Coriolis Mass Flow Meter	169 - 520,153	6	18,369	•	•	•	•	37

## Feeding solutions for Food, Health and Nutrition

Thousands of Coperion feeders have been sold for a variety of food, health and nutrition applications.

Coperion offers a variety of feeding solutions for all applications, but specializes in the high accuracy addition of high value minor and micro ingredients for batch or continuous processes. Feeders can be used for both dry ingredients as well as liquid flavors and additives.

Typical food, health and nutrition type materials include cereals and breakfast foods, snack foods, pet/fish foods and feed, confectionery/chocolate products, coffee, probiotics, pharmaceutical active ingredients, trace elements, vitamin fortifiers, liquid flavors and aromatics. Processes such as extrusion, mixing, and milling can all be improved utilizing the superior design accuracy of Coperion feeders.



### Typical materials fed:

#### Food & confectionery

- Sugar (granulated, powdered)
- Flour, starch, cocoa powder
- Milk powders, whey, protein powders
- Salt, spices, flavorings
- Minor ingredients, vitamins, and additives

#### Pet Food & animal nutrition

- Grain flours and meals
- Dry palatants
- Soy, corn, wheat derivatives
- Premixes, minerals, and micro-ingredients
- Animal fats, vegetable oils, liquid vitamins

#### Pharmaceuticals & nutraceuticals

- Active ingredients (APIs)
- Excipients
- Blends and fine powders

## Single screw feeders



### Single screw feeders are ideal for handling free-flowing granular materials.

Coperion offers a broad portfolio of single screw feeders engineered to deliver accurate, reliable material handling across a wide range of processing applications. Designed for flexibility and performance, the K-Tron S60, S100, KS60 and S500/510 feeder models are available in both volumetric and gravimetric configurations, enabling processors to select the ideal solution for their required level of accuracy, throughput, and process control.

For applications requiring dependable volumetric feeding, the AccuRate single screw feeder provides consistent material delivery with a simple, durable design. The MechaTron feeder line further expands Coperion's capabilities with both volumetric and gravimetric models that support precise feeding of powders, pellets, flakes, and other dry bulk materials.



Built for efficient operation and easy integration into production environments, Coperion single screw feeders help manufacturers improve ingredient consistency, optimize product quality, and maintain stable process performance. Their hygienic construction, robust engineering, and application versatility make them well suited for food, pet food, confectionery, pharmaceutical and industrial processing applications.



## Single screw feeders (continued)



**Coperion gravimetric feeders provide precise, weight-based control for applications where consistent feeding is essential to maintaining product quality and stable process performance.**

### K-Tron S60 and S100 feeders

The K-Tron S60 and S100 single screw feeders feature a twin belt-driven K2 gearbox, designed to provide reliable performance in challenging applications such as hazardous environments or low feed rates involving dense bulk materials.

All components in contact with the processed material are constructed from stainless steel, ensuring durability and hygienic operation. The feeder is designed for easy disassembly, simplifying cleaning and maintenance procedures.

A horizontal agitator gently conveys bulk material toward a large throat, ensuring consistent flow into the screw. Additionally, the feeder screws are easily interchangeable, allowing for flexibility in handling different materials and process requirements.

### K-Tron S60 feed rates

	DN	Auger screws					Spiral screws				
		Ø15	Ø25	Ø40	Ø50	Ø60	Ø15	Ø25	Ø40	Ø45	Ø60
Course	dm³/h	0.14 - 70.1	0.8 - 354	2.6 - 1,041	7.3 - 2,740	11 - 4,404	0.14 - 74.4	0.8 - 383	3 - 1,320	7.95 - 2,335	12 - 3,669
	ft³/h	0.005 - 2.47	0.03 - 12.5	0.09 - 36.7	0.26 - 96.72	0.39 - 155	0.005 - 2.63	0.03 - 13.5	0.11 - 46.6	0.28 - 82.43	0.42 - 130
Fine	dm³/h		0.4 - 183	1.14 - 673	4.3 - 1,965	6 - 2,752		0.5 - 199	1.7 - 794	4.08 - 1,690	7 - 3,002
	ft³/h		0.01 - 6.46	0.05 - 23.8	0.15 - 69.4	0.21 - 97.2		0.02 - 7.02	0.06 - 28	0.14 - 59.7	0.25 - 106

### K-Tron S100 feed rates

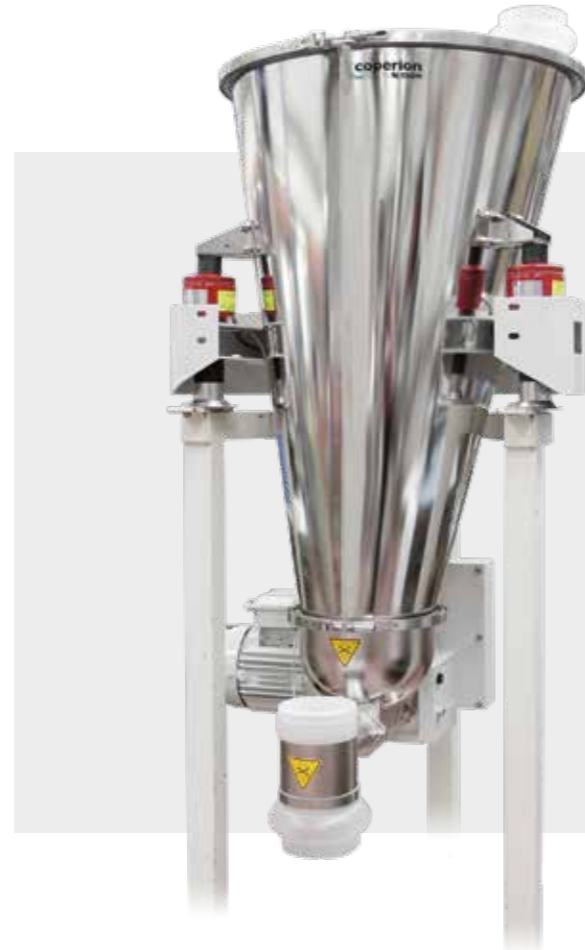
	DN	Auger screws			Spiral screws		
		Ø60	Ø80	Ø100	Ø60	Ø80	Ø100
Course	dm³/h	20 - 3,474	53 - 7,775	125 - 17,135	23 - 3,135	46 - 5,946	93 - 12,455
	ft³/h	0.7 - 123	1.9 - 274	4.4 - 605	0.8 - 111	1.6 - 210	3.3 - 440
Fine	dm³/h	13 - 2,100	29 - 4,537	66 - 11,126	12 - 2,008	30 - 4,760	65 - 9,864
	ft³/h	0.5 - 74	1 - 160	2.3 - 393	0.4 - 71	1.1 - 168	2.3 - 348

## Single screw feeders (continued)

**The K-Tron KS60 single screw feeder is designed to handle easy flowing powder, granules and other bulk materials.**

### K-Tron KS60 feeder

The KS60 single screw feeder is engineered for flexibility and hygienic operation. It features interchangeable feeding tools and stainless steel product-contact components, making it suitable for a wide range of applications.



An enclosed stainless steel scale housing enhances cleanliness while simplifying maintenance. The unit is designed for easy disassembly, enabling quick cleaning and efficient product changeovers.

A horizontal agitator gently directs bulk materials toward a wide inlet, ensuring consistent flow into the screw. The feeder screws are also easily interchangeable, allowing the system to be adapted to different materials and processing requirements.

### K-Tron KS60 feed rates

Pitch	DN	Auger screws					Spiral screws				
		Ø15	Ø25	Ø40	Ø50	Ø60	Ø15	Ø25	Ø40	Ø50	Ø60
Course	dm³/h	0.14 - 65	0.8 - 332	2.6 - 979	7.3 - 2,525	11 - 4,140	0.14 - 69	0.8 - 360	3 - 1,240	7.95 - 2,194	12 - 3,449
	ft³/h	0.005 - 2.29	0.03 - 11.72	0.09 - 34.6	0.26 - 91	0.39 - 146	0.005 - 2.44	0.03 - 12.7	0.11 - 43.77	0.28 - 77.45	0.42 - 122
Fine	dm³/h		0.4 - 172	1.4 - 633	4.3 - 1,847	6 - 2,587		0.5 - 187	1.7 - 747	4.078 - 1,591	7 - 2,822
	ft³/h		0.01 - 6.07	0.05 - 22.3	0.15 - 65	0.21 - 91		0.02 - 6.6	0.06 - 26.4	0.14 - 56.2	0.25 - 100



## Single screw feeders (continued)



With thousands of installations around the world the Coperion AccuRate volumetric feeders are ideal for a wide range of powders, flakes and granules.

### AccuRate feeders

AccuRate volumetric feeding systems are designed to handle a wide range of feeding applications with efficiency and versatility. Known for their cost-effectiveness and flexibility, these systems can be easily integrated into existing production lines.

With more than 30,000 units installed worldwide, Coperion's AccuRate feeders have established a strong track record as reliable and economical solutions for bulk material handling. Their widespread adoption reflects consistent performance and impressive output capabilities.

Designed for continuous feeding, batching, and blending, the AccuRate volumetric feeders feature a simple, compact design that ensures easy servicing and maintenance at an economical price.

### AccuRate feed rates

Model	dm <sup>3</sup> /h	ft <sup>3</sup> /h
100	0.00048 - 14	0.000017 - .5
300	0.005 - 105	0.000168 - 3.69
600	0.022 - 1,359	0.0008 - 48
900	3 - 7,929	0.1 - 280



## Single screw feeders (continued)



### MechaTron feeders

MechaTron LC, MC and HC gravimetric feeders are high precision loss-in-weight feeding systems used to accurately meter bulk solids in continuous or batch processes.

MechaTron feeders offer complete disassembly from the non process side of the feeder eliminating the need to remove upper extension hoppers, bins, bulk bags, and IBC's to clean or maintain the feeder.

The MechaTron MC 3-A feeder comes equipped with crack and crevice free contact surfaces, an FDA compliant internal feed hopper, and washdown motors which makes it the perfect feeder for dairy and food processing applications.

### MechaTron feed rates

Model	dm <sup>3</sup> /h	ft <sup>3</sup> /h
LC	0.06 - 595	0.002 - 21
MC	1.42 - 9,345	0.05 - 330
HC	79.3 - 32,196	2.8 - 1,137

Designed specifically for low feed rate applications, the MechaTron AI-industrial and AP pharmaceutical feeders include the following customer driven features; quick and easy disassembly, a dual arm external agitation system for maximizing material handling versatility, and an easily removable EPDM feed hopper, reducing cleaning and maintenance time.

### MechaTron AI and AP feed rates

0.5 to 150 kg/h

### K-Tron S500, S510 feeders

The K-Tron models S500 and S510 volumetric feeders handle easy flowing powders, granules and other bulk materials. Operating as a single shaft feeder with interchangeable feeding tools and a variety of feeder screws allows for accommodation of a wide range of bulk materials. All product contact parts are stainless steel.



### K-Tron S500, S510 feed rates

Pitch	DN	Auger screws			Spiral screws		
		ø100	ø130	ø150	ø100	ø130	ø150
Coarse	dm <sup>3</sup> /h	140 - 14,700	314 - 33,060	430 - 45,300	140 - 14,700	314 - 33,060	430 - 45,300
	ft <sup>3</sup> /h	5 - 520	11 - 1,168	15 - 1,600	5 - 520	11 - 1,168	15 - 1,600
Fine	dm <sup>3</sup> /h	70 - 7,400	148 - 15,560	200 - 21,000			
	ft <sup>3</sup> /h	2.5 - 261	5.2 - 549	7 - 742			



## Twin screw feeders

The K-Tron MT12 & MT16 twin screw microfeeders have been specially designed to provide maximum accuracy at minimal feed rates.

### K-Tron MT12 feed rates

Pitch		Twin concave screws	Twin auger screws	Screw speed range
Course	dm <sup>3</sup> /h	0.078 - 10.36	0.076 - 10.71	RPM 1 - 150
	ft <sup>3</sup> /h	0.0028 - 0.3656	0.0027 - 0.3781	
Fine	dm <sup>3</sup> /h	0.045 - 5.89	0.031 - 4.52	RPM 1 - 150
	ft <sup>3</sup> /h	0.0016 - 0.2079	0.0011 - 0.1595	

The K-Tron microfeeder is specially designed for feeding free-flowing to difficult powders (e.g. lumpy or moist materials) at extremely low rates with extremely high accuracy and minimal residual material left in the feeder making them ideal for pharmaceutical processing applications.

### K-Tron MT16 feed rates

Pitch		Twin concave screws	Twin auger screws	Screw speed range
Course	dm <sup>3</sup> /h	0.223 - 30.36	0.253 - 33.11	RPM 1 - 150
	ft <sup>3</sup> /h	0.0079 - 1.0718	0.0089 - 1.1687	
Fine	dm <sup>3</sup> /h	0.166 - 21.69	0.083 - 11.49	RPM 1 - 150
	ft <sup>3</sup> /h	0.0059 - 0.7656	0.0029 - 0.4054	



## The K-Tron QT20 & QT35 volumetric feeders are ideal for pharmaceutical applications that require quick product changeovers

The QT20 and QT35 volumetric feeders are designed to handle a wide range of materials, from free-flowing to poorly flowing powders. They are particularly suitable for difficult materials such as lumpy, moist, or bridge-forming powders, which are commonly encountered in pharmaceutical applications.

These twin screw feeders feature a quick-change design that allows the feeder bowl to be easily decoupled from the feeder drive. This enables fast and simple product changeovers, minimizing downtime and improving operational efficiency.

### K-Tron QT20 feed rates

Pitch		Twin concave screws	Twin auger screws
Coarse	dm <sup>3</sup> /h	0.34 - 170	0.47 - 243
	ft <sup>3</sup> /h	0.012 - 6	0.017 - 8.58
Fine	dm <sup>3</sup> /h	0.2 - 94.6	0.13 - 60
	ft <sup>3</sup> /h	0.007 - 3.34	0.005 - 2.12

### K-Tron QT35 feed rates

Pitch		Twin concave screws	Twin auger screws
Coarse	dm <sup>3</sup> /h	2.5 - 1,386	4.4 - 2,012
	ft <sup>3</sup> /h	0.09 - 48.9	0.16 - 71.1
Fine	dm <sup>3</sup> /h	1.63 - 791	2.2 - 1,007
	ft <sup>3</sup> /h	0.06 - 27.9	0.08 - 35.6

## Twin screw feeders (continued)

Twin screw feeders are ideal for handling difficult materials such as powders. K-Tron feeder models KT20, KT35, T35, T60 and T80 are offered in either volumetric or gravimetric configurations.

### K-Tron KT20, KT35 feeders

The K-Tron KT twin screw feeders are designed for accurate and flexible operation, featuring interchangeable feeding tools to accommodate a wide range of materials and process requirements.

All product-contact components are constructed from stainless steel, ensuring durability and hygienic performance. The feeding system is engineered for easy disassembly, enabling quick cleaning and efficient maintenance.

A horizontal agitator gently conveys bulk material toward a large inlet, promoting a smooth and consistent flow into the discharge screws for reliable feeding performance.



### K-Tron KT20, KT35 feeder control

Each feeder is equipped with its own control module, enabling precise and reliable results. Connection between feeders, operator interface and smart I/O is via an industrial network.

### K-Tron KT20 feed rates

Pitch		Twin concave screws	Twin auger screws	Twin spiral screws	Double auger screws
Course	dm <sup>3</sup> /h	0.35 - 254	0.6 - 371	0.4 - 288	0.4 - 254
	ft <sup>3</sup> /h	0.013 - 8.97	0.019 - 13.10	0.014 - 10.17	0.014 - 8.97
Fine	dm <sup>3</sup> /h	0.2 - 138	0.15 - 112	0.25 - 185	0.3 - 202
	ft <sup>3</sup> /h	0.007 - 4.87	0.006 - 3.95	0.009 - 6.53	0.011 - 7.13

### K-Tron KT35 feed rates

Pitch		Twin concave screws	Twin auger screws	Twin spiral screws	Double auger screws
Course	dm <sup>3</sup> /h	3.1 - 1,466	5.6 - 2,346	3.6 - 1,446	4.6 - 1,772
	ft <sup>3</sup> /h	0.11 - 51.75	0.2 - 82.81	0.13 - 51.04	0.16 - 62.55
Fine	dm <sup>3</sup> /h	2.3 - 952	2.6 - 1,418	1.9 - 1,058	2.5 - 1,298
	ft <sup>3</sup> /h	0.08 - 33.61	0.09 - 50.06	0.07 - 37.35	0.09 - 45.82

## Twin screw feeders (continued)



### K-Tron T35 feeder

The K-Tron T35 twin screw feeder is available in both volumetric and gravimetric configurations and features interchangeable feeding tools to accommodate a wide range of materials.

Volumetric and gravimetric units can be mounted on platform scales, while gravimetric versions may also be suspended on load cells for enhanced weighing accuracy. All material-contact components are constructed from stainless steel, ensuring durability and hygienic operation.

The feeding equipment is designed for easy disassembly. Its modular components are secured with V-clamps, allowing quick access for maintenance. By opening the V-clamp at the lower end of the hopper using a tool, the feeder can swing outward, providing convenient access for cleaning. A horizontal agitator gently conveys bulk material toward a large throat, where it is directed into the discharge screws. The agitator can be removed without tools for additional ease of maintenance. It operates at approximately 5% of the screw speed, ensuring smooth and controlled material flow.

### K-Tron T35 feed rates

Pitch		Twin concave screws	Twin auger screws	Twin spiral screws	Double auger screws
Coarse	dm <sup>3</sup> /h	2.9 - 1,417	5.2 - 2,267	3.4 - 1,398	4.3 - 1,712
	ft <sup>3</sup> /h	0.1 - 50.02	0.18 - 80.03	0.12 - 49.35	0.15 - 60.43
Fine	dm <sup>3</sup> /h	2.1 - 920	2.4 - 1,370	1.82 - 1,023	2.4 - 1,254
	ft <sup>3</sup> /h	0.07 - 32.48	0.08 - 48.36	0.06 - 36.11	0.08 - 44.27

### K-Tron T60 feeder

The K-Tron T60 twin screw feeder is built for flexibility and easy operation, with interchangeable tools to handle a wide range of materials. All contact parts are stainless steel for durability and hygiene.

Its modular design uses V-clamps for quick disassembly. Opening the lower hopper clamp allows the feeder to swing out for full access, enabling fast cleaning and reduced downtime. A horizontal agitator conditions material and directs it into the inlet and discharge screws for consistent feeding. The agitator is tool-free and removable, making maintenance even simpler.

### K-Tron T60 feed rates

Pitch		Twin concave screws	Twin auger screws	Double auger screws
Coarse	dm <sup>3</sup> /h	32 - 5,270	48 - 7,040	27 - 4,050
	ft <sup>3</sup> /h	1.1 - 186	1.7 - 249	0.9 - 143
Fine	dm <sup>3</sup> /h	20 - 2,600	28 - 4,430	21 - 3,230
	ft <sup>3</sup> /h	0.7 - 92	1 - 156	0.7 - 114

### K-Tron T80 feeder

With interchangeable feeding tools to handle a wide range of bulk materials and a variety of feeder screws and agitators, the K-Tron T80 feeder can be tailored to specific material characteristics and processing requirements.

Gravimetric configurations are mounted on a precision three-point weighing system equipped with K-SFT load cells, ensuring accurate and reliable performance. All product-contact components are constructed from stainless steel, providing durability and hygienic operation. The modular design enables quick and easy interchange of the hopper, agitator, and drive, simplifying maintenance and reducing downtime.

### K-Tron T80 feed rates

Pitch		Twin concave screws	Twin auger screws
Coarse	dm <sup>3</sup> /h	42 - 23,530	50 - 24,671
	ft <sup>3</sup> /h	1.5 - 831	1.8 - 871
Fine	dm <sup>3</sup> /h	25 - 16,246	25 - 17,244
	ft <sup>3</sup> /h	0.9 - 573	0.9 - 609



## Weigh belt feeders



**Coperion's K-Tron SWB and DEA Weigh Belt Feeders are ideal for handling free-flowing or friable materials, particularly in large quantities. Both models are available with or without housing and are offered in 300 or 600 mm belt widths.**

Continuous belt tension is maintained by a spring-loaded assembly, while belt removal is easily accomplished by releasing this mechanism. Reliable automatic belt tracking is ensured through Coperion's proven tracking and internal belt cleaning technology.

Internal belt scrapers clean both sides of the belt for improved performance and hygiene. Open-frame models are available for washdown applications in food and pet food processing environments.

### Weigh belt feed rates

Model	dm <sup>3</sup> /h	ft <sup>3</sup> /h
SWB-300	10 - 40,000	0.4 - 1,400
SWB-600	20 - 80,000	0.7 - 2,800
DEA 300	up to 18,689	up to 660
DEA 600	up to 47,572	up to 1,680

## Gentle low rate gravimetric feeding or metering of free flowing or friable products.

The FB130 loss-in-weight belt feeder combines the gentle material handling advantages of a belt feeder with the accurate control of a loss-in-weight system. It is ideal for feeding fragile products or powders with special characteristics, e.g. powders with very low melting points, powders with wax additives, or very abrasive powders.

### K-Tron FB130 feed rates:

0.1 dm<sup>3</sup>/h (0.004 ft<sup>3</sup>/h) to 1,400 dm<sup>3</sup>/h (49.4 ft<sup>3</sup>/h)



## Vibratory feeders

Coperion SolidsFlow and K-Tron vibratory feeders with multiple tray options provide gentle feeding of fragile materials.



### SolidsFlow™ 2000

The SolidsFlow™ 2000 is a natural mass flow feeding device suited to feed a wide variety of materials including cereal, nuts, and flakes. Equipped with a drive that vibrates a specially designed feed tray, the SolidsFlow™ 2000 provides versatility for a number of process applications.

A uniquely designed feed tray contains a number of slats with a gap and overlap across the entire width of the discharge opening.

All slat dimensions and angles are designed to suit the particular physical characteristics of each material being fed. Therefore, when the vibrations cease, material flow stops instantaneously due to changes in the vibrated and static angle of repose of the product. Feed rates up to 86,989 dm<sup>3</sup>/h (3,072 ft<sup>3</sup>/h) are achievable.

### K-Tron K3 feeder

The K-Tron K3 vibratory feeder has a modular design and is available in both standard and hygienic easy clean designs. This feeder is ideal for gentle handling of a wide range of bulk solid materials, especially fragile ingredients and problem materials such as finished friable food products. Where uniform discharge is critical, especially at very low rates, the K3 vibratory feeder provides excellent gravimetric feeding of very free flowing bulk materials.



### K-Tron K3 feed rates

Model	dm <sup>3</sup> /h	ft <sup>3</sup> /h
V100	1 - 500	0.035 - 17.66
V200	8 - 4,000	0.28 - 141.25
V300	17 - 8,500	0.6 - 300



## Liquid loss-in-weight feeders

**K-Tron liquid feeders provide accurate continuous or batch volumetric or gravimetric flow control of liquids.**

Accurate liquid feeding is achieved in both continuous and batch operations, making it suitable for applications such as high-moisture meat analogues and pharmaceutical production.

The liquid is metered by a pump located outside the weighing area to ensure measurement accuracy. The feed pump is selected based on the required capacity and the specific properties of the liquid. Each liquid feeder is customized to meet the unique requirements of the customer's process.



K-Tron liquid loss-in-weight feeders are available in modular configurations, making it easy to configure the right feeder for your application. All components are mounted and wired on a skid at the factory, making installation on site quick and easy.



## Bulk solids flow meters



### Gentle feeding and metering of bulk solids at high rates.

For reliable feeding, metering or monitoring of bulk solid material flows the K-Tron Smart Flow Meter (K-SFM) is an ideal alternative to traditional feeder configurations.

The K-SFM has no moving parts, thereby ensuring gentle handling of the bulk material - a distinct advantage over other flow meter technologies. The simple, yet robust, design allows the K-SFM to provide an accurate measurement in most conditions. The bulk material flows through two measuring channels, which use highly accurate, patented Smart Force Transducer technology to determine the actual flow rate.



### K-Tron Smart Flow Meter (K-SFM)

With models K-SFM-275 and K-SFM-350, the K-SFM delivers a broad operating range and reliable performance. Engineered for materials with good to excellent flow properties, it supports a variety of

applications including precise material flow control, accurate discharge measurement and filling, and efficient materials and inventory management.

#### K-Tron operating range

	Measuring channel (small)		Measuring channel (medium)		Measuring channel (large)	
	Min	Max	Min	Max	Min	Max
metric t/h	2	15	3.5	25	5	36
m <sup>3</sup> /h [ft <sup>3</sup> /h]	3.3 [176]	25 [883]	5.8 [205]	42 [1,483]	8.3 [293]	60 [2,120]

#### K-Tron operating range

	Measuring channel (small)		Measuring channel (medium)		Measuring channel (large)		Measuring channel (extra large)	
	Min	Max	Min	Max	Min	Max	Min	Max
metric t/h	5	36	10	60	15	120	25	210
m <sup>3</sup> /h [ft <sup>3</sup> /h]	8.3 [293]	60 [2,119]	16 [565]	100 [5,297]	25 [883]	200 [7,062]	42 [1,483]	350 [12,360]



### Coperion Coriolis Mass Flow Meter

The Coperion Coriolis Mass Flow Meter provides precise and reliable measurement of flow rates and totalized quantities within a fully enclosed system. Designed for free - to moderately flowing dry materials, it excels in throughput monitoring, consumption tracking, and batching applications. Its robust design ensures accurate performance without sensitivity to external environmental influences.

#### Flow rates:

510 dm<sup>3</sup>/h (18 ft<sup>3</sup>/h) to 149,994 dm<sup>3</sup>/h (5,297 ft<sup>3</sup>/h)

## Global Test Centers & Centers of Excellence



With test & innovation centers around the globe, Coperion can identify the best system tailored to your specific application.

Our global test centers are set up to test your materials on gravimetric, volumetric, single screw, twin screw, vibratory, weigh belt and liquid feeders. Confirm the perfect feeder for your application.

### Helping you optimize your processes

Discover our test center capabilities. With comprehensively equipped Test & Innovation Centers worldwide, we can perform advanced testing to address any challenge in your production process.

### Key benefits:

- Develop your next material handling process
- Test equipment before investing
- Conduct factory tests without disruption



Scan the QR code to find out more

## Aftermarket parts, components & services

Looking for after-sales solutions? Our extensive Aftermarket program provides you with after-sales services – customized to your specific requirements.

The framework of our Aftermarket program is designed with you in mind. With the guidance of our experienced after-sales team, you can create Aftermarket packages comprised of original spare and wear parts, various services and high-quality components to meet your needs.

Our Aftermarket program is based on a modular principle – you can pick and choose any individual product or a combination thereof. Aftermarket service categories focused on repair, inspection, management and support help to easily find the appropriate products.

We welcome the opportunity to provide you with individual consultation, either as part of an Aftermarket contract or on an individual basis. Whatever full service means to you – let's create it together!

### Connect Advisor

At Coperion, we've been working to reshape how industrial processes and the equipment that powers them are managed, through ongoing development of our Connect Advisor technology platform.

### With solutions that leverage Connect Advisor, you can:

- Gather data that can be used to optimize process performance
- Monitor equipment condition and performance in real time
- Leverage information to enable proactive preventive maintenance
- Enable effective, efficient remote assistance and service
- Identify opportunities to improve processes through engineering and operational enhancements
- Generate actionable analytics about duty cycles, energy usage, throughput and more

Complete after-sales solutions





# High performance feeding solutions



For technical information,  
scan the QR code

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