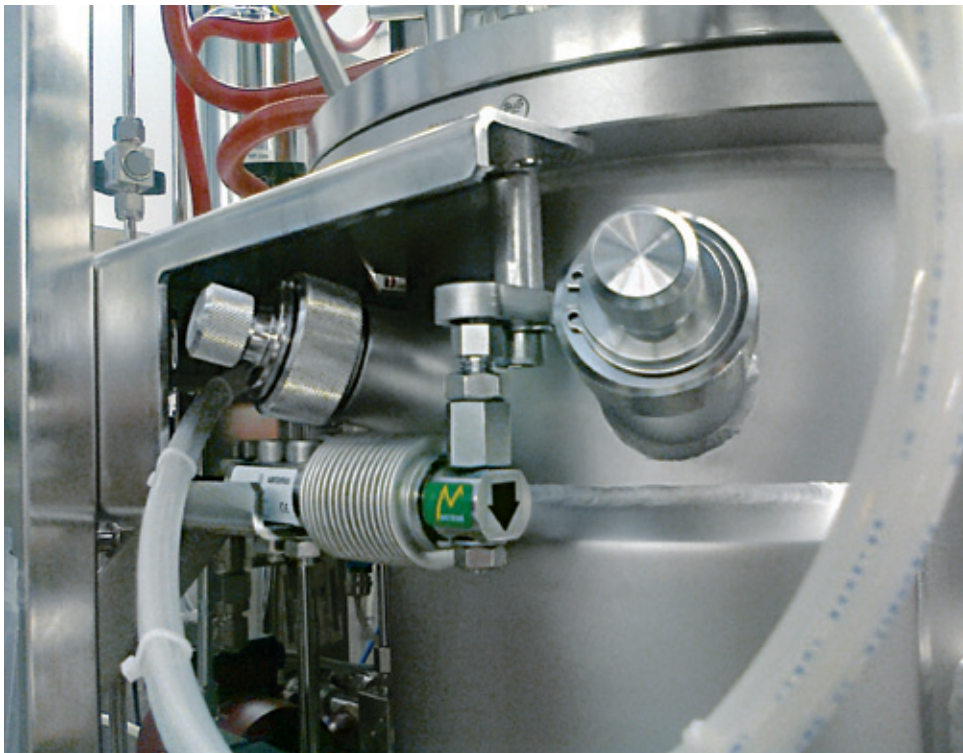
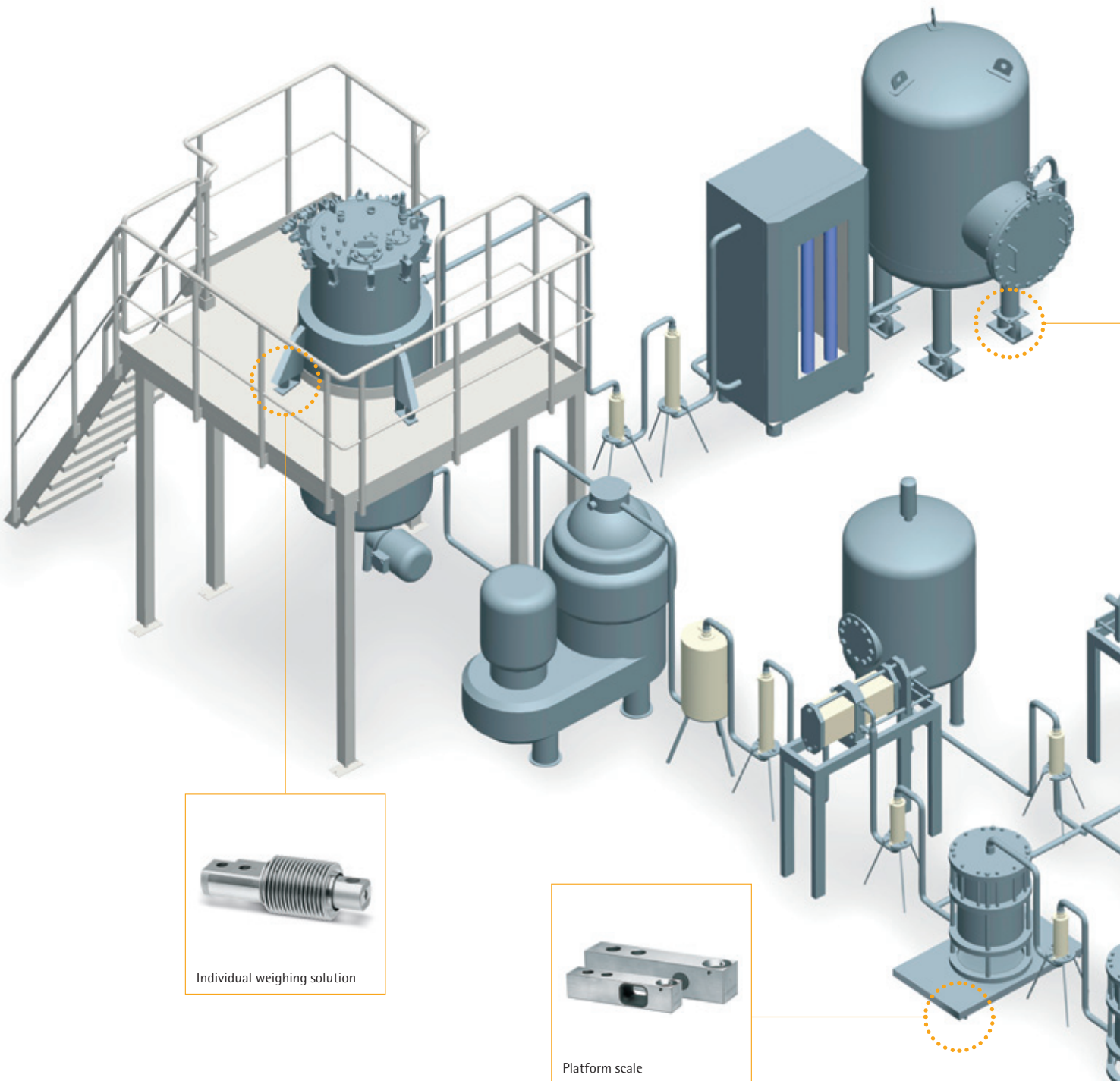


Meteor
Weighing components for the
construction of process vessel scales



For the highest process reliability – Sartorius weighing technology is always the right choice

Whether it's process vessel scales, platform scales or individual weighing solutions, the versatility and reliability of our weighing technology has proven itself for decades always ensuring efficient production processes. Because we continually upgrade this technology, we can meet the most modern requirements regardless of whether you want to monitor weighing, dosing, mixing or level.



We have the right solution for your production process

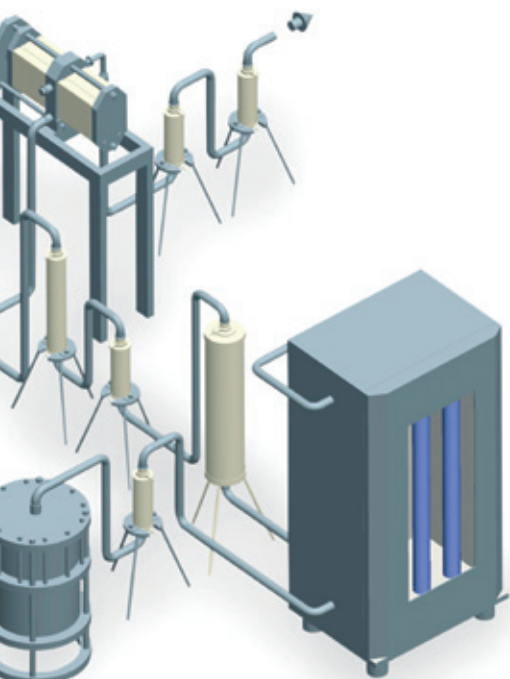
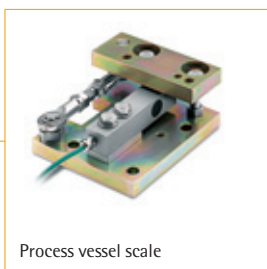
As one of the leading manufacturers of industrial weighing technology worldwide, we are always focused on finding a solution to your individual weighing needs and providing the optimal implementation of your special requirements.

You can expect more than just products from us. We are with you every step of the way as a competent and skilled partner: from the selection of the optimal solution, commissioning to years of continual operation with accompanying services.

The Meteor product family offers a comprehensive portfolio of standard weighing components with an excellent price | performance ratio. These products are characterized by the highest level of reliability, robustness and accuracy – they prove this day in and day out in many different industries.

From load cells to weighing electronics, we offer you solutions for the entire measurement chain from one source. The mounting parts form the foundation for an exact and reliable scale. On the one hand, they should ensure optimal load application in the load cell as well as, on the other hand, steer clear of potential disruptions. In this regard, Sartorius offers a number of different solutions that are specially designed for different weighing tasks.

All components have the same high quality requirements and are optimally harmonized for each other. This is the only way to ensure the highest degree of process security and reliability.

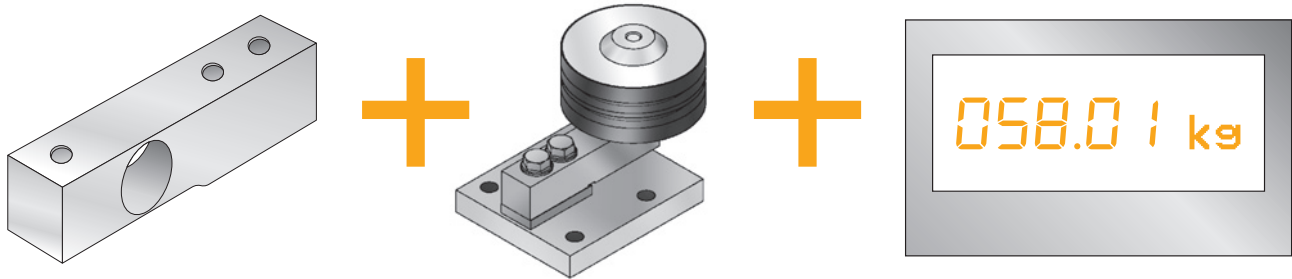


Your advantages at a glance

- ▶ Safety in the selection of the weighing solution – our many years of experience in planning, design and consulting
- ▶ Fast & secure planning phase – we support you in the creation of your design drawing
- ▶ High reliability & durability – robust component construction, IP69K protection class
- ▶ Reproducible results – exact combination of load cell and installation solution – single-source equipment
- ▶ Exact compliance with the specification – we place the highest value on product quality
- ▶ Easy assembly – standard integrated dummy function | lift-off function














The combination

that's what it's all about ...

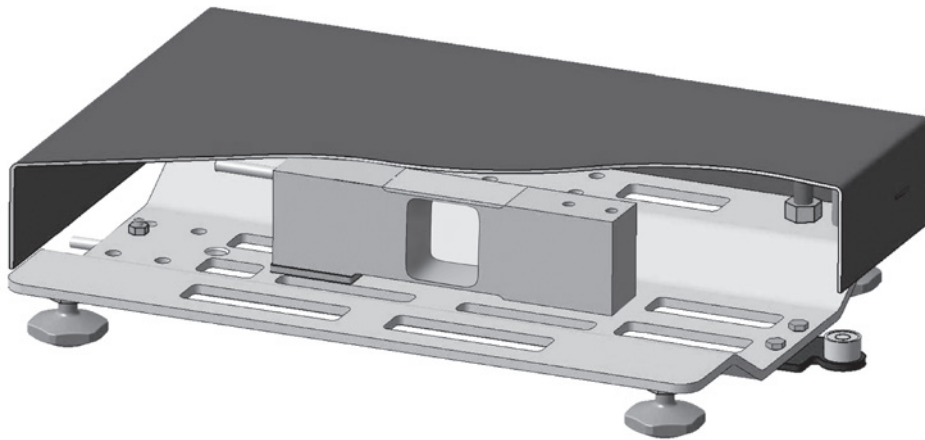






Load cells	Type	Application	Accuracy class	Protection class	Material	Nominal capacity
MP 76	S type load cell	Hybrid scale Suspended Process vessel scale Perfect for tensile loads	N, C3	IP 67	Stainless steel	60 kg 125 kg 250 kg 500 kg 1 t 2 t 3 t 5 t
MP 77	Bending beam load cell	Hybrid scale Suspended Process vessel scale	C3MR	IP 68 IP69K	Stainless steel	10 kg 20 kg 50 kg 100 kg 250 kg 500 kg
MP 58 MP 58T	Shear beam load cell	Platform scales Process vessel scales	C3MR	IP 67	Stainless steel	91 kg 227 kg 454 kg 1134 kg 2268 kg
MP 79 MP 79T	Bending beam load cell	Platform scales Process vessel scales	C3MR	IP 68 IP69K	Stainless steel	227 kg 454 kg 1134 kg 2268 kg 5099 kg

Installation solutions

MP 96	MP 97	MP 91	MP 92	MP 93	MP 94	MP 98
						
<p>Swivel head</p> <p>Mounting part for tensile load applications</p> <p>Normal steel</p> <p>Features</p> <ul style="list-style-type: none"> - Robust swivel head - Perfect for suspended containers - Maintenance-free 	<p>Mounting kit</p> <p>Simple installation solution for process vessels</p> <p>Normal steel</p> <p>Features</p> <ul style="list-style-type: none"> - Perfect for light loads - Easy installation - Integrated lift-off protector 	<p>Platform foot</p> <p>Feet for platform scale assembly</p> <p>Normal steel Stainless steel</p> <p>Features</p> <ul style="list-style-type: none"> - Highly adjustable - Available in normal steel and stainless steel - Stainless steel version suitable for food industry 	<p>Mounting kit with elastomer support</p> <p>Simple installation solution for process vessels</p> <p>Normal steel</p> <p>Features</p> <ul style="list-style-type: none"> - Reduce side forces on the load cell - Easy installation - Higher temperature range 	<p>Mounting kit</p> <p>Simple installation solution for process vessels</p> <p>Stainless steel</p> <p>Features</p> <ul style="list-style-type: none"> - Easy installation - Integrated jack-up function - Dummy function 	<p>Mounting kit with constrainer</p> <p>Simple installation solution for process vessels</p> <p>Normal steel Stainless steel</p> <p>Features</p> <ul style="list-style-type: none"> - Easy installation - Integrated constrainer - Integrated jack-up function - Dummy function 	<p>Spacer</p> <p>Spacer for optimal load cell assembly</p> <p>Stainless steel</p> <p>Features</p> <ul style="list-style-type: none"> - High hardness - Good surface characteristics - Good parallelism
		<p>Standard </p> <p>T-end </p>	<p>Standard </p>	<p>Standard </p> <p>T-end </p>	<p>T-end </p>	
<p>MP 96/00</p> <hr/> <p>MP 96/01</p>	<p>MP 97/00 N</p> <hr/> <p>MP 97/01 N</p>	<p>MP 91/00</p>	<p>MP 92/00</p>	<p>MP 93/00</p>	<p>MP 93/10</p> <p>MP 94/10</p>	<p>MP 98/00</p>
		<p>MP 91/00</p> <p>MP 91/10</p> <p>MP 91/11</p>	<p>MP 92/00</p>	<p>MP 93/00</p> <p>MP 93/10</p> <p>MP 93/11</p>	<p>MP 94/10</p> <p>MP 94/11</p>	<p>MP 98/00</p>

Single Point Load Cells – for optimal weighing results

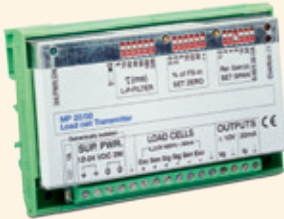


Single Point Load Cells	Type	Application	Accuracy classes	Protection class	Material	Nominal capacity
MP 70 	Platform load cell	For platform size max. 350 mm × 350 mm	C3MR	IP 67	Aluminum	5 kg 10 kg 20 kg 30 kg 40 kg 5 kg
MP 71 	Platform load cell	For platform size max. 400 mm × 400 mm	C3MR	IP 67	Aluminum	10 kg 20 kg 30 kg 50 kg 100 kg 200 kg
MP 72 	High capacity platform load cell	For platform size max. 600 mm × 600 mm	C3MR	IP 67	Aluminum	50 kg 100 kg 200 kg 300 kg 500 kg 750 kg
MP 55 	Stainless steel platform load cell	For beltweighers Counting scale Checkweigher	C3MR+	IP 68 IP69K	Stainless steel	11 kg 22 kg 50 kg 100 kg 200 kg

Electronics and accessories for weight value analysis

Only a high-quality measurement chain delivers reliable measurement results – that's why we offer a complete solution.

MP 20



Analog weighing amplifier

- Linearity better than 0.01 %
- Up to 4 load cells at 350 Ohm
- Input signal up to 3.3 mV/V
- Analog outputs 4...20 mA, 0...10 V

- Power supply 12...24 V, 110 | 230 V (option)
- IP40 protection class
- Up to 8 limit value relays (option)
- Assembly with Phoenix | DIN rail

MP 26



Digital process transmitter

- Digital signal processing with 20,000 increments of internal resolution
- Analog output 0 | 4... 20 mA, 0 | 2... 10 V, complete galvanic isolation
- Adjustment | Calibration directly on device without weights

- Configuration possible via the PC engineering tool MP 26 | 10 (option)
- Supply voltage 230 V (24 V option)
- IP20 protection class
- Mounting rail assembly

MP 30



Digital weighing indicator

- 16 bit resolution up to 20 measurements/sec
- Supply voltage: 85-250 V_{AC} 50 | 60 Hz or 11-36 V_{DC} | 24 V_{AC} (option)
- 3 digital control inputs
- Protection class of front plate IP 65
- Manual taring

Optional

- Analog output: 0 | 4-20 mA or 0-10 V_{DC}
- Serial interface: RS 232 or RS 485
- 2 relay outputs

MP 80



PVC installation cable

- 6 wires, twisted in pairs
- Including shielding
- 9 mm cable diameter

- Temperature range -25°C ... +80°C
- Available in different lengths

MP 90



Plastic cable junction box

- For 1 ... 4 load cells
- Optional for 4-conductor or 6-conductor technology
- IP 65 protection class

- Temperature range -25°C ... +80°C
- Dimensions 120 x 122 x 55 mm

Service: Skilled and Reliable Services

► We Offer You Both!

As early as the project planning stage, our service engineers get involved to expand knowledge and input their practical experience.

The advantages are reflected in streamlined processes during startup, care, corrective maintenance, servicing and system scale-up and in shorter down times.

- Maximal system availability and optimal system performance
- Minimal production down times
- Quality assurance in compliance with the current directives and standards
- Full-range services

Our service performance spectrum is wide: calibration, corrective maintenance service, training and service contracts with guaranteed response times are just some of the benefits. For instance, preventive maintenance work significantly extends the performance and lifetime of your systems; problems are detected early or, ideally, prevented altogether. We thereby help you secure your investment and optimize overall costs.

► Consulting

- Process analysis in consultation with the systems operator
- Consulting for process optimizations, system extensions and system upgrades including generation of performance specifications
- Drafting implementation concepts
- Cost estimation and implementation planning

► Getting Started

- Starting up your equipment and systems
- Monitoring the first production phase
- Initial instruction | training of operating personnel
- Circuit diagram updating

► General local service

- Troubleshooting and error analysis
- Adapting to changed production environments
- Corrective maintenance after external impacts such as lightning, storms etc.
- Installation and startup replacement equipment

► Repairs, Replacements, Spare Parts Service

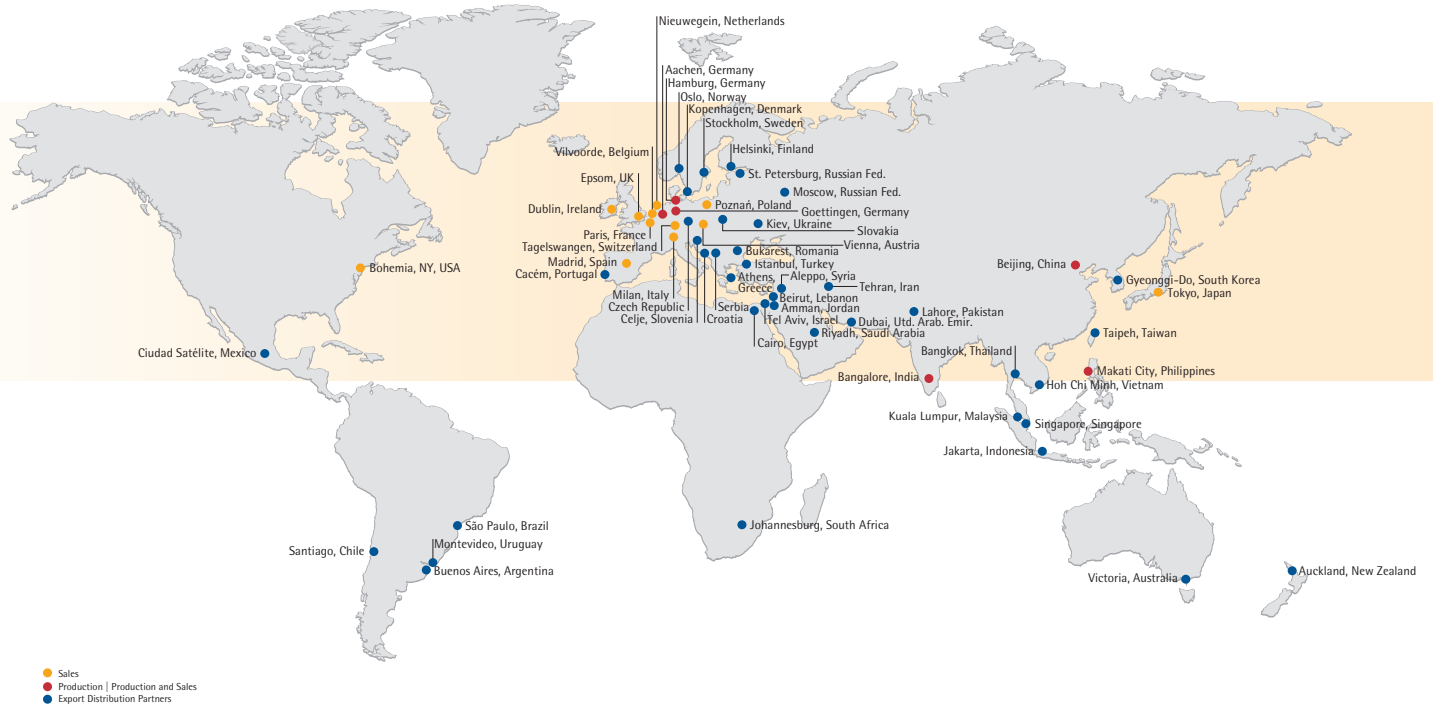
- Repairs of defective electronic modules in our workshop
- Cost-effective replacement service for defective modules
- Original spare parts available worldwide, if desired at an on-site consignment warehouse at your facilities.

► Service Contracts

- Preventive maintenance according to established standards
- Fixed response times for service engineers, if needed, around the clock, 365 days per year
- Guaranteed delivery times for spare parts



Sartorius – Your Worldwide Partner



Sartorius is a leading international laboratory and process technology provider in the biotech, pharma and food & beverage industries. We help our customers worldwide implement complex and quality-critical processes in production and laboratory settings in a way that is both time- and cost-efficient. Our innovative products, solutions and services are focused on especially value-adding segments of our target markets. Rooted in know-how and research and closely linked to our customers and partners, we put our corporate philosophy "Turning science into solutions" into practice on a daily basis.

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