

# GMP Cranes for Clean Rooms



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## 1 About Us

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Senn Konstruktionswerkstätte AG has been manufacturing special machinery since 1980. We offer engineering solutions in the fields of prototype machinery, production lines and project engineering.

Most of our products can be manufactured, assembled and tested in our own workshops in Therwil, near Basel, Switzerland. Explore our website to get an idea of what we do and feel free to contact us with your own technical needs. We'll gladly help you find a solution for your specific product idea!

Our GMP cranes are being used by well-known companies such as:

Hoffmann-La Roche

Novartis

BBraun Medical

NextPharma

Ferring

**Please contact us with your project idea to get a quote.**

## 2 Electric Monorail Cranes

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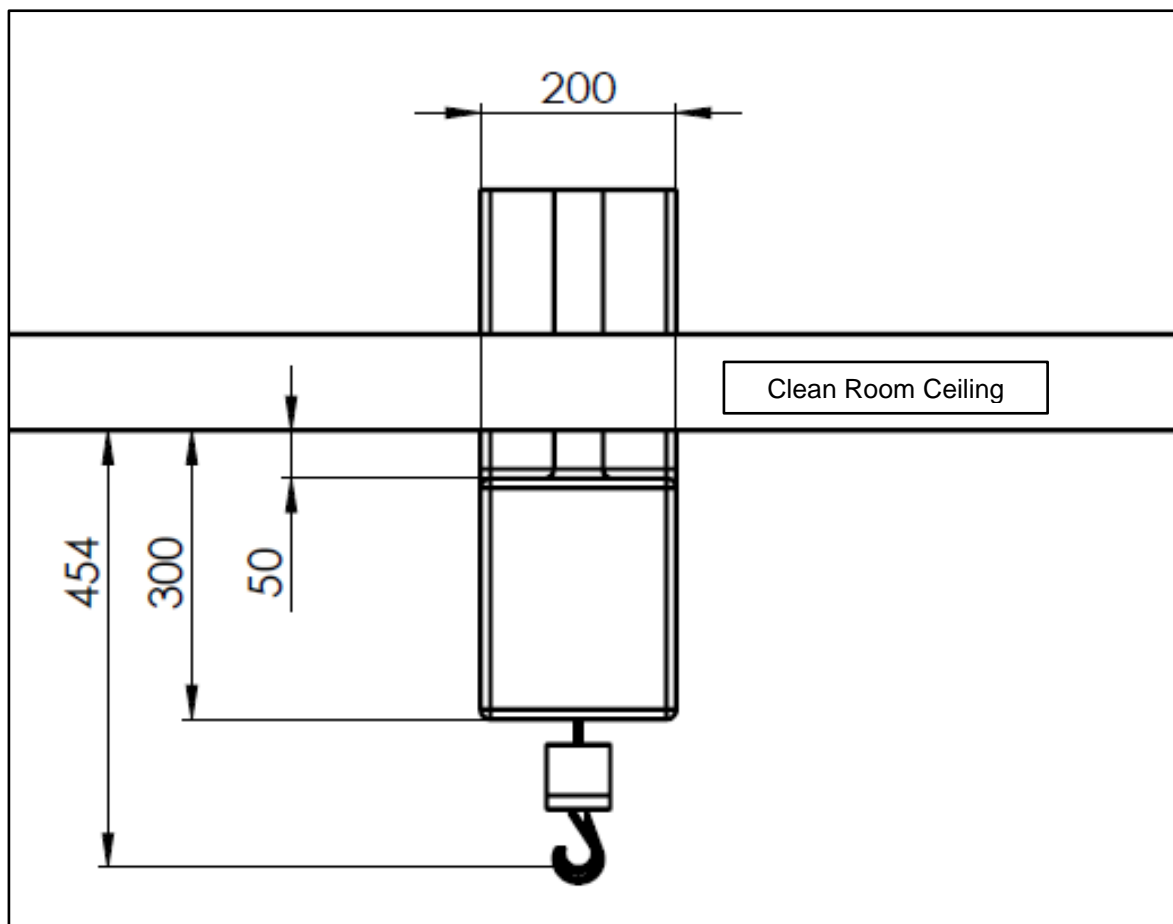
### 2.1 Type SENN MONORAIL INLINE



The SENN MONORAIL INLINE crane is designed to fit all moving components except for the hook inside the crane rail. This is one of the most GMP-optimized cranes on the market.

- Complete stainless steel design.
- Only the hook and stainless steel rope are placed outside the crane rail.
- The crane rail groove is covered by a moveable plastic belt.
- The crane drives are located above the clean room ceiling.
- Steel construction above clean room ceiling can also be provided by Senn AG upon request.
- The crane is controlled via remote control or via buttons on the switch board cabinet.

The crane's main dimensions are shown below:



Technical Data	Type SENN MONORAIL INLINE
Available Loads	100 kg
	160 kg
	320 kg
	500 kg
Max. Length of Rail	Approx. 6 m
Vertical Movement	Electrical
Horizontal Movement	Electrical or Manual
Electrical Connections	400 VAC; 50 Hz; 0.25/0.5 kW

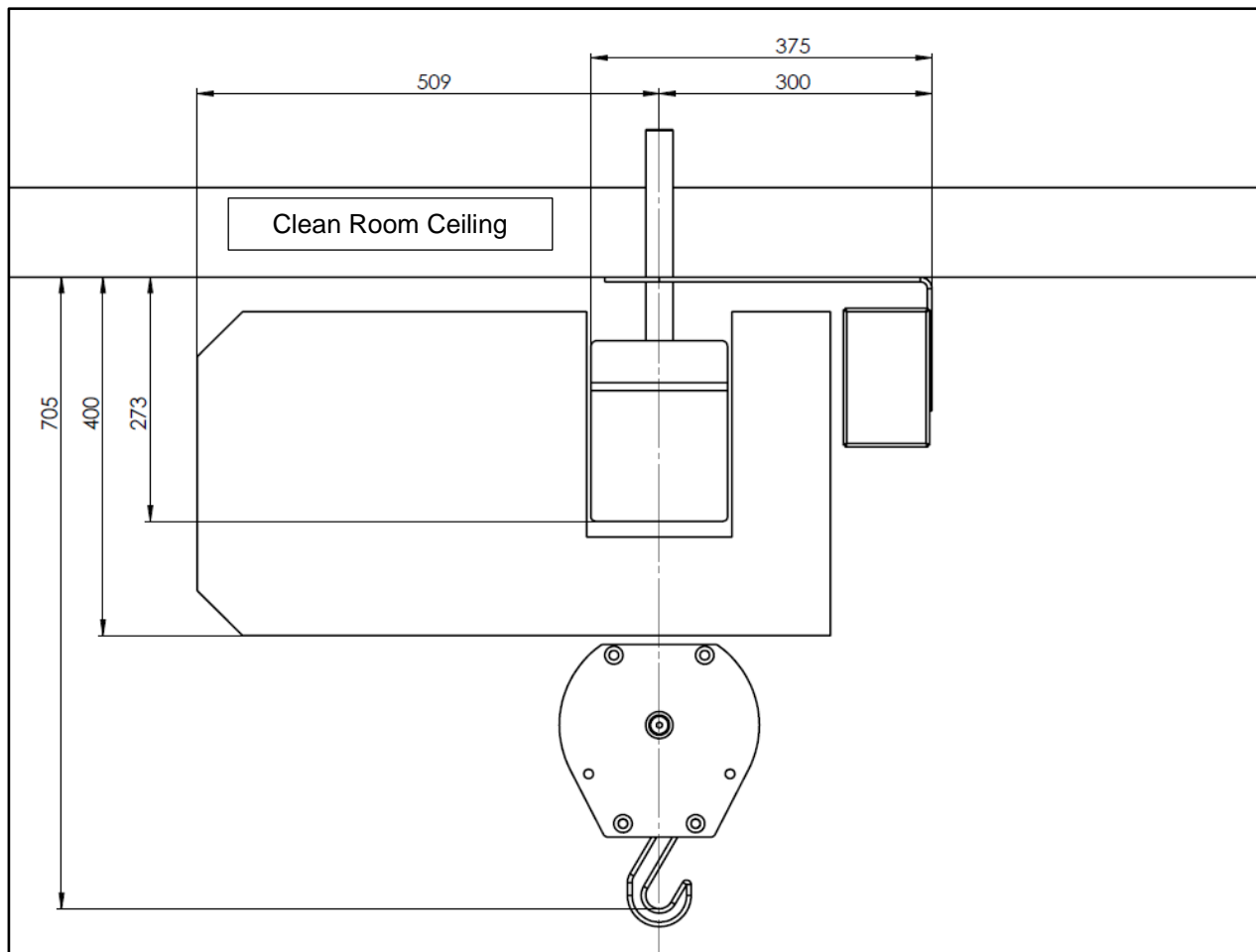
## 2.2 Type SENN MONORAIL LONG RANGE



The SENN MONORAIL LONG RANGE crane features a fully housed hoist that moves along our stainless steel rails. The cable tracks are also fully housed in a stainless steel channel. This is one of the most GMP-optimized cranes on the market.

- Complete stainless steel design.
- Fully housed hoist moves along the stainless steel rails.
- The crane drives are located in the trolley.
- Steel construction above clean room ceiling can also be provided by Senn AG upon request.
- The crane is controlled via remote control or via buttons on the switch board cabinet.

The crane's main dimensions are shown below:



Technical Data	Type SENN MONORAIL LONG RANGE
Available Loads	160 kg
	320 kg
	500 kg
	1'000 kg
Max. Length of Rail	Approx. 12 m
Vertical Movement	Electrical
Horizontal Movement	Electrical
Electrical Connections	400 VAC; 50 Hz; 0.25/0.5 kW

## 2.3 Controls

The crane drives are operated via the control buttons on the control cabinet or remote control:



Controls mounted on a switchboard cabinet.



Remote control for a crane with motorized horizontal movement.



### 3 Manual Monorail Cranes

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Our stainless steel crane rails for manual cranes can be used in combination with a variety of lifting devices such as:

Manual Chain hoists.

- Electrical Chain hoists.
- Pneumatic Chain hoists.
- Electrical belt hoists.

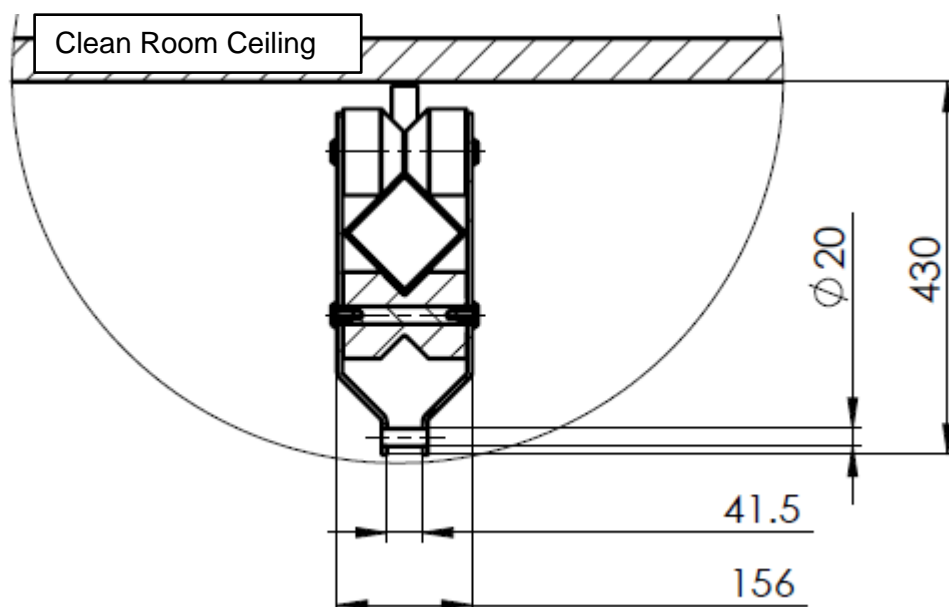
#### **Design Features:**

- Complete stainless steel design.
- Removable Trolley.



Steel construction above clean room ceiling can also be provided by Senn AG upon request.

The crane's main dimensions are shown below:



Technical Data	Type MANUAL MONORAIL
Available Loads	100 kg
	250 kg
Max. Length of Rail	Approx. 2.5 m
Vertical Movement	Electrical, Pneumatic or Manual
Horizontal Movement	Manual

## 4 Custom Cranes

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We have built many custom cranes over the years. Customers come up with special requirements for which we provide customized solutions.



Monorail twin-crane for two-sided feeding of a pill press.

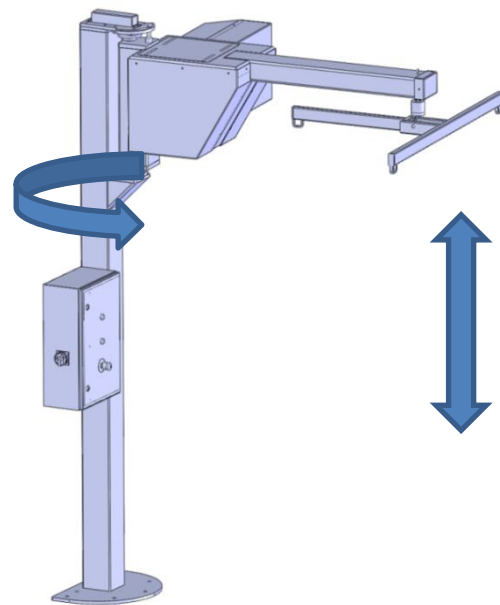


#### 4.1 Swivelling Cranes

Our crane systems can be realized as swivelling cranes, either hanging from the ceiling or floor-mounted.



The SENN MONORAIL INLINE crane shown in a swivelling version.



Floor-mounted swivelling crane.

## **4.2 Two-Axis Cranes**

Our crane systems can be expanded to work as a 2-axis system allowing movement in two horizontal directions.

**Please contact us with your project idea to get a quote.**