

# Mechrail

## Movomechs versatile lightweight rail system - an easy way to rationalize your handling

The Mechrail rail system assortment consists of different sizes and configurations of extruded aluminium profiles. The intricate design with T-channels and flanges creates profiles with maximum strength allowing a heavy load capacity. Mechrail can be used for loads up to 1000 kg. There are also profiles with completely smooth sides to allow easy cleaning in applications which demand a high degree of cleanliness.

Aluminium gives the profiles many advantageous properties. As an example, the system's low weight facilitates installation, and the use of the system becomes light and easy. With our own range of suspensions and low-friction trolleys, a complete system of tracks and cranes is easily created. Should there later on be a need for widening or lengthening the system, it can be expanded with easy-to-fit joint sets. The T-formed grooves on the sides of the profiles enable the attachment of various accessories. All of our Mechrail profiles are anodized, which makes them maintenance free and which also provides a certain level of self-lubrication.

### Many suspension alternatives

The suspension of the rail profiles is fitted into the top channel of the profile. There is a number of different suspension solutions depending on the construction of the building and available space.

### Trolleys, drive units and media supply

Each trolley has three pairs of ball-bearing wheels that run inside the profiled boom. For some applications, drive units can be connected to the trolleys. These drive units can be uncoupled, which makes the crane manoeuvrable also by hand. The Mechrail product range also includes a number of components for providing drive units or lifting equipment with compressed air or electricity.

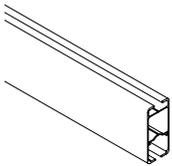
### More than just a system of booms

The profiles in the Mechrail product range are of course also used in our other products. They are a natural part of our crane system Mechcrane, as well as being part of some of our lifters, for example Mechstack. Our chain hoist Mechchain is directly adapted to the Mechrail rail and is available for the profiles LHB, AHB1 and AHB2.



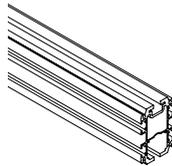
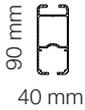
- ✓ *Safe and reliable*
- ✓ *Silent and energy efficient*
- ✓ *Low friction*
- ✓ *Quick and effective*
- ✓ *Easy to install*





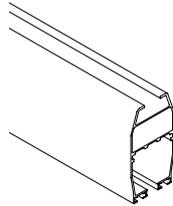
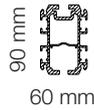
PHB

1,5 kg/m  
Ix: 51 cm<sup>4</sup>  
Iy: 14 cm<sup>4</sup>  
Wx: 11 cm<sup>3</sup>  
Wy: 3 cm<sup>3</sup>



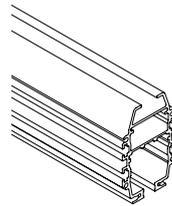
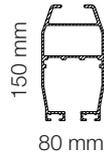
LHB

3,7 kg/m  
Ix: 123 cm<sup>4</sup>  
Iy: 51 cm<sup>4</sup>  
Wx: 25 cm<sup>3</sup>  
Wy: 17 cm<sup>3</sup>



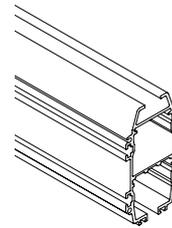
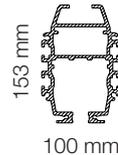
PHB1

4,0 kg/m  
Ix: 325 cm<sup>4</sup>  
Iy: 137 cm<sup>4</sup>  
Wx: 43 cm<sup>3</sup>  
Wy: 27 cm<sup>3</sup>



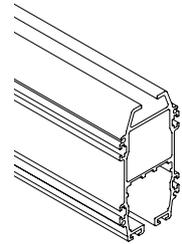
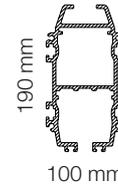
AHB1.1

7,8 kg/m  
Ix: 558 cm<sup>4</sup>  
Iy: 326 cm<sup>4</sup>  
Wx: 74 cm<sup>3</sup>  
Wy: 65 cm<sup>3</sup>



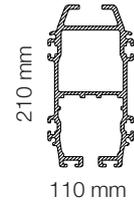
AHB2

8,6 kg/m  
Ix: 1039 cm<sup>4</sup>  
Iy: 384 cm<sup>4</sup>  
Wx: 109 cm<sup>3</sup>  
Wy: 77 cm<sup>3</sup>



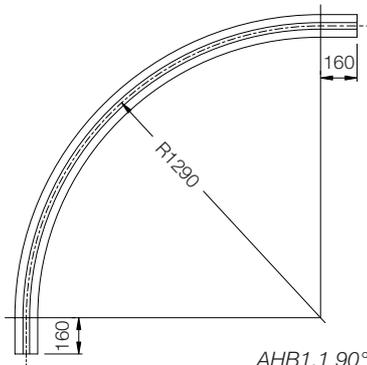
AHB3

11,2 kg/m  
Ix: 1767 cm<sup>4</sup>  
Iy: 598 cm<sup>4</sup>  
Wx: 168 cm<sup>3</sup>  
Wy: 108 cm<sup>3</sup>



AHB1.1 90°

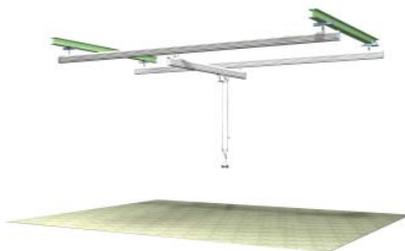
18,2 kg  
Ix: 558 cm<sup>4</sup>  
Iy: 326 cm<sup>4</sup>  
Wx: 74 cm<sup>3</sup>  
Wy: 65 cm<sup>3</sup>



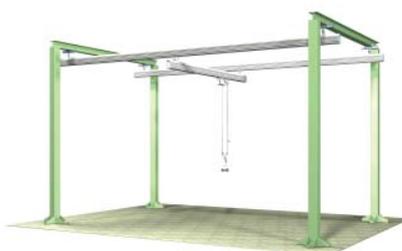
AHB1.1 90°

## Installation examples

Overhead steel structure



Goal post steel structure



Canterlever steel pillar

