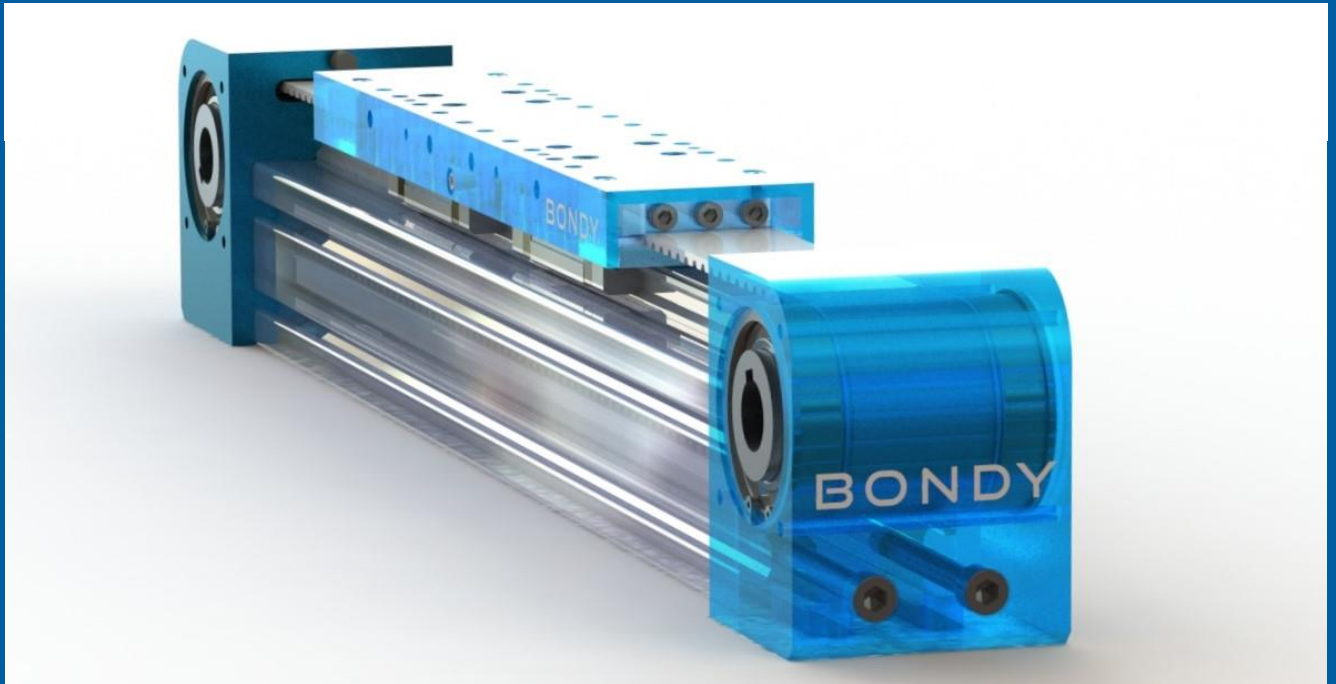


# BONDY

INDUSTRIAL EQUIPMENT SUPPLIER

## Linear Belt Driven Modules

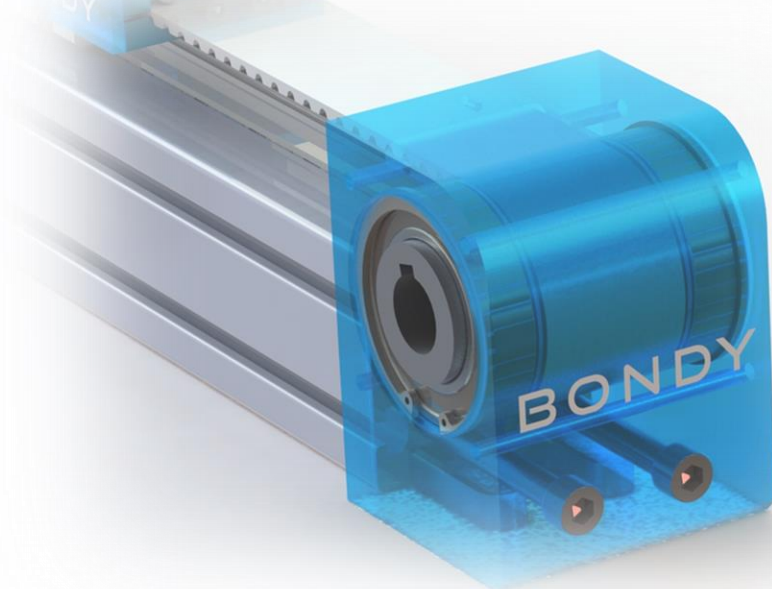


For ordering and questions call

**(+45) 70 15 14 14**

[www.bondy.dk/en](http://www.bondy.dk/en)

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## ***Bondy Linear Module - BLM***

Bondy's linear modules have been developed based on our desire to strengthen the Danish industry and contribute to the development of a sustainable society in accordance with the 17 Sustainable Development Goals.

Bondy's linear modules will be produced by Bondy in Denmark, from Danish stock items to the Danish market, and from raw materials from Denmark and EU – And in that way we can support local workplaces, emit less carbon emissions from transportation and promote a sustainable industry with economic growth.

## ***What is BLM?***

In the design process, we focused on achieving a good price, delivery time, user-friendliness, and lifespan - and we strongly believe that we have achieved that.

The design gives us the opportunity to be able to:

- Use a larger guide than you normally would place in a linear module of same size with an internal guide.
- Use a wider and stronger timing belt than you normally would place in a linear module of same size with an internal guide.
- Deliver modules with longer lifespan than a normal timing belt module with an internal guide.
- Deliver a completed module within two weeks.
- Renovate a module within two weeks.
- Deliver spare parts from day to day.
- Offer highly competitive prices.
- Deliver a sustainability certificate with our SHS modules.



We believe that industrial sustainability is important and necessary, and therefore our linear modules are produced with sustainability in mind. From an environmental point of view, we can now offer our customers modules that meet several important factors:

### **Quality Assurance**

Bondy is ISO 9001 certified – which means that we have applied a quality management system which ensures that high quality standards are always met and are in accordance with customer requirements and relevant legal and regulatory requirements. This ensures us a consistent and sustainable production that guarantees high quality linear modules.

### **Certification**

At Bondy we are communicating closely with our suppliers, and we continuously check whether they fulfil their obligations according to the REACH-, RoHS-, and Conflict Minerals regulations. A transparent and sustainable supply chain makes sure that the materials in our linear modules meet legal requirements and are produced in a descent way – that is why we must have the certification and documentation in place.

### **Made in Denmark**

We produce our linear modules internally and have prioritised to select suppliers that is placed, and components that is produced, geographically close to us – wherever possible. This means that the majority of linear modules consists of components produced in Denmark and Europe.

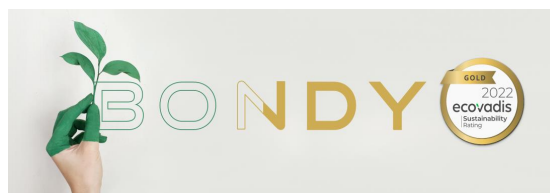
Our own production in Denmark and local procurement have many clear advantages for both us and our customers:

- We have greater control over the quality when we produce ourselves and the closer, we are to our suppliers, the easier we can follow up on whether they meet legal requirements and Bondy's expectations and requirements.
- We can respond to customer requests faster and with more flexibility as it is easier to coordinate production, purchases, and shipments.
- We minimise transportation-distance and time, both when shipping linear modules to our customers and when suppliers ship components to us. This is beneficial for the environment as less transportation causes less carbon emissions and thus less negative impact on the environment.

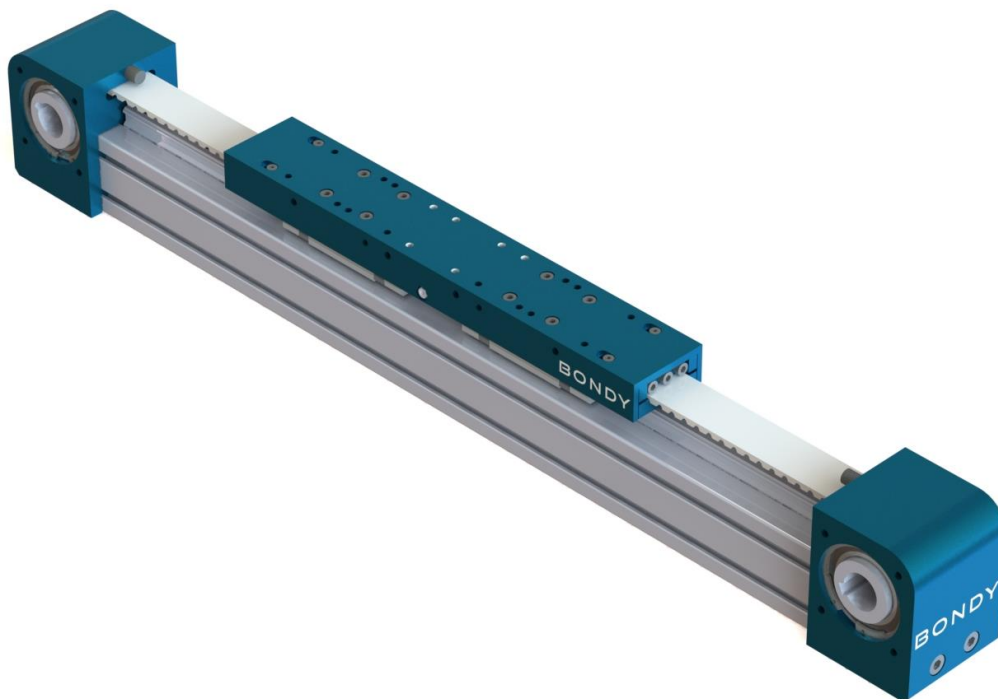
### **Sustainability**

At Bondy sustainability is one of our focus areas and we have implemented various internal measures.

Read more about our work with sustainability at: [bondy.dk/en/industrial-sustainability/](https://bondy.dk/en/industrial-sustainability/).

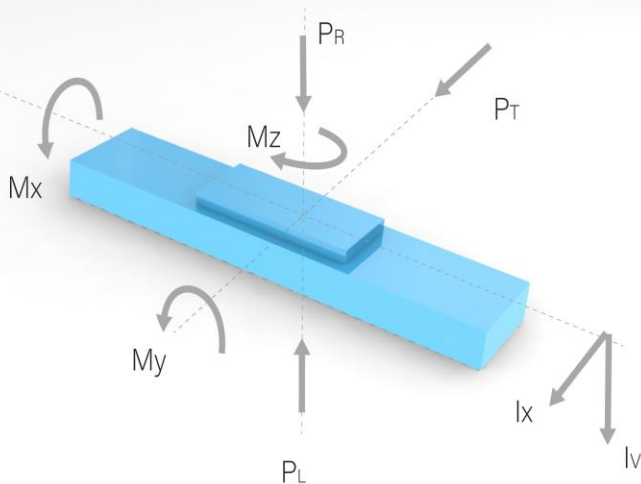


## LINEAR ACTUATOR MODULE HGH/SHS



Type	BLM 60	
Profile Cross-Section (W x H)	60x60 mm	
Building Height (mm)	104	
Drive Element	Toothed Belt 32mm	
Feed (mm/rev)	174.21	
Working load max. Dyn. (N)	5500	
Repeatability (mm)	±0,05	
V max. (m/s)	5	
Stroke max. One-piece (mm)	5620	
Accessories		
Belt	AT10-32 Breco	AT10-32 Breco
Rail	HGR20RC	SHS20
Blocks	HGH20CAZ0C	SHS20VSS
Bearings	Taper Roller Bearing 6908-2RS	Taper Roller Bearing KOYO6007

Load type *	HGH 20	SHS 20
Basic Dynamic Load Rating (N)	3613	2973
Basic Static Load Rating (N)	4891	5120
<b>Moments</b>		
MX (Nm)	39	52
MY (Nm)	94	412
MZ (Nm)	94	412
<b>No-Load Torque (Nm)</b>		
<b>Area Moment of Inertia (cm<sup>4</sup>)</b>		
Ix	56.33	
Iy	61.04	
<b>Mass Moment of inertia (Kg<sup>3</sup>)</b>		
<b>Mass (Kg) **</b>		
Basic Mass	8.48	
Mass pr. 100 mm stroke	0.71	
Carriage Mass	0.91	

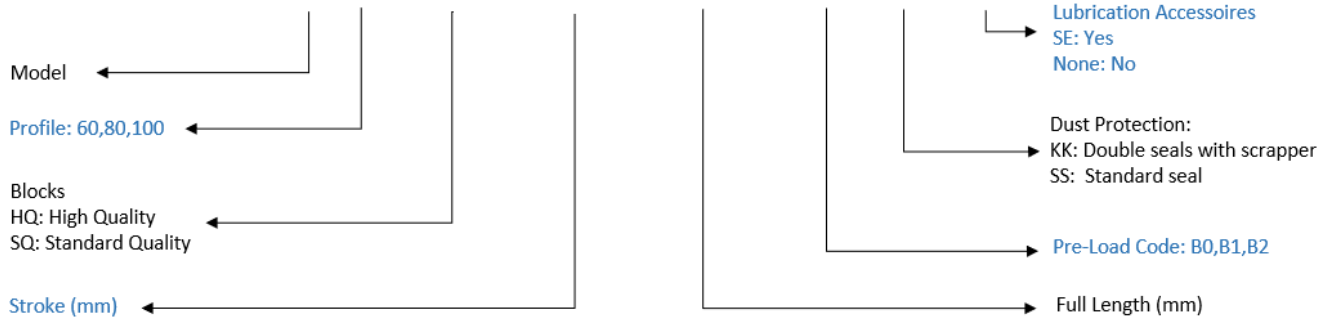


**Max profile length: 6000 mm**  
without joints

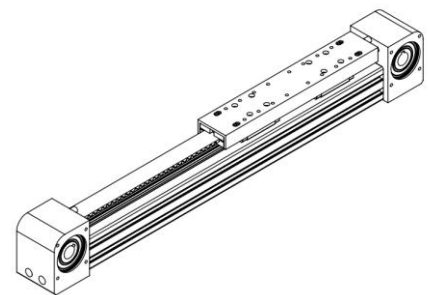
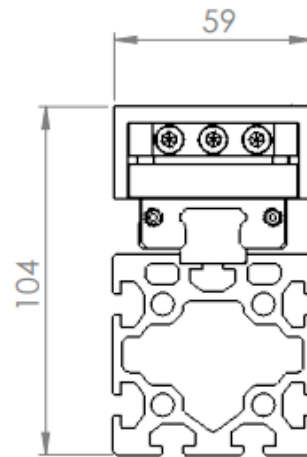
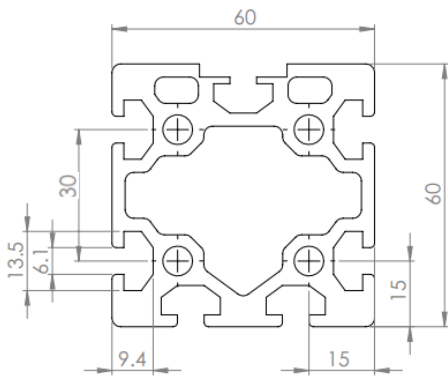
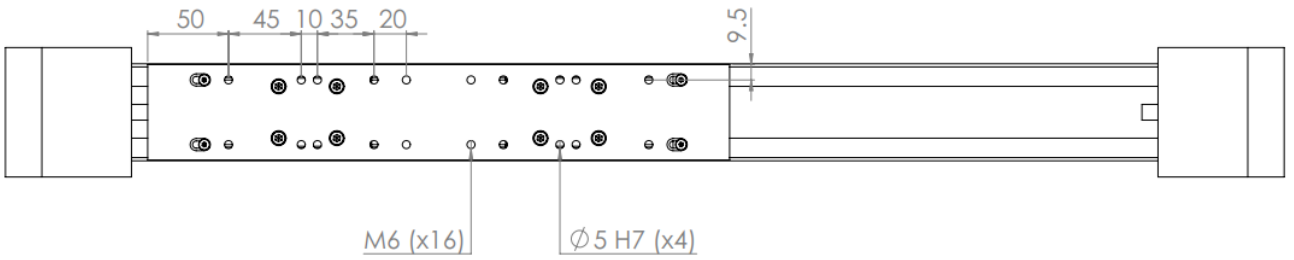
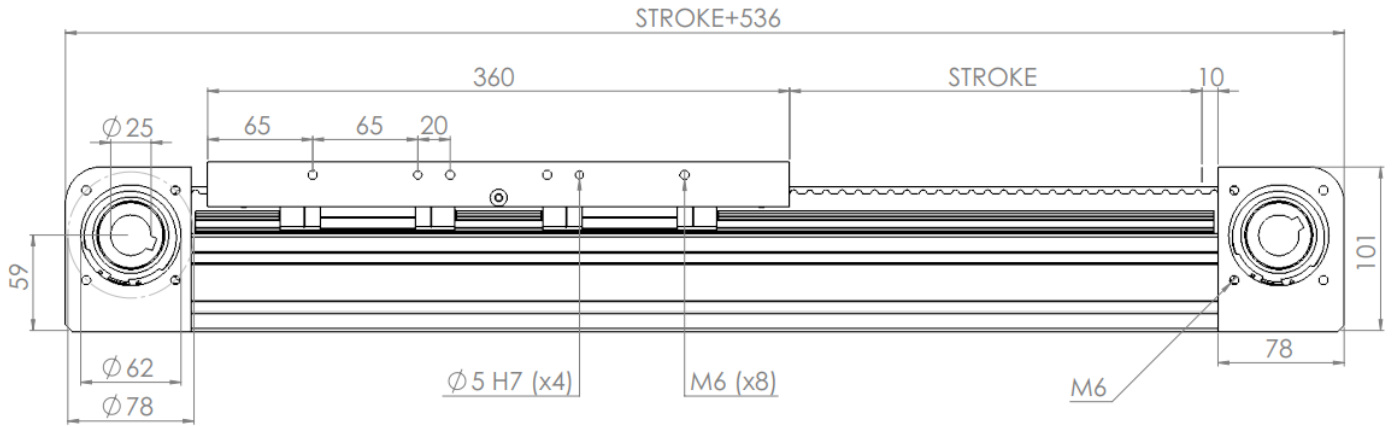
\*Loads and Moments  
with double blocks

\*\* Basic mass calculated  
from 0 mm Stroke

**BLM80-HQ-1000-1642-B0-KK-SE**



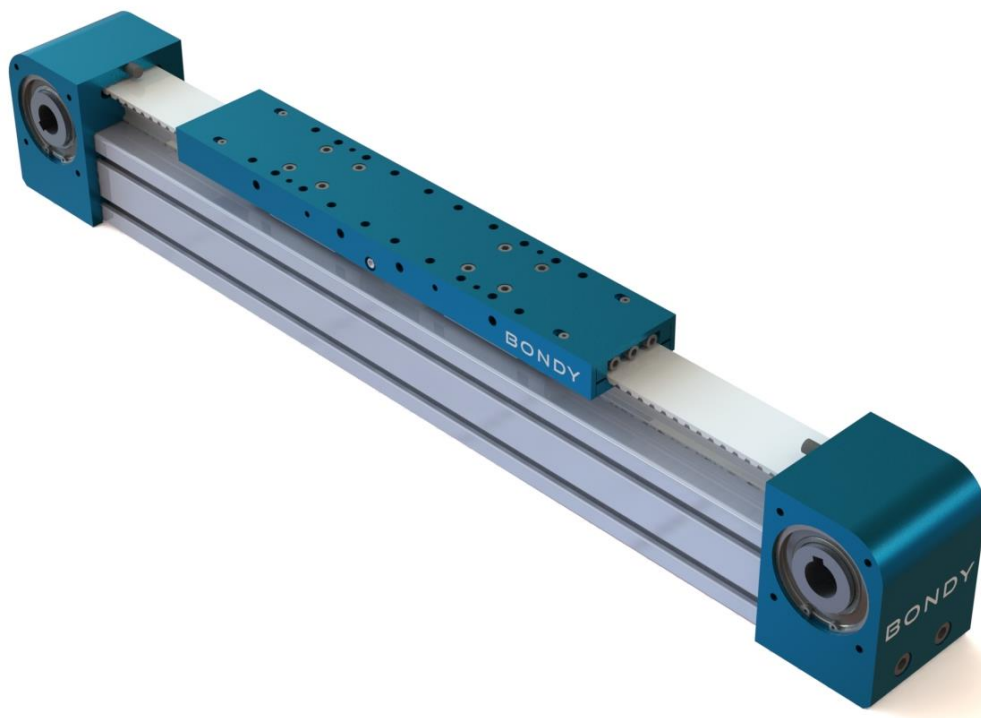




\* **Unit mounting:** By T-slot and mounting sets, the linear module can be combined with standard T-slot sizes

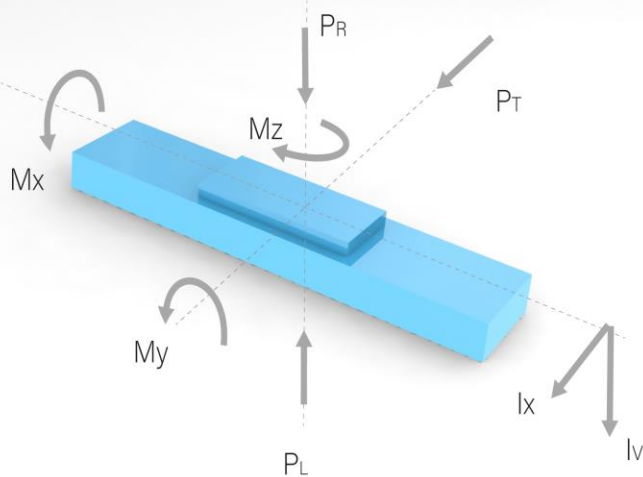


## LINEAR ACTUATOR MODULE HGL/SHS



Type	BLM 80	
Profile Cross-Section (W x H)	80x80 mm	
Building Height (mm)	130	
Drive Element	Toothed Belt 50mm	
Feed (mm/rev)	214.18	
Working load max. Dyn. (N)	8500	
Repeatability (mm)	±0,05	
V max. (m/s)	5	
Stroke max. One-piece (mm)	5560	
Accessories		
Belt	AT10-50 Breco	AT10-50 Breco
Rail	HGR25RC	SHS25
Blocks	HGL25CAZ0C	SHS25VSS
Bearings	Taper Roller Bearing N6009-2RS	Taper Roller Bearing KOYO6009-2RS

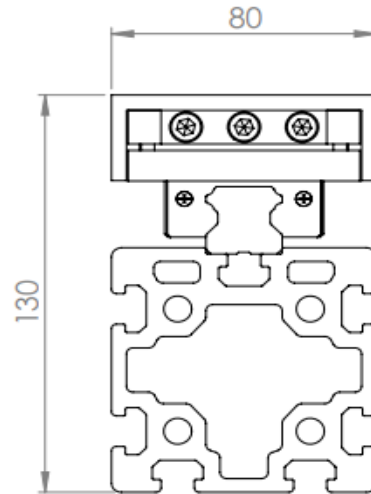
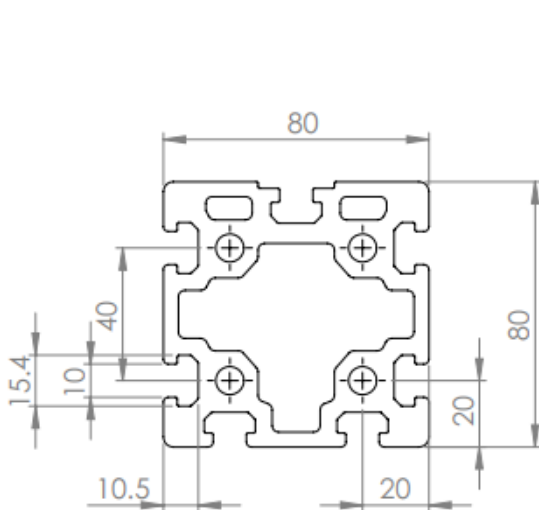
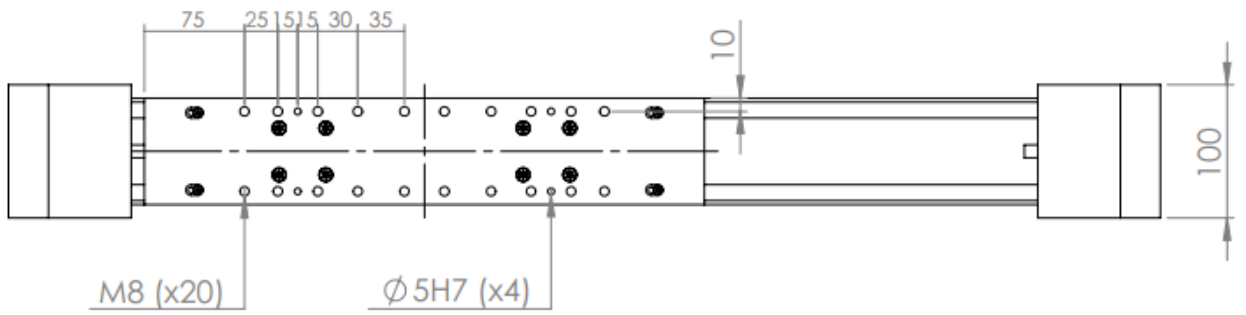
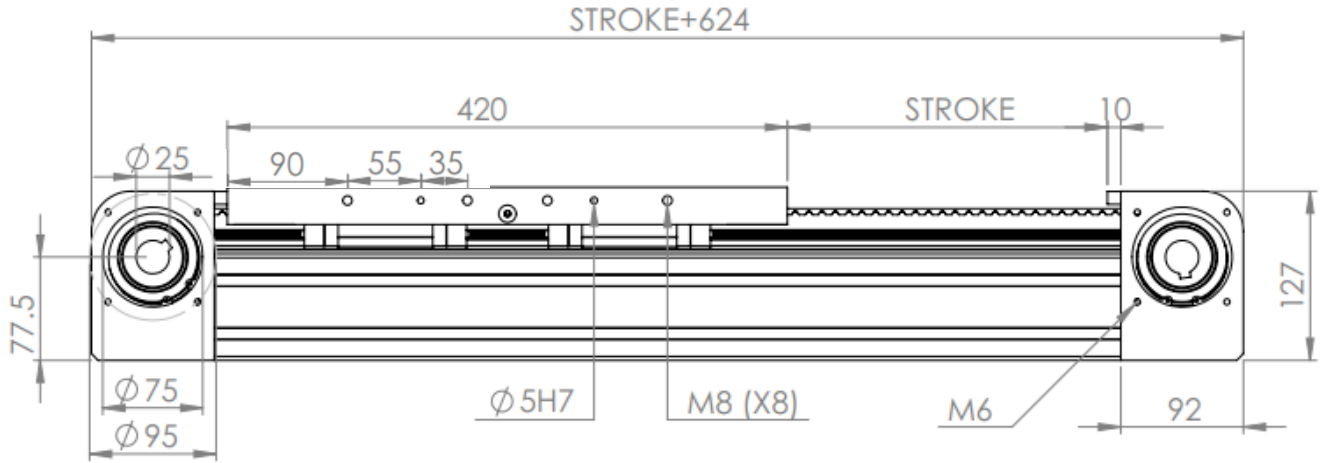
Load type *	HGL 25	SHS 25
Basic Dynamic Load Rating (kN)	4653	4227
Basic Static Load Rating (kN)	7043	6987
Moments		
MX (Nm)	60	81
MY (Nm)	155	647
MZ (Nm)	155	647
No-Load Torque (Nm)		
Area Moment of Inertia (cm <sup>4</sup> )		
Ix		196.4
Iy		190.5
Mass Moment of inertia (Kg <sup>3</sup> )		
Mass (Kg) **		
Basic Mass		15.91
Mass pr. 100 mm stroke		1.25
Carriage Mass		1.5



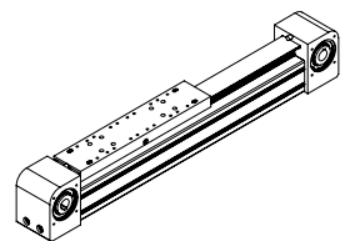
**Max profile length: 6000 mm**  
without joints

\*Loads and Moments  
with double blocks

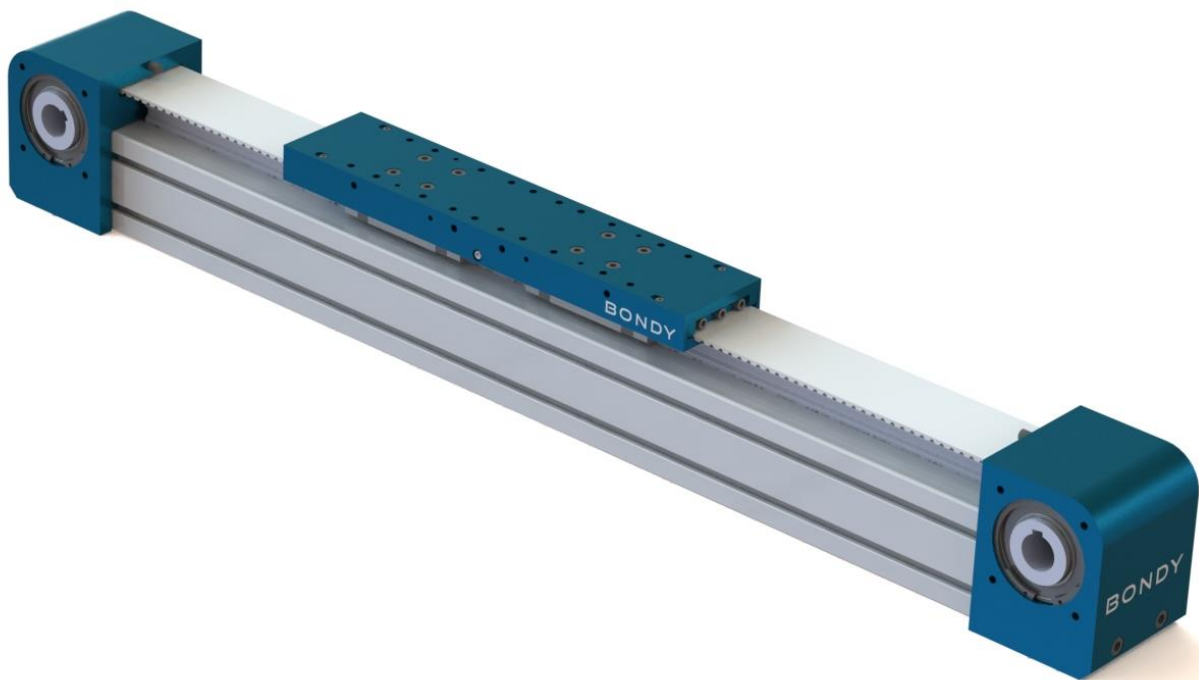
\*\* Basic Mass Calculated from  
0 mm Stroke



**\* Unit mounting:** By T-slot and mounting sets, the linear module can be combined with standard T-slot sizes

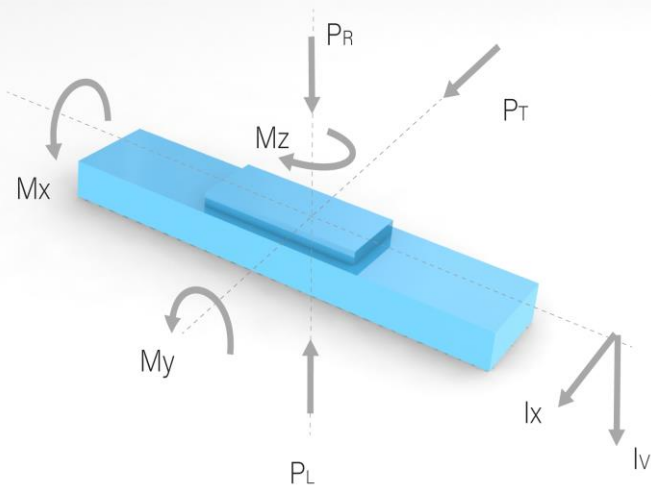


## LINEAR ACTUATOR MODULE HGL/SHS



Type	BLM 100	
Profile Cross-Section (W x H)	100x100 mm	
Building Height (mm)	158	
Drive Element	Toothed Belt 75mm	
Feed (mm/rev)	254.15	
Working load max. Dyn. (N)	12750	
Repeatability (mm)	±0,05	
V max. (m/s)	5	
Stroke max. One-piece (mm)	5520	
Accessories		
Belt	AT10-75 Breco	AT10-75 Breco
Rail	HGR30RC	SHS30
Blocks	HGL30CAZ0C	SHS30VSS
Bearings	Taper Roller Bearing 6011-2RS IBU	Taper Roller Bearing KOYO6009-2RS

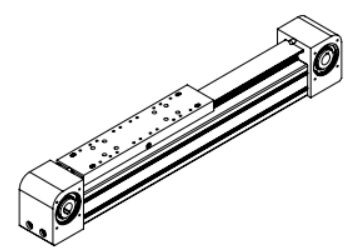
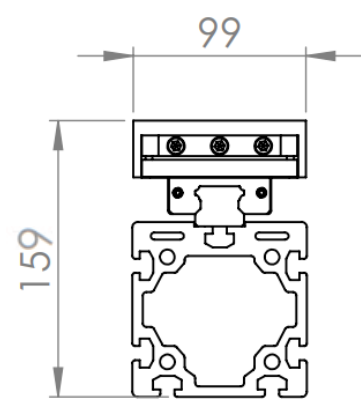
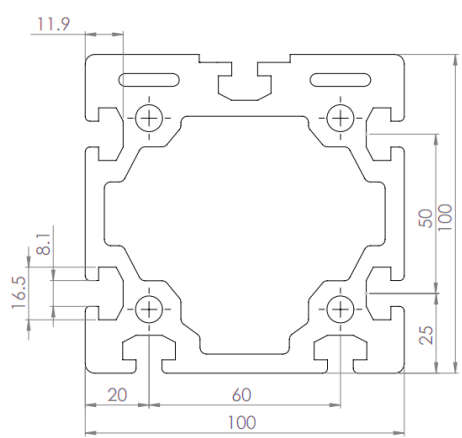
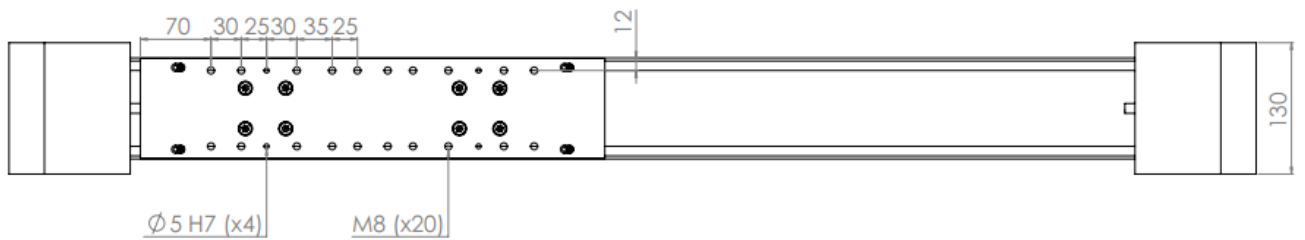
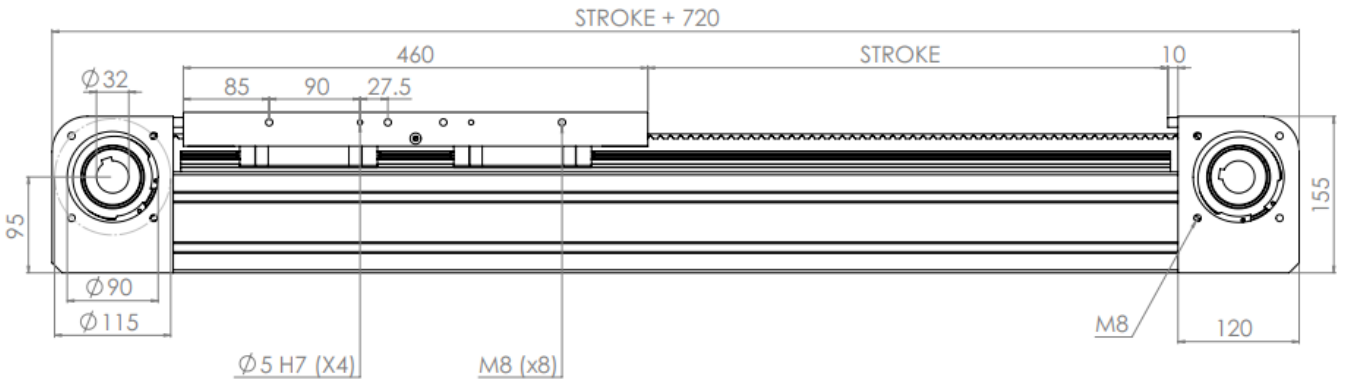
Load type*	HGL 30	SHS 30
Basic Dynamic Load Rating (kN)	6467	5973
Basic Static Load Rating (kN)	9583	8880
Moments		
MX (Nm)	95	124
MY (Nm)	249	370
MZ (Nm)	249	370
No-Load Torque (Nm)		
Area Moment of Inertia (cm <sup>4</sup> )		
Ix	469.6	
Iy	470	
Mass Moment of inertia (Kg <sup>3</sup> )		
Mass (Kg)**		
Basic Mass	28.53	
Mass pr. 100 mm stroke	1.74	
Carriage Mass	2.57	



**Max profile length: 6000 mm**  
without joints

\*Loads and Moments  
with double blocks

\*\* Basic mass calculated  
from 0 mm Stroke



\* **Unit mounting:** By T-slot and mounting sets, the linear module can be combined with standard T-slot sizes