



Robotic Linear Tracks

Product Range

www.kyrus.eu.com

HiGlyde Robotic Linear Tracks

Designed and manufactured using **unique aluminium extrusions***, the Kyrus range of linear tracks come in three different sizes for various payloads.

Due to the **flexible design**, rack and pinion systems are **fully modular and easily extendable** to any length, with further drive options* available across the range to suit a variety of applications.

Comprising of base modules with single carriages as standard, a **comprehensive list of optional extras** are also available. These include additional carriages, robot risers and auto lubrication as well as many others, all allowing you to build the HiGlyde track to your specific requirements.

*See data on reverse for more

Mounting Options



Floor



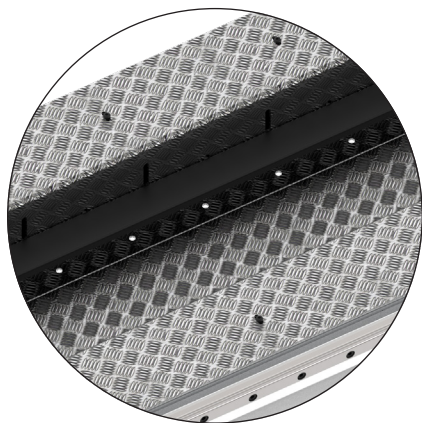
Wall



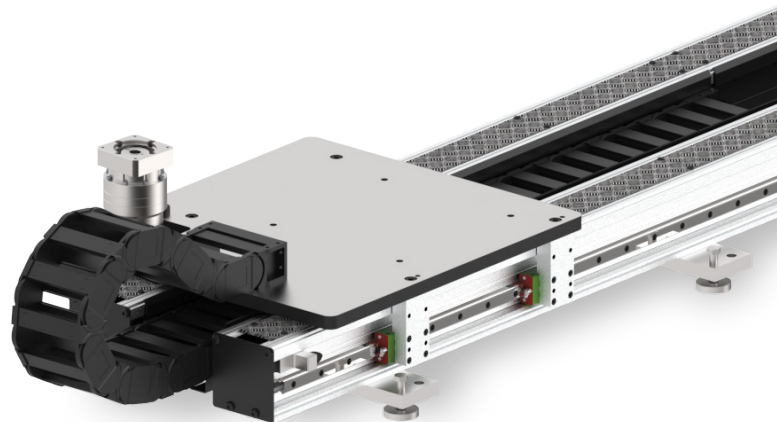
Ceiling



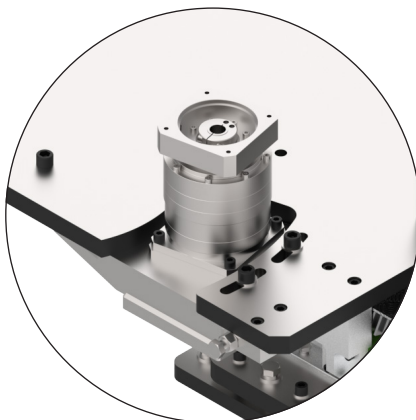
 **HiGlyde Mini**
Payloads up to 100kg



Anti slip chequer plate with central cable management system.



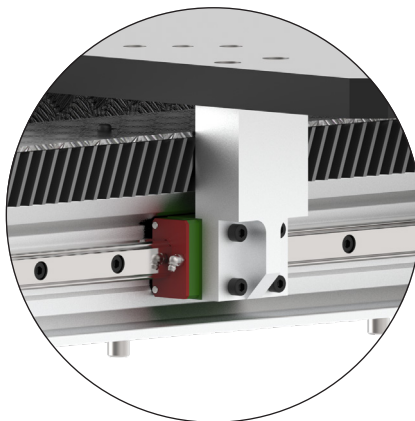
 **HiGlyde Midi**
Payloads up to 750kg



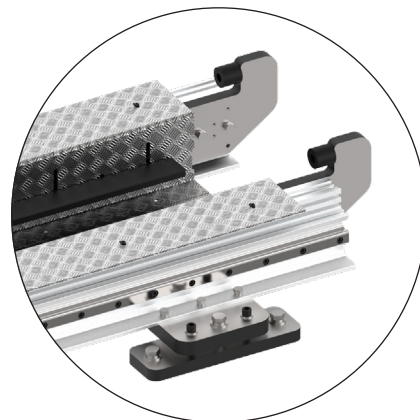
Integrated swing in gearbox housing allow for adjustments to be easily made.



 **HiGlyde Max**
Payloads up to 5000kg



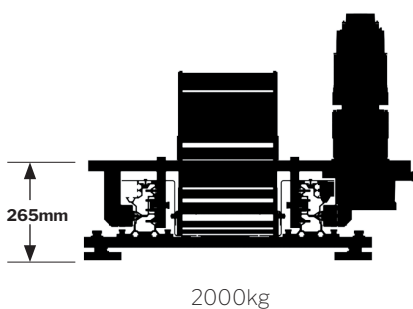
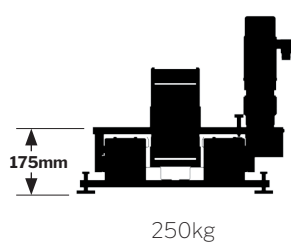
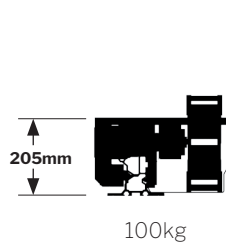
Low mounted precision linear guide rail for superior stability and rigidity with helical rack for smooth running.



System specific end stops, adjustable feet with levelling screws and cross joining plates to match load requirements.



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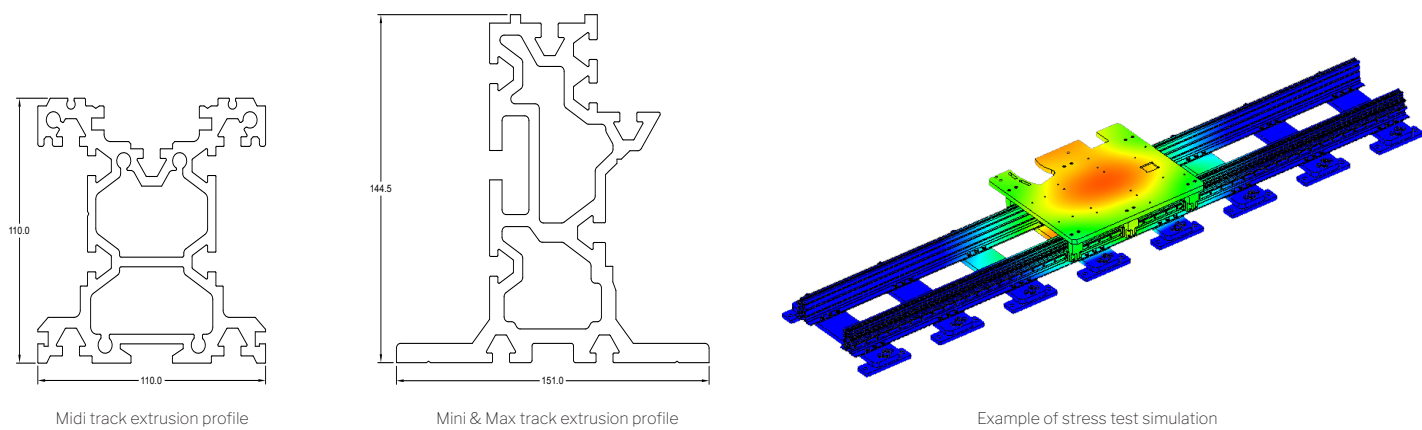
These tracks have been designed to be one of the lowest mounting available, creating a safer working environment.

Technical Data

Investments made in the design and manufacture of our **unique aluminium extrusions** mean that features for specific applications can be easily integrated, while prices remain competitive.

Stress tests performed on all tracks show the rigidity of the aluminium extrusions. These tests are performed at a **safety factor of 3:1 as a minimum** with some models undergoing more rigorous tests than normal usage would demand. This ensures that both Kyrus and the customer are fully satisfied with the product's ability to undergo its function.

The linear tracks are manufactured from two types of extrusions, profiled below:



		Mini	Midi			Max			
Payload	Kg	100	250	500	750	1000	2000	3000/4000	5000
Construction		Single	Twin Beam (Midi)			Twin Beam (Max)			
Drive Type		Belt	Rack & Pinion with options on Belt Drive and Pneumatic on 250kg				Rack & Pinion and Ball Screw		
Max Speed (100% Duty Cycle)	m/s	4	2.09		1.96	1.77		1.5	0.79
Max Acceleration Allowed (Faster on Request)	m/s	8	2			1.8		1.2/0.7	0.8
Repeatability	mm	0.05			0.1				0.15
Acceleration Torque Required	Nm	55	100		220	360	600	670	1320
Distance per Motor rev	mm	62.84	41.89		39.28	53.02		46.74	31.42
Max Acceleration Torque Allowed Through Gearbox	Nm	125			330	700			1400
Nominal Torque (continuous running)	Nm	75			180	360			750

Gearbox Backlash ≤3 arcmin standard - (1 arcmin optional)

Due to the modular nature of the HiGlyde Robotic Linear Tracks, performance data is based on the most common application. This can be customised to suit specific customer requirements. Further technical data is available through the website or on request.

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