

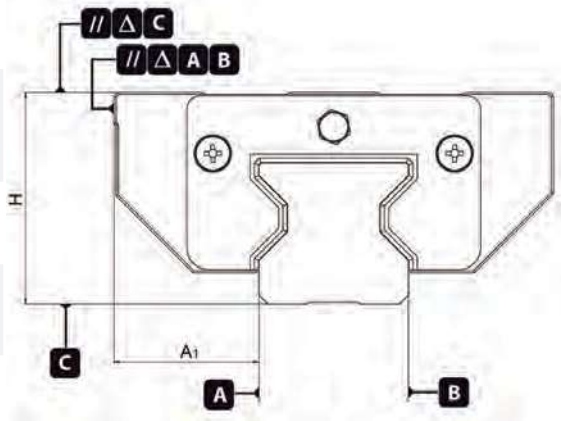
2.1 Accuracy classes and tolerances

The MG monorails are available in 4 accuracy classes: Q0, Q1, Q2, and Q3

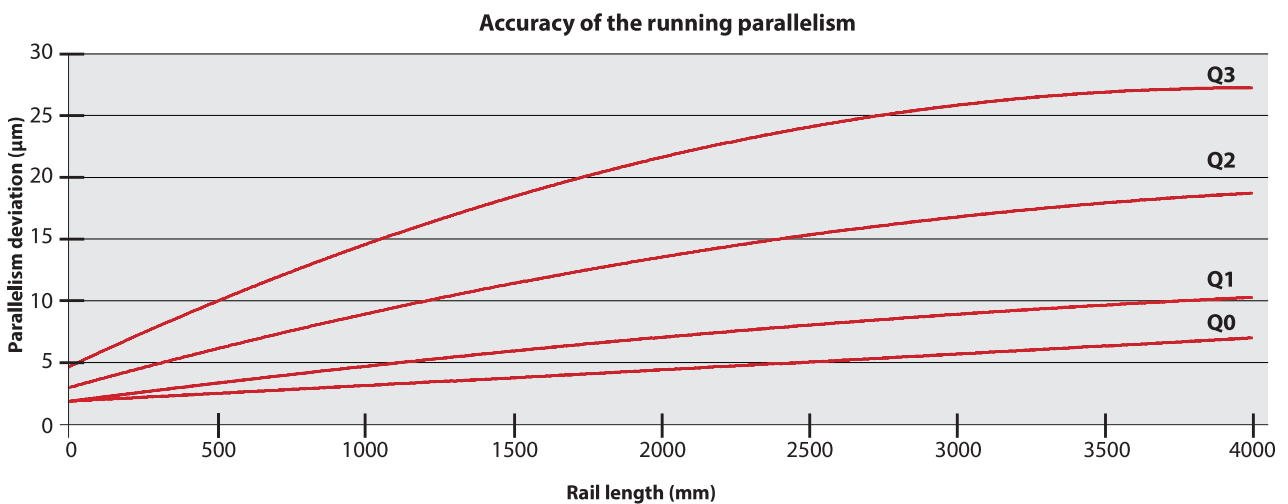
The tolerances in assembly dimensions are measured from the centre of the block and in the same position of the rail

The sliding accuracy of the carriage over the guide is measured from the centre of the carriage

Tolerances	Accuracy class			
	Q0	Q1	Q2	Q3
Tolerance on H dimension	± 5 µm	± 10 µm	± 20 µm	± 30 µm
Tolerance on A1 dimension	± 5 µm	± 7 µm	± 20 µm	± 20 µm
Variation on H dimension between block of the same rail	3 µm	5 µm	7 µm	15 µm
Variation on A1 dimension between block of the same rail	3 µm	5 µm	7 µm	15 µm
EA: (Extra coupling) maximum dimensions deviation between blocks of two or more parallel rails Δ H	standard 10 µm coupling 5 µm	standard 20 µm coupling 7 µm	standard 40 µm coupling 10 µm	standard 60 µm coupling 25 µm
Parallelism deviation Δ C and Δ A-B	See diagram below			



2.2 Sliding accuracy



2.3 Preload classes

The preload increases the stiffness of the guide, but influences the life and the resistance to the movement. The two preload classes that are suggested can meet the different application needs.