



Data Specs

MGN12C Series Linear Guideway

Linear guideways provide a type of linear motion that utilizes re-circulating rolling elements between a profiled rail and a bearing block. The coefficient of friction on a linear guideway is only 1/50 compared to a traditional slide and are able to take loads in all directions. With these features, a linear guideway can achieve high precision and greatly enhanced moving accuracy.



SKU: [MCH-1260](#)

Package Include:

- 1x MGN12C Linear Block.
- 1x MGN12 Linear Rail Length: 298mm.

Brief Data:

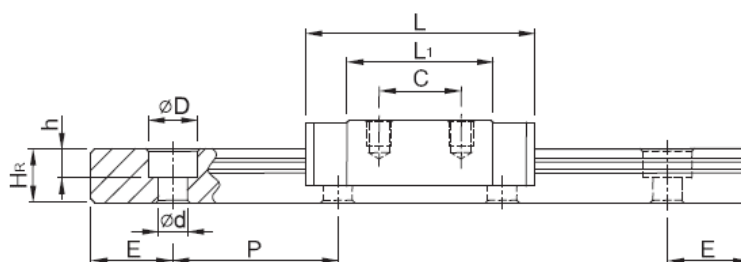
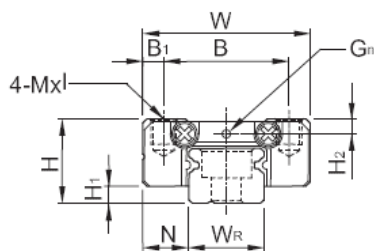
- Tiny and light weight, suitable for miniature equipment.
- All materials for block and rail, including rolling balls and ball retainers, are stainless steel for anti-corrosion purpose.
- Gothic arch contact design can sustain loads from all directions and offer high rigidity and high accuracy.
- Steel balls will be held by miniature retainer to avoid balls from falling out even when the blocks are removed from the rail installation.

Application:

- 3D Printer
- DIY CNC Machine & Robotics
- Linear Motion

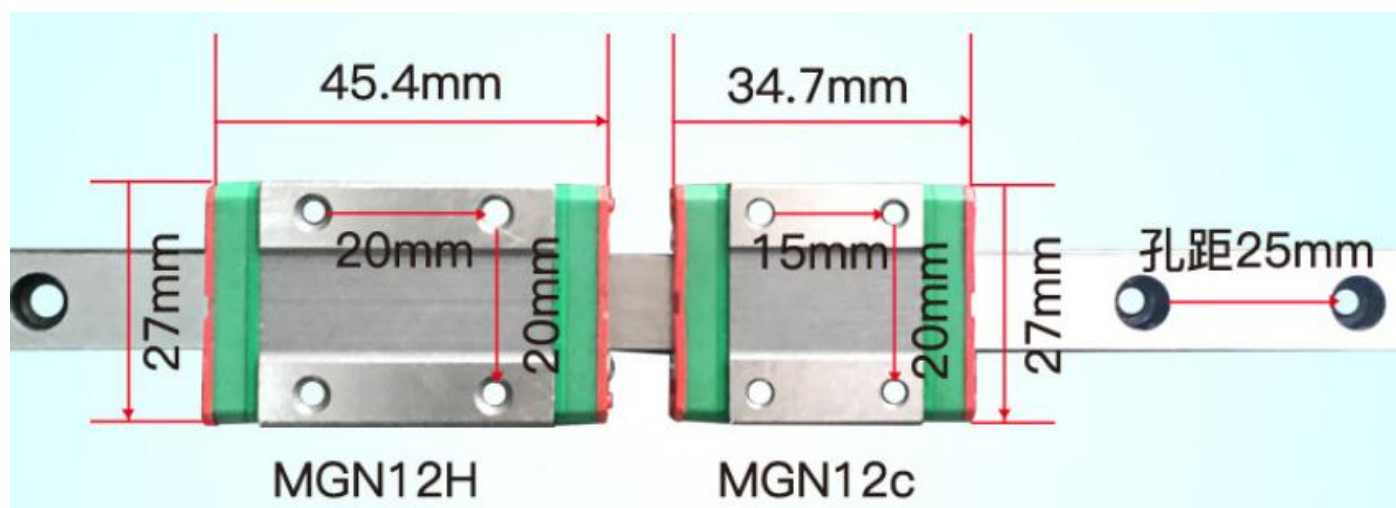
Mechanical Dimension:

Unit: mm



Model No.	Dimensions of Assembly (mm)			Dimensions of Block (mm)											Dimensions of Rail (mm)								Mounting Bolt for Rail	Basic Dynamic Load Rating	Basic Static Load Rating	Static Rated Moment			Weight	
	H	H ₁	N	W	B	B ₁	C	L ₁	L	G	G _a	Mx1	H ₂	W _R	H _R	D	h	d	P	E	(mm)	C(kN)	C ₀ (kN)	M _R N-m	M _P N-m	M _V N-m	Block kg	Rail kg/m		
MGN5C	6	1.5	3.5	12	8	2	-	9.6	16	-	Ø0.8	M2x1.5	1	5	3.6	3.6	0.8	2.4	15	5	M2x6	0.54	0.84	2	1.3	1.3	0.008	0.15		
MGN7C	8	1.5	5	17	12	2.5	8	13.5	22.5	-	Ø1.2	M2x2.5	1.5	7	4.8	4.2	2.3	2.4	15	5	M2x6	0.98	1.24	4.70	2.84	2.84	0.010	0.22		
MGN7H							13	21.8	30.8													1.37	1.96	7.64	4.80	4.80	0.015			
MGN9C	10	2	5.5	20	15	2.5	10	18.9	28.9	-	Ø1.4	M3x3	1.8	9	6.5	6	3.5	3.5	20	7.5	M3x8	1.86	2.55	11.76	7.35	7.35	0.016	0.38		
MGN9H							16	29.9	39.9													2.55	4.02	19.60	18.62	18.62	0.026			
MGN12C	13	3	7.5	27	20	3.5	15	21.7	34.7	-	Ø2	M3x3.5	2.5	12	8	6	4.5	3.5	25	10	M3x8	2.84	3.92	25.48	13.72	13.72	0.034	0.65		
MGN12H							20	32.4	45.4													3.72	5.88	38.22	36.26	36.26	0.054			
MGN15C	16	4	8.5	32	25	3.5	20	26.7	42.1	4.5	M3	M3x4	3	15	10	6	4.5	3.5	40	15	M3x10	4.61	5.59	45.08	21.56	21.56	0.059	1.06		
MGN15H							25	43.4	58.8													6.37	9.11	73.50	57.82	57.82	0.092			

Note : 1 kgf = 9.81 N





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