



Handson Technology MCH1529 Linear Rail Heavy Load Instruction Manual

[Home](#) » [HandsOn Technology](#) » Handson Technology MCH1529 Linear Rail Heavy Load Instruction Manual 

Contents

- [1 Handson Technology MCH1529 Linear Rail Heavy Load](#)
- [2 Product Information](#)
- [3 Brief Data](#)
- [4 Mechanical Dimension](#)
- [5 Product Usage Instructions](#)
- [6 Documents / Resources](#)
 - [6.1 References](#)

Handson Technology

Handson Technology MCH1529 Linear Rail Heavy Load



Product Information

HGR Series Heavy Load Linear Guide-way are suitable for a wide range of applications, including, but not limited to, miniature applications, machine tools, and other environments where linear motion guides are required. Linear Motion Bearings enable smooth movement and positioning in one dimension, and are used in many different applications.

- **Brand:** Handson Technology
- **Product Name:** HGR Series Heavy Load Linear Guide-way

Applications: Suitable for a wide range of applications, including miniature applications, machine tools, and other environments where linear motion guides are required.

Features: Linear Motion Bearings enable smooth movement and positioning in one dimension, and are used in many different applications.

SKU: MCH1529

Brief Data

- **Model No:** HGR25
- **Carriage Type:** Top Mounting
- **Rail Width:** 25mm
- **Rail Length:** 600mm
- **Dynamic Load Rating:** 12.5kN
- **Static Load Rating:** 25.2kN
- **Matching Carrier:** HGW25CA
- **Weight:** 2kg

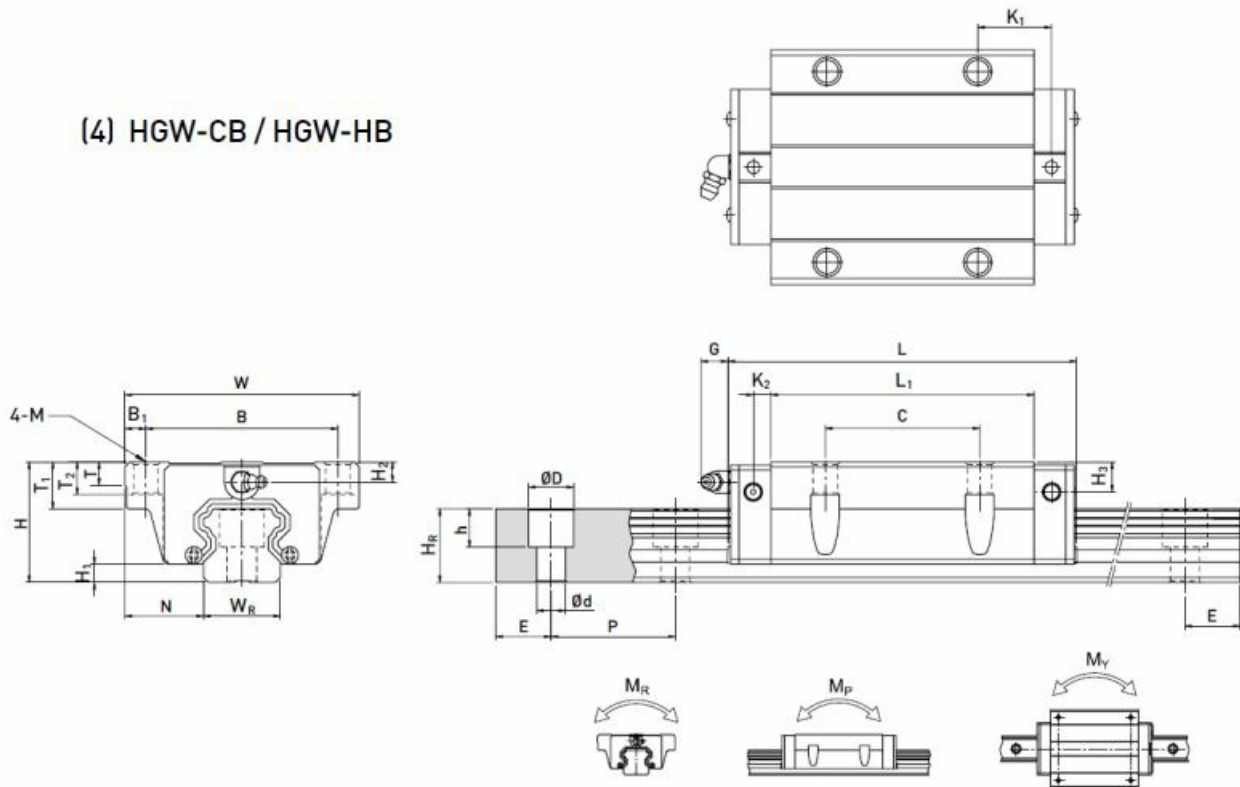
Application:

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

Mechanical Dimension

Unit: mm

(4) HGW-CB / HGW-HB



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	K ₁	K ₂	G	M	T	T ₁	H ₂	H ₃	W _R	H _R	D	h	d	P	E	(mm)	C(kN)	C ₀ (kN)	M _R kN-m	M _P kN-m	M _Y kN-m	Block kg	Rail kg/m	
HGW15CA	24	4.3	16	47	38	4.5	30	39.4	61.4	8	4.85	5.3	M5	6	8.9	3.95	3.7	15	15	7.5	5.3	4.5	60	20	M4x16	14.7	23.47	0.12	0.10	0.10	0.17	1.45	
HGW20CA	30	4.6	21.5	63	53	5	40	50.5	77.5	10.25	6	12	M6	8	10	6	6	20	17.5	9.5	8.5	6	60	20	M5x16	27.1	36.68	0.27	0.20	0.20	0.40	2.21	
HGW20HA								65.2	92.2	17.6																32.7	47.96	0.35	0.35	0.35	0.52		
HGW25CA	36	5.5	23.5	70	57	6.5	45	58	84	10.7	6	12	M8	8	14	6	5	23	22	11	9	7	60	20	M6x20	34.9	52.82	0.42	0.33	0.33	0.59	3.21	
HGW25HA								78.6	104.6	21																42.2	69.07	0.56	0.57	0.57	0.80		
HGW30CA	42	6	31	90	72	9	52	70	97.4	14.25	6	12	M10	8.5	16	6.5	10.8	28	26	14	12	9	80	20	M8x25	48.5	71.87	0.66	0.53	0.53	1.09	4.47	
HGW30HA								93	120.4	25.75																58.6	93.99	0.88	0.92	0.92	1.44		
HGW35CA	48	7.5	33	100	82	9	62	80	112.4	14.6	7	12	M10	10.1	18	9	12.6	34	29	14	12	9	80	20	M8x25	64.6	93.88	1.16	0.81	0.81	1.56	6.30	
HGW35HA								105.8	138.2	27.5																77.9	122.77	1.54	1.40	1.40	2.06		
HGW45CA	60	9.5	37.5	120	100	10	80	97	139.4	13	10	12.9	M12	15.1	22	8.5	20.5	45	38	20	17	14	105	22.5	M12x35	103.8	146.71	1.98	1.55	1.55	2.79	10.41	
HGW45HA								128.8	171.2	28.9																125.3	191.85	2.63	2.68	2.68	3.69		
HGW55CA	70	13	43.5	140	116	12	95	117.7	166.7	17.35	11	12.9	M14	17.5	26.5	12	19	53	44	23	20	16	120	30	M14x45	153.2	211.23	3.69	2.64	2.64	4.52	15.08	
HGW55HA								155.8	204.8	36.4																184.9	276.23	4.88	4.57	4.57	5.96		
HGW65CA	90	15	53.5	170	142	14	110	144.2	200.2	23.1	14	12.9	M16	25	37.5	15	15	63	53	26	22	18	150	35	M16x50	213.2	287.48	6.65	4.27	4.27	9.17	21.18	
HGW65HA								203.6	259.6	52.8																277.8	420.17	9.38	7.38	7.38	12.89		

Matching Ball Bearing Carrier Block:

- MGW25CA
- MGW25CC



MGW25CA & MGW25CC

Product Usage Instructions

To use the HGR Series Heavy Load Linear Guide-way, please follow the steps below:

1. Ensure that the rail width and length match your specific requirements.
2. Mount the carriage on the rail using the top mounting method.
3. Make sure the dynamic load rating does not exceed 12.5kN and the static load rating does not exceed 25.2kN.
4. Use the HGW25CA carrier block for a proper fit.
5. Refer to the mechanical dimensions provided in millimeters for accurate installation.
6. If needed, use the MGW25CA or MGW25CC matching ball bearing carrier block for additional support.

For more information, please visit www.handsontec.com.

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HandsOn Technology support Open Source Hardware (OSHW) Development Platform.

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Documents / Resources

	<p>Handson Technology MCH1529 Linear Rail Heavy Load [pdf] Instruction Manual HGR25, MCH1529, MCH1529 Linear Rail Heavy Load, Linear Rail Heavy Load, Rail Heavy Load, Heavy Load, Load</p>
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References

- [HT HandsOn Tech – Open Source Electronics Platform](#)
- [HT Arduino Boards – HandsOn Tech](#)
- [HT Breakout Boards & Modules – HandsOn Tech](#)
- [HT Connectors – HandsOn Tech](#)
- [HT Electro-Mechanical – HandsOn Tech](#)
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