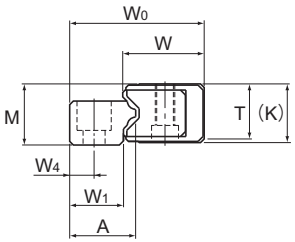
# Models HR, HR-T, HR-M, and HR-TM




| Model No. | Outer dimensions | | | | LM block dimensions | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Height | Width | | Length | | | | | | | | | Lubrication hole | |
| | M | W | $W_0$ | L | $B_1$ | C | H | S | $h_2$ | $L_1$ | T | K | d | $D_1$ |
| HR 3065<br>HR 3065T | 30 | 40.3 | 65 | 145<br>173.5 | 19 | 50<br>80 | 8.6 | M10 | 9 | 90<br>118.5 | 27.5 | 29 | 4 | 14 |
| HR 3575<br>HR 3575T | 35 | 44.9 | 75 | 154.8<br>182.5 | 21.5 | 60<br>92.5 | 10.5 | M12 | 12 | 103.8<br>131.5 | 32 | 34 | 4 | 18 |
| HR 4085<br>HR 4085T | 40 | 50.4 | 85 | 177.8<br>215.9 | 24 | 70<br>110 | 12.5 | M14 | 13 | 120.8<br>158.9 | 36 | 38 | 4 | 20 |
| HR 50105<br>HR 50105T | 50 | 63.4 | 105 | 227<br>274.5 | 30 | 85<br>130 | 14.5 | M16 | 15.5 | 150<br>197.5 | 45 | 48 | 5 | 23 |
| HR 60125 | 60 | 74.4 | 125 | 329 | 35 | 160 | 18 | M20 | 18 | 236 | 55 | 58 | 5 | 26 |

**Model number coding**

**2 HR4085T UU +1500L P T**

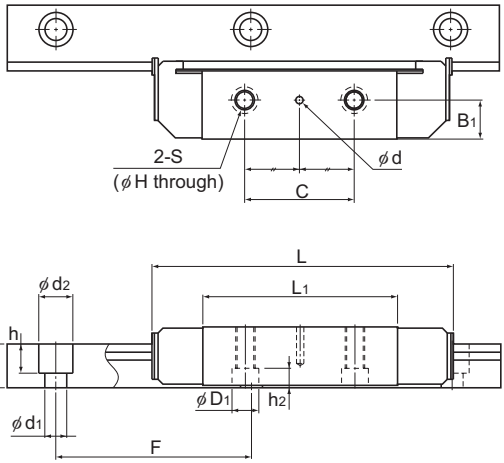
- **2**: No. of LM blocks used on the same rail
- **HR4085T**: Model number
- **UU**: Contamination protection accessory symbol (*1)
- **+1500L**: LM rail length (in mm)
- **P**: Accuracy symbol (*2)
  Normal grade (No Symbol)/High accuracy grade (H)
  Precision grade (P)/Super precision grade (SP)
  Ultra precision grade (UP)
- **T**: Symbol for LM rail jointed use

(*1) See contamination protection accessory on **A1-543**. (*2) See **A1-83**.

Note) One set of model HR means a combination of two LM rails and LM blocks used on the same plane.



Download data by searching for the corresponding model number on the Technical Support site. https://tech.thk.com




Unit: mm

| | LM rail dimensions | | | | | | | Basic load rating | | Static permissible moment kN·m* | | | | Mass | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Width | | | Height | Pitch | | Length* | C | $C_0$ | $M_A$ | | $M_B$ | | LM block | LM rail |
| | $W_1$ | $W_4$ | A | $M_1$ | F | $d_1 \times d_2 \times h$ | Max | kN | kN | 1 block | Double blocks | 1 block | Double blocks | kg | kg/m |
| | 25 | 12 | 31.5 | 22.5 | 80 | 9×14×12 | 3000 | 42.6<br>51.5 | 44.4<br>58.1 | 1.27<br>2.12 | 7.71<br>11.7 | 1.27<br>2.12 | 7.71<br>11.7 | 0.7<br>0.9 | 4.6 |
| | 30.5 | 14.5 | 37 | 26 | 105 | 11×17.5×14 | 3000 | 53.5<br>64.4 | 54.8<br>71.7 | 1.75<br>2.91 | 10.1<br>15.2 | 1.75<br>2.91 | 10.1<br>15.2 | 1.05<br>1.4 | 6.4 |
| | 35 | 16 | 42.5 | 29 | 120 | 14×20×17 | 3000 | 78.8<br>95.1 | 78.9<br>103 | 3.02<br>5.02 | 16.6<br>25.7 | 3.02<br>5.02 | 16.6<br>25.7 | 1.53<br>1.7 | 8 |
| | 42 | 20 | 51.5 | 37 | 150 | 18×26×22 | 3000 | 127<br>153 | 123<br>161 | 5.89<br>9.81 | 33.1<br>51.3 | 5.89<br>9.81 | 33.1<br>51.3 | 3.06<br>3.5 | 12.1 |
| | 51 | 25 | 65 | 45 | 180 | 22×32×25 | 3000 | 226 | 232 | 16 | 89.5 | 16 | 89.5 | 7.5 | 19.3 |

Note) The maximum length under "Length*" indicates the standard maximum length of an LM rail. (See A1-282.)
Static permissible moment* 1 block: the static permissible moment value with two LM rails, one LM block per rail, used on the same plane
Double blocks: static permissible moment when two LM blocks are in close contact with each other on two LM rails used on the same plane
A moment in the $M_C$ direction can be received if two rails are used in parallel. However, since it depends on the distance between the two rails, it has been omitted.
Total block length L : The total block length L shown in the table is the length with the dust-proof parts (code: UU).
The M in the model number symbol indicates that the LM block, LM rail and balls are made of stainless steel.
The stainless steel provides excellent corrosion and environmental resistance.

Options⇒A1-503



ALMOTION B.V. Nijverheidsweg 14 | 6662 NG Elst (Gld) | The Netherlands t +31(0)85 0491 777 e info@almotion.nl
www.almotion.nl | www.lineairegeleiding.nl | www.lineairegeleidingshop.nl | www.linearmotion.nl