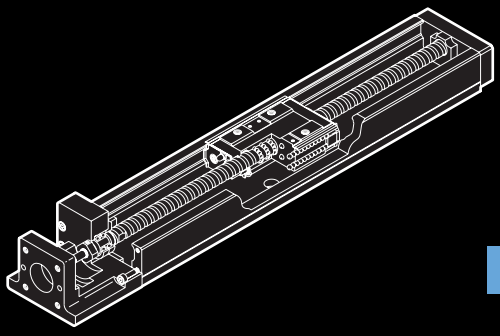


# KR

## LM Guide Actuator

### B Product Specifications



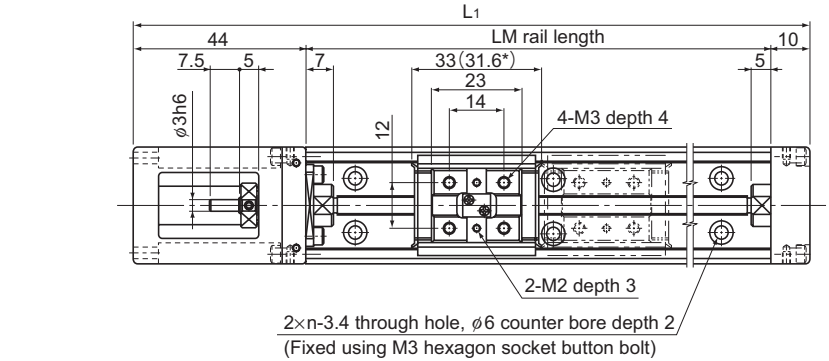
### A Technical Descriptions of the Products (Separate)

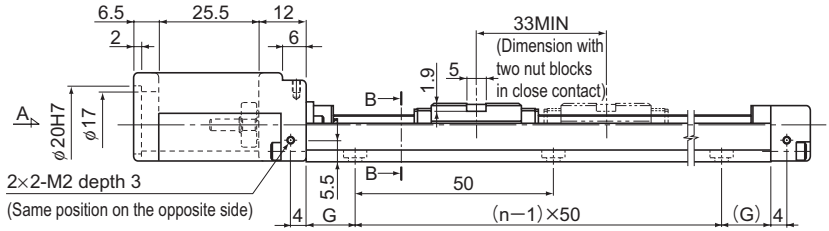


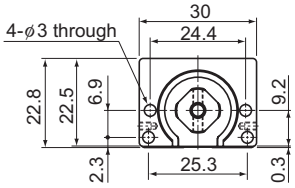
* Please see the separate "A Technical Descriptions of the Products".

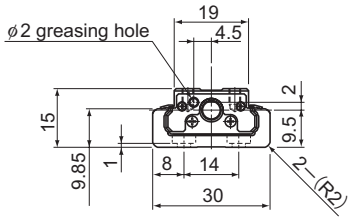
# Model KR15 Standard Type

Model KR15□□A (with a Single Nut Block)
Model KR15□□B (with Two Nut Blocks)




A arrow view

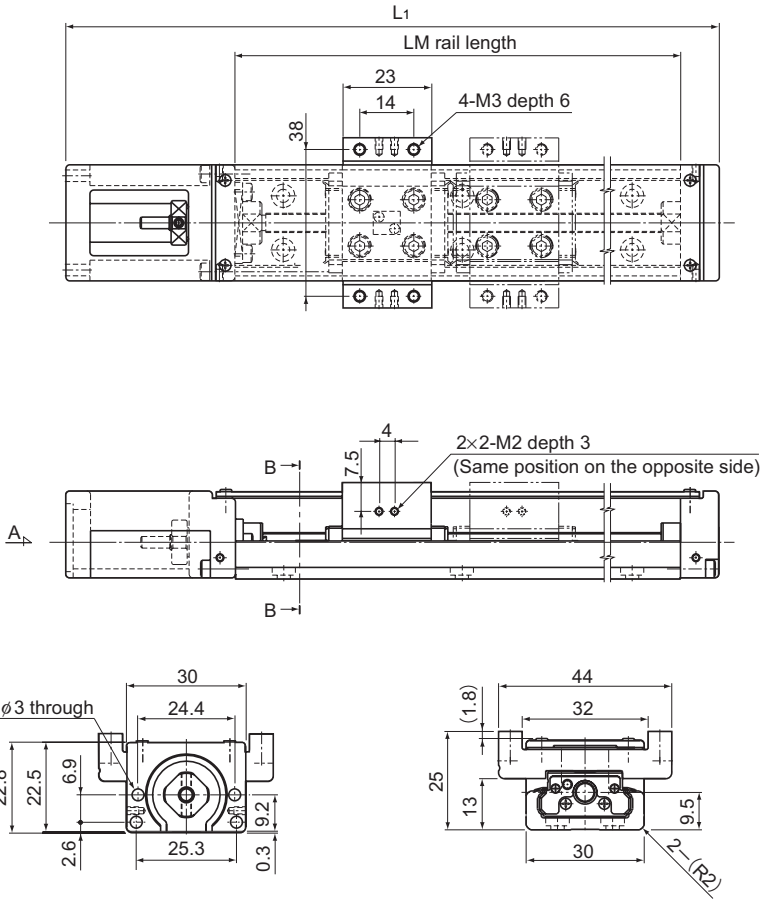
B-B cross section

| LM rail length (mm) | Overall length L1(mm) | Available stroke range (mm) | | G (mm) | n | Overall main unit mass (kg) | |
|---|---|---|---|---|---|---|---|
| | | Type A | Type B | | | Type A | Type B |
| 75 | 129 | 31.4 | — | 12.5 | 2 | 0.19 | — |
| 100 | 154 | 56.4 | — | 25 | 2 | 0.22 | — |
| 125 | 179 | 81.4 | 48.4 | 12.5 | 3 | 0.25 | 0.292 |
| 150 | 204 | 106.4 | 73.4 | 25 | 3 | 0.28 | 0.322 |
| 175 | 229 | 131.4 | 98.4 | 12.5 | 4 | 0.31 | 0.352 |
| 200 | 254 | 156.4 | 123.4 | 25 | 4 | 0.34 | 0.382 |

Note1) The available stroke range of model KR15□□B indicates the value when two nut blocks are used in close contact with each other.
For model number coding, see B-290.
Note2) * indicates the block length when calculating the available stroke range. With type B, it is 64.6 mm.

# Model KR15 (with a Cover)

Model KR15□□A (with a Single Nut Block)
Model KR15□□B (with Two Nut Blocks)




A arrow view

B-B cross section

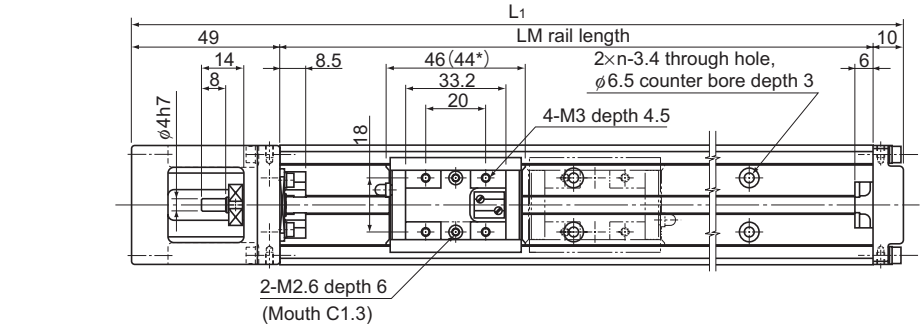
| LM rail length (mm) | Overall length $L_1$(mm) | Available stroke range (mm) | | Overall main unit mass (kg) | |
|---|---|---|---|---|---|
| | | Type A | Type B | Type A | Type B |
| 75 | 129 | 31.4 | — | 0.23 | — |
| 100 | 154 | 56.4 | — | 0.26 | — |
| 125 | 179 | 81.4 | 48.4 | 0.3 | 0.364 |
| 150 | 204 | 106.4 | 73.4 | 0.33 | 0.394 |
| 175 | 229 | 131.4 | 98.4 | 0.36 | 0.424 |
| 200 | 254 | 156.4 | 123.4 | 0.4 | 0.464 |

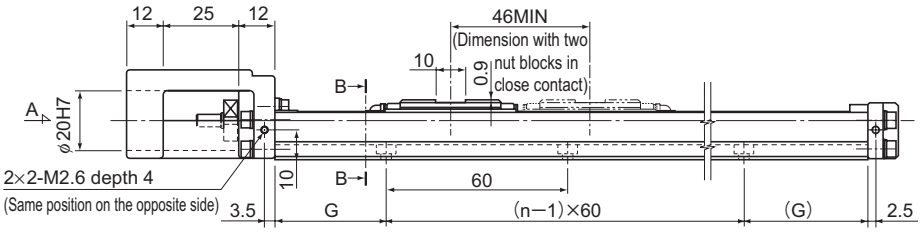
Note) The available stroke range of model KR15□□B indicates the value when two nut blocks are used in close contact with each other.
For model number coding, see B-290.

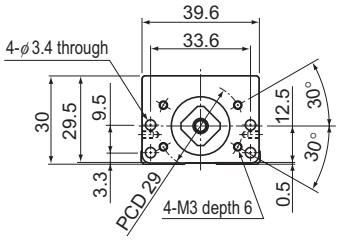
Description of Each Option⇒A-430 Dimensions⇒B-301

# Model KR20 Standard Type

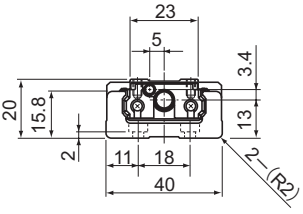
Model KR20□□A (with a Single Nut Block)
Model KR20□□B (with Two Nut Blocks)



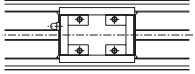

A arrow view



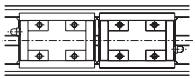

B-B cross section

Nipple orientation

With a single nut block



With two nut blocks

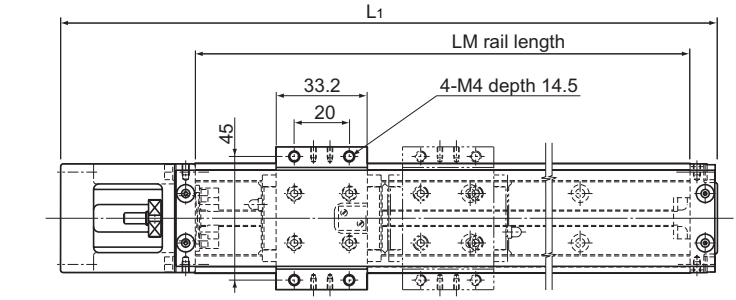


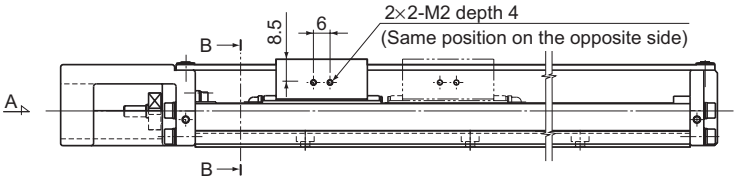
| LM rail length (mm) | Overall length $L_1$ (mm) | Available stroke range (mm) | | G (mm) | n | Overall main unit mass (kg) | |
|---|---|---|---|---|---|---|---|
| | | Type A | Type B | | | Type A | Type B |
| 100 | 159 | 41.5 | — | 20 | 2 | 0.45 | — |
| 150 | 209 | 91.5 | 45.5 | 15 | 3 | 0.58 | 0.655 |
| 200 | 259 | 141.5 | 95.5 | 40 | 3 | 0.72 | 0.795 |

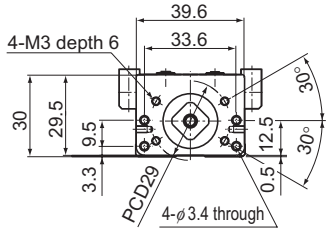
Note1) The available stroke range of model KR2001B indicates the value when two nut blocks are used in close contact with each other.
For model number coding, see B-290.
Note2) * indicates the block length when calculating the available stroke range. With type B, it is 90mm.

# Model KR20 (with a Cover)

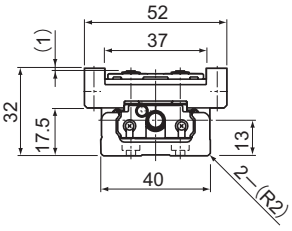
Model KR20□□A (with a Single Nut Block)
Model KR20□□B (with Two Nut Blocks)




A arrow view




B-B cross section

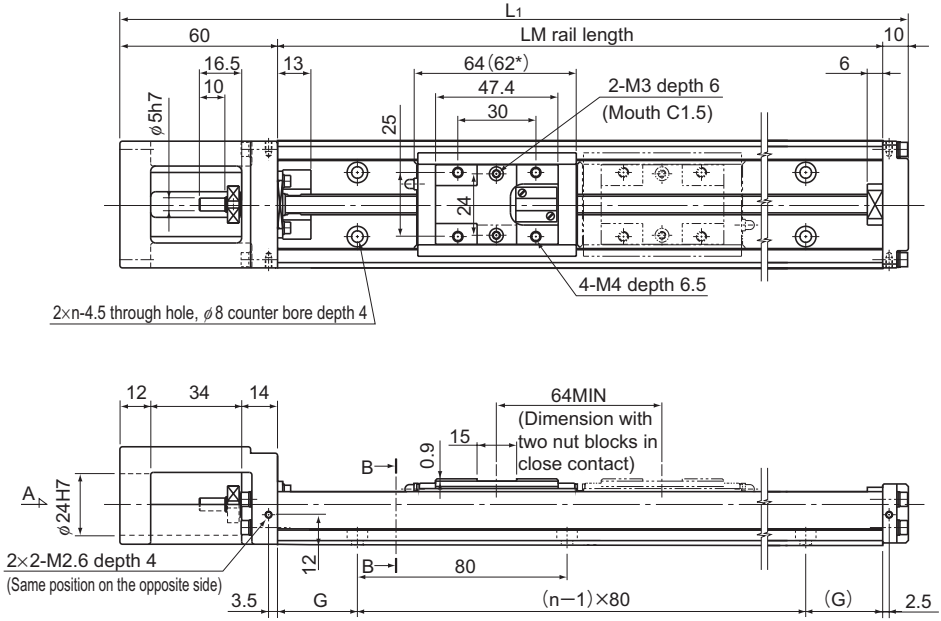
| LM rail length (mm) | Overall length $L_1$(mm) | Available stroke range (mm) | | Overall main unit mass (kg) | |
|---|---|---|---|---|---|
| | | Type A | Type B | Type A | Type B |
| 100 | 159 | 41.5 | — | 0.51 | — |
| 150 | 209 | 91.5 | 45.5 | 0.66 | 0.78 |
| 200 | 259 | 141.5 | 95.5 | 0.8 | 0.92 |

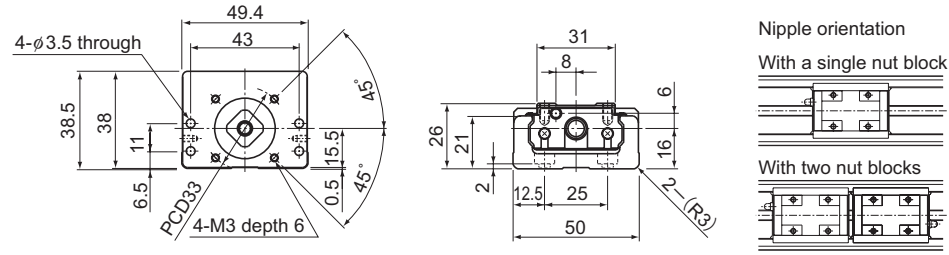
Note) The available stroke range of model KR2001B indicates the value when two nut blocks are used in close contact with each other.
For model number coding, see B-290.

Description of Each Option⇒A-430 Dimensions⇒B-301

# Model KR26 Standard Type

Model KR26□□A (with a Single Nut Block)
Model KR26□□B (with Two Nut Blocks)




A arrow view

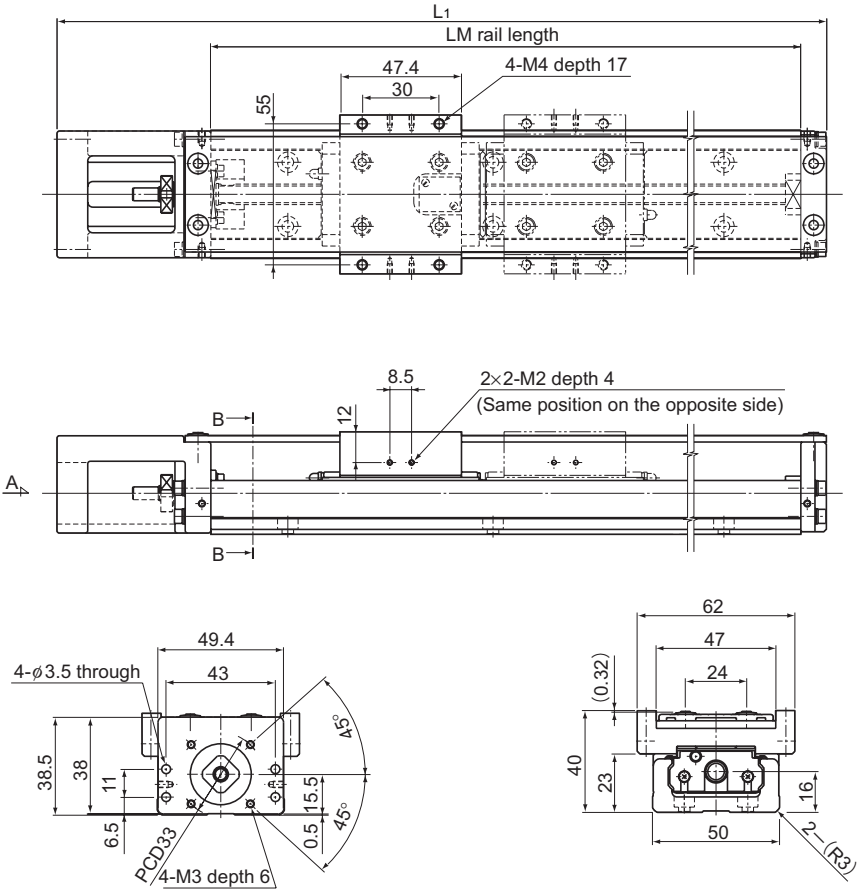
B-B cross section

| LM rail length (mm) | Overall length $L_1$(mm) | Available stroke range (mm) | | G (mm) | n | Overall main unit mass (kg) | |
|---|---|---|---|---|---|---|---|
| | | Type A | Type B | | | Type A | Type B |
| 150 | 220 | 69 | — | 35 | 2 | 0.99 | — |
| 200 | 270 | 119 | 55 | 20 | 3 | 1.2 | 1.38 |
| 250 | 320 | 169 | 105 | 45 | 3 | 1.41 | 1.59 |
| 300 | 370 | 219 | 155 | 30 | 4 | 1.62 | 1.8 |

Note1) The available stroke range of model KR2602B indicates the value when two nut blocks are used in close contact with each other.
For model number coding, see B-290.
Note2) * indicates the block length when calculating the available stroke range. With type B, it is 126mm.

# Model KR26 (with a Cover)

Model KR26□□A (with a Single Nut Block)
Model KR26□□B (with Two Nut Blocks)




A arrow view

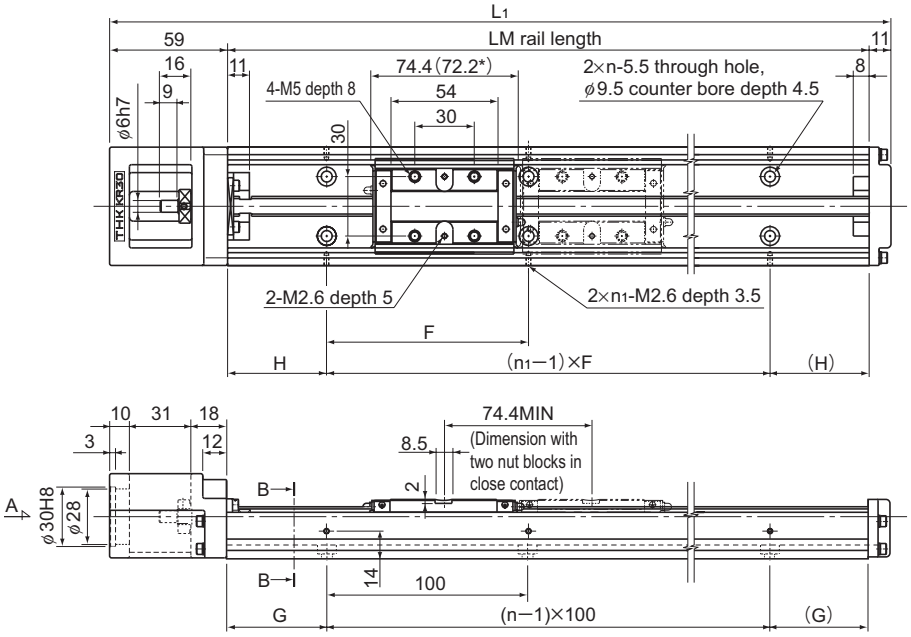
B-B cross section

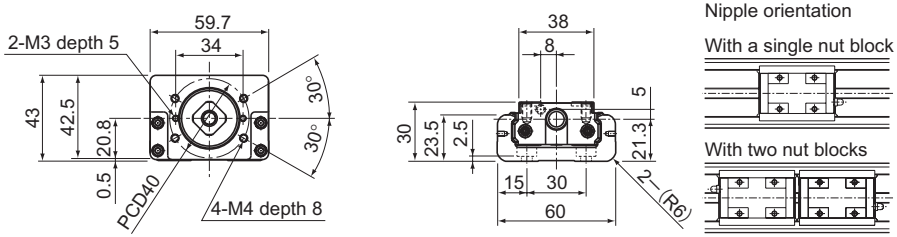
| LM rail length (mm) | Overall length $L_1$(mm) | Available stroke range (mm) | | Overall main unit mass (kg) | |
|---|---|---|---|---|---|
| | | Type A | Type B | Type A | Type B |
| 150 | 220 | 69 | — | 1.12 | — |
| 200 | 270 | 119 | 55 | 1.34 | 1.605 |
| 250 | 320 | 169 | 105 | 1.56 | 1.825 |
| 300 | 370 | 219 | 155 | 1.78 | 2.045 |

Note) The available stroke range of model KR2602B indicates the value when two nut blocks are used in close contact with each other.
For model number coding, see B-290.

# Model KR30H Standard Type

Model KR30H□□A (with a Single Long Nut Block)
Model KR30H□□B (with Two Long Nut Blocks)




A arrow view

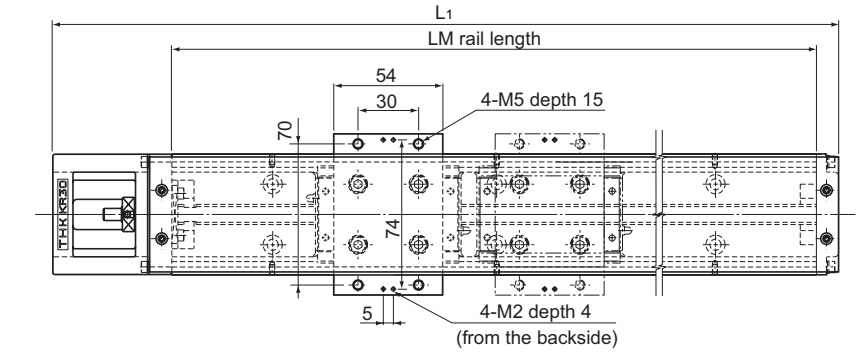
B-B cross section

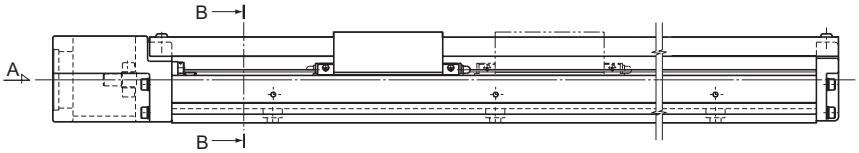
| LM rail length (mm) | Overall length L1(mm) | Available stroke range (mm) | | H (mm) | G (mm) | F (mm) | n | n1 | Overall main unit mass (kg) | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Type A | Type B | | | | | | Type A | Type B |
| 150 | 220 | 58.8 | — | 25 | 25 | 100 | 2 | 2 | 1.4 | — |
| 200 | 270 | 108.8 | — | 50 | 50 | 100 | 2 | 2 | 1.6 | — |
| 300 | 370 | 208.8 | 134.4 | 50 | 50 | 200 | 3 | 2 | 2.2 | 2.5 |
| 400 | 470 | 308.8 | 234.4 | 100 | 50 | 200 | 4 | 2 | 2.7 | 3 |
| 500 | 570 | 408.8 | 334.4 | 50 | 50 | 200 | 5 | 3 | 3.2 | 3.5 |
| 600 | 670 | 508.8 | 434.4 | 100 | 50 | 200 | 6 | 3 | 3.8 | 4.1 |

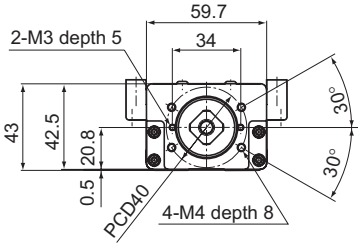
Note1) The available stroke range of model KR30H □□ B indicates the value when two nut blocks are used in close contact with each other.
For model number coding, see B-290.
Note2) * indicates the block length when calculating the available stroke range. With type B, it is 146.6mm.

# Model KR30H (with a Cover)

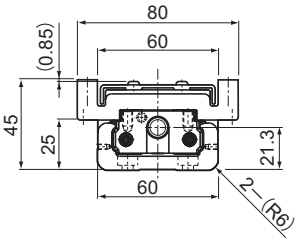
Model KR30H□□A (with a Single Long Nut Block)
Model KR30H□□B (with Two Long Nut Blocks)




A arrow view




B-B cross section

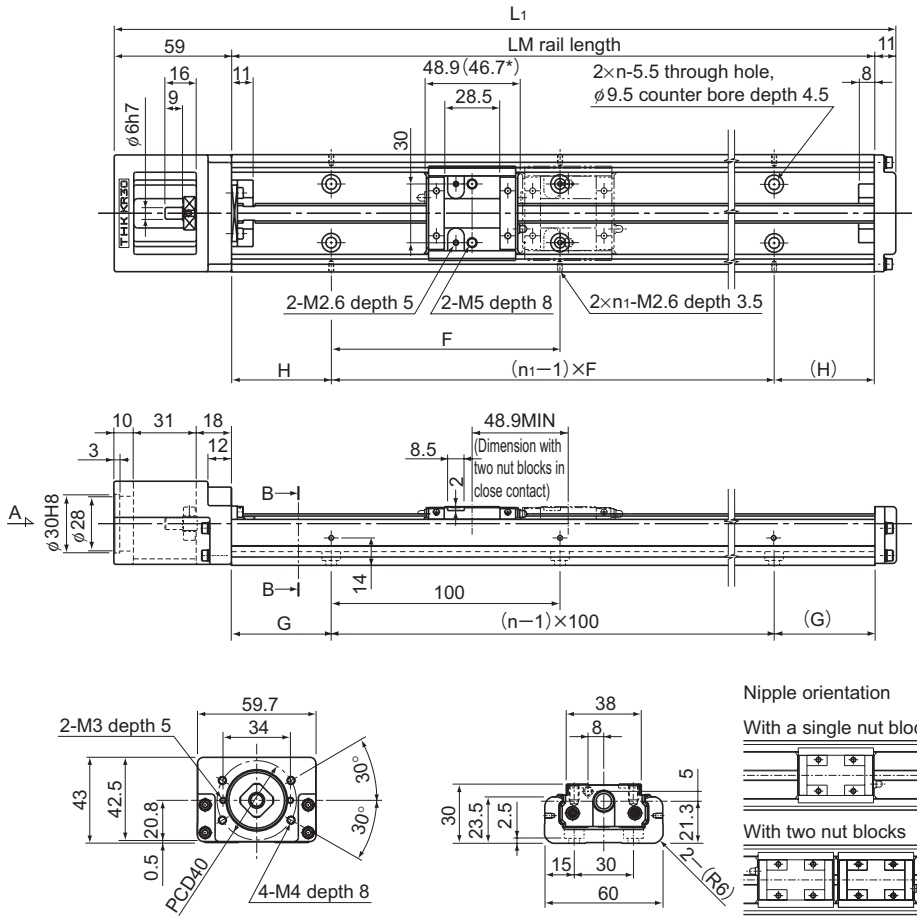
| LM rail length (mm) | Overall length $L_1$(mm) | Available stroke range (mm) | | Overall main unit mass (kg) | |
|---|---|---|---|---|---|
| | | Type A | Type B | Type A | Type B |
| 150 | 220 | 58.8 | — | 1.6 | — |
| 200 | 270 | 108.8 | — | 1.8 | — |
| 300 | 370 | 208.8 | 134.4 | 2.4 | 2.83 |
| 400 | 470 | 308.8 | 234.4 | 3 | 3.43 |
| 500 | 570 | 408.8 | 334.4 | 3.5 | 3.93 |
| 600 | 670 | 508.8 | 434.4 | 4.1 | 4.53 |

Note) The available stroke range of model KR30H□□B indicates the value when two nut blocks are used in close contact with each other.
For model number coding, see B-290.

Description of Each Option⇒A-430 Dimensions⇒B-301

# Model KR30H Standard Type

Model KR30H□□C (with a Single Short Nut Block)
Model KR30H□□D (with Two Short Nut Blocks)




A arrow view

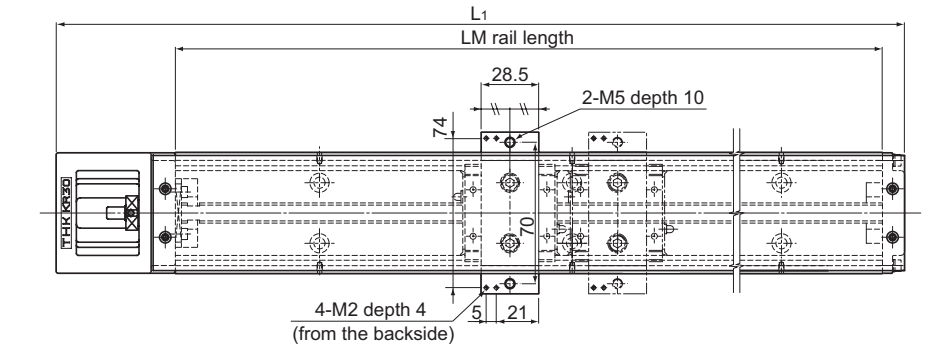
B-B cross section

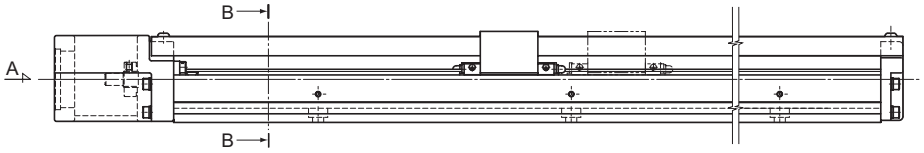
| LM rail length (mm) | Overall length L1(mm) | Available stroke range (mm) | | H (mm) | G (mm) | F (mm) | n | n1 | Overall main unit mass (kg) | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Type C | Type D | | | | | | Type C | Type D |
| 150 | 220 | 84.3 | 35.4 | 25 | 25 | 100 | 2 | 2 | 1.3 | 1.47 |
| 200 | 270 | 134.3 | 85.4 | 50 | 50 | 100 | 2 | 2 | 1.5 | 1.67 |
| 300 | 370 | 234.3 | 185.4 | 50 | 50 | 200 | 3 | 2 | 2.1 | 2.27 |
| 400 | 470 | 334.3 | 285.4 | 100 | 50 | 200 | 4 | 2 | 2.6 | 2.77 |
| 500 | 570 | 434.3 | 385.4 | 50 | 50 | 200 | 5 | 3 | 3.1 | 3.27 |
| 600 | 670 | 534.3 | 485.4 | 100 | 50 | 200 | 6 | 3 | 3.7 | 3.87 |

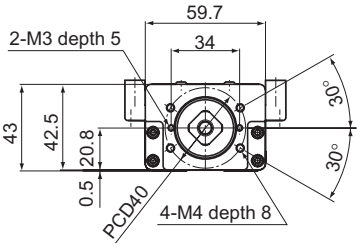
Note1) The available stroke range of model KR30H □□ D indicates the value when two nut blocks are used in close contact with each other.
For model number coding, see B-290.
Note2) * indicates the block length when calculating the available stroke range. With type D, it is 95.6mm.

# Model KR30H (with a Cover)

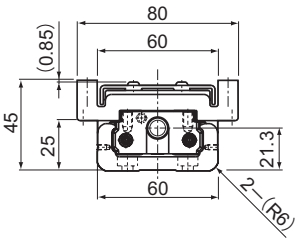
Model KR30H□□C (with a Single Short Nut Block)
Model KR30H□□D (with Two Short Nut Blocks)




A arrow view




B-B cross section

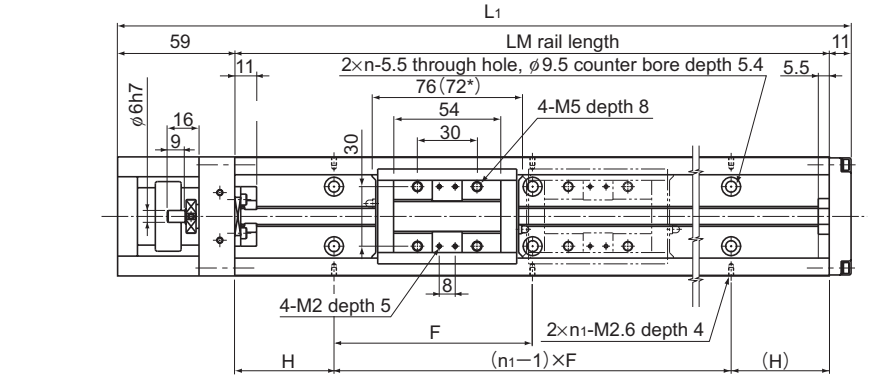
| LM rail length (mm) | Overall length $L_1$(mm) | Available stroke range (mm) | | Overall main unit mass (kg) | |
|---|---|---|---|---|---|
| | | Type C | Type D | Type C | Type D |
| 150 | 220 | 84.3 | 35.4 | 1.4 | 1.64 |
| 200 | 270 | 134.3 | 85.4 | 1.6 | 1.84 |
| 300 | 370 | 234.3 | 185.4 | 2.2 | 2.44 |
| 400 | 470 | 334.3 | 285.4 | 2.8 | 3.04 |
| 500 | 570 | 434.3 | 385.4 | 3.3 | 3.54 |
| 600 | 670 | 534.3 | 485.4 | 3.9 | 4.14 |

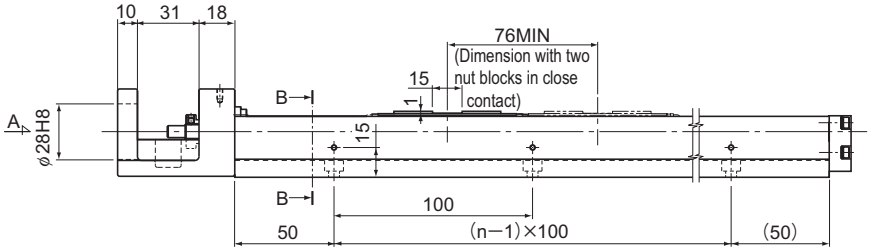
Note) The available stroke range of model KR30H□□D indicates the value when two nut blocks are used in close contact with each other.
For model number coding, see B-290.

Description of Each Option⇒A-430 Dimensions⇒B-301

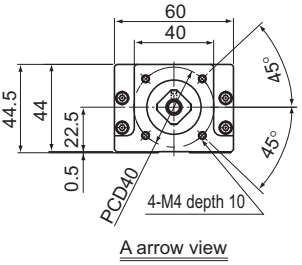
# Model KR33 Standard Type

Model KR33□□A (with a Single Long Nut Block)
Model KR33□□B (with Two Long Nut Blocks)

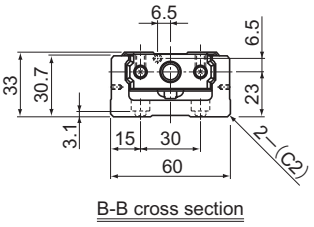



(25 if the LM rail length is 150) (25 if the LM rail length is 150)



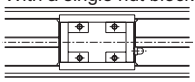

A arrow view



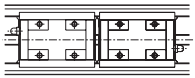

B-B cross section

Nipple orientation

With a single nut block



With two nut blocks

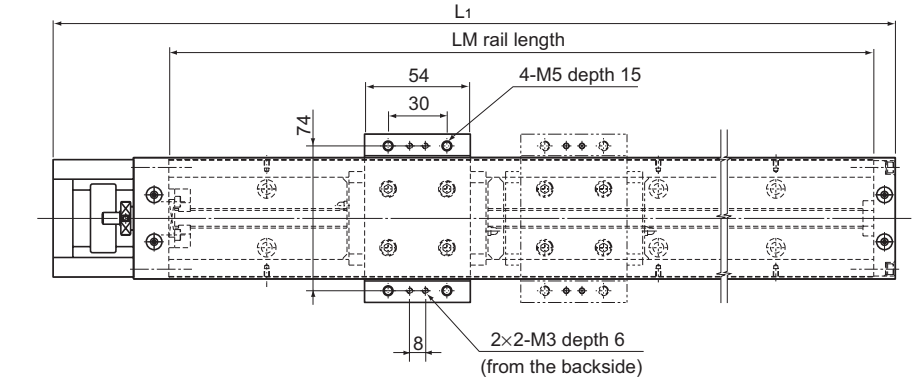


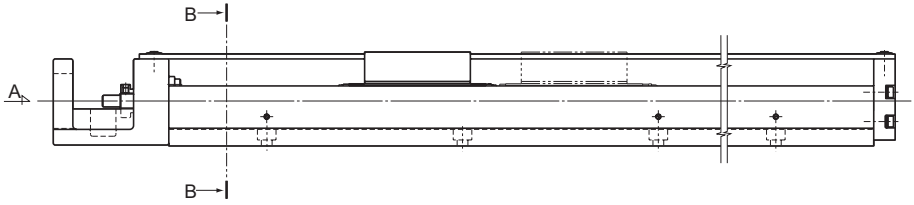
| LM rail length (mm) | Overall length $L_1$(mm) | Available stroke range (mm) | | H (mm) | F (mm) | n | $n_1$ | Overall main unit mass (kg) | |
|---|---|---|---|---|---|---|---|---|---|
| | | Type A | Type B | | | | | Type A | Type B |
| 150 | 220 | 61.5 | — | 25 | 100 | 2 | 2 | 1.7 | — |
| 200 | 270 | 111.5 | — | 50 | 100 | 2 | 2 | 2 | — |
| 300 | 370 | 211.5 | 135.5 | 50 | 200 | 3 | 2 | 2.6 | 2.95 |
| 400 | 470 | 311.5 | 235.5 | 100 | 200 | 4 | 2 | 3.2 | 3.55 |
| 500 | 570 | 411.5 | 335.5 | 50 | 200 | 5 | 3 | 3.9 | 4.25 |
| 600 | 670 | 511.5 | 435.5 | 100 | 200 | 6 | 3 | 4.5 | 4.85 |

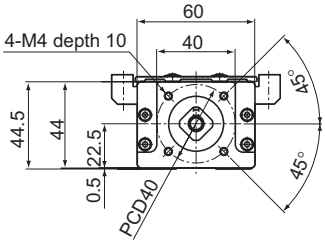
Note1) The available stroke range of model KR33□□B indicates the value when two nut blocks are used in close contact with each other.
For model number coding, see B-290.
Note2) * indicates the block length when calculating the available stroke range. With type B, it is 148mm.

# Model KR33 (with a Cover)

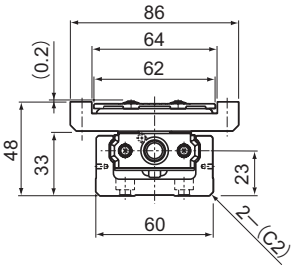
Model KR33□□A (with a Single Long Nut Block)
Model KR33□□B (with Two Long Nut Blocks)




A arrow view




B-B cross section

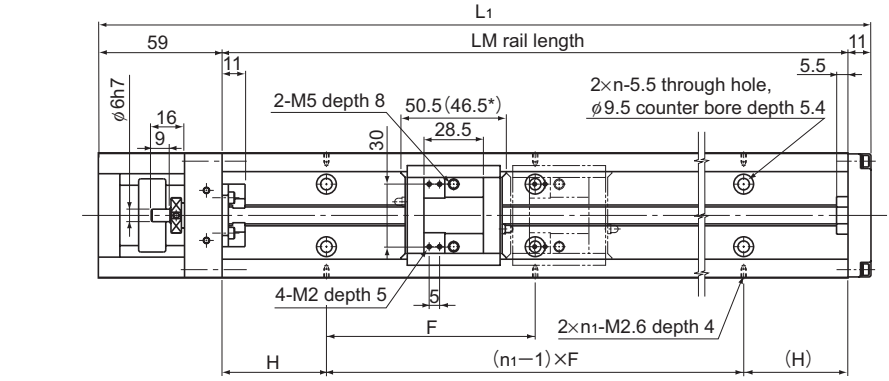
| LM rail length (mm) | Overall length $L_1$(mm) | Available stroke range (mm) | | Overall main unit mass (kg) | |
|---|---|---|---|---|---|
| | | Type A | Type B | Type A | Type B |
| 150 | 220 | 61.5 | — | 1.9 | — |
| 200 | 270 | 111.5 | — | 2.2 | — |
| 300 | 370 | 211.5 | 135.5 | 2.8 | 3.28 |
| 400 | 470 | 311.5 | 235.5 | 3.5 | 3.98 |
| 500 | 570 | 411.5 | 335.5 | 4.2 | 4.68 |
| 600 | 670 | 511.5 | 435.5 | 4.8 | 5.28 |

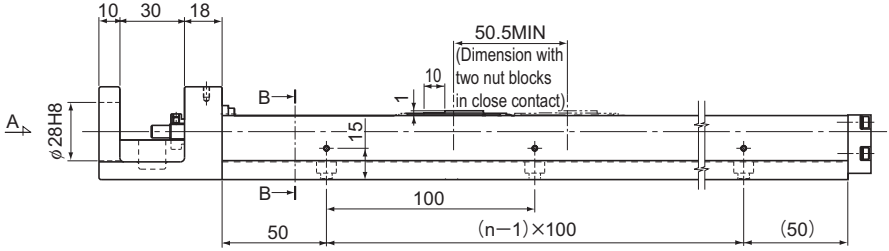
Note) The available stroke range of model KR33□□B indicates the value when two nut blocks are used in close contact with each other.
It must be noted that the cover-mounting bolt is 0.2 mm higher than the top face of the top table.
For model number coding, see B-290.

Description of Each Option⇒A-430 Dimensions⇒B-301

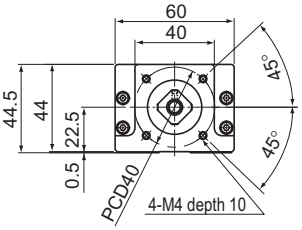
# Model KR33 Standard Type

Model KR33□□C (with a Single Short Nut Block)
Model KR33□□D (with Two Short Nut Blocks)

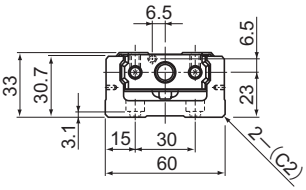



(25 if the LM rail length is 150) (25 if the LM rail length is 150)



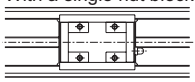

A arrow view



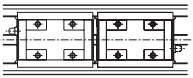

B-B cross section

Nipple orientation

With a single nut block



With two nut blocks

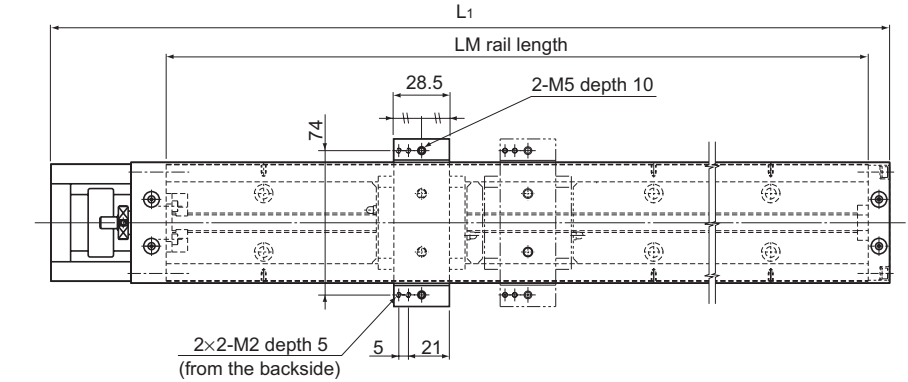


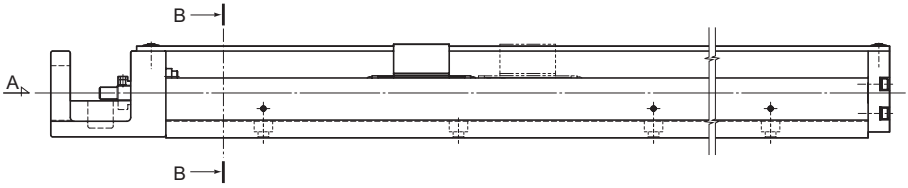
| LM rail length (mm) | Overall length L1(mm) | Available stroke range (mm) | | H (mm) | F (mm) | n | n1 | Overall main unit mass (kg) | |
|---|---|---|---|---|---|---|---|---|---|
| | | Type C | Type D | | | | | Type C | Type D |
| 150 | 220 | 87 | 36.5 | 25 | 100 | 2 | 2 | 1.6 | 1.83 |
| 200 | 270 | 137 | 86.5 | 50 | 100 | 2 | 2 | 1.9 | 2.13 |
| 300 | 370 | 237 | 186.5 | 50 | 200 | 3 | 2 | 2.5 | 2.73 |
| 400 | 470 | 337 | 286.5 | 100 | 200 | 4 | 2 | 3.1 | 3.33 |
| 500 | 570 | 437 | 386.5 | 50 | 200 | 5 | 3 | 3.8 | 4.03 |
| 600 | 670 | 537 | 486.5 | 100 | 200 | 6 | 3 | 4.4 | 4.63 |

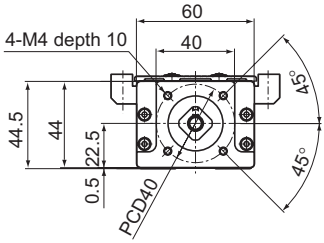
Note1) The available stroke range of model KR33□□D indicates the value when two nut blocks are used in close contact with each other.
For model number coding, see B-290.
Note2) * indicates the block length when calculating the available stroke range. With type D, it is 97mm.

# Model KR33 (with a Cover)

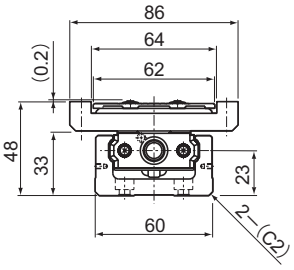
Model KR33□□C (with a Single Short Nut Block)
Model KR33□□D (with Two Short Nut Blocks)




A arrow view




B-B cross section

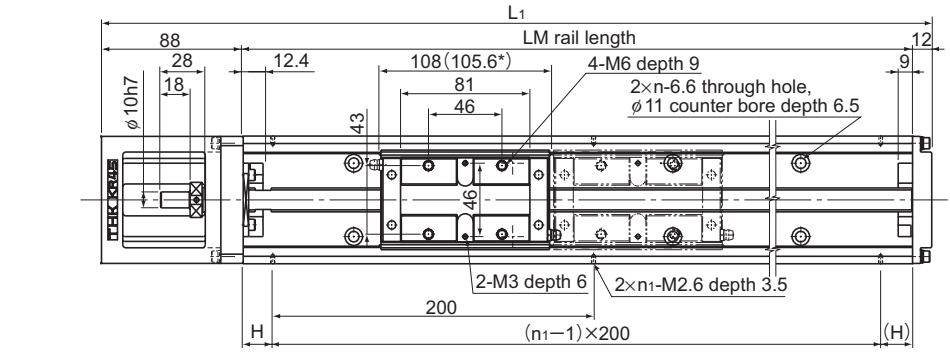
| LM rail length (mm) | Overall length $L_1$(mm) | Available stroke range (mm) | | Overall main unit mass (kg) | |
|---|---|---|---|---|---|
| | | Type C | Type D | Type C | Type D |
| 150 | 220 | 87 | 36.5 | 1.7 | 2 |
| 200 | 270 | 137 | 86.5 | 2.1 | 2.4 |
| 300 | 370 | 237 | 186.5 | 2.7 | 3 |
| 400 | 470 | 337 | 286.5 | 3.3 | 3.6 |
| 500 | 570 | 437 | 386.5 | 4 | 4.3 |
| 600 | 670 | 537 | 486.5 | 4.7 | 5 |

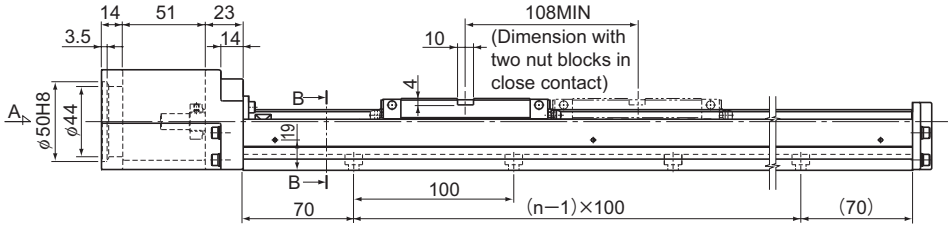
Note) The available stroke range of model KR33□□D indicates the value when two nut blocks are used in close contact with each other.
It must be noted that the cover-mounting bolt is 0.2 mm higher than the top face of the top table.
For model number coding, see B-290.

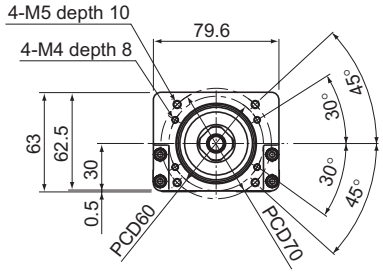
Description of Each Option⇒A-430 Dimensions⇒B-301

# Model KR45H Standard Type

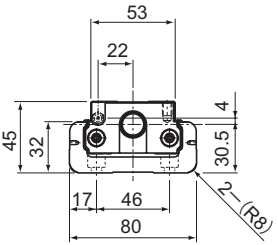
Model KR45H□□A (with a Single Long Nut Block)
Model KR45H□□B (with Two Long Nut Blocks)



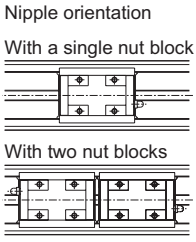




A arrow view




B-B cross section

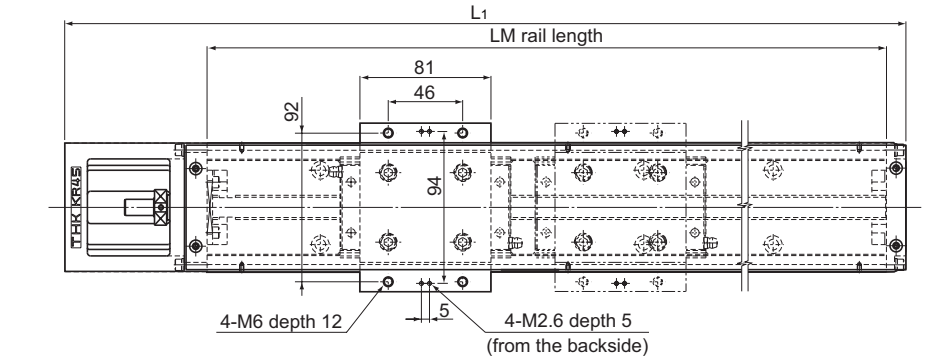


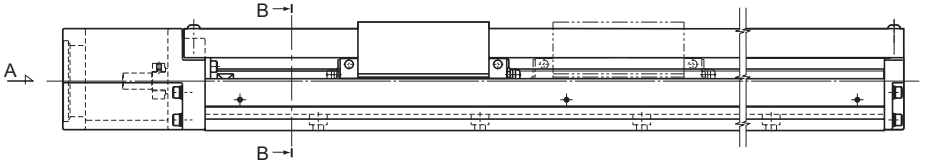

| LM rail length (mm) | Overall length L1(mm) | Available stroke range (mm) | | H (mm) | n | n1 | Overall main unit mass (kg) | |
|---|---|---|---|---|---|---|---|---|
| | | Type A | Type B | | | | Type A | Type B |
| 340 | 440 | 213 | 105 | 70 | 3 | 2 | 5.1 | 6.05 |
| 440 | 540 | 313 | 205 | 20 | 4 | 3 | 6.1 | 7.05 |
| 540 | 640 | 413 | 305 | 70 | 5 | 3 | 7.1 | 8.05 |
| 640 | 740 | 513 | 405 | 20 | 6 | 4 | 8.1 | 9.05 |
| 740 | 840 | 631 | 505 | 70 | 7 | 4 | 9.1 | 10.05 |
| 840 | 940 | 713 | 605 | 20 | 8 | 5 | 10.1 | 11.05 |
| 940 | 1040 | 813 | 705 | 70 | 9 | 5 | 11.2 | 12.15 |

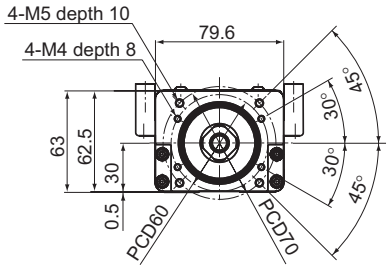
Note1) The available stroke range of model KR45H □□ B indicates the value when two nut blocks are used in close contact with each other.
For model number coding, see B-290.
Note2) * indicates the block length when calculating the available stroke range. With type B, it is 213.6mm.

# Model KR45H (with a Cover)

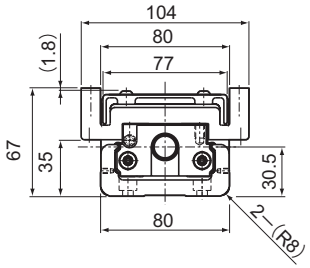
Model KR45H□□A (with a Single Long Nut Block)
Model KR45H□□B (with Two Long Nut Blocks)




A arrow view




B-B cross section

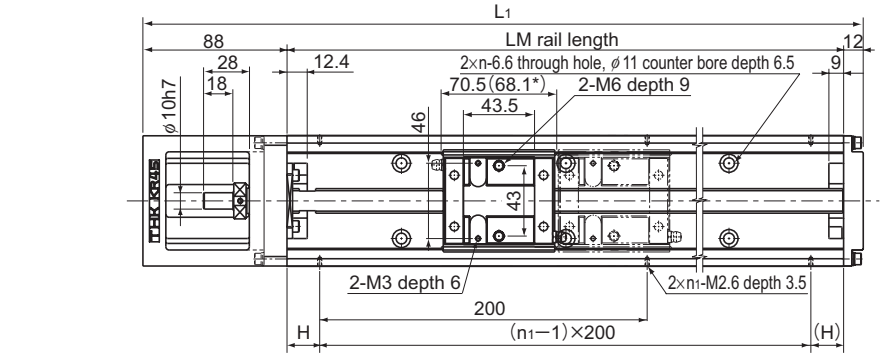
| LM rail length (mm) | Overall length $L_1$(mm) | Available stroke range (mm) | | Overall main unit mass (kg) | |
|---|---|---|---|---|---|
| | | Type A | Type B | Type A | Type B |
| 340 | 440 | 213 | 105 | 5.7 | 7.01 |
| 440 | 540 | 313 | 205 | 6.8 | 8.11 |
| 540 | 640 | 413 | 305 | 7.9 | 9.21 |
| 640 | 740 | 513 | 405 | 9 | 10.31 |
| 740 | 840 | 613 | 505 | 10.1 | 11.41 |
| 840 | 940 | 713 | 605 | 11.2 | 12.51 |
| 940 | 1040 | 813 | 705 | 12.3 | 13.61 |

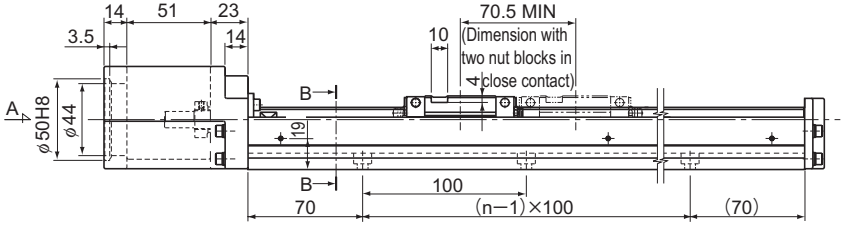
Note) The available stroke range of model KR45H□□B indicates the value when two nut blocks are used in close contact with each other.
For model number coding, see B-290.

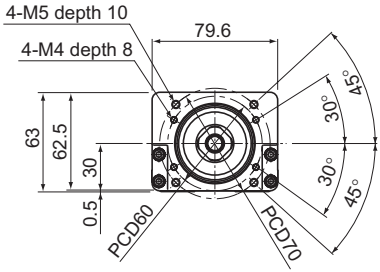
Description of Each Option⇒A-430 Dimensions⇒B-301

# Model KR45H Standard Type

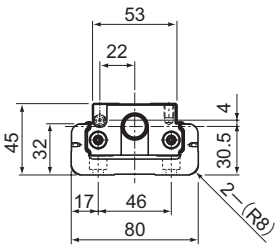
Model KR45H□□C (with a Single Short Nut Block)
Model KR45H□□D (with Two Short Nut Blocks)



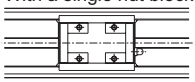

A arrow view



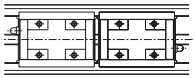

B-B cross section

Nipple orientation

With a single nut block



With two nut blocks

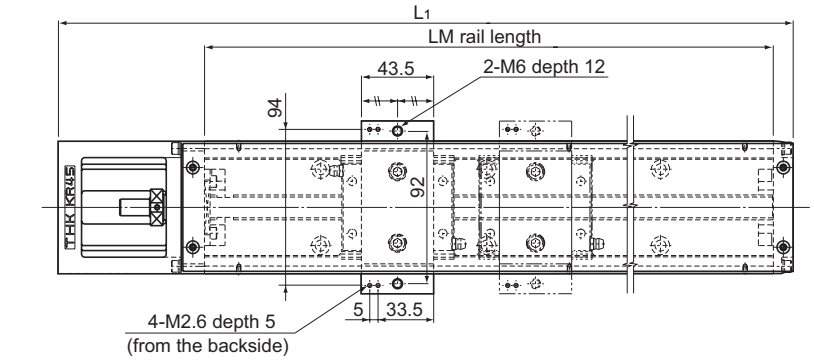


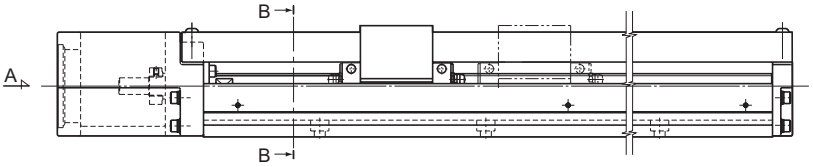
| LM rail length (mm) | Overall length L1(mm) | Available stroke range (mm) | | H (mm) | n | n1 | Overall main unit mass (kg) | |
|---|---|---|---|---|---|---|---|---|
| | | Type C | Type D | | | | Type C | Type D |
| 340 | 440 | 250.5 | 180 | 70 | 3 | 2 | 4.7 | 5.23 |
| 440 | 540 | 350.5 | 280 | 20 | 4 | 3 | 5.7 | 6.23 |
| 540 | 640 | 450.5 | 380 | 70 | 5 | 3 | 6.7 | 7.23 |
| 640 | 740 | 550.5 | 480 | 20 | 6 | 4 | 7.7 | 8.23 |
| 740 | 840 | 650.5 | 580 | 70 | 7 | 4 | 8.7 | 9.23 |
| 840 | 940 | 750.5 | 680 | 20 | 8 | 5 | 9.7 | 10.23 |
| 940 | 1040 | 850.5 | 780 | 70 | 9 | 5 | 10.8 | 11.33 |

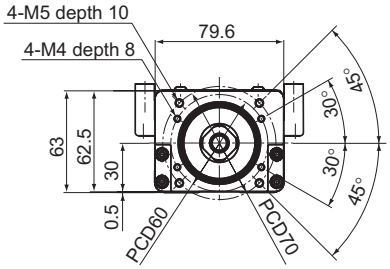
Note) The available stroke range of model KR45H□□D indicates the value when two nut blocks are used in close contact with each other.
For model number coding, see B-290.
Note) * indicates the block length when calculating the available stroke range. With type D, it is 138.6mm.

# Model KR45H (with a Cover)

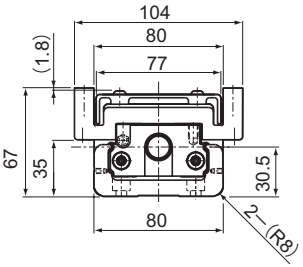
Model KR45H□□C (with a Single Short Nut Block)
Model KR45H□□D (with Two Short Nut Blocks)




A arrow view




B-B cross section

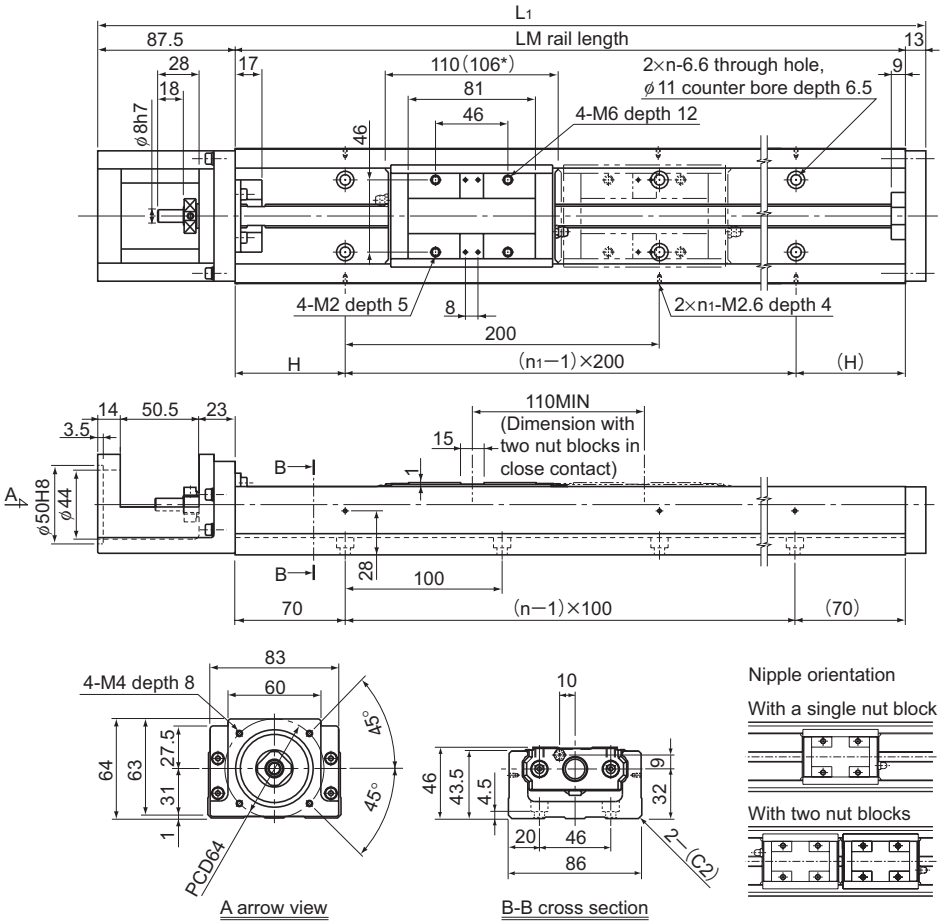
| LM rail length (mm) | Overall length $L_1$(mm) | Available stroke range (mm) | | Overall main unit mass (kg) | |
|---|---|---|---|---|---|
| | | Type C | Type D | Type C | Type D |
| 340 | 440 | 250.5 | 180 | 5.1 | 5.82 |
| 440 | 540 | 350.5 | 280 | 6.2 | 6.92 |
| 540 | 640 | 450.5 | 380 | 7.3 | 8.02 |
| 640 | 740 | 550.5 | 480 | 8.4 | 9.12 |
| 740 | 840 | 650.5 | 580 | 9.5 | 10.22 |
| 840 | 940 | 750.5 | 680 | 10.6 | 11.32 |
| 940 | 1040 | 850.5 | 780 | 11.7 | 12.42 |

Note) The available stroke range of model KR45H□□D indicates the value when two nut blocks are used in close contact with each other.
For model number coding, see B-290.

Description of Each Option⇒A-430 Dimensions⇒B-301

# Model KR46 Standard Type

Model KR46□□A (with a Single Long Nut Block)
Model KR46□□B (with Two Long Nut Blocks)

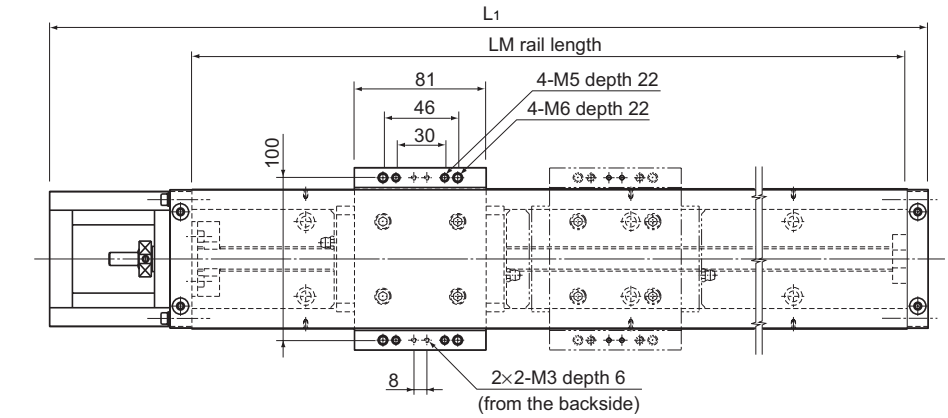


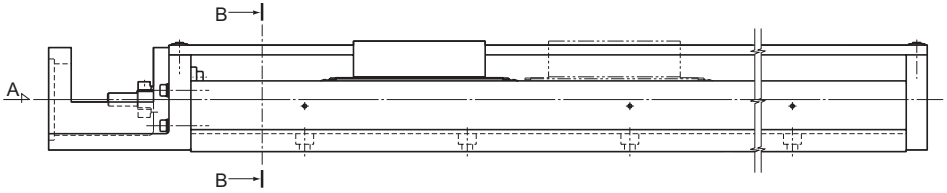

| LM rail length (mm) | Overall length L1(mm) | Available stroke range (mm) | | H (mm) | n | n1 | Overall main unit mass (kg) | |
|---|---|---|---|---|---|---|---|---|
| | | Type A | Type B | | | | Type A | Type B |
| 340 | 440.5 | 208 | 98 | 70 | 3 | 2 | 7.7 | 8.9 |
| 440 | 540.5 | 308 | 198 | 20 | 4 | 3 | 9 | 10.2 |
| 540 | 640.5 | 408 | 298 | 70 | 5 | 3 | 10.3 | 11.5 |
| 640 | 740.5 | 508 | 398 | 20 | 6 | 4 | 11.6 | 12.8 |
| 740 | 840.5 | 608 | 498 | 70 | 7 | 4 | 12.8 | 14 |
| 840 | 940.5 | 708 | 598 | 20 | 8 | 5 | 14.1 | 15.3 |
| 940 | 1040.5 | 808 | 698 | 70 | 9 | 5 | 15.3 | 16.5 |

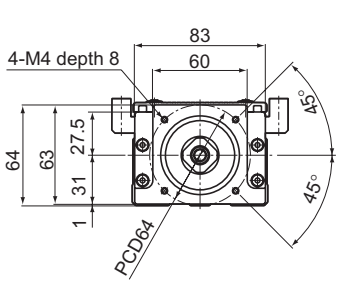
Note1) The available stroke range of model KR46□□B indicates the value when two nut blocks are used in close contact with each other.
For model number coding, see B-290.
Note2) * indicates the block length when calculating the available stroke range. With type B, it is 216mm.

# Model KR46 (with a Cover)

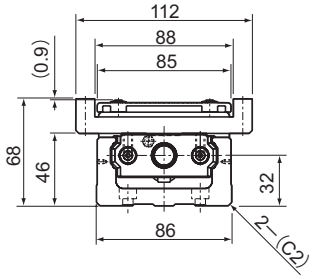
Model KR46□□A (with a Single Long Nut Block)
Model KR46□□B (with Two Long Nut Blocks)




A arrow view




B-B cross section

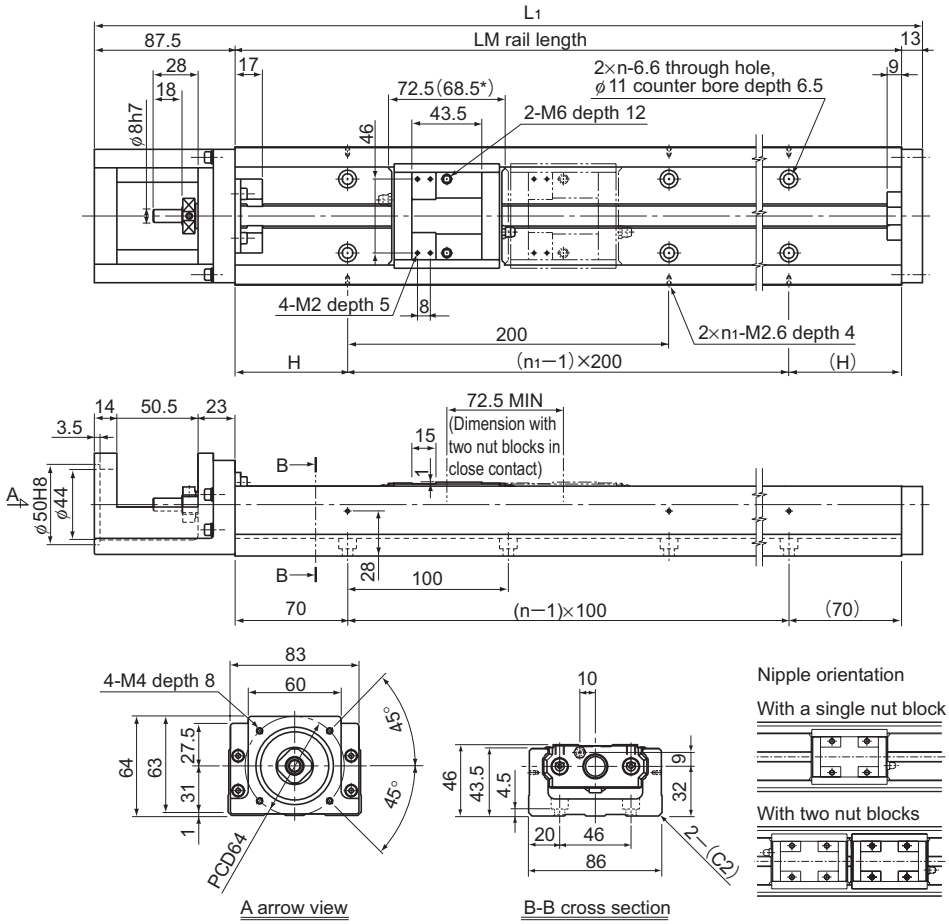
| LM rail length (mm) | Overall length $L_1$(mm) | Available stroke range (mm) | | Overall main unit mass (kg) | |
|---|---|---|---|---|---|
| | | Type A | Type B | Type A | Type B |
| 340 | 440.5 | 208 | 98 | 8.3 | 9.79 |
| 440 | 540.5 | 308 | 198 | 9.7 | 11.19 |
| 540 | 640.5 | 408 | 298 | 11 | 12.49 |
| 640 | 740.5 | 508 | 398 | 12.4 | 13.89 |
| 740 | 840.5 | 608 | 498 | 13.7 | 15.19 |
| 840 | 940.5 | 708 | 598 | 15 | 16.49 |
| 940 | 1040.5 | 808 | 698 | 16.3 | 17.79 |

Note) The available stroke range of model KR46□□B indicates the value when two nut blocks are used in close contact with each other.
For model number coding, see B-290.

Description of Each Option⇒A-430 Dimensions⇒B-301

# Model KR46 Standard Type

Model KR46□□C (with a Single Short Nut Block)
Model KR46□□D (with Two Short Nut Blocks)

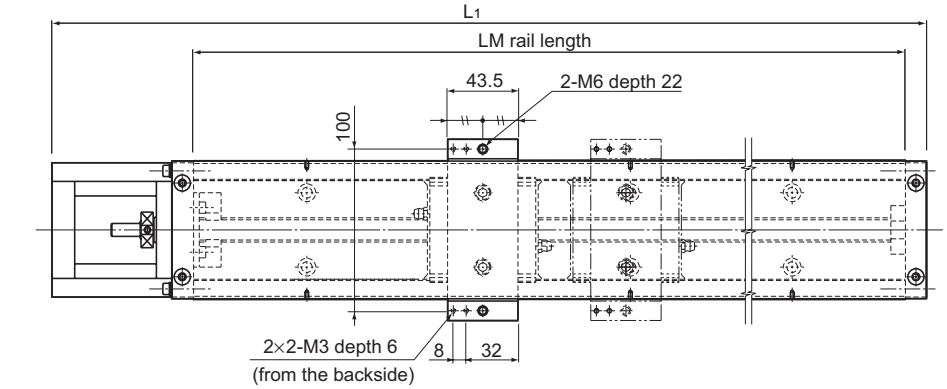


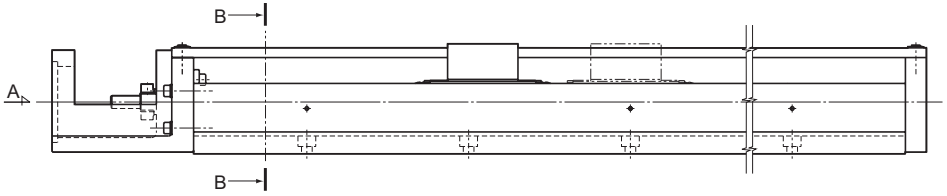

| LM rail length (mm) | Overall length L1(mm) | Available stroke range (mm) | | H (mm) | n | n1 | Overall main unit mass (kg) | |
|---|---|---|---|---|---|---|---|---|
| | | Type C | Type D | | | | Type C | Type D |
| 340 | 440.5 | 245.5 | 173 | 70 | 3 | 2 | 7.3 | 8.1 |
| 440 | 540.5 | 345.5 | 273 | 20 | 4 | 3 | 8.6 | 9.4 |
| 540 | 640.5 | 445.5 | 373 | 70 | 5 | 3 | 9.9 | 10.7 |
| 640 | 740.5 | 545.5 | 473 | 20 | 6 | 4 | 11.2 | 12 |
| 740 | 840.5 | 645.5 | 573 | 70 | 7 | 4 | 12.4 | 13.2 |
| 840 | 940.5 | 745.5 | 673 | 20 | 8 | 5 | 13.7 | 14.5 |
| 940 | 1040.5 | 845.5 | 773 | 70 | 9 | 5 | 14.9 | 15.7 |

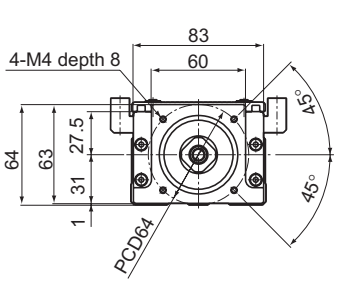
Note) The available stroke range of model KR46□□D indicates the value when two nut blocks are used in close contact with each other.
For model number coding, see B-290.
Note) * indicates the block length when calculating the available stroke range. With type D, it is 141mm.

# Model KR46 (with a Cover)

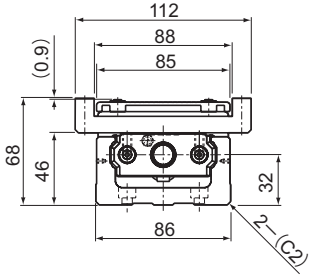
Model KR46□□C (with a Single Short Nut Block)
Model KR46□□D (with Two Short Nut Blocks)




A arrow view




B-B cross section

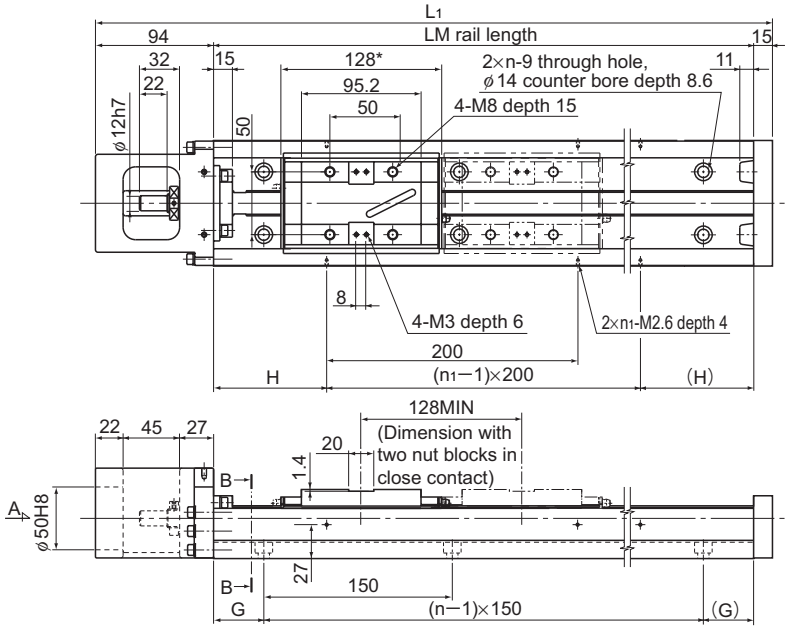
| LM rail length (mm) | Overall length $L_1$(mm) | Available stroke range (mm) | | Overall main unit mass (kg) | |
|---|---|---|---|---|---|
| | | Type C | Type D | Type C | Type D |
| 340 | 440.5 | 245.5 | 173 | 7.8 | 8.79 |
| 440 | 540.5 | 345.5 | 273 | 9.1 | 10.09 |
| 540 | 640.5 | 445.5 | 373 | 10.5 | 11.49 |
| 640 | 740.5 | 545.5 | 473 | 11.9 | 12.89 |
| 740 | 840.5 | 645.5 | 573 | 13.2 | 14.19 |
| 840 | 940.5 | 745.5 | 673 | 14.5 | 15.49 |
| 940 | 1040.5 | 845.5 | 773 | 15.8 | 16.79 |

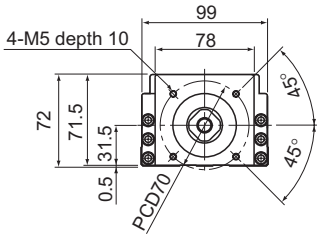
Note) The available stroke range of model KR46□□D indicates the value when two nut blocks are used in close contact with each other.
For model number coding, see B-290.

Description of Each Option⇒A-430 Dimensions⇒B-301

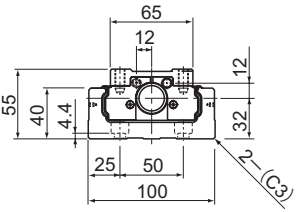
# Model KR55 Standard Type

Model KR5520A (with a Single Nut Block)
Model KR5520B (with Two Nut Blocks)



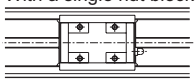

A arrow view



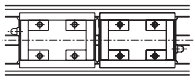

B-B cross section

Nipple orientation

With a single nut block



With two nut blocks

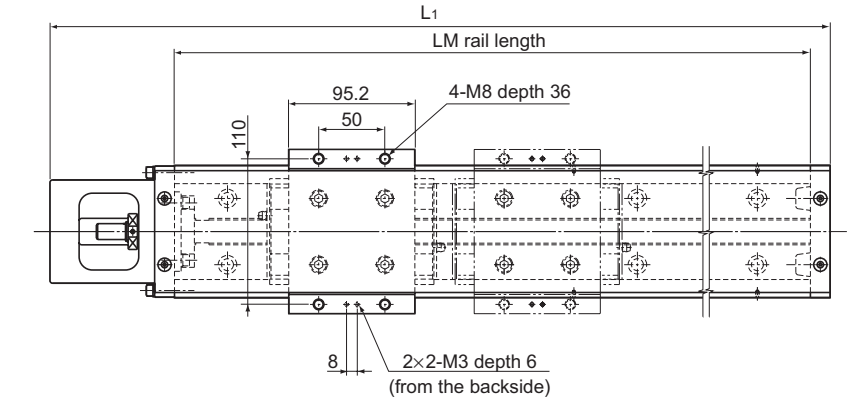


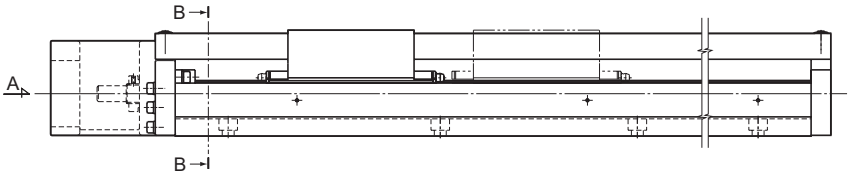
| LM rail length (mm) | Overall length $L_1$ (mm) | Available stroke range (mm) | | H (mm) | G (mm) | n | $n_1$ | Overall main unit mass (kg) | |
|---|---|---|---|---|---|---|---|---|---|
| | | Type A | Type B | | | | | Type A | Type B |
| 980 | 1089 | 826 | 698 | 90 | 40 | 7 | 5 | 19.9 | 21.6 |
| 1080 | 1189 | 926 | 798 | 40 | 15 | 8 | 6 | 21.7 | 23.4 |
| 1180 | 1289 | 1026 | 898 | 90 | 65 | 8 | 6 | 23.4 | 25.1 |
| 1280 | 1389 | 1126 | 998 | 40 | 40 | 9 | 7 | 25.1 | 26.8 |
| 1380 | 1489 | 1226 | 1098 | 90 | 15 | 10 | 7 | 26.9 | 28.6 |

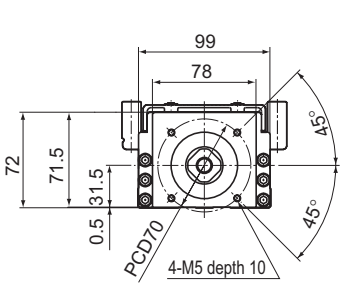
Note) The available stroke range of model KR5520B indicates the value when two nut blocks are used in close contact with each other.
For model number coding, see B-290.

# Model KR55 (with a Cover)

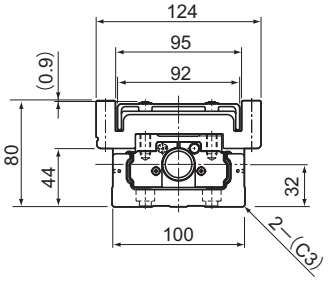
Model KR5520A (with a Single Nut Block)
Model KR5520B (with Two Nut Blocks)




A arrow view




B-B cross section

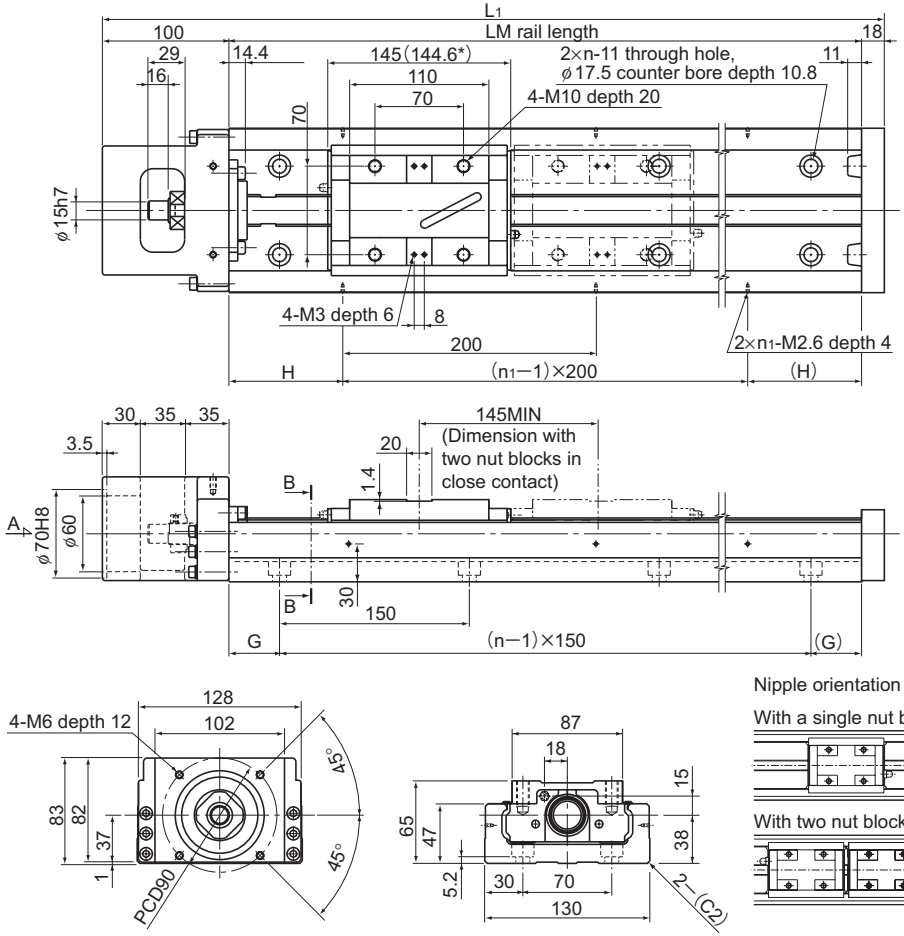
| LM rail length (mm) | Overall length $L_1$(mm) | Available stroke range (mm) | | Overall main unit mass (kg) | |
|---|---|---|---|---|---|
| | | Type A | Type B | Type A | Type B |
| 980 | 1089 | 826 | 698 | 22.7 | 26.2 |
| 1080 | 1189 | 926 | 798 | 24.6 | 28.1 |
| 1180 | 1289 | 1026 | 898 | 26.4 | 29.9 |
| 1280 | 1389 | 1126 | 998 | 28.1 | 31.6 |
| 1380 | 1489 | 1226 | 1098 | 30 | 33.5 |

Note) The available stroke range of model KR5520B indicates the value when two nut blocks are used in close contact with each other.
For model number coding, see B-290.

Description of Each Option⇒A-430 Dimensions⇒B-301

# Model KR65 Standard Type

Model KR6525A (with a Single Nut Block)
Model KR6525B (with Two Nut Blocks)




A arrow view

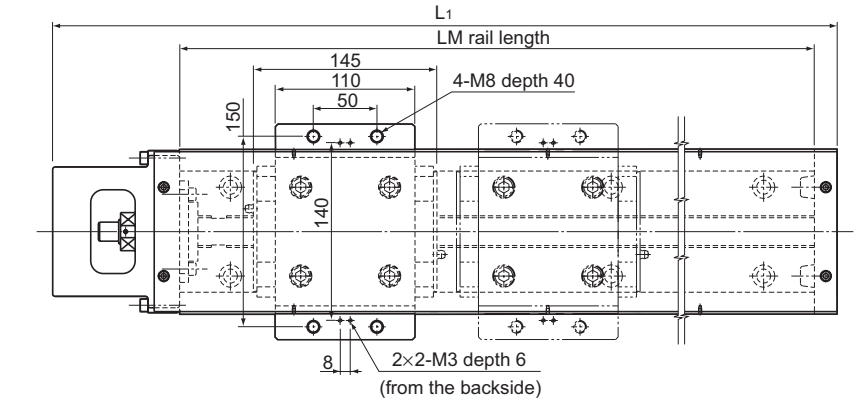
B-B cross section

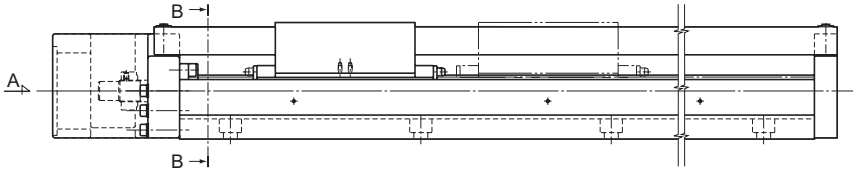
| LM rail length (mm) | Overall length $L_1$(mm) | Available stroke range (mm) | | H (mm) | G (mm) | n | $n_1$ | Overall main unit mass (kg) | |
|---|---|---|---|---|---|---|---|---|---|
| | | Type A | Type B | | | | | Type A | Type B |
| 980 | 1098 | 810 | 665 | 90 | 40 | 7 | 5 | 31.6 | 34.6 |
| 1180 | 1298 | 1010 | 865 | 90 | 65 | 8 | 6 | 37 | 40 |
| 1380 | 1498 | 1210 | 1065 | 90 | 90 | 9 | 7 | 42.4 | 45.4 |
| 1680 | 1798 | 1510 | 1365 | 40 | 90 | 11 | 9 | 50.5 | 53.5 |

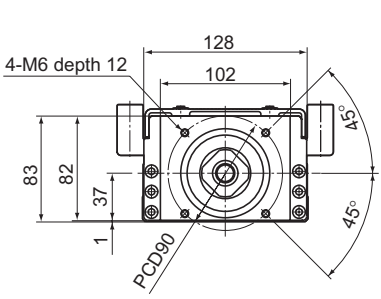
Note1) The available stroke range of model KR6525B indicates the value when two nut blocks are used in close contact with each other.
For model number coding, see B-290.
Note2) * indicates the block length when calculating the available stroke range. With type B, it is 289.6mm.

# Model KR65 (with a Cover)

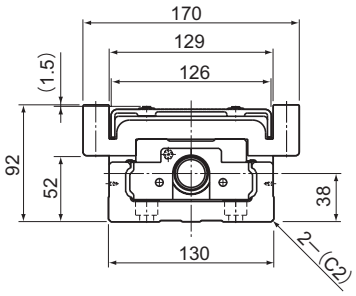
Model KR6525A (with a Single Nut Block)
Model KR6525B (with Two Nut Blocks)




A arrow view




B-B cross section

| LM rail length (mm) | Overall length $L_1$(mm) | Available stroke range (mm) | | Overall main unit mass (kg) | |
|---|---|---|---|---|---|
| | | Type A | Type B | Type A | Type B |
| 980 | 1098 | 810 | 665 | 36.3 | 43 |
| 1180 | 1298 | 1010 | 865 | 42 | 48.7 |
| 1380 | 1498 | 1210 | 1065 | 47.6 | 54.3 |
| 1680 | 1798 | 1510 | 1365 | 56.1 | 62.8 |

Note) The available stroke range of model KR6525B indicates the value when two nut blocks are used in close contact with each other.
For model number coding, see B-290.

Description of Each Option⇒A-430 Dimensions⇒B-301

## Model number coding

**Model number coding**

**KR33 10 A +400L P 0 - 0 0 0 0**

Model No.

- Ball screw lead (in mm) See A-396.
- Block type See A-394.
- LM rail length (in mm) See A-396.
- Accuracy grade
  No Symbol: Normal grade, H: High accuracy grade, P: Precision grade
- With/without a motor
  0: none, 1:with a motor (mounted at THK)
- With/without a cover
  0: none, 1: with a cover, 2: with a bellows
- Sensor specification (see table 1)
- Motor bracket type
  (housing A, intermediate flange) See B-312 onward.

Table1 With/without a sensor

| Symbol | Description | Type |
|---|---|---|
| 0 | None | — |
| 1 | With sensor rail | — |
| 2 | Photo sensor | EE-SX 671 (Omron) |
| 4 | Proximity Sensor a-contact (ON when close) | GL-12F (SUNX) |
| 5 | Proximity Sensor a-contact (ON when close) | GXL-N12F (SUNX) |
| 6 | Photo sensor | EE-SX 674 (Omron) |
| 7 | Proximity Sensor a-contact (ON when close) | APM-D3A1-001 (Yamatake) |
| 8 | Proximity Sensor a-contact (ON when close) | GL-N12F (SUNX) |
| 9 | Proximity Sensor b-contact (ON when away) | GL-N12FB (SUNX) |
| A | Proximity Sensor b-contact (ON when away) | GXL-N12FB (SUNX) |
| B | Proximity Sensor b-contact (ON when away) | APM-D3B1-003 (Yamatake) |

## Mass of Moving Element

Table2 shows the mass of the nut block and sub table of model KR.

Table2 Mass of the Nut Block and Sub Table of KR

Unit: kg

| Model No. | Block A (long block) type | | Block C (short block) type | |
|---|---|---|---|---|
| | Nut block | Sub table | Nut block | Sub table |
| KR15 | 0.042 | 0.022 | — | — |
| KR20 | 0.075 | 0.045 | — | — |
| KR26 | 0.180 | 0.085 | — | — |
| KR30H | 0.30 | 0.13 | 0.17 | 0.07 |
| KR33 | 0.35 | 0.13 | 0.23 | 0.07 |
| KR45H | 0.95 | 0.36 | 0.53 | 0.19 |
| KR46 | 1.20 | 0.29 | 0.80 | 0.19 |
| KR55 | 1.70 | 1.80 | — | — |
| KR65 | 3.00 | 3.70 | — | — |