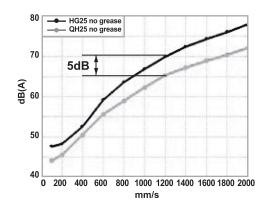
2-3 QH Series – Quiet Linear Guideway, with SynchMotion™ Technology

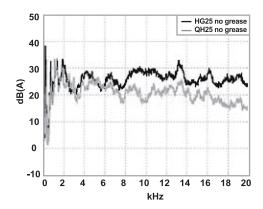
The development of HIWIN-QH linear guideway is based on a four-row circular-arc contact. The HIWIN-QH series linear guideway with SynchMotion[™] Technology offers smooth movement, superior lubrication, quieter operation and longer running life. Therefore the HIWIN-QH linear guideway has broad industrial applicability. In the high-tech industry where high speed, low noise, and reduced dust generation is required, the HIWIN-QH series is interchangeable with the HIWIN-HG series.

2-3-1 Features

(1) Low Noise Design

With SynchMotion[™] technology, rolling elements are interposed between the partitions of SynchMotion[™] to provide impoved circulation. Due to the elimination of contact between the rolling elements, collision noise and sound levels are drastically reduced.





(2) Self-Lubricant Design

The partition is a grouping of hollow ring-like structures formed with a through hole to facilitate circulation of the lubricant. Because of the special lubrication path design, the lubricant of the partition storage space can be refilled. Therefore, the frequency of lubricant refilling can be decreased.

The QH-series linear guideway is pre-lubricated. Performance testing at a 0.2C (basic dynamic load) shows that after running 4,000km no damage was apparent to either the rolling elements or the raceway.

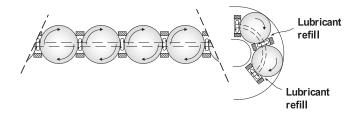
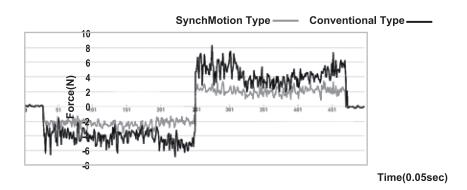


Table 2-3-1 Load Test

| Test Sample | QHH25CAZAH | Load Test |
|-----------------|---|---------------------------|
| Speed | 24m/min | |
| Lubricant | lithium soap base grease (initial lubrication only) | CHENCHON |
| Load | 5kN | |
| Distance travel | 4,000km | Load=5,000N After 4,000km |

(3) Smooth Movement

In standard linear guideways, rolling elements on the load side of the guide block begin rolling and push their way through the raceway. When they contact other rolling elements they create counter-rotational friction. This results in a great variation of rolling resistance. The QH linear guideway, with SynchMotion[™] technology prevents this condition. As the block starts to move, the rolling elements begin rolling consecutively and remain separated to prevent contact with one another thus keeping the element's kinetic energy extremely stable in order to effectively reduce fluctuations in rolling resistance.



(4) High Speed Performance

The Hiwin-QH series offers excellent high-speed performance due to the partitions of the SynchMotion[™] structure. They are employed to separate the adjacent balls thereby resulting in low rolling traction and the metallic friction between adjacent balls is eliminated.

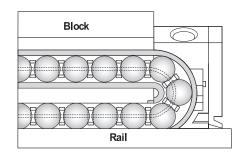
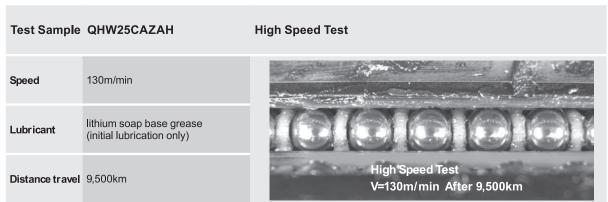
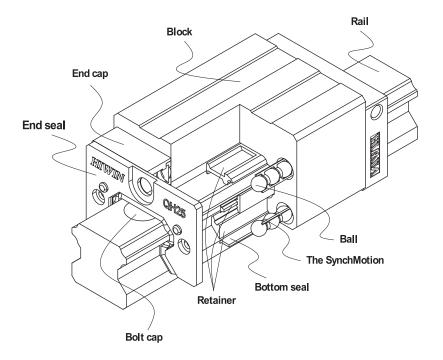


Table 2-3-2



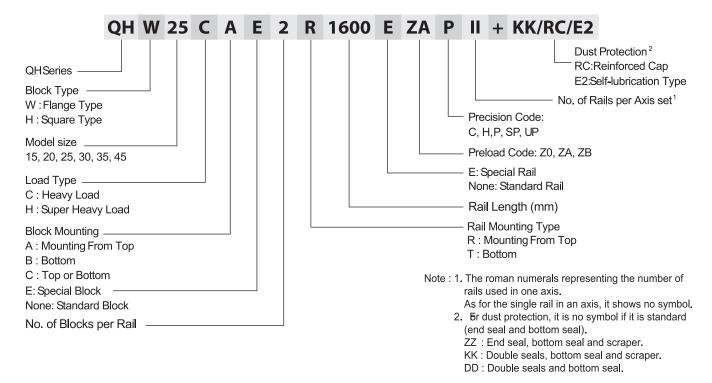
2-3-2 Construction



2-3-3 Model Number of QH Series

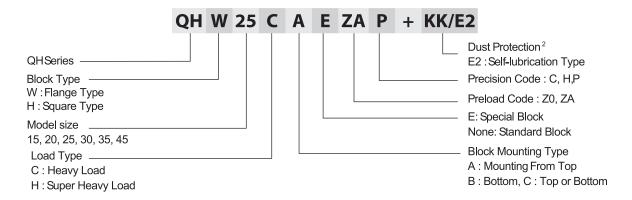
HIWIN-QH series guideway can be classified into non-interchangeable and interchangeable types. The sizes are identical. The main difference is that the interchangeable blocks and rails can be freely exchanged. Because of dimensional control, the interchangeable type linear guideway is a perfect choice for the client when rails do not need to be paired for an axis. And since the QH and HG share the identical rails, the customer does not need to redesign when choosing the QH series. Therefore the HIWIN-QH linear guideway has increased applicability.

(1) Non-interchangeable type

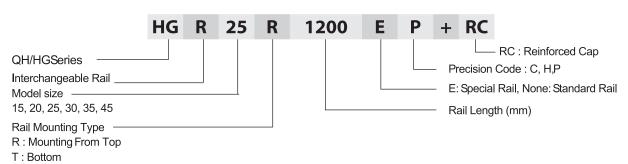


(2) Interchangeable type

O Model Number of QH Block

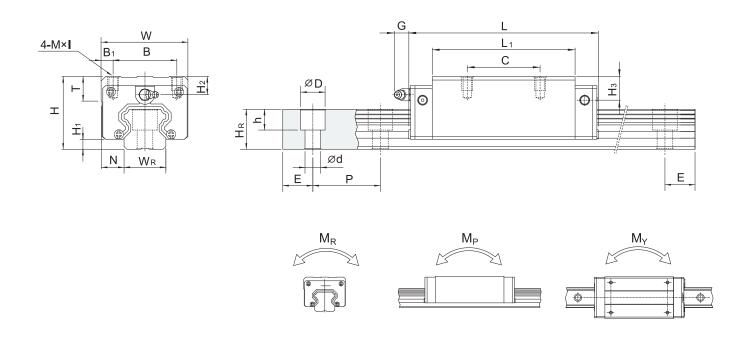


O Model Number of QH Rai(QH and HG share the identical rails)



2-3-9 Dimensions for HIWIN QH Series

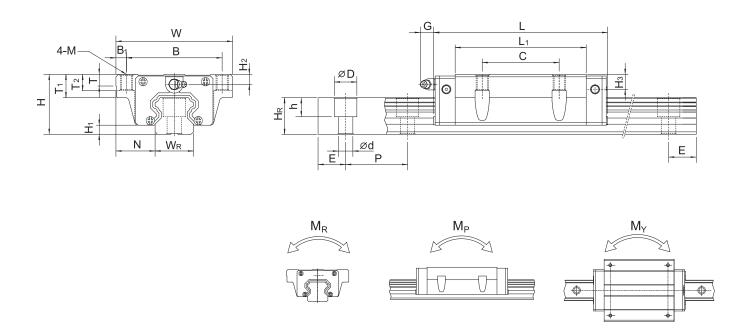
(1) QHH-CA / QHH-HA



| | of A | nens Assei (mm | nbly | | | | D | imensi | ions of | f Blo | ck (mm) | | | | D |)imeı | nsion | ns of | Rail | l (mn | • | Pail | Basic Dynamic Load | Load | Static Rated Moment | | | Weight | |
|----------------|-------|----------------------|------|-----|----|----------------|----|--------|---------|-------|-------------|----------|----------------|----------------|------------------|-------|-------|-------|------|-------|--------------|-----------|--------------------------|---------------------|------------------------|----------------|----------------|--------|-------|
| Model No. | | (| , | | | | | | | | | | | | | | | | | | | | Rating | Rating | \mathbf{M}_{R} | M _P | M _Y | Block | Rail |
| | Н | H ₁ | N | W | В | B ₁ | С | L | L | G | Mxl | Т | H ₂ | H ₃ | \mathbf{W}_{R} | H_R | D | h | d | Р | Ε | (mm) | C(kN) | C ₀ (kN) | kN-m | kN-m | kN-m | kg | kg/m |
| QHH15CA | 28 | 4 | 9.5 | 34 | 26 | 4 | 26 | 39.4 | 61.4 | 5.3 | M4 x 5 | 6 | 7.95 | 8.2 | 15 | 15 | 7.5 | 5.3 | 4.5 | 60 | 20 | M4x16 | 13.88 | 14.36 | 0.1 | 0.08 | 0.08 | 0.18 | 1.45 |
| QHH20CA | 20 | 4.6 | 10 | 4.4 | 32 | | 36 | 50.5 | | 10 | M5 x 6 | 0 | 6 | 6 | 20 | 17.5 | 0.5 | 0.5 | 6 | 60 | 20 | M5x16 | 23.08 | 25.63 | 0.26 | 0.19 | 0.19 | 0.29 | 2.21 |
| QHH20HA | 30 | 4.0 | 12 | 44 | 32 | - | 50 | 65.2 | | 12 | IVIO X 6 | 8 | О | О | 20 | 17.5 | 9.5 | 0.5 | О | 60 | 20 | NISKIO | 27.53 | 31.67 | 0.31 | 0.27 | 0.27 | 0.38 | 2.21 |
| QHH25CA | 40 | 5.5 | 12.5 | 10 | 25 | | 35 | 58 | 83.4 | 12 | M6 x8 | 8 | 10 | 0 5 | 22 | 22 | 11 | 0 | 7 | 60 | 20 | M6x20 | 31.78 | 33.68 | 0.39 | 0.31 | 0.31 | 0.50 | 3.21 |
| QHH25HA | 40 | 5.5 | 12.5 | 40 | 33 | | | 78.6 | 104 | 12 | IVIO XO | 0 | 10 | 0.5 | 23 | 22 | ''' | 9 | ′ | 00 | 20 | MOXZU | 39.30 | 43.62 | 0.5 | 0.45 | 0.45 | 0.68 | 3.21 |
| QHH30CA | 45 | 6 | 16 | 60 | 40 | | 40 | 70 | 97.4 | 12 | M8x10 | 9.5 | 0.5 | 0 | 28 | 26 | 14 | 12 | 0 | 90 | 20 | M8x25 | 46.49 | 48.17 | 0.6 | 0.5 | 0.5 | 0.87 | 4.47 |
| QHH30HA | 45 | O | 10 | 00 | 40 | | 60 | 93 | 120.4 | 12 | IVIOX TO | 0.5 | 9.5 | 9 | 20 | 20 | 14 | 12 | 9 | 00 | 20 | MOXZS | 56.72 | 65.09 | 0.83 | 0.89 | 0.89 | 1.15 | 4.47 |
| QHH35CA | 55 | 7.5 | 10 | 70 | 50 | | 50 | 80 | 113.6 | 12 | M8x12 | 10.2 | 15 8 | 12 F | 24 | 20 | 14 | 12 | 9 | 80 | 20 | M8x25 | 60.52 | 63.84 | 1.07 | 0.76 | 0.76 | 1.44 | 6.30 |
| QHH35HA | 55 | 7.5 | 10 | 70 | 30 | | 72 | 105.8 | | 12 | IVIOX IZ | 10.2 | 15.0 | 13.0 | 034 | 29 | 14 | 12 | Э | 00 | 20 | MOXZO | 73.59 | 86.24 | 1.45 | 1.33 | 1.33 | 1.90 | 0.30 |
| QHH45CA | 70 | 0.2 | 20.5 | 26 | 60 | | 60 | 97 | 139.4 | 12.0 | M10×17 | 16 | 10 4 | 30 | 15 | 30 | 20 | 17 | 1/1 | 105 | 22 5 | M12×35 | 89.21 | 94.81 | 1.83 | 1.38 | 1.38 | 2.72 | 10.41 |
| QHH45HA | | 9.2 | 20.5 | 00 | 60 | | 80 | 128.8 | | 12.8 | IVI IUX I / | x17 16 1 | 10.3 | 020 | 45 | 36 | 20 | 17 | 14 | 105. | ∠ ∠.5 | IVI IZ×35 | 108.72 | 128.43 | 2.47 | 2.41 | 2.41 | 3.59 | 10.41 |
| Note : 1 | kgf : | = 9.8 | 81 N | | | | | | | | | | | | | | | | | | | | | | | | | | |

Linear Guideways

(4) QHW-CC / QHW-HC

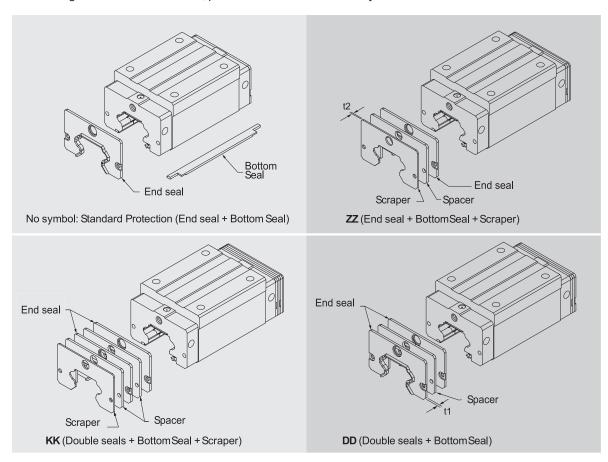


| | of A | imensions Assembly Dimensions of Block (mm) (mm) | | | | | D | imer | nsion | s of | Rail | (mm | 1) | Mounting Bolt for Rail | Load | Load | C Moment | | Weight | | | | | | | | | | | | |
|-----------|------|--|------|-----|-----|----------------|----|------|-------|------|-------|------|----------------|------------------------------|-------|----------------|------------------|-------|--------|-----|-----|-----|------|---------|-----------------|-----------------------------|------------------------|------|------|------|------|
| Model No. | | H ₁ | , | w | В | B ₁ | С | L, | L | G | М | т | T ₁ | T ₂ | H_2 | H ₃ | \mathbf{W}_{R} | H_R | D | h | d | Р | | | Rating C(kN) | Rating C ₀ (kN) | M _R kN-m | | | | Rail |
| QHW15CC | 24 | 4 | 16 | 47 | 38 | 4.5 | 30 | 39.4 | 61.4 | 5.3 | M5 | 6 | 8.9 | 6.95 | 3.95 | 4.2 | 15 | 15 | 7.5 | 5.3 | 4.5 | 60 | 20 | M4x16 | 13.88 | 14.36 | 0.1 | 0.08 | 0.08 | 0.17 | 1.45 |
| QHW20CC | 20 | 4.6 | 21.5 | 62 | E2 | 5 | | 50.5 | | 12 | Me | 0 | 10 | 0.5 | 6 | 6 | 20 | 17 5 | 0.5 | 0 5 | 6 | 60 | 20 | M5x16 | 23.08 | 25.63 | 0.26 | 0.19 | 0.19 | 0.40 | 2.21 |
| QHW20HC | 30 | 4.0 | 21.5 | 03 | 55 | 5 | | 65.2 | | 12 | IVIO | 0 | 10 | 9.5 | O | O | 20 | 17.5 | 9.5 | 0.5 | O | 00 | 20 | MOXIO | 27.53 | 31.67 | 0.31 | 0.27 | 0.27 | 0.52 | 2.21 |
| QHW25CC | 36 | 5.5 | 23.5 | 70 | 57 | 65 | | 58 | | 12 | MA | 8 | 14 | 10 | 6 | 45 | 23 | 22 | 11 | a | 7 | 60 | 20 | M6x20 | 31.78 | 33.68 | 0.39 | 0.31 | 0.31 | 0.59 | 3.21 |
| QHW25HC | 50 | 5.5 | 20.0 | 70 | 57 | 0.5 | | 78.6 | | 12 | IVIO | U | 1-7 | 10 | U | 7.0 | 20 | 22 | | J | ' | 00 | 20 | WOXZO | 39.30 | 43.62 | 0.5 | 0.45 | 0.45 | 0.80 | 5.21 |
| QHW30CC | 42 | 6 | 31 | 90 | 72 | a | 52 | 70 | | 12 | M10 | 18.5 | 16 | 10 | 6.5 | 6 | 28 | 26 | 14 | 12 | a | 80 | 20 | M8x25 | 46.49 | 48.17 | 0.6 | 0.5 | 0.5 | 1.09 | 4.47 |
| QHW30HC | 72 | U | 01 | 50 | 12 | J | | | 120.4 | 12 | WITO | 0.0 | 10 | 10 | 0.0 | J | 20 | 20 | 1-7 | 12 | J | 00 | 20 | WOXZO | 56.72 | 65.09 | 0.83 | 0.89 | 0.89 | 1.44 | 7.77 |
| QHW35CC | 48 | 7.5 | 33 | 100 | 82 | a | | | 113.6 | 12 | M10 | 10 1 | 18 | 13 | 8.5 | 6.5 | 34 | 29 | 14 | 12 | a | 80 | 30 | M8x25 | 60.52 | 63.84 | 1.07 | 0.76 | 0.76 | 1.56 | 6.30 |
| QHW35HC | 0 | 7.5 | 00 | 130 | 02 | 5 | | | 139.4 | 12 | IVITO | 10.1 | 10 | 10 | 0.0 | 0.0 | 0-4 | 29 | 1-7 | 12 | | | 00 | WOXZO | 73.59 | 86.24 | 1.45 | 1.33 | 1.33 | 2.06 | 0.00 |
| QHW45CC | 60 | 92 | 37.5 | 120 | 100 | 10 | | 97 | 139.4 | 12 0 | M12 | 15.1 | 22 | 15 | 8.5 | 10 | 45 | 38 | 20 | 17 | 14 | 105 | 22 5 | M12x35 | 89.21 | 94.81 | 1.83 | 1.38 | 1.38 | 2.79 | 10.4 |
| QHW45HC | 00 | 0.2 | 07.0 | 120 | 100 | 13 | | | 171.2 | | 14112 | 10.1 | | 10 | 0.0 | 13 | 43 | 00 | 20 | '' | 1.4 | 100 | 0 | WIIZXOO | 108.72 | 128.43 | 2.47 | 2.41 | 2.41 | 3.69 | 10.4 |

2-3-5 Dust Proof Accessories

(1) Codes of accessories

If the following accessories are needed, please add the code followed by the model number.



(2) End seal and bottom seal

To prevent life reduction caused by iron chips or dust entering the block.

(3) Double seals

Enhances the wiping effect, foreign matter can be completely wiped off.

Table 2-3-11 Dimensions of end seal

| Size | Thinkness (t1) (mm) | Size | Thinkness (t1) (mm) |
|----------|---------------------|----------|---------------------|
| QH 15 ES | 3 | QH 30 ES | 3.2 |
| QH 20 ES | 2.5 | QH 35 ES | 2.5 |
| QH 25 ES | 2.5 | QH 45 ES | 3.6 |

(4) Scraper

The scraper removes high-temperature iron chips and larger foreign objects.

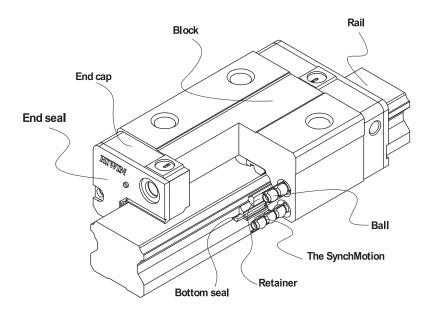
Table 2-3-12 Dimensions of scraper

| Size | Thinkness (t2) (mm) | Size | Thinkness (t2) (mm) |
|----------|---------------------|----------|---------------------|
| QH 15 SC | 1.5 | QH 35 SC | 1.5 |
| QH 20 SC | 1.5 | QH 45 SC | 1.5 |
| QH 25 SC | 1.5 | | |

2-4 QE Series – Quiet Linear Guideway, with SynchMotion™ Technology

The development of HIWIN-QE linear guideway is based on a four-row circular-arc contact. The HIWIN-QE series linear guideway with SynchMotion[™] Technology offers smooth movement, superior lubrication, quieter operation and longer running life. Therefore the HIWIN-QE linear guideway has broad industrial applicability. In the high-tech industry where high speed, low noise, and reduced dust generation is required, the HIWIN-QE series is interchangeable with the HIWIN-EG series.

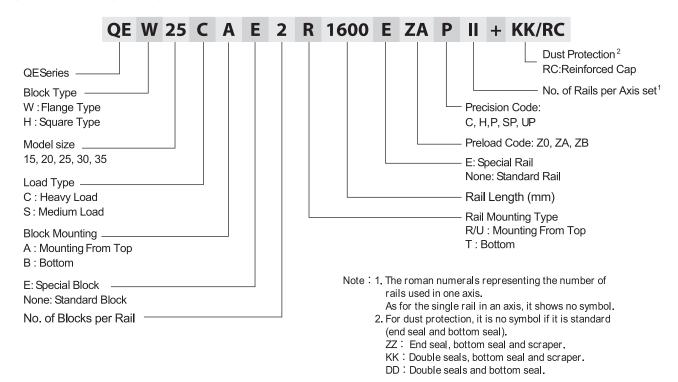
2-4-1 Construction



2-4-2 Model Number of QE Series

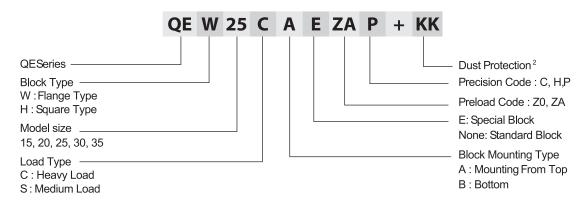
HIWIN-QE series guideway can be classified into non-interchangeable and interchangeable types. The sizes are identical. The main difference is that the interchangeable blocks and rails can be freely exchanged. Because of dimensional control, the interchangeable type linear guideway is a perfect choice for the client when rails do not need to be paired for an axis. And since the QE and EG share the identical rails, the customer does not need to redesign when choosing the QE series. Therefore the HIWIN-QE linear guideway has increased applicability.

(1) Non-interchangeable type

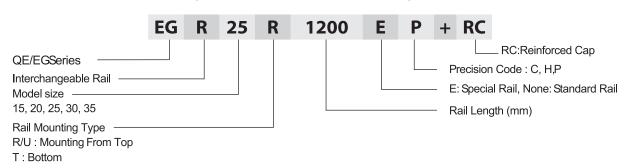


(2) Interchangeable type

O Model Number of QE Block



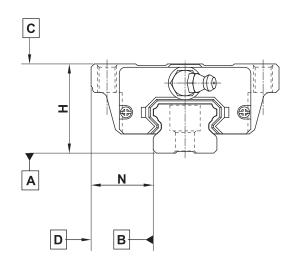
O Model Number of QE Rail (QE and EG share the identical rails)



QE Series

2-4-3 Accuracy

The accuracy of the QE series can be classified into 5 classes normal(C), high(H), precision(P), super precision(SP), and ultra precision(UP). Choose the class by referencing the accuracy of selected equipment.



(1) Accuracy of non-interchangeable guideways

Table 2-4-1 Accuracy Standards

Unit: mm

| • | | | | | |
|---|-------------|-------------|----------------|----------------------------|----------------------------|
| Item | QE - 15, 20 | | | | |
| Accuracy Classes | Normal | High (H) | Precision (P) | Super Precision (SP) | Ultra Precision (UP) |
| Dimensional tolerance of height H | ± 0.1 | ± 0.03 | 0 - 0.03 | 0 - 0.015 | 0 - 0.008 |
| Dimensional tolerance of width N | ± 0.1 | ± 0.03 | 0 - 0.03 | 0 - 0.015 | 0 - 0.008 |
| Variation of height H | 0.02 | 0.01 | 0.006 | 0.004 | 0.003 |
| Variation of width N | 0.02 | 0.01 | 0.006 | 0.004 | 0.003 |
| Running parallelism of block surface C to surface A | | | See Table 2-4- | -5 | |
| Running parallelism of block surface D to surface B | | | See Table 2-4- | -5 | |

Table 2-4-2 Accuracy Standards

Unit: mm

| Item | QE - 25, 30 | , 35 | | | |
|---|-------------|-------------|----------------|----------------------------|----------------------------|
| Accuracy Classes | Normal | High (H) | Precision (P) | Super Precision (SP) | Ultra Precision (UP) |
| Dimensional tolerance of height H | ± 0.1 | ± 0.04 | 0 - 0.04 | 0 - 0.02 | 0 - 0.01 |
| Dimensional tolerance of width N | ± 0.1 | ± 0.04 | 0 - 0.04 | 0 - 0.02 | 0 - 0.01 |
| Variation of height H | 0.02 | 0.015 | 0.007 | 0.005 | 0.003 |
| Variation of width N | 0.03 | 0.015 | 0.007 | 0.005 | 0.003 |
| Running parallelism of block surface C to surface A | | | See Table 2-4- | -5 | |
| Running parallelism of block surface D to surface B | | | See Table 2-4- | -5 | |

(2) Accuracy of interchangeable

Table 2-4-3 Accuracy Standards

Unit: mm

| Item | QE - 15, 20 | | |
|---|---------------|-----------------|------------------|
| Accuracy Classes | Normal (C) | High (H) | Precision (P) |
| Dimensional tolerance of height H | ± 0.1 | ± 0.03 | ± 0.015 |
| Dimensional tolerance of width N | ± 0.1 | ± 0.03 | ± 0.015 |
| Variation of height H | 0.02 | 0.01 | 0.006 |
| Variation of width N | 0.02 | 0.01 | 0.006 |
| Running parallelism of block surface C to surface A | | See Table 2-4-5 | |
| Running parallelism of block surface D to surface B | | See Table 2-4-5 | |

Table 2-4-4 Accuracy Standards

Unit: mm

| Table 2 1 1 Accordey Startage as | | | O |
|---|-----------------|-----------------|---------------|
| Item | QE - 25, 30, 35 | | |
| Accuracy Classes | Normal (C) | High (H) | Precision (P) |
| Dimensional tolerance of height H | ± 0.1 | ± 0.04 | ± 0.02 |
| Dimensional tolerance of width N | ± 0.1 | ± 0.04 | ± 0.02 |
| Variation of height H | 0.02 | 0.015 | 0.007 |
| Variation of width N | 0.03 | 0.015 | 0.007 |
| Running parallelism of block surface C to surface A | | See Table 2-4-5 | |
| Running parallelism of block surface D to surface B | | See Table 2-4-5 | |

(3) Accuracy of running parallelism

Table 2-4-5 Accuracy of Running Parallelism

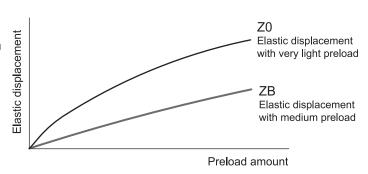
| Rail Length (mm) | Accuracy (µm) | | | | |
|-----------------------|---------------|----|----|----|----|
| - tan 2011gui (11111) | С | Н | Р | SP | UP |
| ~ 100 | 12 | 7 | 3 | 2 | 2 |
| 100 ~ 200 | 14 | 9 | 4 | 2 | 2 |
| 200 ~ 300 | 15 | 10 | 5 | 3 | 2 |
| 300 ~ 500 | 17 | 12 | 6 | 3 | 2 |
| 500 ~ 700 | 20 | 13 | 7 | 4 | 2 |
| 700 ~ 900 | 22 | 15 | 8 | 5 | 3 |
| 900 ~ 1,100 | 24 | 16 | 9 | 6 | 3 |
| 1,100 ~ 1,500 | 26 | 18 | 11 | 7 | 4 |
| 1,500 ~ 1,900 | 28 | 20 | 13 | 8 | 4 |
| 1,900 ~ 2,500 | 31 | 22 | 15 | 10 | 5 |
| 2,500 ~ 3,100 | 33 | 25 | 18 | 11 | 6 |
| 3,100 ~ 3,600 | 36 | 27 | 20 | 14 | 7 |
| 3,600 ~ 4,000 | 37 | 28 | 21 | 15 | 7 |

QE Series

2-4-4 Preload

(1) Definition

A preload can be applied to each guideway. Generally, a linear motion guideway has a negative clearance between the groove and balls in order to improve stiffness and maintain high precision. The figure shows that adding a preload can improve stiffness of the linear guideway. A preload not greater than ZA would be recommended for model sizes smaller than EG20. This will avoid an overloaded condition that would affect guideway life.



(2) Preload classes

HIWIN offers three standard preloads for various applications and conditions.

Table 2-4-6 Preload Classes

| Class | Code | Preload | Condition |
|-----------------------|------|--------------|---|
| Very Light Preload | Z0 | 0~ 0.02C | Certain load direction,low impact, low precision required |
| Light Preload | ZA | 0.03C~0.05C | low load and high precision required |
| Medium Preload | ZB | 0.06C~ 0.08C | High rigidity required, with vibration and impact |

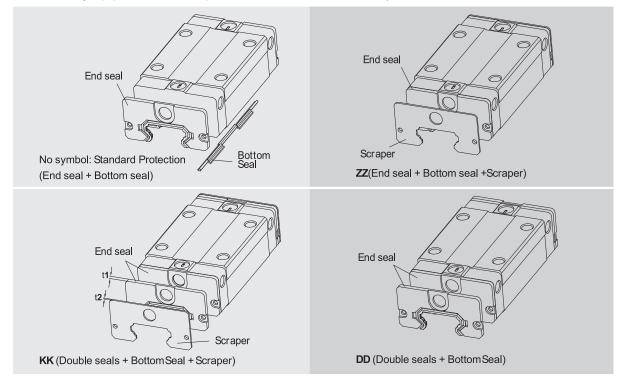
| Class | Interchangeable Guideway | Non-Interchangeable Guideway |
|-----------------|--------------------------|------------------------------|
| Preload classes | Z0, ZA | Z0, ZA, ZB |

Note: The "C" in the preload column denotes basic dynamic load rating.

2-4-5 Dust Protection Equipment

(1) Codes of equipment

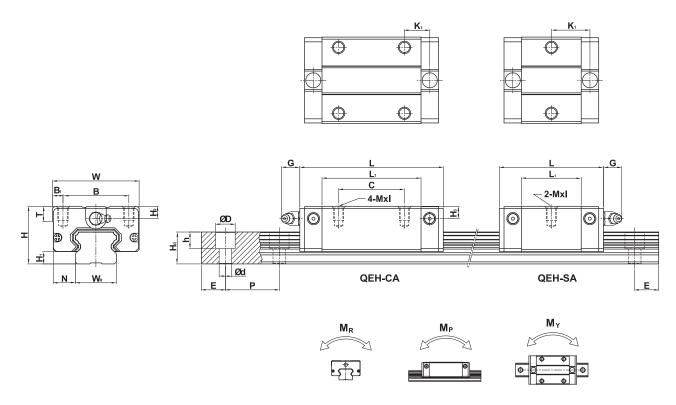
If the following equipment is needed, please indicate the code followed by the model number.



Linear Guideways

2-4-9 Dimensions for HIWIN QE Series

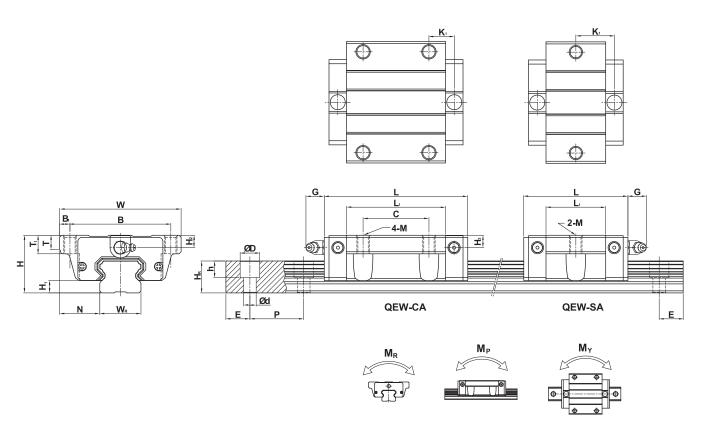
(1) QEH-CA / QEH-SA



| Model No. | Dimensions of Assembly (mm) | | | | Dimensions of Block (mm) Dimensions of Rail (mm) | | | | | | | | | | | , | Mounting Bolt for Rail | Basic Dynamic Load | Basic Static Load | Stati Mom | Weight | | | | | | | | | |
|-----------|-----------------------------------|---|------|-----|--|----------------|----|------|----------|-------|-----|----------|-----|----------------|----------------|-----------------------|------------------------------|--------------------------|-------------------------|--------------|--------|----|----------|--------|---------------------|---------|----------------|----------------|-------|------|
| | ' | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | | | | | | | | | | | | | | | | | | IXAII | Rating | Rating | M_{R} | M _P | M _Y | Block | Rai |
| | Н | H ₁ | N | W | В | B ₁ | С | L | L | K, | G | Mxl | Т | H ₂ | H ₃ | W _R | H_R | D | h | d | Р | Е | (mm) | C(kN) | C ₀ (kN) | kN-m | kN-m | kN-m | kg | kg/r |
| QEH15SA | 24 | 4 | 9.5 | 24 | 26 | 4 | - | 23.1 | 40.1 | 14.8 | 5.7 | M4x6 | 6 | 5.5 | 6 | 15 | 10 5 | 6 | 4 5 | 3.5 | 60 | 20 | M2v46 | 8.56 | 8.79 | 0.07 | 0.03 | 0.03 | 0.09 | 1.2 |
| QEH15CA | 24 | 4 | 9.5 | 34 | 20 | 4 | 26 | 39.8 | 56.8 | 10.15 | 5.7 | IVI4X0 | О | 5.5 | O | 15 | 12.5 | б | 4.5 | 3.5 | 60 | 20 | M3x16 | 12.53 | 15.28 | 0.12 | 0.09 | 0.09 | 0.15 | 1.2 |
| QEH20SA | 28 | 6 | 11 | 12 | 32 | 5 | - | 29 | 50 | 18.75 | 12 | M5x7 | 75 | 6 | 6.5 | 20 | 15.5 | 9.5 | 8.5 | 6 | 60 | 20 | M5x16 | 11.57 | 12.18 | 0.13 | 0.05 | 0.05 | 0.15 | 2.0 |
| QEH20CA | 20 | U | " | 42 | 52 | 3 | 32 | 48.1 | 69.1 | 12.3 | 12 | IVIOA7 | 7.5 | U | 0.5 | 20 | 10.0 | 9.5 | 0.5 | U | 00 | 20 | IVIOX IO | 16.50 | 20.21 | 0.21 | 0.15 | 0.15 | 0.23 | 2.0 |
| QEH25SA | 33 | 6.2 | 12.5 | 48 | 35 | 6.5 | - | 35.5 | 60.1 21. | 21.9 | 12 | M6x9 | 8 | 8 | 8 | 23 | 18 | 11 | 9 | 7 | 60 | 20 | M6x20 | 18.24 | 18.90 | 0.22 | 0.10 | 0.10 | 0.24 | 2.6 |
| QEH25CA | 00 | 0.2 | 12.0 | 40 | 00 | 0.0 | 35 | 59 | 83.6 | 16.15 | 12 | MIUNO | J | | | 20 | 10 | | | ' | 00 | 20 | WIOXZO | 26.03 | 31.49 | 0.37 | 0.29 | 0.29 | 0.40 | 2.0 |
| QEH30SA | 42 | 10 | 16 | 60 | 40 | 10 | - | 41.5 | 67.5 | 25.75 | 12 | M8x12 | 9 | 8 | 9 | 28 | 23 | 11 | 9 | 7 | 80 | 20 | M6x25 | 26.27 | 27.82 | 0.40 | 0.18 | 0.18 | 0.44 | 4.3 |
| QEH30CA | 72 | 10 | 10 | 00 | 40 | 10 | 40 | 70.1 | 96.1 | 20.05 | 12 | WIOXIZ | J | J | J | 20 | 20 | | J | ' | 00 | 20 | WIOXZO | 37.92 | 46.63 | 0.67 | 0.51 | 0.51 | 0.75 | 7.0 |
| QEH35SA | 48 | 11 | 18 | 70 | 50 | 10 | - | 51 | 76 | 30.3 | 12 | M8x12 | 10 | 8.5 | 8.5 | 34 | 27.5 | 14 | 12 | 9 | 80 | 20 | M8x25 | 36.39 | 36.43 | 0.61 | 0.33 | 0.33 | 0.77 | 6.1 |
| QEH35CA | 70 | | 10 | , , | 00 | 10 | 50 | 83 | 108 | 21.3 | 12 | IVIOX IZ | 10 | 8.5 | 0.0 | 01 | 27.0 | 1-7 | 12 | Ü | 00 | 20 | WOXZO | 51.18 | 59.28 | 1.00 | 0.75 | 0.75 | 1.19 | 0.1 |

QE Series

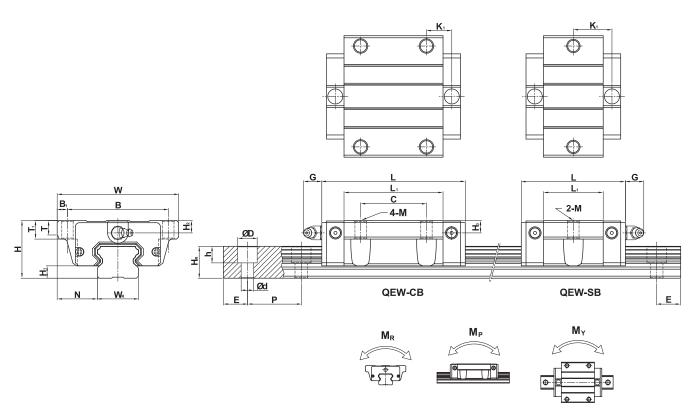
(2) QEW-CA / QEW-SA



| | Dimensions of Assembly (mm) | | | | · , | | | | | | | | | | | | | | Mounting Bolt for Rail | Basic Dynamic Load | Static Load | | ic Rate nent | Weight | | | | | | | |
|-----------|-----------------------------|----------------|------|-----|------------|----------------|----|----|-----|---------------------|-----|-------|-----|----------------|----------------|----------------|-----------------------|----------------|------------------------------|--------------------------|----------------|----|-----------------|---------|--------|---------------------|------|------|----------------------------|------|------|
| Model No. | | ,, | | | | | | | | | | | | | | | | | | | | | | | Rating | | | | $M_{\scriptscriptstyle Y}$ | | |
| | Н | H ₁ | N | W | В | B ₁ | С | L | L | K ₁ | G | M | Т | T ₁ | H ₂ | H ₃ | W _R | H _R | D | h | d | Р | Ε | (mm) | C(kN) | C ₀ (kN) | kN-m | kN-m | kN-m | kg | kg/m |
| QEW 15SA | | 1 | 18.5 | 52 | <i>1</i> 1 | | | | | 14.8 5. 10.15 | 5.7 | M5 | 5 | 7 | 5.5 | 6 | 15 | 12.5 | 6 | 15 | 3.5 | 60 | 20 | M3×16 | 8.56 | 8.79 | 0.07 | 0.03 | 0.03 | 0.12 | 1.25 |
| QEW 15CA | | - | 10.5 | 52 | 41 | 0.0 | | | | | J.1 | IVIO | | ' | 5.5 | U | 13 | 12.5 | U | 4.5 | 5.5 | 00 | 20 | 1013~10 | 12.53 | 15.28 | 0.12 | 0.09 | 0.09 | 0.21 | 1.23 |
| QEW 20SA | | 6 | 19.5 | 59 | 49 | | | | | 18.75 | 12 | M6 | 7 | 9 | 6 | 6.5 | 20 | 15.5 | 9.5 | 8.5 | 6 | 60 | 20 | M5×16 | 11.57 | 12.18 | 0.13 | 0.05 | 0.05 | 0.19 | 2.08 |
| QEW 20CA | | Ü | 10.0 | 00 | 70 | Ü | | | | 12.3 | 12 | IVIO | , | J | Ü | 0.0 | 20 | 10.0 | | | Ü | 00 | 20 | WONTO | 16.50 | 20.21 | 0.21 | 0.15 | 0.15 | 0.31 | 2.00 |
| QEW 25SA | | 6.2 | 25 | 73 | 60 | | | | | 21.9 | 12 | M8 | 7.5 | 10 | 8 | 8 | 23 | 18 | 11 | 9 | 7 | 60 | 20 | M6×20 | 18.24 | 18.90 | 0.22 | 0.10 | 0.10 | 0.34 | 2.67 |
| QEW 25CA | | 0.2 | 20 | | 00 | 0.0 | | | | 16.15 | | IVIO | 7.0 | 10 | Ü | Ü | 20 | 10 | • | Ü | | 00 | | 100-20 | 26.03 | 31.49 | 0.37 | 0.29 | 0.29 | 0.58 | 2.07 |
| QEW 30SA | | 10 | 31 | 90 | 72 | 9 | | | | 25.75 | 12 | M10 | 7 | 10 | 8 | 9 | 28 | 23 | 11 | 9 | 7 | 80 | 20 | M6×25 | 26.27 | 27.82 | 0.40 | 0.18 | 0.18 | 0.61 | 4.35 |
| QEW 30CA | | 10 | 01 | | '- | Ŭ | | | | 20.05 | | IVITO | | 10 | Ü | Ü | | 20 | | Ü | | 00 | | 1110 20 | 37.92 | 46.63 | 0.67 | 0.51 | 0.51 | 1.03 | 1.00 |
| QEW 35SA | | 11 | 33 | 100 | 82 | 9 | | | | 30.3 | 12 | M10 | 10 | 13 | 8.5 | 8.5 | 34 | 27.5 | 14 | 12 | 9 | 80 | 20 | M8×25 | 36.39 | 36.43 | 0.61 | 0.33 | 0.33 | | 6.14 |
| QEW 35CA | | | | ,50 | OZ. | | 50 | 83 | 108 | 21.3 | | 10 | .0 | ,5 | 0.0 | 0.0 | 0.1 | _,.0 | | '- | J | | _0 | 20 | 51.18 | 59.28 | 1.00 | 0.75 | 0.75 | 1.19 | 0.14 |

Linear Guideways

(3) QEW-CB / QEW-SB



| | of A | sser | ions nbly | | Dimensions of Block (mm) Dimensions of Rail (mm | | | | | | | | | | | | | | 1) | Mounting Bolt for Rail | Basic Dynamic Load | Basic Static Load | Stat Mon | ic Rate nent | d | Weight | | | | | |
|----------|------|---|--------------|-----|---|----------------|---|------|---------|----------------|------------|---------------|----------|----------------|----------------|----------------|------------------|-------|----------|------------------------------|--------------------------|-------------------------|-------------|-----------------|--------|---------------------|------------------|----------------|----------------|-------|------|
| | , | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | , | | | | | | | | | | | | | | | | | | | | | Kali | Rating | Rating | \mathbf{M}_{R} | M _P | M _Y | Block | Rai |
| | Н | H ₁ | N | W | В | B ₁ | С | L | L | K ₁ | G | М | Т | T ₁ | H ₂ | H ₃ | \mathbf{W}_{R} | H_R | D | h | d | Р | Ε | (mm) | C(kN) | C ₀ (kN) | kN-m | kN-m | kN-m | kg | kg/ı |
| QEW 15SB | | 4 | 10 F | F0 | 44 | | | | | 14.8 | <i>-</i> 7 | 015 | 5 | 7 | | 6 | 15 | 10 5 | 6 | 15 | 2.5 | 60 | 20 | M2::16 | 8.56 | 8.79 | 0.07 | 0.03 | 0.03 | 0.12 | 1.2 |
| QEW 15CB | | 4 | 18.5 | 52 | 41 | 5.5 | | | | 8 10.15 | | Ø4.5 | | 1 | 5.5 | 6 | 15 | 12.5 | ь | 4.5 | 3.5 | 60 | 20 | M3x16 | 12.53 | 15.28 | 0.12 | 0.09 | 0.09 | 0.21 | |
| QEW 20SB | | 6 | 10.5 | 50 | 40 | | | | 50 18.7 | | 10 | Ø E E | 7 | 0 | 6 | 6 5 | 20 | 15 5 | 0.5 | 0 5 | 6 | 60 | 20 | M5x16 | 11.57 | 12.18 | 0.13 | 0.05 | 0.05 | 0.19 | 2.0 |
| QEW 20CB | | O | 19.5 | 59 | 49 | 5 | | | | 1 12.3 | | Ø5.5 | ′ | 9 | O | 0.5 | 20 | 15.5 | 9.5 | 0.5 | O | 00 | 20 | IVISX IO | 16.50 | 20.21 | 0.21 | 0.15 | 0.15 | 0.31 | |
| QEW 25SB | | 62 | 25 | 73 | 60 | 65 | | 35.5 | | | 12 | 07 | 7.5 | 10 | Ω | Ω | 23 | 10 | 11 | ٥ | 7 | 60 | 20 | M6x20 | 18.24 | 18.90 | 0.22 | 0.10 | 0.10 | 0.34 | 2.6 |
| QEW 25CB | | 0.2 | 25 | 73 | 00 | 0.5 | | | | 6 16.15 | 12 | ,OI | 7.5 | 10 | O | Ü | 23 | 10 | " | 9 | , | 00 | 20 | IVI6X2U | 26.03 | 31.49 | 0.37 | 0.29 | 0.29 | 0.58 | |
| QEW 30SB | | 10 | 31 | ٩n | 72 | a | | | 67.5 2 | 25.75 | 12 | <i>(</i> /10) | 7 | 10 | g | 9 | 28 | 23 | 11 | 9 | 7 | 80 | 20 | M6x25 | 26.27 | 27.82 | 0.40 | 0.18 | 0.18 | 0.61 | 4.3 |
| QEW 30CB | | 10 | 01 | 50 | 12 | J | | | | 20.05 | 12 | 20 | <i>'</i> | 10 | Ü | 5 | 20 | 20 | '' | J | ' | 00 | 20 | WIOXZO | 37.92 | 46.63 | 0.67 | 0.51 | 0.51 | 1.03 | |
| QEW 35SB | | 11 | 33 | 100 | 82 | q | | | | 30.3 | 12 | <i>(</i> 719 | 10 | 13 | 8 5 | 8.5 | 34 | 27.5 | 14 | 12 | a | 80 | 20 | M8x25 | 36.39 | 36.43 | 0.61 | 0.33 | 0.33 | 0.77 | 6.1 |
| QEW 35CB | | , , | 55 | 100 | 02 | 9 | | | | 21.3 | 12 | 23 | 10 | 13 | 0.5 | 0.5 | 54 | 21.5 | 1-4 | 12 | 9 | 00 | 20 | WIOXZJ | 51.18 | 59.28 | 1.00 | 0.75 | 0.75 | 1.19 | |