

# Straight Rack ▶ Module 1.0/1.5/2.0/2.5/3.0

Pressure Angle 20° Fixed number of holes



Please order according to the diagram

①~⑥ Select the type and parameters in the order of for ordering

■ L Dimension Specified Type

Model(①Code) — ②Module — ③Hole Machining — ④L — ⑤Hole Position — Optional Processing  
**EBCMO — 1.0 — ZB — L200 — A30-B30-C30 — MB3**



Discounted Price  
 Quantity 1~9 10~  
 Price 100% Separate Quotation  
 Price Excluding Tax (¥/mm)



CAD 3D

| Code  | Type                       | Material | Tooth Surface Hardness | Surface Treatment  |
|-------|----------------------------|----------|------------------------|--------------------|
| EBCMO | L Dimension Specified Type | S45C     | —                      | Black Oxide Finish |
| EBCMP |                            | SUS304   | HRC40~45               | —                  |
| EBCMQ | L Dimension Fixed Type     | S45C     | —                      | Black Oxide Finish |
| EBCNO |                            | S45C     | HRC40~45               | —                  |
| EBCNP |                            | SUS304   | —                      | —                  |
| EBCNQ |                            |          |                        |                    |

Non-hardened Gear Accuracy: JIS B 1702-1 Grade 8  
 Hardened Gear Accuracy: JIS B 1702-1 Grade 9

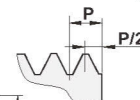
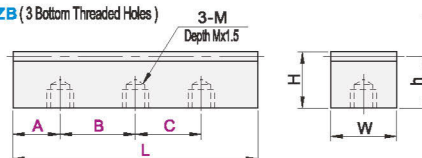
■ End Face Dimension Drawing

L Dimension Specified Type

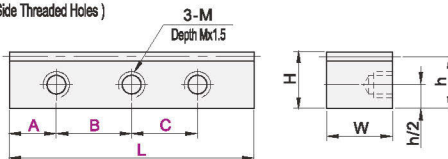
**ZA** (No Hole)



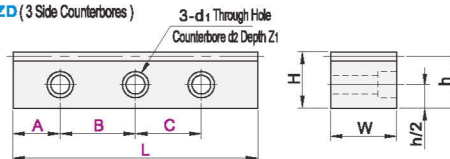
**ZB** (3 Bottom Threaded Holes)



**ZC** (3 Side Threaded Holes)



**ZD** (3 Side Counterbores)

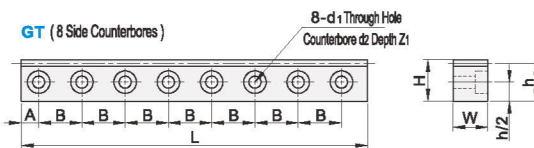


L Dimension Fixed Type

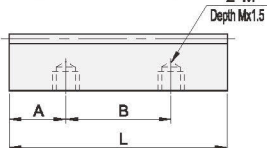
**GA** (No Hole)



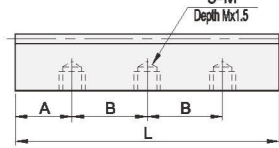
**GT** (8 Side Counterbores)



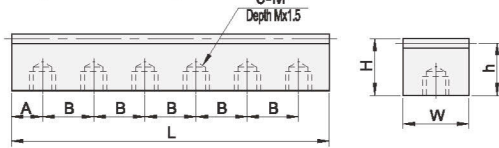
**GB** (2 Bottom Threaded Holes)



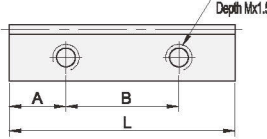
**GC** (3 Bottom Threaded Holes)



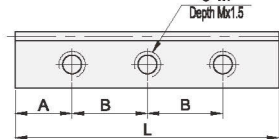
**GQ** (6 Bottom Threaded Holes)



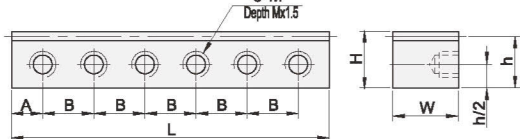
**GD** (2 Side Threaded Holes)



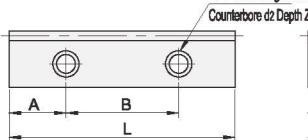
**GE** (3 Side Threaded Holes)



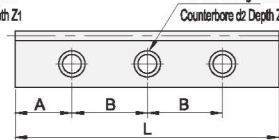
**GR** (6 Side Threaded Holes)



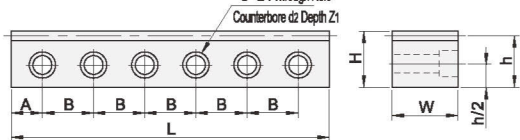
**GF** (2 Side Counterbores)



**GP** (3 Side Counterbores)



**GS** (6 Side Counterbores)



| Code           | Model | L      | Hole Position A/B/C | P Tooth Spacing | W  | H  | h    | d1  | d2  | Z1  | M  |
|----------------|-------|--------|---------------------|-----------------|----|----|------|-----|-----|-----|----|
| EBCMO<br>EBCMP | 1.0   | 20~480 | 5~475               | 3.142           | 10 | 12 | 11   | 3.5 | 6.5 | 3.5 | M3 |
|                | 1.5   |        |                     | 4.712           | 15 | 20 | 18.5 | 4.5 | 8   | 4.5 | M4 |
|                | 2.0   |        |                     | 6.283           | 20 | 25 | 23   | 5.5 | 9.5 | 5.5 | M5 |
|                | 2.5   |        |                     | 7.854           | 25 | 30 | 27.5 | 6.5 | 11  | 6.5 | M6 |
|                | 3.0   |        |                     | 9.424           | 30 | 35 | 32   | 9   | 14  | 9   | M8 |

# Straight Rack ▶ Module 1.0/1.5/2.0/2.5/3.0

Pressure Angle 20° Fixed number of holes

| Model |        | L                            | Hole Position<br>A/B/C | P<br>Tooth Spacing | W     | H  | h  | d <sub>1</sub> | d <sub>2</sub> | Z <sub>1</sub> | M  |
|-------|--------|------------------------------|------------------------|--------------------|-------|----|----|----------------|----------------|----------------|----|
| Code  | Module |                              |                        |                    |       |    |    |                |                |                |    |
| EBCMQ | 1.0    | ZA ZB ZC                     | 20~480                 | 5~475              | 3.142 | 10 | 10 | 9              | —              | —              | M3 |
|       | 1.5    | ZA (No Hole)                 |                        |                    | 4.712 | 15 | 15 | 13.5           | 4.5            | 8              | M4 |
|       | 2.0    | ZB (3 Bottom Threaded Holes) |                        |                    | 6.283 | 20 | 20 | 18             | 5.5            | 9.5            | M5 |
|       | 2.5    | ZC (3 Side Threaded Holes)   |                        |                    | 7.854 | 25 | 25 | 22.5           | 6.5            | 11             | M6 |
|       | 3.0    | ZD (3 Side Counterbores)     |                        |                    | 9.424 | 30 | 30 | 27             | 9              | 14             | M8 |

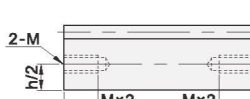
■ L Dimension Fixed Type

| Model          |        | Specifications | Hole Machining | Z<br>Effective Number Teeth | L       | P<br>Tooth Spacing | W  | H  | h    | d <sub>1</sub> | d <sub>2</sub> | Z <sub>1</sub> | A     | B      | M  | Number Holes |
|----------------|--------|----------------|----------------|-----------------------------|---------|--------------------|----|----|------|----------------|----------------|----------------|-------|--------|----|--------------|
| Code           | Module |                |                |                             |         |                    |    |    |      |                |                |                |       |        |    |              |
| EBCNO<br>EBCNP | 1.0    | 100            | GA             | 30                          | 94.25   | 3.142              | 10 | 12 | 11   | 3.5            | 6.5            | 3.5            | —     | —      | —  | —            |
|                |        | 300            | GA             | 95                          | 298.45  |                    |    |    |      |                |                |                | 59.23 | 180    | M3 | 2            |
|                |        | 500            | GB GD GF       | 159                         | 499.51  |                    |    |    |      |                |                |                | 69.76 | 180    | M3 | 3            |
|                |        | 1000           | GA             | 318                         | 999     |                    |    |    |      |                |                |                | 62.42 | 124.88 | —  | 8            |
|                | 1.5    | 100            | GA             | 21                          | 98.96   | 4.712              | 15 | 20 | 18.5 | 4.5            | 8              | 4.5            | —     | —      | —  | —            |
|                |        | 300            | GB GD GF       | 63                          | 296.88  |                    |    |    |      |                |                |                | 58.44 | 180    | M4 | 2            |
|                |        | 500            | GA             | 106                         | 499.51  |                    |    |    |      |                |                |                | 69.76 | 180    | M4 | 3            |
|                |        | 1000           | GC GE GP       | 212                         | 999.03  |                    |    |    |      |                |                |                | 62.42 | 124.88 | —  | 8            |
|                | 2.0    | 100            | GA             | 15                          | 94.25   | 6.283              | 20 | 25 | 23   |                |                |                | —     | —      | —  | —            |
|                |        | 300            | GB GD GF       | 47                          | 295.31  |                    |    |    |      |                |                |                | 57.66 | 180    | M5 | 2            |
|                |        | 500            | GA             | 79                          | 496.37  |                    |    |    |      |                |                |                | 68.19 | 180    | M5 | 3            |
|                |        | 1000           | GC GE GP       | 160                         | 1005.28 |                    |    |    |      |                |                |                | 62.83 | 125.66 | —  | 8            |
|                | 2.5    | 100            | GA             | 12                          | 94.25   | 7.854              | 25 | 30 | 27.5 | 5.5            | 9.5            | 5.5            | —     | —      | —  | —            |
|                |        | 300            | GB GD GF       | 38                          | 298.45  |                    |    |    |      |                |                |                | 59.23 | 180    | M5 | 2            |
|                |        | 500            | GA             | 63                          | 494.8   |                    |    |    |      |                |                |                | 67.4  | 180    | M5 | 3            |
|                |        | 1000           | GC GE GP       | 128                         | 1005.31 |                    |    |    |      |                |                |                | 62.83 | 125.66 | —  | 8            |
|                | 3.0    | 100            | GA             | 10                          | 94.25   | 9.424              | 30 | 35 | 32   |                |                |                | —     | —      | —  | —            |
|                |        | 300            | GB GD GF       | 31                          | 292.17  |                    |    |    |      |                |                |                | 56.09 | 180    | M5 | 2            |
|                |        | 500            | GA             | 53                          | 499.51  |                    |    |    |      |                |                |                | 69.76 | 180    | M5 | 3            |
|                |        | 1000           | GC GE GP       | 108                         | 1017.9  |                    |    |    |      |                |                |                | 63.63 | 127.23 | —  | 8            |

| Model |        | Specifications | Hole Machining | Z<br>Effective Number Teeth | L      | P<br>Tooth Spacing | W  | H  | h    | d <sub>1</sub> | d <sub>2</sub> | Z <sub>1</sub> | A     | B      | M  | Number Holes |
|-------|--------|----------------|----------------|-----------------------------|--------|--------------------|----|----|------|----------------|----------------|----------------|-------|--------|----|--------------|
| Code  | Module |                |                |                             |        |                    |    |    |      |                |                |                |       |        |    |              |
| EBCNQ | 1.0    | 300            | GA             | 95                          | 298.45 | 3.142              | 10 | 10 | 9    | 3.5            | 6.5            | 3.5            | 59.23 | 180    | M3 | 2            |
|       |        | 500            | GB GD GF       | 159                         | 499.51 |                    |    |    |      | 3.5            | 6.5            | 3.5            | 69.76 | 180    | M3 | 3            |
|       |        | 1000           | GA             | 318                         | 999    |                    |    |    |      | 3.5            | 6.5            | 3.5            | 62.42 | 124.88 | —  | 8            |
|       | 1.5    | 300            | GB GD GF       | 63                          | 296.88 | 4.712              | 15 | 15 | 13.5 | 4.5            | 8              | 4.5            | 58.44 | 180    | M4 | 2            |
|       |        | 500            | GA             | 106                         | 499.51 |                    |    |    |      | 4.5            | 8              | 4.5            | 69.76 | 180    | M4 | 3            |
|       |        | 1000           | GC GE GP       | 212                         | 999.03 |                    |    |    |      | 4.5            | 8              | 4.5            | 62.42 | 124.88 | —  | 8            |
|       | 2.0    | 500            | GC GE GP       | 79                          | 496.37 | 6.283              | 20 | 20 | 18   | 5.5            | 9.5            | 5.5            | 68.19 | 180    | M5 | 3            |
|       |        | 1000           | GA             | 159                         | 999.02 |                    |    |    |      | 5.5            | 9.5            | 5.5            | 49.51 | 180    | M5 | 6            |
|       |        | 1000           | GQ GR GS       | 159                         | 999.02 |                    |    |    |      | 5.5            | 9.5            | 5.5            | 49.51 | 180    | M5 | 6            |
|       | 2.5    | 500            | GC GE GP       | 63                          | 494.80 | 7.854              | 25 | 25 | 22.5 | 6.5            | 11             | 6.5            | 67.40 | 180    | M6 | 3            |
|       |        | 1000           | GA             | 127                         | 997.45 |                    |    |    |      | 6.5            | 11             | 6.5            | 48.73 | 180    | M6 | 6            |
|       |        | 1000           | GQ GR GS       | 127                         | 997.45 |                    |    |    |      | 6.5            | 11             | 6.5            | 48.73 | 180    | M6 | 6            |
|       | 3.0    | 500            | GC GE GP       | 53                          | 499.51 | 9.424              | 30 | 30 | 27   | 9              | 14             | 9              | 69.76 | 180    | M8 | 3            |
|       |        | 1000           | GA             | 106                         | 999.03 |                    |    |    |      | 9              | 14             | 9              | 49.52 | 180    | M8 | 6            |
|       |        | 1000           | GQ GR GS       | 106                         | 999.03 |                    |    |    |      | 9              | 14             | 9              | 49.52 | 180    | M8 | 6            |

□ GA ( No Hole ), GB ( 2 Bottom Threaded Holes ), GC ( 3 Bottom Threaded Holes ), GD ( 2 Side Threaded Holes ), GE ( 3 Side Threaded Holes ), GF ( 2 Side Counterbores ), GP ( 3 Side Counterbores ), GQ ( 6 Bottom Threaded Holes ), GR ( 6 Side Threaded Holes ), GS ( 6 Side Counterbores ), GT ( 8 Side Counterbores )

■ Optional Processing

| Model                   | Add Single-side Internal Threaded Holes                                             |                             | Add Double-side Internal Threaded Holes |                                                                                     |
|-------------------------|-------------------------------------------------------------------------------------|-----------------------------|-----------------------------------------|-------------------------------------------------------------------------------------|
| Code                    | MA ( )                                                                              |                             | MB ( )                                  |                                                                                     |
| Technical Specification |  | Selection Method <b>MA4</b> |                                         |  |
|                         |                                                                                     | Module                      | M Selection                             |                                                                                     |
|                         |                                                                                     | 1.0                         | 3 4                                     |                                                                                     |
|                         |                                                                                     | 1.5~3.0                     | 4 5 6                                   |                                                                                     |
|                         |                                                                                     |                             |                                         |                                                                                     |