

# Standard Spur Gear ▶ Module 3.0 Pressure Angle 20°



Please order according to the diagram

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

Model(①Code) - ②Module - ③Number Teeth - ④B - ⑤Gear Shape - ⑥Inner Bore Diameter P<sub>H7</sub>

Optional Processing  
Round Hole Type  
Screw Locking Type  
Keyway Hole Type

HC90 HC120 MC()



Discounted Price  
Quantity 1~9 10~  
Price 100% Separate Quotation  
Price Excluding Tax (Yen)

EAKDP - 3.0 - 15 - B30 - B - P8N - HC90



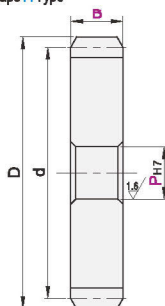
CAD 2D/3D

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

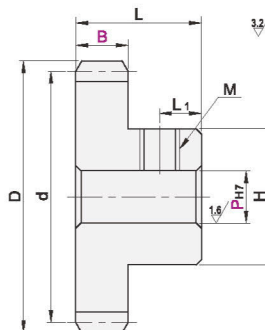
| Code                                                                          | Type             | Material<br>National Standard<br>Equivalent | Tooth Surface Hardness | Surface Treatment | Selection of Inner Hole P Shape |                  |                    |
|-------------------------------------------------------------------------------|------------------|---------------------------------------------|------------------------|-------------------|---------------------------------|------------------|--------------------|
| EAKDP<br>EAKDO<br>EAKDS<br>EAKDR<br>EAKPE<br>EAKPO<br>EAKES<br>EAKER<br>EAKFP | Round Hole Type  | 45<br>0Cr18Ni9                              | S45C<br>SUS304         | —<br>—            | —<br>—                          | Round Hole Type  | Screw Locking Type |
| EAKFO<br>EAKFS<br>EAKFR                                                       | Keyway Hole Type | 45<br>0Cr18Ni9                              | S45C<br>SUS304         | —<br>—            | —<br>—                          | Keyway Hole Type | Keyway Hole Type   |

- ① Screw Locking Type Only Applies to Type B.
- ② When selecting Type A for the keyed hole type, there are no threaded holes or set screws.
- ③ Detailed dimensions of the keyed hole can be found in the product introduction.

Gear Shape A Type



B Type



| Model<br>Code                                          | Module | Number<br>Teeth | B  | Gear<br>Shape | Inner Bore Diameter P <sub>H7</sub><br>Minimum Unit 1 | d   | D   | H  | L  | L <sub>1</sub> | M  |
|--------------------------------------------------------|--------|-----------------|----|---------------|-------------------------------------------------------|-----|-----|----|----|----------------|----|
| Round Hole Type<br>EAKDP<br>EAKDO<br>EAKDS<br>EAKDR    | 3.0    | 12              | 30 | A Type        | 12~17 12N                                             | 36  | 42  | 27 | 50 | 10             | M5 |
|                                                        |        | 14              |    |               | 12~22 12N~16N                                         | 42  | 48  | 32 |    |                |    |
|                                                        |        | 15              |    |               | 12~24 12N~19N                                         | 45  | 51  | 35 |    |                |    |
|                                                        |        | 16              |    |               | 12~28 12N~23N                                         | 48  | 54  | 40 |    |                |    |
|                                                        |        | 17              |    |               | 12~30 12N~25N                                         | 51  | 57  | 40 |    |                |    |
|                                                        |        | 18              |    |               | 12~31 12N~26N                                         | 54  | 60  | 44 |    |                |    |
|                                                        |        | 19              |    |               | 12~35 12N~31N                                         | 57  | 63  | 45 |    |                |    |
|                                                        |        | 20              |    |               | 12~36 12N~33N                                         | 60  | 66  | 50 |    |                |    |
|                                                        |        | 21              |    |               | 12~37 12N~34N                                         | 63  | 69  | 52 |    |                |    |
|                                                        |        | 22              |    |               | 12~39 12N~35N                                         | 66  | 72  | 54 |    |                |    |
|                                                        |        | 23              |    |               | 12~40 12N~37N                                         | 69  | 75  | 56 |    |                |    |
|                                                        |        | 24              |    |               | 12~42 12N~38N                                         | 72  | 78  | 58 |    |                |    |
|                                                        |        | 25              |    |               | 12~45 12N~42N                                         | 75  | 81  | 60 |    |                |    |
|                                                        |        | 26              |    |               | 12~49 12N~45N                                         | 78  | 84  | 65 |    |                |    |
|                                                        |        | 27              |    |               | 12~52 12N~48N                                         | 81  | 87  | 65 |    |                |    |
|                                                        |        | 28              |    |               | 12~56 12N~50N                                         | 84  | 90  | 70 |    |                |    |
|                                                        |        | 29              |    |               | 12~59 12N~50N                                         | 87  | 93  | 70 |    |                |    |
|                                                        |        | 30              |    |               | 20~59 20N~50N                                         | 90  | 96  | 75 |    |                |    |
| Screw Locking Type<br>EAKPE<br>EAKPO<br>EAKES<br>EAKER | 3.0    | 32              | 30 | B Type        | 12~56 12N~50N                                         | 96  | 102 | 75 | 80 | 10             | M6 |
|                                                        |        | 34              |    |               | 12~59 12N~50N                                         | 102 | 108 | 75 |    |                |    |
|                                                        |        | 35              |    |               | 12~59 12N~50N                                         | 105 | 111 | 75 |    |                |    |
|                                                        |        | 36              |    |               | 12~59 12N~50N                                         | 108 | 114 | 75 |    |                |    |
|                                                        |        | 38              |    |               | 12~59 12N~50N                                         | 114 | 120 | 75 |    |                |    |
|                                                        |        | 40              |    |               | 12~59 12N~50N                                         | 120 | 126 | 75 |    |                |    |
|                                                        |        | 42              |    |               | 12~59 12N~50N                                         | 126 | 132 | 75 |    |                |    |
|                                                        |        | 44              |    |               | 12~59 12N~50N                                         | 132 | 138 | 75 |    |                |    |
|                                                        |        | 45              |    |               | 12~59 12N~50N                                         | 135 | 141 | 75 |    |                |    |
|                                                        |        | 46              |    |               | 12~59 12N~50N                                         | 138 | 144 | 75 |    |                |    |
| Keyway Hole Type<br>EAKFP<br>EAKFO<br>EAKFS<br>EAKFR   | 3.0    | 48              | 30 | B Type        | 12~59 12N~50N                                         | 144 | 150 | 75 | 85 | 10             | M6 |
|                                                        |        | 50              |    |               | 12~59 12N~50N                                         | 150 | 156 | 75 |    |                |    |
|                                                        |        | 52              |    |               | 12~59 12N~50N                                         | 156 | 162 | 75 |    |                |    |
|                                                        |        | 54              |    |               | 12~59 12N~50N                                         | 162 | 168 | 75 |    |                |    |
|                                                        |        | 55              |    |               | 12~59 12N~50N                                         | 165 | 171 | 75 |    |                |    |
|                                                        |        | 56              |    |               | 12~59 12N~50N                                         | 168 | 174 | 75 |    |                |    |
|                                                        |        | 58              |    |               | 12~59 12N~50N                                         | 174 | 180 | 75 |    |                |    |
|                                                        |        | 60              |    |               | 12~59 12N~50N                                         | 180 | 186 | 75 |    |                |    |
|                                                        |        | 62              |    |               | 12~59 12N~50N                                         | 186 | 192 | 75 |    |                |    |
|                                                        |        | 64              |    |               | 12~59 12N~50N                                         | 192 | 198 | 75 |    |                |    |

Optional Processing

| Code | Technical Specification                                                                                                                                                                            |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| HC90 | Adding Setscrew Hole at 90° Position<br>Selection Method HC90<br>① Additional setscrew hole processing at a 90° position relative to the original setscrew hole.<br>② Type A is not applicable.    |
|      | Adding Setscrew Hole at 120° Position<br>Selection Method HC120<br>① Additional setscrew hole processing at a 120° position relative to the original setscrew hole.<br>② Type A is not applicable. |
| MC() | Changing the Size of Threaded Hole<br>Selection Method MC5<br>Screw Hole Designation Table<br>Number Teeth MC<br>12~16 M4 M6<br>18~40 M5 M8<br>① Type A is not applicable.                         |