


Spur Gears - Tooth Width, Hub Dimensions Configurable

Pressure Angle 20°, Module 0.5, 0.8, 1.0, 1.5, 2.0, 2.5, 3.0

| Fixing Parts | | | | Others | | |
|--------------|------------------|-----------|--------------|-----------------------|---------|--------------|
| Rotary Shaft | Cantilever Shaft | MechaLock | Parallel Key | Bearing with Housings | Bearing | Shaft Collar |
| P1-837 | P1-901 | P1-1521 | P2-277 | P1-1014 | P1-1017 | P1-297 |
| P1-900 | P1-926 | P1-1530 | P2-282 | P1-1014 | P1-1049 | P1-330 |

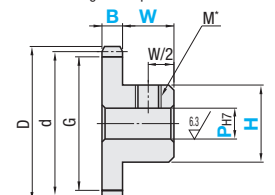
For products uncovered by the e-Catalog Standard, see P131.



RoHS 10

| Type | Material | Surface Treatment | Accessory |
|---------------|-----------------|----------------------------|---------------------------------|
| Straight Bore | S45C Equivalent | Black Oxide | Set Screw (SCM435, Black Oxide) |
| Keyway + Tap | SUS304 | Electroless Nickel Plating | Set Screw (SUS304) |

Set Screw is not included in Straight Bore products.



Shaft Bore Specifications

| Shaft Bore Dia. Ph7 | M (Coarse) | Accessory: Set Screw |
|---------------------|------------|----------------------|
| 3-5 | M3 | M3x3 |
| 6-12 | M4 | M4x3 |
| 13-17 | M5 | M5x4 |
| 18-30 | M6 | M6x5 |
| 31-40 | M8 | M8x6 |

Accuracy Previous JIS B 1702 Class 4 (New JIS B 1702-1 Class 8 Equivalent)

Module 0.5, 0.8, 1.0, 1.5

| Part Number | Number of Teeth | B 1mm Increment | Shaft Bore Dia. Ph7 (1mm Increment) | | Hub Increment | | d Reference Dia. | D Tip Dia. | G Root Dia. | Unit Price | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-----------------|-----------------|-------------------------------------|--------------|--|--|------------------|------------|-------------|---------------|--|---|---------------------|-------|--------|--------------|--|----|-----|-------|--------|------|---|----|----|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | Straight Bore | Keyway + Tap | W | H | | | | Straight Bore | | | Straight Bore + Tap | | | Keyway + Tap | | | | | | | | | | | | | | | | | | | | | | | | |
| Type | Module | | Straight Bore | Keyway + Tap | | | | | | GEFHB | GEFBB | GEFGB | GEFBS | GEFKB | GEFKBB | GEFKBG | GEFKBS | | | | | | | | | | | | | | | | | | | | | | | |
| Straight Bore GEFHB GEFBB GEFGB GEFBS | 0.5 | 2-5 | 3-4-5 | 0-10 | P+2≤H≤G-2 (Straight Bore) P+4≤H≤G-2 (Straight Bore + Tap) | 10 | 11 | 8.75 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | Straight Bore + Tap GEFB GEFBB GEFBG GEFBS | 0.8 | 3-10 | 5-8 | 0-10 | P+2≤H≤G-2 (Straight Bore) P+4≤H≤G-2 (Straight Bore + Tap) | 12 | 13.6 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | Keyway + Tap GEFKB GEFKBB GEFKBG GEFKBS | 1.0 | 5-15 | 8N-12N | 0-15 | P+4≤H≤G-3 (Straight Bore, Straight Bore + Tap) P+6≤H≤G-3 (Keyway + Tap) | 20 | 22 | 17.5 | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | 1.5 | 10-20 | 8N-12N | 0-20 | P+6≤H≤G-4 (Straight Bore, Straight Bore + Tap) P+13≤H≤G-4 (Keyway + Tap) | 24 | 27 | 20.25 | | | | | | | | | | | | | | |

Module 2.0, 2.5, 3.0

| Part Number | Number of Teeth | B 1mm Increment | Shaft Bore Dia. Ph7 (1mm Increment) | | Hub Increment | | d Reference Dia. | D Tip Dia. | G Root Dia. | Unit Price | | | | | | | | | | | | | | | | | | | | | | | |
|---|-----------------|-----------------|-------------------------------------|--------------|---------------|--|------------------|------------|-------------|---------------|-------|-------|---------------------|-------|--------|--------------|--------|----|--|----|----|----|--|--|--|--|--|--|--|--|--|--|--|
| | | | Straight Bore | Keyway + Tap | W | H | | | | Straight Bore | | | Straight Bore + Tap | | | Keyway + Tap | | | | | | | | | | | | | | | | | |
| Type | Module | | Straight Bore | Keyway + Tap | | | | | | GEFHB | GEFBB | GEFGB | GEFBS | GEFKB | GEFKBB | GEFKBG | GEFKBS | | | | | | | | | | | | | | | | |
| Straight Bore GEFHB GEFBB GEFGB GEFBS | 2.0 | 15-25 | 8-15 | 8N-12N | 0-25 | 15 | | 30 | 34 | 25 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | Straight Bore + Tap GEFB GEFBB GEFBG GEFBS | 2.5 | 20-30 | 8-25 | 8N-20N | 0-30 | 20 | | 40 | 44 | 35 | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | 3.0 | 25-35 | 8-30 | 8N-25N | 0-35 | 25 | | 50 | 54 | 45 | | | | | | | | | | | |

- Shaft bore diameter 9N is not available for Keyway Bore + Tap. When specifying "Straight Bore + Tap" or "Keyway + Tap," make sure that the hub length satisfies the condition of "(W)>M+3."
- When the tooth width is smaller, the transmitting torque is smaller. Shaft bore diameter 6.35 is available for Straight Bore and Straight Bore + Tap.
- Specify 10K as the P dimension if keyway width of 4.0mm (height 1.8mm) for Keyway + Tap with shaft bore diameter of 10 is desired. P1532.
- When requesting Shape A (no hub), specify W=0.
- When W=0, specification for H is not required. The "-" text on the above table means that any Shaft Bore Dia. is not selectable.

Ordering Example

Part Number - Number of Teeth - B - P - W - H

GEFHB1.0 - 30 - 8 - 15 - W10 - H26

GEFKBG2.0 - 32 - 15 - 20N - W0

Alterations

Part Number - Number of Teeth - B - P - W - H - (KC90, KC120...etc.)

GEFBB1.5 - 30 - 20 - 8 - W15 - KC90

GEFBB1.0 - 40 - 8 - 10 - W0 - KTC20-K5.0

| Alterations Code | Set Screw | Tapped Hole Dimension | Stepped Hole | Both Ends Stepped Bore |
|------------------|---|--|--|------------------------|
| KC90, KC120 | Changes the tapped hole dimension. (Z: 1mm Increment, J: 0.1mm Increment) | Changes shaft bores to stepped bores. (Z: 1mm Increment, J: 0.1mm Increment) | Changes shaft bores to both ends stepped bore. (Q, R, S, T: 1mm Increment) | |
| TPC | Changes the tapped hole dimension. (Z: 1mm Increment, J: 0.1mm Increment) | Changes shaft bores to stepped bores. (Z: 1mm Increment, J: 0.1mm Increment) | Changes shaft bores to both ends stepped bore. (Q, R, S, T: 1mm Increment) | |
| DHL, DHR | Changes the tapped hole dimension. (Z: 1mm Increment, J: 0.1mm Increment) | Changes shaft bores to stepped bores. (Z: 1mm Increment, J: 0.1mm Increment) | Changes shaft bores to both ends stepped bore. (Q, R, S, T: 1mm Increment) | |
| WDH | Changes the tapped hole dimension. (Z: 1mm Increment, J: 0.1mm Increment) | Changes shaft bores to stepped bores. (Z: 1mm Increment, J: 0.1mm Increment) | Changes shaft bores to both ends stepped bore. (Q, R, S, T: 1mm Increment) | |

| Alterations Code | Side Counterbored | Side Slotted Hole | Side Through Hole | Side Tapped Hole |
|------------------|--|---|---|--|
| ZFC, ZTC | Machines counterbored holes on the side surface. (ZFC, ZTC: 1mm Increment) | Machines slotted holes on the side surface (30°). (LFC, LTC: 1mm Increment) | Machines through holes on the side surface. (KFC, KTC: 1mm Increment) | Machines tapped holes on the side surface of the gear. (QFC, QTC: 1mm Increment) |
| LFC, LTC | Machines counterbored holes on the side surface. (ZFC, ZTC: 1mm Increment) | Machines slotted holes on the side surface (30°). (LFC, LTC: 1mm Increment) | Machines through holes on the side surface. (KFC, KTC: 1mm Increment) | Machines tapped holes on the side surface of the gear. (QFC, QTC: 1mm Increment) |
| KFC, KTC | Machines counterbored holes on the side surface. (ZFC, ZTC: 1mm Increment) | Machines slotted holes on the side surface (30°). (LFC, LTC: 1mm Increment) | Machines through holes on the side surface. (KFC, KTC: 1mm Increment) | Machines tapped holes on the side surface of the gear. (QFC, QTC: 1mm Increment) |
| QFC, QTC | Machines counterbored holes on the side surface. (ZFC, ZTC: 1mm Increment) | Machines slotted holes on the side surface (30°). (LFC, LTC: 1mm Increment) | Machines through holes on the side surface. (KFC, KTC: 1mm Increment) | Machines tapped holes on the side surface of the gear. (QFC, QTC: 1mm Increment) |