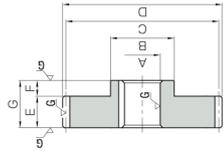




| Specifications | |
|-----------------|---------------------------------|
| Precision grade | JIS grade NS (JIS B1702-1:1998) |
| Gear teeth | Standard full depth |
| Pressure angle | 20° |
| Material | SCM415 |
| Heat Treatment | Carburized |
| Tooth hardness | 55 to 60HRC |



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| Catalog Number | Module | No. of teeth | Shape | Bore A ₁₇ | Hub dia. B | Pitch dia. C | Outside dia. D | Face width E | Hub width F | Total Length G | Web thickness H | Web O.D. I | | |
|----------------|--------|--------------|-------|----------------------|------------|--------------|----------------|--------------|-------------|----------------|-----------------|------------|--|--|
| MSGA2-15 | m2 | 15 | 51 | 12 | 24 | 30 | 34 | | | | | | | |
| MSGB2-15** | | | | 15 | 30 | 36 | 40 | | | | | | | |
| MSGA2-18 | | | | 15 | 30 | 36 | 40 | | | | | | | |
| MSGB2-18 | | | | 15 | 30 | 36 | 40 | | | | | | | |
| MSGA2-20 | | | | 18 | 32 | 40 | 44 | | | | | | | |
| MSGB2-20 | | | | 18 | 32 | 40 | 44 | | | | | | | |
| MSGA2-24 | | | | 15 | 35 | 48 | 52 | | | | | | | |
| MSGB2-24 | | | | 18 | 35 | 48 | 52 | | | | | | | |
| MSGA2-25 | | | | 16 | 35 | 50 | 54 | | | | | | | |
| MSGB2-25 | | | | 20 | 35 | 50 | 54 | | | | | | | |
| MSGA2-30 | 18 | 40 | 60 | 64 | | | | | | | | | | |
| MSGB2-30 | 22 | 40 | 60 | 64 | | | | | | | | | | |
| MSGA2-35 | 18 | 40 | 70 | 74 | | | | | | | | | | |
| MSGB2-35 | 22 | 40 | 70 | 74 | | | | | | | | | | |
| MSGA2-36 | 18 | 40 | 72 | 76 | | | | | | | | | | |
| MSGB2-36 | 22 | 40 | 72 | 76 | | | | | | | | | | |
| MSGA2-40 | 20 | 45 | 80 | 84 | 20 | 10 | 30 | | | | | | | |
| MSGB2-40 | 25 | 45 | 80 | 84 | 20 | 10 | 30 | | | | | | | |
| MSGA2-45 | 20 | 45 | 90 | 94 | | | | | | | | | | |
| MSGB2-45 | 25 | 45 | 90 | 94 | | | | | | | | | | |
| MSGA2-48 | 22 | 50 | 96 | 100 | | | | | | | | | | |
| MSGB2-48 | 28 | 50 | 96 | 100 | | | | | | | | | | |
| MSGA2-50 | 22 | 50 | 100 | 104 | | | | | | | | | | |
| MSGB2-50 | 28 | 50 | 100 | 104 | | | | | | | | | | |
| MSGA2-55 | 25 | 55 | 110 | 114 | | | | | | | | | | |
| MSGB2-55 | 30 | 55 | 110 | 114 | | | | | | | | | | |
| MSGA2-60 | 25 | 55 | 120 | 124 | | | | | | | | | | |
| MSGB2-60 | 30 | 55 | 120 | 124 | | | | | | | | | | |
| MSGA2-70 | 25 | 55 | 140 | 144 | | | | | | | | | | |
| MSGB2-70 | 30 | 55 | 140 | 144 | | | | | | | | | | |
| MSGA2-80 | 30 | 60 | 160 | 164 | | | | | | | | | | |
| MSGB2-80 | 35 | 60 | 160 | 164 | | | | | | | | | | |
| MSGA2-100 | 35 | 80 | 200 | 204 | | | | | | | | | | |
| MSGB2-100 | 40 | 80 | 200 | 204 | | | | | | | | | | |

- (Caution on Product Characteristics)
- Although the dimensions of the keyway are made to the JIS B1301 (J59) tolerance, there may be some deviations due to the effects of the heat treatment.
 - The allowable torques shown in the table are calculated values according to the assumed usage conditions. Please see Page 24 for more details.
 - The backlash values shown in the table are the theoretical values for the backlash in the normal direction of a pair of identical gears in mesh.
 - Products marked with "HRC" have a small amount of material between the corner of the keyway and the tooth root. This mode of failure must be considered when selecting these gears. For details, please see our web site.

*** For products not categorized in our KHK Stock Gear series, custom gear production services with short lead times are available. Please see Page 16 for more details about custom-made orders.**

| Keyway | Allowable torque (N·m) | Allowable torque (kgf·m) | Backlash (mm) | Weight (kg) | Catalog Number |
|----------|------------------------|--------------------------|---------------|-------------|----------------|
| 4 x 1.8 | 73.1 | 35.7 | | 0.12 | MSGA2-15 |
| | | | | | MSGB2-15** |
| 4 x 1.8 | 97.2 | 53.5 | | 0.19 | MSGA2-18 |
| | | | | | MSGB2-18 |
| 5 x 2.3 | 114 | 67.6 | 0.10~0.20 | 0.22 | MSGA2-20 |
| | | | | | MSGB2-20 |
| 5 x 2.3 | 148 | 101 | | 0.32 | MSGA2-24 |
| | | | | | MSGB2-24 |
| 5 x 2.3 | 157 | 110 | | 0.33 | MSGA2-25 |
| | | | | | MSGB2-25 |
| 6 x 2.8 | 201 | 161 | | 0.48 | MSGA2-30 |
| | | | | | MSGB2-30 |
| 6 x 2.8 | 246 | 223 | | 0.64 | MSGA2-35 |
| | | | | | MSGB2-35 |
| 6 x 2.8 | 255 | 236 | | 0.67 | MSGA2-36 |
| | | | | | MSGB2-36 |
| 6 x 2.8 | 292 | 294 | 0.12~0.22 | 0.84 | MSGA2-40 |
| | | | | | MSGB2-40 |
| 8 x 3.3 | 338 | 377 | | 1.05 | MSGA2-45 |
| | | | | | MSGB2-45 |
| 6 x 2.8 | 349 | 411 | | 1.20 | MSGA2-48 |
| | | | | | MSGB2-48 |
| 6 x 2.8 | 367 | 448 | | 1.29 | MSGA2-50 |
| | | | | | MSGB2-50 |
| 8 x 3.3 | 412 | 548 | | 1.56 | MSGA2-55 |
| | | | | | MSGB2-55 |
| 8 x 3.3 | 457 | 658 | | 1.84 | MSGA2-60 |
| | | | | | MSGB2-60 |
| 8 x 3.3 | 547 | 909 | 0.14~0.24 | 2.48 | MSGA2-70 |
| | | | | | MSGB2-70 |
| 8 x 3.3 | 610 | 1150 | | 2.55 | MSGA2-80 |
| | | | | | MSGB2-80 |
| 10 x 3.3 | 785 | 1820 | | 4.16 | MSGA2-100 |
| | | | | | MSGB2-100 |

(Caution on Secondary Operations)

① No secondary operations can be performed on these precision finished gears due to the applied carburizing process. For products which are different in specifications, such as bore size, we accept custom-made gear orders and provide a price quote.