

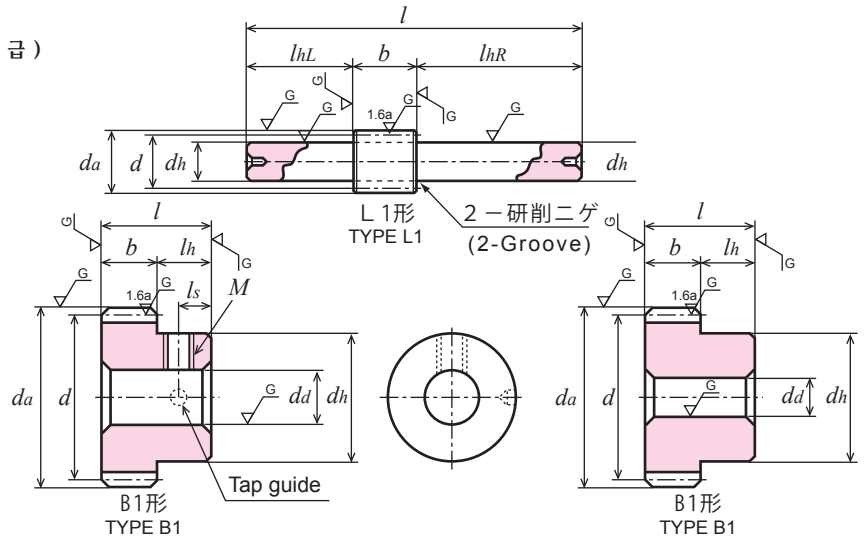
치연 평기어

GROUND SPUR GEARS

모듈
MODULE

0.5 압력각 20° (병치)
20° PRESSURE ANGLE FULL DEPTH TOOTH

치부 고주파 열처리 HRC49~55
신 JIS B 1702-1(ISO) 5 급 해당 (구 JIS B 1702 1 급)
Precision: JIS B1702 class 1 equivalent to ISO class 5



SCM435, 440 크롬 몰리브덴 강 (JIS G 4105)

Material : Chromium Molybdenum Steel (ISO 34CrMo4, 42CrMo4)

단위 : mm
Dimensions: mm

| 상 품 기 호 Catalogue Number | 잇 수 Number of Teeth z | 기준원 직경 Reference Diameter d | 치선원 직경 Outside Diameter d_a | 형 Type | 치 폭 Face Width b | 내 경 Bore Diameter $d_d(H7)$ | 허 브 외 경 Hub Diameter d_h | 허 브 길 이 Hub Projection l_h | 전 장 Overall Length l | 셋트 스크류 Set Screw | | 탭 가이드 Tap Guide d_r | 중 량 Weight $W(g)$ |
|-----------------------------|-------------------------------|-------------------------------------|-------------------------------------|-----------|--------------------------|-----------------------------------|----------------------------------|------------------------------------|------------------------------|---------------------|-------|-----------------------------|-------------------------|
| | | | | | | | | | | M | l_s | | |
| SG50S 20L-0806 | 20 | φ10 | φ11 | L1 | 8 | - | φ 6 (h7) | L22 R50 | 80 | - | - | - | 20.8 |
| SG50S 22L-0808 | 22 | φ11 | φ12 | L1 | 8 | - | φ 8 (h7) | L22 R50 | 80 | - | - | - | 34.2 |
| SG50S 24L-0810 | 24 | φ12 | φ13 | L1 | 8 | - | φ10 (h7) | L22 R50 | 80 | - | - | - | 51.1 |
| SG50S 25L-0810 | 25 | φ12.5 | φ13.5 | L1 | 8 | - | φ10 (h7) | L22 R50 | 80 | - | - | - | 51.7 |
| SG50S 26L-0810 | 26 | φ13 | φ14 | L1 | 8 | - | φ10 (h7) | L22 R50 | 80 | - | - | - | 52.4 |
| SG50S 28B-0805 | 28 | φ14 | φ15 | B1 | 8 | φ5 | φ10 | 8 | 16 | - | - | - | 12.1 |
| SG50S 30B-0805 | 30 | φ15 | φ16 | B1 | 8 | φ5 | φ12 | 8 | 16 | - | - | - | 15.6 |
| SG50S 30B-0806 | 30 | φ15 | φ16 | B1 | 8 | φ6 | φ12 | 8 | 16 | - | - | - | 14.5 |
| SG50S 30B+0806 | 30 | φ15 | φ16 | B1 | 8 | φ6 | φ12 | 8 | 16 | M3 | 4 | φ2.5 | 14.5 |
| SG50S 32B-0805 | 32 | φ16 | φ17 | B1 | 8 | φ5 | φ12 | 8 | 16 | - | - | - | 17.2 |
| SG50S 32B-0806 | 32 | φ16 | φ17 | B1 | 8 | φ6 | φ12 | 8 | 16 | - | - | - | 16.1 |
| SG50S 35B-0805 | 35 | φ17.5 | φ18.5 | B1 | 8 | φ5 | φ14 | 8 | 16 | - | - | - | 22.2 |
| SG50S 36B-0806 | 36 | φ18 | φ19 | B1 | 8 | φ6 | φ16 | 8 | 16 | - | - | - | 24.9 |
| SG50S 36B-0808 | 36 | φ18 | φ19 | B1 | 8 | φ8 | φ16 | 8 | 16 | - | - | - | 22.1 |
| SG50S 40B-0806 | 40 | φ20 | φ21 | B1 | 8 | φ6 | φ16 | 8 | 16 | - | - | - | 28.6 |
| SG50S 40B-0808 | 40 | φ20 | φ21 | B1 | 8 | φ8 | φ16 | 8 | 16 | - | - | - | 25.9 |
| SG50S 40B+0808 | 40 | φ20 | φ21 | B1 | 8 | φ8 | φ16 | 8 | 16 | M4 | 4 | φ3.3 | 25.9 |

[+]: 셋트 스크류는 붙여 있지 않습니다 [+]: Gear with Thread hole / without Set Screw.

Gear tooth surface completed with induction harden, hardness HRC49 to 55.

허용전달 동력표 굽힘강도 (kW)

Allowable transfer capability table (kW) Bending Strength

| z | b | 회전 속도 (min ⁻¹) revolution/min | | | | | | |
|-----|-----|--|--------|--------|----------|----------|----------|----------|
| | | 400 | 800 | 1,200 | 1,500 | 1,800 | 2,500 | 3,000 |
| 20 | 8 | 108.04 | 216.08 | 324.12 | 405.15 | 486.18 | 675.25 | 810.30 |
| 22 | 8 | 124.31 | 248.63 | 372.94 | 466.17 | 559.41 | 776.95 | 932.34 |
| 24 | 8 | 140.85 | 281.70 | 422.54 | 528.18 | 633.81 | 880.30 | 1,056.36 |
| 25 | 8 | 149.23 | 298.46 | 447.69 | 559.61 | 671.53 | 932.68 | 1,119.22 |
| 26 | 8 | 157.67 | 315.34 | 473.01 | 591.26 | 709.51 | 985.43 | 1,182.52 |
| 28 | 8 | 174.71 | 349.41 | 524.12 | 655.15 | 786.18 | 1,091.91 | 1,310.30 |
| 30 | 8 | 191.83 | 383.66 | 575.50 | 719.37 | 863.24 | 1,198.95 | 1,438.74 |
| 32 | 8 | 209.19 | 418.38 | 627.57 | 784.46 | 941.35 | 1,307.43 | 1,568.92 |
| 35 | 8 | 235.49 | 470.97 | 706.46 | 883.07 | 1,059.69 | 1,471.79 | 1,766.14 |
| 36 | 8 | 244.32 | 488.63 | 732.95 | 916.18 | 1,099.42 | 1,526.97 | 1,832.36 |
| 40 | 8 | 279.89 | 559.78 | 839.67 | 1,049.58 | 1,259.50 | 1,749.30 | 2,091.76 |

The above numerical values are equivalent to JGMA formulas as reference only.

치면강도 (kW)

Allowable transfer capability table (kW) Surface Durability

| | | 회전 속도 (min ⁻¹) revolution/min | | | | | | |
|--|----|--|--------|--------|--------|--------|--------|--------|
| | | 400 | 800 | 1,200 | 1,500 | 1,800 | 2,500 | 3,000 |
| | 20 | 25.17 | 50.59 | 76.25 | 95.65 | 115.17 | 161.15 | 194.36 |
| | 22 | 30.61 | 61.55 | 92.81 | 116.45 | 140.25 | 196.36 | 236.91 |
| | 24 | 36.59 | 73.62 | 111.05 | 139.38 | 167.91 | 235.22 | 283.88 |
| | 25 | 39.79 | 80.07 | 120.81 | 151.65 | 182.72 | 256.03 | 309.05 |
| | 26 | 43.13 | 86.81 | 131.00 | 164.46 | 198.18 | 277.76 | 335.34 |
| | 28 | 50.22 | 101.12 | 152.66 | 191.71 | 231.06 | 324.02 | 391.30 |
| | 30 | 57.86 | 116.57 | 176.05 | 221.13 | 266.60 | 374.03 | 451.82 |
| | 32 | 66.06 | 133.15 | 201.17 | 252.76 | 304.79 | 427.81 | 516.93 |
| | 35 | 79.42 | 160.18 | 242.14 | 304.34 | 367.11 | 515.63 | 623.27 |
| | 36 | 84.16 | 169.76 | 256.68 | 322.65 | 389.24 | 546.82 | 661.05 |
| | 40 | 104.51 | 211.00 | 319.25 | 401.49 | 484.56 | 681.25 | 821.03 |

KG GEAR 한국대리점 삼성기공 053) 351-4700

| 상 품 기 호 Catalogue Number | 잇 수 | 기준원 직 경 | 치선원 직경 | 형 | 치 폭 | 내 경 | 허 브 외 경 | 허 브 길 이 | 전 장 | 셋트 스크류 | | 탭 가이드 | 중 량 |
|-----------------------------|--------------------|-----------------------|---------------------|------|---------------|------------------|-----------------|-------------------|-------------------|-----------|----------------------|-----------|--------|
| | Number of Teeth | Reference Diameter | Outside Diameter | Type | Face Width | Bore Diameter | Hub Diameter | Hub Projection | Overall Length | Set Screw | | Tap Guide | Weight |
| | | | | | | | | | | <i>M</i> | <i>l_s</i> | | |
| SG50S 45B-0808 | 45 | φ22.5 | φ23.5 | B1 | 8 | φ 8 | φ16 | 8 | 16 | - | - | - | 31.1 |
| SG50S 48B-0808 | 48 | φ24 | φ25 | B1 | 8 | φ 8 | φ20 | 8 | 16 | - | - | - | 34.5 |
| SG50S 50B-0808 | 50 | φ25 | φ26 | B1 | 8 | φ 8 | φ20 | 8 | 16 | - | - | - | 43.9 |
| SG50S 50B-0810 | 50 | φ25 | φ26 | B1 | 8 | φ10 | φ20 | 8 | 16 | - | - | - | 40.4 |
| SG50S 50B+0810 | 50 | φ25 | φ26 | B1 | 8 | φ10 | φ20 | 8 | 16 | M4 | 4 | φ3.3 | 40.4 |
| SG50S 54B-0808 | 54 | φ27 | φ28 | B1 | 8 | φ 8 | φ20 | 8 | 16 | - | - | - | 49.0 |
| SG50S 55B-0808 | 55 | φ27.5 | φ28.5 | B1 | 8 | φ 8 | φ20 | 8 | 16 | - | - | - | 50.4 |
| SG50S 56B-0808 | 56 | φ28 | φ29 | B1 | 8 | φ 8 | φ20 | 8 | 16 | - | - | - | 51.7 |
| SG50S 60B-0808 | 60 | φ30 | φ31 | B1 | 8 | φ 8 | φ22 | 8 | 16 | - | - | - | 61.5 |
| SG50S 60B-0810 | 60 | φ30 | φ31 | B1 | 8 | φ10 | φ22 | 8 | 16 | - | - | - | 58.0 |
| SG50S 60B+0810 | 60 | φ30 | φ31 | B1 | 8 | φ10 | φ22 | 8 | 16 | M4 | 4 | φ3.3 | 58.0 |
| SG50S 64B-0808 | 64 | φ32 | φ33 | B1 | 8 | φ 8 | φ22 | 8 | 16 | - | - | - | 67.6 |
| SG50S 70B-0808 | 70 | φ35 | φ36 | B1 | 8 | φ 8 | φ22 | 8 | 16 | - | - | - | 77.4 |
| SG50S 72B-0808 | 72 | φ36 | φ37 | B1 | 8 | φ 8 | φ25 | 8 | 16 | - | - | - | 87.8 |
| SG50S 75B-0808 | 75 | φ37.5 | φ38.5 | B1 | 8 | φ 8 | φ25 | 8 | 16 | - | - | - | 93.2 |
| SG50S 80B-0808 | 80 | φ40 | φ41 | B1 | 8 | φ 8 | φ25 | 8 | 16 | - | - | - | 102.7 |
| SG50S 80B-0810 | 80 | φ40 | φ41 | B1 | 8 | φ10 | φ25 | 8 | 16 | - | - | - | 99.2 |
| SG50S 80B-0812 | 80 | φ40 | φ41 | B1 | 8 | φ12 | φ25 | 8 | 16 | - | - | - | 94.9 |
| SG50S 80B+0812 | 80 | φ40 | φ41 | B1 | 8 | φ12 | φ25 | 8 | 16 | M5 | 4 | φ4.2 | 94.9 |
| SG50S 90B-0810 | 90 | φ45 | φ46 | B1 | 8 | φ10 | φ30 | 8 | 16 | - | - | - | 133.5 |
| SG50S 96B-0810 | 96 | φ48 | φ49 | B1 | 8 | φ10 | φ30 | 8 | 16 | - | - | - | 147.1 |
| SG50S 100B-0810 | 100 | φ50 | φ51 | B1 | 8 | φ10 | φ30 | 8 | 16 | - | - | - | 156.7 |
| SG50S 100B-0812 | 100 | φ50 | φ51 | B1 | 8 | φ12 | φ30 | 8 | 16 | - | - | - | 152.4 |
| SG50S 100B+0812 | 100 | φ50 | φ51 | B1 | 8 | φ12 | φ30 | 8 | 16 | M5 | 4 | φ4.2 | 152.4 |
| SG50S 108B-0810 | 108 | φ54 | φ55 | B1 | 8 | φ10 | φ35 | 8 | 16 | - | - | - | 193.0 |
| SG50S 112B-0810 | 112 | φ56 | φ57 | B1 | 8 | φ10 | φ35 | 8 | 16 | - | - | - | 203.8 |
| SG50S 120B-0810 | 120 | φ60 | φ61 | B1 | 8 | φ10 | φ35 | 8 | 16 | - | - | - | 226.6 |

[+]: 셋트 스크류는 붙여 있지 않습니다 [+]: Gear with Thread hole / without Set Screw.
Gear tooth surface completed with induction harden, hardness HRC49 to 55.

허용전달 동력표 굽힘강도 (KW)

Allowable transfer capability table (kW) Bending Strength

| z | b | 회전 속도 (min ⁻¹) revolution/min | | | | | | |
|-----|-----|--|----------|----------|----------|----------|----------|----------|
| | | 400 | 800 | 1,200 | 1,500 | 1,800 | 2,500 | 3,000 |
| 42 | 8 | 297.82 | 595.64 | 893.46 | 1,116.83 | 1,340.19 | 1,861.38 | 2,217.10 |
| 44 | 8 | 315.62 | 631.24 | 946.87 | 1,183.58 | 1,420.30 | 1,972.64 | 2,340.50 |
| 45 | 8 | 324.64 | 649.28 | 973.91 | 1,217.39 | 1,460.87 | 2,028.99 | 2,402.69 |
| 48 | 8 | 351.79 | 703.58 | 1,055.38 | 1,319.22 | 1,583.07 | 2,190.95 | 2,588.62 |
| 50 | 8 | 369.97 | 739.94 | 1,109.91 | 1,387.38 | 1,664.86 | 2,296.66 | 2,711.92 |
| 52 | 8 | 388.21 | 776.41 | 1,164.62 | 1,455.78 | 1,746.93 | 2,402.07 | 2,834.73 |
| 54 | 8 | 406.49 | 812.98 | 1,219.47 | 1,524.34 | 1,829.21 | 2,507.08 | 2,956.93 |
| 55 | 8 | 415.65 | 831.31 | 1,246.96 | 1,558.70 | 1,870.44 | 2,559.46 | 3,017.83 |
| 56 | 8 | 424.83 | 849.65 | 1,274.47 | 1,593.09 | 1,911.71 | 2,611.72 | 3,078.57 |
| 60 | 8 | 461.62 | 923.25 | 1,384.87 | 1,731.08 | 2,077.30 | 2,819.79 | 3,320.04 |
| 64 | 8 | 498.57 | 997.13 | 1,495.70 | 1,869.62 | 2,242.66 | 3,023.11 | 3,559.67 |
| 70 | 8 | 554.23 | 1,108.46 | 1,662.69 | 2,078.37 | 2,475.56 | 3,332.20 | 3,927.74 |
| 72 | 8 | 572.84 | 1,145.69 | 1,178.53 | 2,148.17 | 2,552.72 | 3,433.30 | 4,049.63 |
| 75 | 8 | 600.84 | 1,201.61 | 1,802.41 | 2,253.02 | 2,667.98 | 3,584.01 | 4,231.63 |
| 80 | 8 | 647.54 | 1,295.08 | 1,942.62 | 2,419.70 | 2,858.90 | 3,839.99 | 4,532.93 |
| 90 | 8 | 740.43 | 1,480.87 | 2,221.30 | 2,740.03 | 3,231.68 | 4,345.90 | 5,120.65 |
| 96 | 8 | 796.77 | 1,593.54 | 2,389.35 | 2,931.46 | 3,453.87 | 4,647.97 | 5,470.63 |
| 100 | 8 | 834.38 | 1,668.76 | 2,494.32 | 3,058.06 | 3,600.58 | 4,847.65 | 5,701.55 |
| 108 | 8 | 909.75 | 1,819.50 | 2,702.70 | 3,308.89 | 3,893.39 | 5,243.00 | 6,135.59 |
| 112 | 8 | 947.51 | 1,895.02 | 2,806.16 | 3,433.16 | 4,042.91 | 5,438.74 | 6,345.45 |
| 120 | 8 | 1,023.12 | 2,046.24 | 3,011.40 | 3,679.20 | 4,339.67 | 5,826.04 | 6,757.02 |

The above numerical values are equivalent to JGMA formulas as reference only.

치면강도 (kW)

Allowable transfer capability table (kW) Surface Durability

| 회전 속도 (min ⁻¹) revolution/min | | | | | | |
|--|----------|----------|----------|----------|----------|----------|
| 400 | 800 | 1,200 | 1,500 | 1,800 | 2,500 | 3,000 |
| 115.54 | 233.37 | 353.22 | 444.30 | 536.33 | 754.32 | 905.72 |
| 127.15 | 256.91 | 388.98 | 489.39 | 590.86 | 831.31 | 994.49 |
| 133.17 | 269.12 | 407.53 | 512.79 | 619.17 | 871.29 | 1,040.39 |
| 152.08 | 307.52 | 465.92 | 586.43 | 708.29 | 993.65 | 1,184.13 |
| 165.41 | 334.61 | 507.12 | 638.42 | 771.20 | 1,078.73 | 1,284.96 |
| 179.32 | 362.89 | 550.15 | 692.72 | 836.93 | 1,167.23 | 1,389.78 |
| 193.81 | 392.37 | 595.01 | 749.36 | 905.50 | 1,259.13 | 1,498.55 |
| 201.28 | 407.56 | 618.14 | 778.55 | 940.85 | 1,306.36 | 1,554.41 |
| 208.89 | 423.05 | 641.73 | 808.33 | 976.92 | 1,354.43 | 1,611.25 |
| 240.80 | 488.02 | 740.72 | 933.35 | 1,128.33 | 1,555.13 | 1,848.36 |
| 275.06 | 557.86 | 847.18 | 1,067.84 | 1,290.76 | 1,769.21 | 2,101.33 |
| 330.89 | 671.79 | 1,020.99 | 1,287.52 | 1,545.96 | 2,115.13 | 2,518.03 |
| 350.69 | 712.23 | 1,082.72 | 1,365.57 | 1,636.03 | 2,236.98 | 2,665.11 |
| 381.51 | 775.21 | 1,178.89 | 1,487.18 | 1,775.81 | 2,425.83 | 2,893.33 |
| 435.87 | 886.40 | 1,348.78 | 1,696.04 | 2,021.16 | 2,761.77 | 3,293.88 |
| 555.93 | 1,132.30 | 1,724.83 | 2,149.18 | 2,557.83 | 3,501.66 | 4,169.72 |
| 635.27 | 1,295.04 | 1,973.12 | 2,446.11 | 2,908.90 | 3,986.43 | 4,742.36 |
| 691.23 | 1,409.92 | 2,142.24 | 2,654.41 | 3,154.91 | 4,326.43 | 5,143.47 |
| 810.54 | 1,655.11 | 2,500.92 | 3,095.63 | 3,677.90 | 5,046.42 | 5,969.89 |
| 873.91 | 1,785.46 | 2,690.44 | 3,328.44 | 3,958.21 | 5,426.21 | 6,400.03 |
| 1,008.14 | 2,061.81 | 3,089.65 | 3,818.25 | 4,549.00 | 6,224.91 | 7,298.89 |

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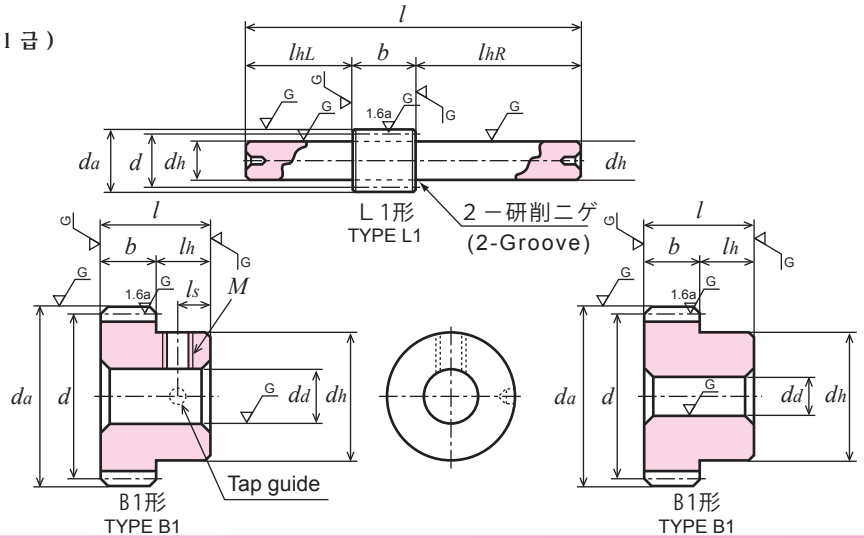
치연 평기어

GROUND SPUR GEARS

모듈
MODULE

0.8 압력각 20° (병치)
20° PRESSURE ANGLE FULL DEPTH TOOTH

치부 고주파 열처리 HRC49~55
신 JIS B 1702-1(ISO) 5 급 해당 (구 JIS B 1702 1 급)
Precision: JIS B1702 class 1 equivalent to ISO class 5



SCM435, 440 크롬 몰리브덴 강 (JIS G 4105)

Material : Chromium Molybdenum Steel (ISO 34CrMo4, 42CrMo4)

단위 : mm
Dimensions : mm

| 상 품 기 호 Catalogue Number | 잇 수 Number of Teeth z | 기준원 직경 Reference Diameter d | 치선원 직경 Outside Diameter d_a | 형 Type | 치 폭 Face Width b | 내 경 Bore Diameter $d_d(H7)$ | 허 브 외 경 Hub Diameter d_h | 허 브 길 이 Hub Projection l_h | 전 장 Overall Length l | 셋트 스크류 Set Screw | | 탭 가이드 Tap Guide d_r | 중 량 Weight $W(g)$ |
|-----------------------------|-------------------------------|-------------------------------------|-------------------------------------|-----------|--------------------------|-----------------------------------|----------------------------------|------------------------------------|------------------------------|---------------------|-------|-----------------------------|-------------------------|
| | | | | | | | | | | M | l_s | | |
| SG80S 15L-0806 | 15 | $\phi 12$ | $\phi 13.6$ | L1 | 8 | - | $\phi 6 (h7)$ | L22 R60 | 90 | - | - | - | 25.1 |
| SG80S 16L-0806 | 16 | $\phi 12.8$ | $\phi 14.4$ | L1 | 8 | - | $\phi 6 (h7)$ | L22 R60 | 90 | - | - | - | 26.1 |
| SG80S 18L-0808 | 18 | $\phi 14.4$ | $\phi 16$ | L1 | 8 | - | $\phi 8 (h7)$ | L22 R60 | 90 | - | - | - | 42.3 |
| SG80S 20L-0810 | 20 | $\phi 16$ | $\phi 17.6$ | L1 | 8 | - | $\phi 10 (h7)$ | L22 R60 | 90 | - | - | - | 62.7 |
| SG80S 22B-0806 | 22 | $\phi 17.6$ | $\phi 19.2$ | B1 | 8 | $\phi 6$ | $\phi 14$ | 10 | 18 | - | - | - | 23.2 |
| SG80S 24L-0810 | 24 | $\phi 19.2$ | $\phi 20.8$ | L1 | 8 | - | $\phi 10 (h7)$ | L22 R60 | 90 | - | - | - | 68.3 |
| SG80S 24B-0806 | 24 | $\phi 19.2$ | $\phi 20.8$ | B1 | 8 | $\phi 6$ | $\phi 16$ | 10 | 18 | - | - | - | 29.8 |
| SG80S 25L-0810 | 25 | $\phi 20$ | $\phi 21.6$ | L1 | 8 | - | $\phi 10 (h7)$ | L22 R60 | 90 | - | - | - | 69.8 |
| SG80S 25B-0806 | 25 | $\phi 20$ | $\phi 21.6$ | B1 | 8 | $\phi 6$ | $\phi 16$ | 10 | 18 | - | - | - | 31.3 |
| SG80S 28B-0808 | 28 | $\phi 22.4$ | $\phi 24$ | B1 | 8 | $\phi 8$ | $\phi 18$ | 10 | 18 | - | - | - | 37.4 |
| SG80S 30B-0810 | 30 | $\phi 24$ | $\phi 25.6$ | B1 | 8 | $\phi 10$ | $\phi 20$ | 10 | 18 | - | - | - | 41.7 |
| SG80S 30B+0810 | 30 | $\phi 24$ | $\phi 25.6$ | B1 | 8 | $\phi 10$ | $\phi 20$ | 10 | 18 | M4 | 5 | $\phi 3.3$ | 41.7 |
| SG80S 32B-0810 | 32 | $\phi 25.6$ | $\phi 27.2$ | B1 | 8 | $\phi 10$ | $\phi 20$ | 10 | 18 | - | - | - | 45.6 |
| SG80S 35B-0810 | 35 | $\phi 28$ | $\phi 29.6$ | B1 | 8 | $\phi 10$ | $\phi 20$ | 10 | 18 | - | - | - | 51.9 |
| SG80S 36B-0810 | 36 | $\phi 28.8$ | $\phi 30.4$ | B1 | 8 | $\phi 10$ | $\phi 20$ | 10 | 18 | - | - | - | 54.1 |

[+]: 셋트 스크류는 붙여 있지 않습니다 [+]: Gear with Thread hole / without Set Screw.

Gear tooth surface completed with induction harden, hardness HRC49 to 55.

허용전달 동력표 굽힘강도 (kW)

Allowable transfer capability table (kW) Bending Strength

| z | b | 회전 속도 (min ⁻¹) revolution/min | | | | | |
|-----|-----|--|------|-------|-------|-------|-------|
| | | 400 | 800 | 1,200 | 1,500 | 1,800 | 2,500 |
| 15 | 8 | 0.17 | 0.35 | 0.52 | 0.66 | 0.79 | 1.10 |
| 16 | 8 | 0.19 | 0.39 | 0.58 | 0.73 | 0.88 | 1.22 |
| 18 | 8 | 0.23 | 0.47 | 0.70 | 0.88 | 1.06 | 1.47 |
| 20 | 8 | 0.27 | 0.55 | 0.82 | 1.03 | 1.24 | 1.72 |
| 22 | 8 | 0.31 | 0.63 | 0.95 | 1.19 | 1.43 | 1.98 |
| 24 | 8 | 0.36 | 0.72 | 1.08 | 1.35 | 1.62 | 2.25 |
| 25 | 8 | 0.38 | 0.76 | 1.14 | 1.43 | 1.71 | 2.38 |
| 28 | 8 | 0.44 | 0.89 | 1.34 | 1.67 | 2.01 | 2.79 |
| 30 | 8 | 0.49 | 0.98 | 1.47 | 1.84 | 2.20 | 3.05 |
| 32 | 8 | 0.53 | 1.07 | 1.60 | 2.00 | 2.40 | 3.31 |
| 35 | 8 | 0.60 | 1.20 | 1.80 | 2.26 | 2.71 | 3.70 |
| 36 | 8 | 0.62 | 1.25 | 1.87 | 2.34 | 2.81 | 3.83 |

The above numerical values are equivalent to JGMA formulas as reference only.

치면강도 (kW)

Allowable transfer capability table (kW) Surface Durability

| 회전 속도 (min ⁻¹) revolution/min | | | | | | |
|--|-------|-------|-------|-------|-------|-------|
| 400 | 800 | 1,200 | 1,500 | 1,800 | 2,500 | 3,000 |
| 0.036 | 0.075 | 0.11 | 0.13 | 0.16 | 0.23 | 0.28 |
| 0.041 | 0.084 | 0.12 | 0.15 | 0.19 | 0.26 | 0.32 |
| 0.053 | 0.107 | 0.16 | 0.20 | 0.24 | 0.34 | 0.41 |
| 0.066 | 0.133 | 0.20 | 0.25 | 0.30 | 0.42 | 0.51 |
| 0.080 | 0.162 | 0.24 | 0.30 | 0.37 | 0.52 | 0.63 |
| 0.096 | 0.193 | 0.29 | 0.36 | 0.44 | 0.62 | 0.75 |
| 0.104 | 0.211 | 0.31 | 0.40 | 0.48 | 0.68 | 0.82 |
| 0.131 | 0.266 | 0.40 | 0.50 | 0.61 | 0.86 | 1.03 |
| 0.15 | 0.30 | 0.46 | 0.58 | 0.70 | 0.99 | 1.18 |
| 0.17 | 0.35 | 0.53 | 0.67 | 0.81 | 1.13 | 1.34 |
| 0.20 | 0.42 | 0.64 | 0.80 | 0.97 | 1.35 | 1.61 |
| 0.22 | 0.44 | 0.68 | 0.85 | 1.03 | 1.43 | 1.70 |

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| 상 품 기 호 Catalogue Number | 잇 수 Number of Teeth z | 기준원 직경 Pitch Diameter d | 치선원 직경 Outside Diameter d_a | 형 Type | 치 폭 Face Width b | 내 경 Bore Diameter $d_d(H7)$ | 허 브 외 경 Hub Diameter d_h | 허 브 길 이 Hub Projection l_h | 전 장 Overall Length l_w | 셋트 스크류 Set Screw | | 탭 가이드 Tap Guide d_r | 중 량 Weight $W(g)$ |
|-----------------------------|-------------------------------|---------------------------------|-------------------------------------|-----------|--------------------------|-----------------------------------|----------------------------------|------------------------------------|--------------------------------|---------------------|-------|-----------------------------|-------------------------|
| | | | | | | | | | | M | l_s | | |
| SG80S 40B-0810 | 40 | $\phi 32$ | $\phi 33.6$ | B1 | 8 | $\phi 10$ | $\phi 25$ | 10 | 18 | - | - | - | 77.4 |
| SG80S 40B +0812 | 40 | $\phi 32$ | $\phi 33.6$ | B1 | 8 | $\phi 12$ | $\phi 25$ | 10 | 18 | M5 | 5 | $\phi 4.2$ | 72.6 |
| SG80S 45B-0810 | 45 | $\phi 36$ | $\phi 37.6$ | B1 | 8 | $\phi 10$ | $\phi 25$ | 10 | 18 | - | - | - | 90.8 |
| SG80S 48B -0810 | 48 | $\phi 38.4$ | $\phi 40$ | B1 | 8 | $\phi 10$ | $\phi 25$ | 10 | 18 | - | - | - | 99.5 |
| SG80S 50B -0810 | 50 | $\phi 40$ | $\phi 41.6$ | B1 | 8 | $\phi 10$ | $\phi 25$ | 10 | 18 | - | - | - | 105.6 |
| SG80S 50B +0812 | 50 | $\phi 40$ | $\phi 41.6$ | B1 | 8 | $\phi 12$ | $\phi 25$ | 10 | 18 | M5 | 5 | $\phi 4.2$ | 100.8 |
| SG80S 54B -0810 | 54 | $\phi 43.2$ | $\phi 44.8$ | B1 | 8 | $\phi 10$ | $\phi 25$ | 10 | 18 | - | - | - | 118.7 |
| SG80S 55B -0810 | 55 | $\phi 44$ | $\phi 45.6$ | B1 | 8 | $\phi 10$ | $\phi 25$ | 10 | 18 | - | - | - | 122.1 |
| SG80S 56B-0810 | 56 | $\phi 44.8$ | $\phi 46.4$ | B1 | 8 | $\phi 10$ | $\phi 25$ | 10 | 18 | - | - | - | 125.6 |
| SG80S 60B-0810 | 60 | $\phi 48$ | $\phi 49.6$ | B1 | 8 | $\phi 10$ | $\phi 25$ | 10 | 18 | - | - | - | 140.1 |
| SG80S 60B +0812 | 60 | $\phi 48$ | $\phi 49.6$ | B1 | 8 | $\phi 12$ | $\phi 25$ | 10 | 18 | M5 | 5 | $\phi 4.2$ | 135.3 |
| SG80S 64B -0812 | 64 | $\phi 51.2$ | $\phi 52.8$ | B1 | 8 | $\phi 12$ | $\phi 30$ | 10 | 18 | - | - | - | 167.6 |
| SG80S 70B -0812 | 70 | $\phi 56$ | $\phi 57.6$ | B1 | 8 | $\phi 12$ | $\phi 30$ | 10 | 18 | - | - | - | 192.9 |
| SG80S 72B -0812 | 72 | $\phi 57.6$ | $\phi 59.2$ | B1 | 8 | $\phi 12$ | $\phi 30$ | 10 | 18 | - | - | - | 201.9 |
| SG80S 75B -0812 | 75 | $\phi 60$ | $\phi 61.6$ | B1 | 8 | $\phi 12$ | $\phi 30$ | 10 | 18 | - | - | - | 215.7 |
| SG80S 80B -0812 | 80 | $\phi 64$ | $\phi 65.6$ | B1 | 8 | $\phi 12$ | $\phi 30$ | 10 | 18 | - | - | - | 240.0 |
| SG80S 80B +0815 | 80 | $\phi 64$ | $\phi 65.6$ | B1 | 8 | $\phi 15$ | $\phi 30$ | 10 | 18 | M6 | 5 | $\phi 5$ | 231.1 |
| SG80S 90B -0812 | 90 | $\phi 72$ | $\phi 73.6$ | B1 | 8 | $\phi 12$ | $\phi 35$ | 10 | 18 | - | - | - | 313.2 |
| SG80S 96B -0812 | 96 | $\phi 76.8$ | $\phi 78.4$ | B1 | 8 | $\phi 12$ | $\phi 35$ | 10 | 18 | - | - | - | 348.2 |
| SG80S 100B-0812 | 100 | $\phi 80$ | $\phi 81.6$ | B1 | 8 | $\phi 12$ | $\phi 35$ | 10 | 18 | - | - | - | 372.8 |
| SG80S 100B+0820 | 100 | $\phi 80$ | $\phi 81.6$ | B1 | 8 | $\phi 20$ | $\phi 35$ | 10 | 18 | M6 | 5 | $\phi 5$ | 367.6 |
| SG80S 108B-0812 | 108 | $\phi 86.4$ | $\phi 88$ | B1 | 8 | $\phi 12$ | $\phi 40$ | 10 | 18 | - | - | - | 448.0 |
| SG80S 112B-0812 | 112 | $\phi 89.6$ | $\phi 91.2$ | B1 | 8 | $\phi 12$ | $\phi 40$ | 10 | 18 | - | - | - | 475.6 |
| SG80S 120B-0812 | 120 | $\phi 96$ | $\phi 97.6$ | B1 | 8 | $\phi 12$ | $\phi 40$ | 10 | 18 | - | - | - | 533.8 |
| SG80S 120B+0820 | 120 | $\phi 96$ | $\phi 97.6$ | B1 | 8 | $\phi 20$ | $\phi 40$ | 10 | 18 | M6 | 5 | $\phi 5$ | 505.6 |

[+] 셋트 스크류는 붙어있지 않습니다 . [-]: Gear with Thread hole / without Set Screw.
Gear tooth surface completed with induction harden, hardness HRC49 to 55.

허용전달 동력표 굽힘강도 (kW)

Allowable transfer capability table (kW) Bending Strength

| z | b | 회전 속도 (min^{-1}) revolution/min | | | | | | |
|-----|-----|---|------|-------|-------|-------|-------|-------|
| | | 400 | 800 | 1,200 | 1,500 | 1,800 | 2,500 | 3,000 |
| 40 | 8 | 0.71 | 1.43 | 2.14 | 2.68 | 3.21 | 4.34 | 5.10 |
| 45 | 8 | 0.82 | 1.65 | 2.48 | 3.11 | 3.69 | 4.97 | 5.86 |
| 48 | 8 | 0.90 | 1.80 | 2.70 | 3.37 | 3.99 | 5.35 | 6.32 |
| 50 | 8 | 0.94 | 1.89 | 2.84 | 3.53 | 4.18 | 5.61 | 6.63 |
| 54 | 8 | 1.04 | 2.08 | 3.12 | 3.86 | 4.56 | 6.13 | 7.22 |
| 55 | 8 | 1.06 | 2.12 | 3.19 | 3.94 | 4.65 | 6.25 | 7.37 |
| 56 | 8 | 1.08 | 2.17 | 3.29 | 4.02 | 4.74 | 6.38 | 7.52 |
| 60 | 8 | 1.18 | 2.36 | 3.54 | 4.34 | 5.12 | 6.89 | 8.11 |
| 64 | 8 | 1.27 | 2.55 | 3.80 | 4.66 | 5.49 | 7.39 | 8.69 |
| 70 | 8 | 1.42 | 2.84 | 4.20 | 5.14 | 6.05 | 8.14 | 9.50 |
| 72 | 8 | 1.47 | 2.93 | 4.33 | 5.30 | 6.24 | 8.39 | 9.77 |
| 75 | 8 | 1.54 | 3.08 | 4.53 | 5.53 | 6.52 | 8.76 | 10.16 |
| 80 | 8 | 1.66 | 3.32 | 4.85 | 5.92 | 6.99 | 9.34 | 10.80 |
| 90 | 8 | 1.90 | 3.79 | 5.48 | 6.70 | 7.90 | 10.43 | 12.02 |
| 96 | 8 | 2.04 | 4.06 | 5.85 | 7.17 | 8.44 | 11.07 | 12.74 |
| 100 | 8 | 2.14 | 4.23 | 6.10 | 7.48 | 8.80 | 11.49 | 13.25 |
| 108 | 8 | 2.33 | 4.59 | 6.61 | 8.09 | 9.50 | 12.31 | 14.25 |
| 112 | 8 | 2.43 | 4.76 | 6.86 | 8.39 | 9.82 | 12.71 | 14.74 |
| 120 | 8 | 2.62 | 5.11 | 7.36 | 8.99 | 10.47 | 13.54 | 15.70 |

The above numerical values are equivalent to JGMA formulas as reference only.

치면강도 (kW)

Allowable transfer capability table (kW) Surface Durability

| 회전 속도 (min^{-1}) revolution/min | | | | | | |
|---|------|-------|-------|-------|-------|-------|
| 400 | 800 | 1,200 | 1,500 | 1,800 | 2,500 | 3,000 |
| 0.27 | 0.55 | 0.84 | 1.06 | 1.29 | 1.76 | 2.10 |
| 0.35 | 0.71 | 1.08 | 1.36 | 1.63 | 2.23 | 2.66 |
| 0.40 | 0.81 | 1.23 | 1.56 | 1.86 | 2.54 | 3.03 |
| 0.43 | 0.88 | 1.34 | 1.69 | 2.02 | 2.76 | 3.29 |
| 0.51 | 1.04 | 1.58 | 1.98 | 2.35 | 3.22 | 3.84 |
| 0.53 | 1.08 | 1.64 | 2.05 | 2.44 | 3.34 | 3.98 |
| 0.55 | 1.12 | 1.70 | 2.13 | 2.53 | 3.47 | 4.13 |
| 0.63 | 1.29 | 1.97 | 2.44 | 2.90 | 3.98 | 4.74 |
| 0.72 | 1.48 | 2.24 | 2.78 | 3.30 | 4.53 | 5.38 |
| 0.87 | 1.79 | 2.69 | 3.33 | 3.96 | 5.43 | 6.40 |
| 0.93 | 1.89 | 2.85 | 3.52 | 4.19 | 5.74 | 6.75 |
| 1.01 | 2.06 | 3.09 | 3.82 | 4.55 | 6.22 | 7.30 |
| 1.15 | 2.36 | 3.52 | 4.34 | 5.18 | 7.06 | 8.25 |
| 1.47 | 3.02 | 4.45 | 5.51 | 6.56 | 8.83 | 10.29 |
| 1.68 | 3.43 | 5.06 | 6.27 | 7.46 | 9.98 | 11.61 |
| 1.83 | 3.73 | 5.48 | 6.80 | 8.09 | 10.78 | 12.56 |
| 2.15 | 4.35 | 6.40 | 7.94 | 9.42 | 12.45 | 14.57 |
| 2.32 | 4.68 | 6.89 | 8.54 | 10.10 | 13.33 | 15.62 |
| 2.68 | 5.37 | 7.92 | 9.80 | 11.53 | 15.20 | 17.82 |

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치연 평기어

GROUND SPUR GEARS

모듈
MODULE

1

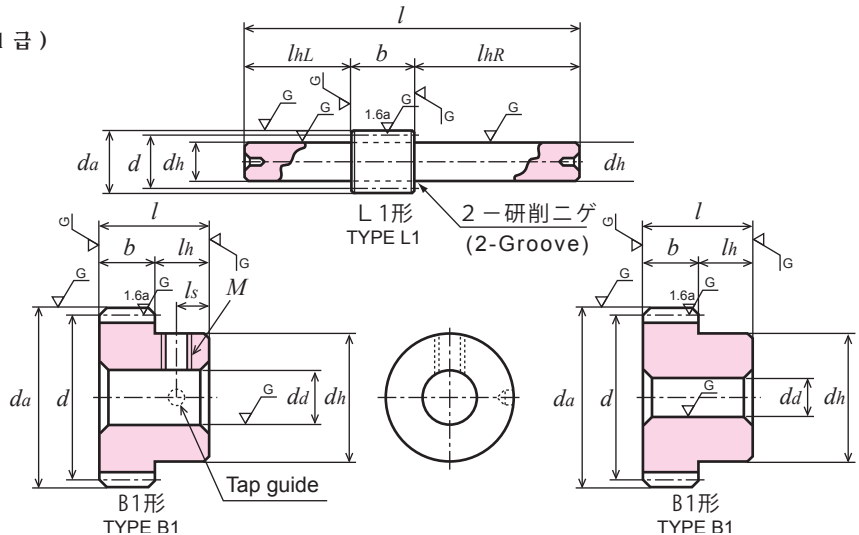
압력각 20° (병치)

20° PRESSURE ANGLE FULL DEPTH TOOTH

치부 고주파 열처리 HRC49~55

신 JIS B 1702-1(ISO) 5급 해당 (구 JIS B 1702 1급)

Precision: JIS B1702 class 1 equivalent to ISO class 5



SCM435, 440 크롬 몰리브덴 강 (JIS G 4105)

Material : Chromium Molybdenum Steel (ISO 34CrMo4, 42CrMo4)

단위 : mm
Dimensions : mm

| 상 품 기 호 Catalogue Number | 잇 수 Number of Teeth z | 기준원 직경 Reference Diameter d | 치선원 직경 Outside Diameter d_a | 형 Type | 치 폭 Face Width b | 내 경 Bore Diameter $d_d(H7)$ | 허 브 외 경 Hub Diameter d_h | 허 브 길 이 Hub Projection l_h | 전 장 Overall Length l | 셋트 스크류 Set Screw | | 탭 가이드 Tap Guide d_r | 중 량 Weight $W(g)$ |
|-----------------------------|-------------------------------|-------------------------------------|-------------------------------------|-----------|--------------------------|-----------------------------------|----------------------------------|------------------------------------|------------------------------|---------------------|-------|-----------------------------|-------------------------|
| | | | | | | | | | | M | l_s | | |
| SG1S 14L-1008 | 14 | $\phi 14$ | $\phi 16$ | L1 | 10 | - | $\phi 8$ (h7) | L25 R60 | 95 | - | - | - | 45.3 |
| SG1S 15L-1010 | 15 | $\phi 15$ | $\phi 17$ | L1 | 10 | - | $\phi 10$ (h7) | L25 R60 | 95 | - | - | - | 65.9 |
| SG1S 16L-1010 | 16 | $\phi 16$ | $\phi 18$ | L1 | 10 | - | $\phi 10$ (h7) | L25 R60 | 95 | - | - | - | 67.8 |
| SG1S 17B-1006 | 17 | $\phi 17$ | $\phi 19$ | B1 | 10 | $\phi 6$ | $\phi 12$ | 10 | 20 | - | - | - | 22.1 |
| SG1S 18L-1010 | 18 | $\phi 18$ | $\phi 20$ | L1 | 10 | - | $\phi 10$ (h7) | L25 R60 | 95 | - | - | - | 71.9 |
| SG1S 18B-1008 | 18 | $\phi 18$ | $\phi 20$ | B1 | 10 | $\phi 8$ | $\phi 15$ | 10 | 20 | - | - | - | 25.8 |
| SG1S 20B-1008 | 20 | $\phi 20$ | $\phi 22$ | B1 | 10 | $\phi 8$ | $\phi 16$ | 10 | 20 | - | - | - | 32.3 |
| SG1S 20B+1008 | 20 | $\phi 20$ | $\phi 22$ | B1 | 10 | $\phi 8$ | $\phi 16$ | 10 | 20 | M4 | 5 | $\phi 3.3$ | 32.3 |
| SG1S 20B+1010 | 20 | $\phi 20$ | $\phi 22$ | B1 | 10 | $\phi 10$ | $\phi 16$ | 10 | 20 | M4 | 5 | $\phi 3.3$ | 27.9 |
| SG1S 21B-1008 | 21 | $\phi 21$ | $\phi 23$ | B1 | 10 | $\phi 8$ | $\phi 16$ | 10 | 20 | - | - | - | 34.9 |
| SG1S 22B-1008 | 22 | $\phi 22$ | $\phi 24$ | B1 | 10 | $\phi 8$ | $\phi 18$ | 10 | 20 | - | - | - | 41.7 |
| SG1S 23B-1008 | 23 | $\phi 23$ | $\phi 25$ | B1 | 10 | $\phi 8$ | $\phi 18$ | 10 | 20 | - | - | - | 44.4 |
| SG1S 24B-1008 | 24 | $\phi 24$ | $\phi 26$ | B1 | 10 | $\phi 8$ | $\phi 20$ | 10 | 20 | - | - | - | 51.9 |
| SG1S 24B+1008 | 24 | $\phi 24$ | $\phi 26$ | B1 | 10 | $\phi 8$ | $\phi 20$ | 10 | 20 | M4 | 5 | $\phi 3.3$ | 51.9 |
| SG1S 24B+1010 | 24 | $\phi 24$ | $\phi 26$ | B1 | 10 | $\phi 10$ | $\phi 20$ | 10 | 20 | M4 | 5 | $\phi 3.3$ | 47.5 |

[+]: 셋트 스크류는 붙어 있지 않습니다 [-]: Gear with Thread hole / without Set Screw.

Gear tooth surface completed with induction harden, hardness HRC49 to 55.

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허용전달 동력표 굽힘강도 (kW)

Allowable transfer capability table (kW) Bending Strength

| z | b | 회전 속도 (min ⁻¹) revolution/min | | | | | | |
|-----|-----|--|------|-------|-------|-------|-------|-------|
| | | 400 | 800 | 1,200 | 1,500 | 1,800 | 2,500 | 3,000 |
| 14 | 10 | 0.30 | 0.61 | 0.92 | 1.15 | 1.38 | 1.92 | 2.30 |
| 15 | 10 | 0.34 | 0.68 | 1.03 | 1.29 | 1.55 | 2.15 | 2.58 |
| 16 | 10 | 0.38 | 0.76 | 1.14 | 1.43 | 1.72 | 2.39 | 2.87 |
| 17 | 10 | 0.42 | 0.84 | 1.26 | 1.57 | 1.89 | 2.63 | 3.15 |
| 18 | 10 | 0.46 | 0.92 | 1.38 | 1.72 | 2.07 | 2.87 | 3.45 |
| 20 | 10 | 0.54 | 1.08 | 1.62 | 2.02 | 2.43 | 3.37 | 4.03 |
| 21 | 10 | 0.58 | 1.16 | 1.74 | 2.17 | 2.61 | 3.62 | 4.32 |
| 22 | 10 | 0.62 | 1.24 | 1.86 | 2.33 | 2.79 | 3.88 | 4.60 |
| 23 | 10 | 0.66 | 1.32 | 1.98 | 2.48 | 2.98 | 4.14 | 4.89 |
| 24 | 10 | 0.70 | 1.40 | 2.11 | 2.64 | 3.16 | 4.38 | 5.18 |

The above numerical values are equivalent to JGMA formulas as reference only.

치면강도 (kW)

Allowable transfer capability table (kW) Surface Durability

| 회전 속도 (min ⁻¹) revolution/min | | | | | | | |
|--|------|-------|-------|-------|-------|-------|--|
| 400 | 800 | 1,200 | 1,500 | 1,800 | 2,500 | 3,000 | |
| 0.062 | 0.12 | 0.19 | 0.23 | 0.28 | 0.40 | 0.48 | |
| 0.072 | 0.14 | 0.22 | 0.27 | 0.33 | 0.46 | 0.56 | |
| 0.082 | 0.16 | 0.25 | 0.31 | 0.38 | 0.53 | 0.64 | |
| 0.093 | 0.18 | 0.28 | 0.35 | 0.43 | 0.60 | 0.73 | |
| 0.105 | 0.21 | 0.32 | 0.40 | 0.48 | 0.68 | 0.82 | |
| 0.130 | 0.26 | 0.39 | 0.50 | 0.60 | 0.85 | 1.02 | |
| 0.144 | 0.29 | 0.44 | 0.55 | 0.67 | 0.94 | 1.13 | |
| 0.158 | 0.32 | 0.48 | 0.61 | 0.73 | 1.03 | 1.24 | |
| 0.174 | 0.35 | 0.53 | 0.67 | 0.81 | 1.14 | 1.35 | |
| 0.190 | 0.38 | 0.58 | 0.73 | 0.88 | 1.24 | 1.48 | |

| 상 품 기 호 Catalogue Number | 잇 수 | 기준원 직경 | 치선원 직경 | 형 Type | 치 폭 | 내 경 | 허 브 외 경 | 허 브 길 이 | 전 장 | 셋트 스크류 | | 탭 가이드 | 중 량 | | | |
|-----------------------------|-----------------|--------------------|------------------|-----------|------------|---------------|--------------|----------------|-----|----------------|-----------|------------|-------|-----------|--------|--------|
| | Number of Teeth | Reference Diameter | Outside Diameter | | Face Width | Bore Diameter | Hub Diameter | Hub Projection | | Overall Length | Set Screw | | | Tap Guide | Weight | |
| | z | d | d_a | | b | $d_d(H7)$ | d_h | l_h | | l | M | | | l_s | d_r | $W(g)$ |
| SG1S 25B-1008 | 25 | $\phi 25$ | $\phi 27$ | B1 | 10 | $\phi 8$ | $\phi 20$ | 10 | 20 | - | - | - | 55.0 | | | |
| SG1S 26B-1008 | 26 | $\phi 26$ | $\phi 28$ | B1 | 10 | $\phi 8$ | $\phi 20$ | 10 | 20 | - | - | - | 58.1 | | | |
| SG1S 27B-1008 | 27 | $\phi 27$ | $\phi 29$ | B1 | 10 | $\phi 8$ | $\phi 20$ | 10 | 20 | - | - | - | 61.3 | | | |
| SG1S 28B-1008 | 28 | $\phi 28$ | $\phi 30$ | B1 | 10 | $\phi 8$ | $\phi 20$ | 10 | 20 | - | - | - | 64.7 | | | |
| SG1S 30B-1010 | 30 | $\phi 30$ | $\phi 32$ | B1 | 10 | $\phi 10$ | $\phi 26$ | 10 | 20 | - | - | - | 84.3 | | | |
| SG1S 30B+1010 | 30 | $\phi 30$ | $\phi 32$ | B1 | 10 | $\phi 10$ | $\phi 26$ | 10 | 20 | M4 | 5 | $\phi 3.3$ | 84.3 | | | |
| SG1S 30B+1012 | 30 | $\phi 30$ | $\phi 32$ | B1 | 10 | $\phi 12$ | $\phi 26$ | 10 | 20 | M4 | 5 | $\phi 3.3$ | 78.9 | | | |
| SG1S 32B-1010 | 32 | $\phi 32$ | $\phi 34$ | B1 | 10 | $\phi 10$ | $\phi 26$ | 10 | 20 | - | - | - | 91.9 | | | |
| SG1S 34B-1010 | 34 | $\phi 34$ | $\phi 36$ | B1 | 10 | $\phi 10$ | $\phi 26$ | 10 | 20 | - | - | - | 100.0 | | | |
| SG1S 35B-1010 | 35 | $\phi 35$ | $\phi 37$ | B1 | 10 | $\phi 10$ | $\phi 26$ | 10 | 20 | - | - | - | 104.2 | | | |
| SG1S 36B-1010 | 36 | $\phi 36$ | $\phi 38$ | B1 | 10 | $\phi 10$ | $\phi 26$ | 10 | 20 | - | - | - | 108.6 | | | |
| SG1S 38B-1010 | 38 | $\phi 38$ | $\phi 40$ | B1 | 10 | $\phi 10$ | $\phi 26$ | 10 | 20 | - | - | - | 117.6 | | | |
| SG1S 40B-1010 | 40 | $\phi 40$ | $\phi 42$ | B1 | 10 | $\phi 10$ | $\phi 26$ | 10 | 20 | - | - | - | 127.1 | | | |
| SG1S 40B-1012 | 40 | $\phi 40$ | $\phi 42$ | B1 | 10 | $\phi 12$ | $\phi 26$ | 10 | 20 | - | - | - | 121.7 | | | |
| SG1S 40B-1015 | 40 | $\phi 40$ | $\phi 42$ | B1 | 10 | $\phi 15$ | $\phi 26$ | 10 | 20 | - | - | - | 111.8 | | | |
| SG1S 42B-1010 | 42 | $\phi 42$ | $\phi 44$ | B1 | 10 | $\phi 10$ | $\phi 35$ | 10 | 20 | - | - | - | 170.9 | | | |
| SG1S 44B-1010 | 44 | $\phi 44$ | $\phi 46$ | B1 | 10 | $\phi 10$ | $\phi 35$ | 10 | 20 | - | - | - | 181.4 | | | |
| SG1S 45B-1012 | 45 | $\phi 45$ | $\phi 47$ | B1 | 10 | $\phi 12$ | $\phi 35$ | 10 | 20 | - | - | - | 181.5 | | | |
| SG1S 48B-1012 | 48 | $\phi 48$ | $\phi 50$ | B1 | 10 | $\phi 12$ | $\phi 35$ | 10 | 20 | - | - | - | 198.5 | | | |
| SG1S 50B-1012 | 50 | $\phi 50$ | $\phi 52$ | B1 | 10 | $\phi 12$ | $\phi 35$ | 10 | 20 | - | - | - | 210.6 | | | |
| SG1S 50B-1015 | 50 | $\phi 50$ | $\phi 52$ | B1 | 10 | $\phi 15$ | $\phi 35$ | 10 | 20 | - | - | - | 200.6 | | | |
| SG1S 50B-1016 | 50 | $\phi 50$ | $\phi 52$ | B1 | 10 | $\phi 16$ | $\phi 35$ | 10 | 20 | - | - | - | 196.8 | | | |

[+]: 셋트 스크류는 붙여 있지 않습니다 [+]: Gear with Thread hole / without Set Screw.
Gear tooth surface completed with induction harden, hardness HRC49 to 55.

허용전달 동력표 굽힘강도 (kW)

Allowable transfer capability table (kW) Bending Strength

| z | b | 회전 속도 (min ⁻¹) revolution/min | | | | | | |
|-----|-----|--|------|-------|-------|-------|-------|-------|
| | | 400 | 800 | 1,200 | 1,500 | 1,800 | 2,500 | 3,000 |
| 25 | 10 | 0.74 | 1.49 | 2.23 | 2.79 | 3.35 | 4.63 | 5.46 |
| 26 | 10 | 0.78 | 1.57 | 2.36 | 2.95 | 3.54 | 4.87 | 5.75 |
| 27 | 10 | 0.83 | 1.66 | 2.49 | 3.11 | 3.73 | 5.12 | 6.04 |
| 28 | 10 | 0.87 | 1.74 | 2.62 | 3.27 | 3.93 | 5.37 | 6.33 |
| 30 | 10 | 0.95 | 1.91 | 2.87 | 3.59 | 4.31 | 5.85 | 6.89 |
| 32 | 10 | 1.04 | 2.09 | 3.13 | 3.92 | 4.70 | 6.34 | 7.46 |
| 34 | 10 | 1.13 | 2.26 | 3.40 | 4.25 | 5.07 | 6.83 | 8.05 |
| 35 | 10 | 1.17 | 2.35 | 3.53 | 4.41 | 5.25 | 7.07 | 8.34 |
| 36 | 10 | 1.22 | 2.44 | 3.66 | 4.58 | 5.44 | 7.32 | 8.63 |
| 38 | 10 | 1.31 | 2.62 | 3.93 | 4.93 | 5.81 | 7.80 | 9.21 |
| 40 | 10 | 1.40 | 2.88 | 4.20 | 5.23 | 6.18 | 8.30 | 9.80 |
| 42 | 10 | 1.49 | 2.98 | 4.47 | 5.54 | 6.54 | 8.79 | 10.37 |
| 44 | 10 | 1.58 | 3.16 | 4.73 | 5.85 | 6.90 | 9.28 | 10.94 |
| 45 | 10 | 1.62 | 3.25 | 4.87 | 6.01 | 7.08 | 9.53 | 11.23 |
| 48 | 10 | 1.76 | 3.52 | 5.27 | 6.47 | 7.62 | 10.26 | 12.08 |
| 50 | 10 | 1.85 | 3.70 | 5.53 | 6.78 | 7.98 | 10.75 | 12.64 |

The above numerical values are equivalent to JGMA formulas as reference only.

치면강도 (kW)

Allowable transfer capability table (kW) Surface Durability

| 회전 속도 (min ⁻¹) revolution/min | | | | | | |
|--|------|-------|-------|-------|-------|-------|
| 400 | 800 | 1,200 | 1,500 | 1,800 | 2,500 | 3,000 |
| 0.20 | 0.41 | 0.63 | 0.79 | 0.96 | 1.34 | 1.60 |
| 0.22 | 0.45 | 0.68 | 0.86 | 1.04 | 1.45 | 1.73 |
| 0.24 | 0.49 | 0.74 | 0.93 | 1.13 | 1.57 | 1.87 |
| 0.26 | 0.52 | 0.80 | 1.01 | 1.22 | 1.69 | 2.01 |
| 0.30 | 0.61 | 0.92 | 1.16 | 1.41 | 1.94 | 2.31 |
| 0.34 | 0.69 | 1.05 | 1.33 | 1.61 | 2.21 | 2.62 |
| 0.38 | 0.79 | 1.20 | 1.51 | 1.82 | 2.49 | 2.96 |
| 0.41 | 0.83 | 1.27 | 1.60 | 1.93 | 2.64 | 3.14 |
| 0.43 | 0.89 | 1.35 | 1.70 | 2.04 | 2.79 | 3.33 |
| 0.49 | 0.99 | 1.51 | 1.91 | 2.27 | 3.11 | 3.71 |
| 0.54 | 1.11 | 1.69 | 2.12 | 2.53 | 3.45 | 4.12 |
| 0.60 | 1.23 | 1.87 | 2.34 | 2.79 | 3.81 | 4.54 |
| 0.66 | 1.35 | 2.06 | 2.57 | 3.06 | 4.18 | 4.98 |
| 0.69 | 1.42 | 2.16 | 2.69 | 3.20 | 4.38 | 5.21 |
| 0.79 | 1.62 | 2.47 | 3.06 | 3.64 | 4.98 | 5.93 |
| 0.86 | 1.76 | 2.68 | 3.32 | 3.94 | 5.41 | 6.43 |

KG GEAR 한국대리점 삼성기공 053) 351-4700

치연 평기어

GROUND SPUR GEARS

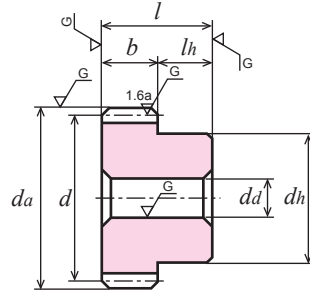
모듈
MODULE

1

압력각 20° (병치)
20° PRESSURE ANGLE FULL DEPTH TOOTH

치부 고주파 열처리 HRC49~55
신 JIS B 1702-1(ISO) 5 급 해당 (구 JIS B 1702 1 급)
Precision: JIS B1702 class 1 equivalent to ISO class 5

주문시에는 반드시 모델번호 전체를 표기바랍니다
Please refer to the catalogue reference while ordering.



B1形
TYPE B1

SCM435, 440 크롬 몰리브덴 강 (JIS G 4105)

Material : Chromium Molybdenum Steel (ISO 34CrMo4, 42CrMo4)

단위 : mm
Dimensions : mm

| 상 품 기 호 Catalogue Number | 잇 수 Number of Teeth z | 기준원 직경 Reference Diameter d | 치선원 직경 Outside Diameter d_a | 형 Type | 치 폭 Face Width b | 내 경 Bore Diameter $d_d(H7)$ | 허 브 외 경 Hub Diameter d_h | 허 브 길 이 Hub Projection l_h | 전 장 Overall Length l | 셋트 스크류 Set Screw | | 탭 가이드 Tap Guide d_r | 중 량 Weight $W(g)$ |
|-----------------------------|-------------------------------|-------------------------------------|-------------------------------------|-----------|--------------------------|-----------------------------------|----------------------------------|------------------------------------|------------------------------|---------------------|-------|-----------------------------|-------------------------|
| | | | | | | | | | | M | l_s | | |
| SG1S 52B-1012 | 52 | φ52 | φ54 | B1 | 10 | φ12 | φ35 | 10 | 20 | - | - | - | 228.4 |
| SG1S 54B-1012 | 54 | φ54 | φ56 | B1 | 10 | φ12 | φ35 | 10 | 20 | - | - | - | 236.0 |
| SG1S 55B-1012 | 55 | φ55 | φ57 | B1 | 10 | φ12 | φ35 | 10 | 20 | - | - | - | 248.1 |
| SG1S 56B-1012 | 56 | φ56 | φ58 | B1 | 10 | φ12 | φ35 | 10 | 20 | - | - | - | 249.5 |
| SG1S 60B-1012 | 60 | φ60 | φ62 | B1 | 10 | φ12 | φ40 | 10 | 20 | - | - | - | 300.9 |
| SG1S 60B-1015 | 60 | φ60 | φ62 | B1 | 10 | φ15 | φ40 | 10 | 20 | - | - | - | 291.0 |
| SG1S 60B-1018 | 60 | φ60 | φ62 | B1 | 10 | φ18 | φ40 | 10 | 20 | - | - | - | 278.9 |
| SG1S 64B-1012 | 64 | φ64 | φ66 | B1 | 10 | φ12 | φ40 | 10 | 20 | - | - | - | 331.3 |
| SG1S 70B-1012 | 70 | φ70 | φ72 | B1 | 10 | φ12 | φ40 | 10 | 20 | - | - | - | 380.6 |
| SG1S 72B-1012 | 72 | φ72 | φ74 | B1 | 10 | φ12 | φ45 | 10 | 20 | - | - | - | 424.0 |
| SG1S 75B-1012 | 75 | φ75 | φ77 | B1 | 10 | φ12 | φ45 | 10 | 20 | - | - | - | 451.0 |
| SG1S 80B-1012 | 80 | φ80 | φ82 | B1 | 10 | φ12 | φ45 | 10 | 20 | - | - | - | 498.5 |
| SG1S 80B-1015 | 80 | φ80 | φ82 | B1 | 10 | φ15 | φ45 | 10 | 20 | - | - | - | 488.6 |
| SG1S 80B-1020 | 80 | φ80 | φ82 | B1 | 10 | φ20 | φ45 | 10 | 20 | - | - | - | 467.1 |

Gear tooth surface completed with induction harden, hardness HRC49 to 55.

허용전달 동력표 굽힘강도 (kW)

Allowable transfer capability table (kW) Bending Strength

| z | b | 회전 속도 (min ⁻¹) revolution/min | | | | | | |
|-----|-----|--|------|-------|-------|-------|-------|-------|
| | | 400 | 800 | 1,200 | 1,500 | 1,800 | 2,500 | 3,000 |
| 52 | 10 | 1.94 | 3.88 | 5.78 | 7.09 | 8.34 | 11.23 | 13.18 |
| 54 | 10 | 2.03 | 4.06 | 6.04 | 7.39 | 8.70 | 11.71 | 13.71 |
| 55 | 10 | 2.08 | 4.16 | 6.16 | 7.54 | 8.88 | 11.95 | 13.97 |
| 56 | 10 | 2.12 | 4.25 | 6.29 | 7.70 | 9.06 | 12.19 | 14.23 |
| 60 | 10 | 2.31 | 4.62 | 6.79 | 8.30 | 9.79 | 13.14 | 15.24 |
| 64 | 10 | 2.49 | 4.99 | 7.29 | 8.90 | 10.51 | 14.04 | 16.24 |
| 70 | 10 | 2.77 | 5.54 | 8.03 | 9.82 | 11.58 | 15.34 | 17.69 |
| 72 | 10 | 2.86 | 5.73 | 8.28 | 10.12 | 11.94 | 15.76 | 18.16 |
| 75 | 10 | 3.00 | 5.99 | 8.64 | 10.58 | 12.47 | 16.39 | 18.86 |
| 80 | 10 | 3.24 | 6.42 | 9.25 | 11.33 | 13.34 | 17.42 | 20.08 |

The above numerical values are equivalent to JGMA formulas as reference only.

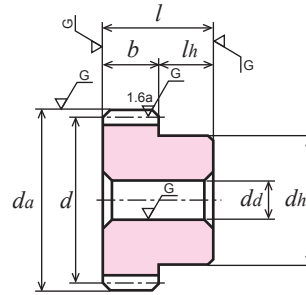
치면강도 (kW)

Allowable transfer capability table (kW) Surface Durability

| 회전 속도 (min ⁻¹) revolution/min | | | | | | | |
|--|------|-------|-------|-------|-------|-------|--|
| 400 | 800 | 1,200 | 1,500 | 1,800 | 2,500 | 3,000 | |
| 0.94 | 1.91 | 2.90 | 3.59 | 4.26 | 5.85 | 6.94 | |
| 1.01 | 2.07 | 3.13 | 3.87 | 4.60 | 6.31 | 7.46 | |
| 1.05 | 2.15 | 3.24 | 4.01 | 4.77 | 6.54 | 7.73 | |
| 1.09 | 2.23 | 3.36 | 4.16 | 4.95 | 6.78 | 8.00 | |
| 1.26 | 2.58 | 3.86 | 4.77 | 5.69 | 7.78 | 9.12 | |
| 1.44 | 2.95 | 4.39 | 5.43 | 6.47 | 8.82 | 10.31 | |
| 1.73 | 3.56 | 5.26 | 6.50 | 7.75 | 10.47 | 12.20 | |
| 1.84 | 3.77 | 5.56 | 6.88 | 8.20 | 11.04 | 12.86 | |
| 2.00 | 4.09 | 6.03 | 7.47 | 8.90 | 11.93 | 13.88 | |
| 2.29 | 4.66 | 6.85 | 8.51 | 10.12 | 13.48 | 15.70 | |

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Please refer to the catalogue reference while ordering.



B1形

SCM435, 440 크롬 몰리브덴 강 (JIS G 4105)

Material : Chromium Molybdenum Steel (ISO 34CrMo4, 42CrMo4)

단위 : mm
Dimensions : mm

| 상 품 기 호 Catalogue Number | 잇 수 Number of Teeth z | 기준원 직경 Reference Diameter d | 치선원 직경 Outside Diameter d_a | 형 Type | 치 폭 Face Width b | 내 경 Bore Diameter $d_d(H7)$ | 허 브 외 경 Hub Diameter d_h | 허 브 길 이 Hub Projection l_h | 전 장 Overall Length l | 셋트 스크류 Set Screw | | 탭 가이드 Tap Guide d_r | 중 량 Weight $W(g)$ |
|-----------------------------|-------------------------------|-------------------------------------|-------------------------------------|--------|--------------------------|-----------------------------------|----------------------------------|------------------------------------|------------------------------|---------------------|-------|-----------------------------|-------------------------|
| | | | | | | | | | | M | l_s | | |
| SG1S 90B-1015 | 90 | ϕ 90 | ϕ 92 | B1 | 10 | ϕ 15 | ϕ 50 | 10 | 20 | - | - | - | 621.8 |
| SG1S 96B-1015 | 96 | ϕ 96 | ϕ 98 | B1 | 10 | ϕ 15 | ϕ 50 | 10 | 20 | - | - | - | 690.2 |
| SG1S 100B-1012 | 100 | ϕ 100 | ϕ 102 | B1 | 10 | ϕ 12 | ϕ 50 | 10 | 20 | - | - | - | 748.1 |
| SG1S 100B -1015 | 100 | ϕ 100 | ϕ 102 | B1 | 10 | ϕ 15 | ϕ 50 | 10 | 20 | - | - | - | 738.2 |
| SG1S 100B -1020 | 100 | ϕ 100 | ϕ 102 | B1 | 10 | ϕ 20 | ϕ 50 | 10 | 20 | - | - | - | 716.8 |
| SG1S 108B-1015 | 108 | ϕ 108 | ϕ 110 | B1 | 10 | ϕ 15 | ϕ 50 | 10 | 20 | - | - | - | 840.1 |
| SG1S 112B -1015 | 112 | ϕ 112 | ϕ 114 | B1 | 10 | ϕ 15 | ϕ 50 | 10 | 20 | - | - | - | 894.0 |
| SG1S 120B-1015 | 120 | ϕ 120 | ϕ 122 | B1 | 10 | ϕ 15 | ϕ 50 | 10 | 20 | - | - | - | 1007.7 |

Gear tooth surface completed with induction harden, hardness HRC49 to 55.

동력 환산식 The Conversion formula of Power

1) 토크 계산하기 Calculate Torque from

T : (Torque) [kgf*m]

$$T = 9549.7 \frac{kW}{n} : kW = \frac{T * n}{9549.7}$$

=

T : (Torque) [kgf*m]

$$T = 973.8 \frac{kW}{n} : kW = \frac{T * n}{973.8}$$

T : (Torque) [kgf*m]

$$T = \frac{F_t * r}{1000} : F_t = \frac{1000 * T}{r}$$

2) SI 단위로의 환산 Convert to Standard Integer

1[kgf*m]=9.80665[N*m]

1[W]=1[N*m/s]

여기에 n : 회전속도 Revolution per minute [min⁻¹]

Hereby r : 기준원직경 Reference radius [mm]

(전위 기어의 경우는 맞물림 피치원 반경)

(In case of Shifted gears as working Radius)

T : 토크 Torque [N*m]

kW : 동력 Power [kW]

F_t : 맞물림 피치원상의 원주력 [N]

Tangential Force of pitch circle [N]

허용전달 동력표 굽힘강도 (kW)

Allowable transfer capability table (kW) Bending Strength

| z | b | 회전 속도 (min ⁻¹) revolution/min | | | | | | |
|-----|-----|--|------|-------|-------|-------|-------|-------|
| | | 400 | 800 | 1,200 | 1,500 | 1,800 | 2,500 | 3,000 |
| 90 | 10 | 3.70 | 7.26 | 10.47 | 12.80 | 14.98 | 19.37 | 22.47 |
| 96 | 10 | 3.98 | 7.77 | 11.20 | 13.68 | 15.92 | 20.59 | 23.88 |
| 100 | 10 | 4.17 | 8.10 | 11.68 | 14.25 | 16.53 | 21.40 | 24.80 |
| 108 | 10 | 4.55 | 8.76 | 12.64 | 15.34 | 17.73 | 23.01 | 26.60 |
| 112 | 10 | 4.74 | 9.09 | 13.11 | 15.86 | 18.32 | 23.80 | 27.48 |
| 120 | 10 | 5.12 | 9.74 | 14.05 | 16.89 | 19.46 | 25.34 | 28.97 |

The above numerical values are equivalent to JGMA formulas as reference only.

치면강도 (kW)

Allowable transfer capability table (kW) Surface Durability

| 회전 속도 (min ⁻¹) revolution/min | | | | | | | |
|--|-------|-------|-------|-------|-------|-------|--|
| 400 | 800 | 1,200 | 1,500 | 1,800 | 2,500 | 3,000 | |
| 2.92 | 5.90 | 8.69 | 10.77 | 12.74 | 16.80 | 19.69 | |
| 3.34 | 6.72 | 9.90 | 12.25 | 14.41 | 19.00 | 22.28 | |
| 3.64 | 7.29 | 10.74 | 13.28 | 15.57 | 20.56 | 24.07 | |
| 4.27 | 8.50 | 12.53 | 15.42 | 18.01 | 23.84 | 27.84 | |
| 4.61 | 9.13 | 13.48 | 16.53 | 19.29 | 25.55 | 29.80 | |
| 5.32 | 10.48 | 15.47 | 18.85 | 21.95 | 29.13 | 33.64 | |

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치연 평기어

GROUND SPUR GEARS

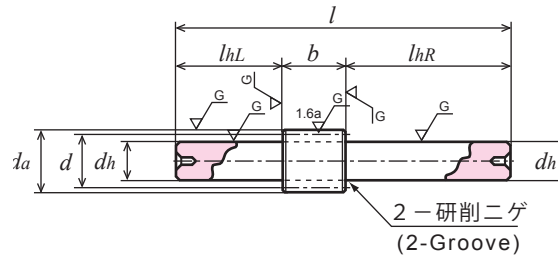
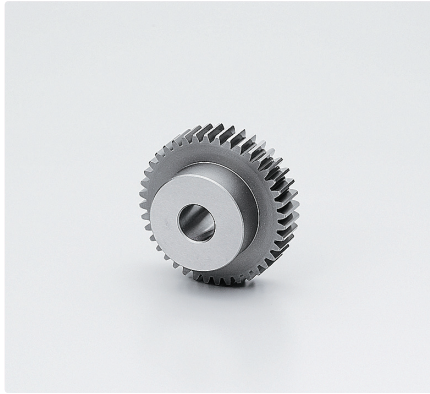
모듈
MODULE

1.5 압력각 20° (병치)
20° PRESSURE ANGLE FULL DEPTH TOOTH

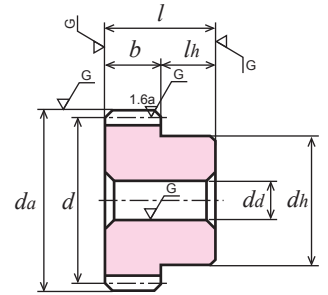
치부 고주파 열처리 HRC49~55
신 JIS B 1702-1(ISO) 5 급 해당 (구 JIS B 1702 1 급)
Precision: JIS B1702 class 1 equivalent to ISO class 5

주문시에는 반드시 모델번호 전체를 표기바랍니다.

Please refer to the catalogue reference while ordering.



L 1形
TYPE L1



B 1形
TYPE B1

SCM435, 440 크롬 몰리브덴 강 (JIS G 4105)

Material : Chromium Molybdenum Steel (ISO 34CrMo4, 42CrMo4)

단위 : mm
Dimensions : mm

| 상 품 기 호 Catalogue Number | 잇 수 Number of Teeth z | 기준원 직경 Reference Diameter d | 치선원 직경 Outside Diameter d_a | 형 Type | 치 폭 Face Width b | 내 경 Bore Diameter $d_a(H7)$ | 허 브 외 경 Hub Diameter d_h | 허 브 길 이 Hub Projection l_h | 전 장 Overall Length l | 중 량 Weight $W(kg)$ |
|-----------------------------|-------------------------------|-------------------------------------|-------------------------------------|-----------|--------------------------|-----------------------------------|----------------------------------|------------------------------------|------------------------------|--------------------------|
| SG1.5S 14L-1512 | 14 | $\phi 21$ | $\phi 24$ | L1 | 15 | - | $\phi 12$ (h7) | L25 R60 | 100 | 0.12 |
| SG1.5S 15L-1512 | 15 | $\phi 22.5$ | $\phi 25.5$ | L1 | 15 | - | $\phi 12$ (h7) | L25 R60 | 100 | 0.12 |
| SG1.5S 15B-1510 | 15 | $\phi 22.5$ | $\phi 25.5$ | B1 | 15 | $\phi 10$ | $\phi 18$ | 15 | 30 | 0.06 |
| SG1.5S 16L-1512 | 16 | $\phi 24$ | $\phi 27$ | L1 | 15 | - | $\phi 12$ (h7) | L25 R60 | 100 | 0.13 |
| SG1.5S 16B-1510 | 16 | $\phi 24$ | $\phi 27$ | B1 | 15 | $\phi 10$ | $\phi 18$ | 15 | 30 | 0.06 |
| SG1.5S 18L-1512 | 18 | $\phi 27$ | $\phi 30$ | L1 | 15 | - | $\phi 12$ (h7) | L25 R60 | 100 | 0.14 |
| SG1.5S 18B-1512 | 18 | $\phi 27$ | $\phi 30$ | B1 | 15 | $\phi 12$ | $\phi 22$ | 15 | 30 | 0.08 |
| SG1.5S 20B-1512 | 20 | $\phi 30$ | $\phi 33$ | B1 | 15 | $\phi 12$ | $\phi 22$ | 15 | 30 | 0.10 |
| SG1.5S 22B-1512 | 22 | $\phi 33$ | $\phi 36$ | B1 | 15 | $\phi 12$ | $\phi 25$ | 15 | 30 | 0.13 |
| SG1.5S 24B-1515 | 24 | $\phi 36$ | $\phi 39$ | B1 | 15 | $\phi 15$ | $\phi 30$ | 15 | 30 | 0.16 |
| SG1.5S 25B-1515 | 25 | $\phi 37.5$ | $\phi 40.5$ | B1 | 15 | $\phi 15$ | $\phi 30$ | 15 | 30 | 0.17 |
| SG1.5S 26B-1515 | 26 | $\phi 39$ | $\phi 42$ | B1 | 15 | $\phi 15$ | $\phi 30$ | 15 | 30 | 0.18 |
| SG1.5S 28B-1515 | 28 | $\phi 42$ | $\phi 45$ | B1 | 15 | $\phi 15$ | $\phi 30$ | 15 | 30 | 0.20 |

Gear tooth surface completed with induction harden, hardness HRC49 to 55.

허용전달 동력표 굽힘강도 (kW)

Allowable transfer capability table (kW) Bending Strength

| z | b | 회전 속도 (min ⁻¹) revolution/min | | | | | | |
|-----|-----|--|------|-------|-------|-------|-------|-------|
| | | 400 | 800 | 1,200 | 1,500 | 1,800 | 2,500 | 3,000 |
| 14 | 15 | 1.03 | 2.07 | 3.11 | 3.89 | 4.67 | 6.49 | 7.73 |
| 15 | 15 | 1.16 | 2.32 | 3.49 | 4.36 | 5.23 | 7.27 | 8.61 |
| 16 | 15 | 1.29 | 2.58 | 3.87 | 4.84 | 5.81 | 8.04 | 9.50 |
| 18 | 15 | 1.55 | 3.11 | 4.66 | 5.82 | 6.99 | 9.58 | 11.30 |
| 20 | 15 | 1.82 | 3.65 | 5.47 | 6.84 | 8.20 | 11.14 | 13.11 |
| 22 | 15 | 2.10 | 4.20 | 6.29 | 7.87 | 9.41 | 12.69 | 14.94 |
| 24 | 15 | 2.38 | 4.75 | 7.13 | 8.91 | 10.59 | 14.25 | 16.80 |
| 25 | 15 | 2.52 | 5.04 | 7.55 | 9.44 | 11.18 | 15.02 | 17.74 |
| 26 | 15 | 2.66 | 5.32 | 7.98 | 9.96 | 11.77 | 15.81 | 18.67 |
| 28 | 15 | 2.95 | 5.90 | 8.84 | 10.97 | 12.96 | 17.41 | 20.54 |

The above references are JGMA standard.

치면강도 (kW)

Allowable transfer capability table (kW) Surface Durability

| 회전 속도 (min ⁻¹) revolution/min | | | | | | | |
|--|------|-------|-------|-------|-------|-------|--|
| 400 | 800 | 1,200 | 1,500 | 1,800 | 2,500 | 3,000 | |
| 0.21 | 0.43 | 0.66 | 0.83 | 1.00 | 1.41 | 1.69 | |
| 0.24 | 0.50 | 0.76 | 0.96 | 1.16 | 1.63 | 1.95 | |
| 0.28 | 0.57 | 0.87 | 1.09 | 1.32 | 1.86 | 2.20 | |
| 0.36 | 0.74 | 1.12 | 1.41 | 1.70 | 2.36 | 2.81 | |
| 0.45 | 0.92 | 1.39 | 1.75 | 2.12 | 2.92 | 3.47 | |
| 0.55 | 1.11 | 1.69 | 2.14 | 2.57 | 3.53 | 4.19 | |
| 0.66 | 1.34 | 2.03 | 2.56 | 3.07 | 4.19 | 5.00 | |
| 0.72 | 1.45 | 2.21 | 2.79 | 3.33 | 4.55 | 5.42 | |
| 0.78 | 1.58 | 2.40 | 3.02 | 3.60 | 4.92 | 5.87 | |
| 0.90 | 1.84 | 2.80 | 3.51 | 4.18 | 5.71 | 6.81 | |

KG GEAR 한국대리점 삼성기공 053) 351-4700

치연 평기어

GROUND SPUR GEARS

모듈
MODULE

1.5

압력각 20° (병치)

20° PRESSURE ANGLE FULL DEPTH TOOTH

| 상 품 기 호 Catalogue Number | 잇 수 Number of Teeth z | 기준원 직경 Reference Diameter d | 치선원 직경 Outside Diameter d_a | 형 Type | 치 폭 Face Width b | 내 경 Bore Diameter $d_a(H7)$ | 허브 외 경 Hub Diameter d_h | 허브 길이 Hub Projection l_h | 전 장 Overall Length l | 중 량 Weight $W(kg)$ |
|-----------------------------|-------------------------------|-------------------------------------|-------------------------------------|-----------|--------------------------|-----------------------------------|---------------------------------|----------------------------------|------------------------------|--------------------------|
| SG1.5S 30B-1515 | 30 | ϕ 45 | ϕ 48 | B1 | 15 | ϕ 15 | ϕ 35 | 15 | 30 | 0.26 |
| SG1.5S 32B-1515 | 32 | ϕ 48 | ϕ 51 | B1 | 15 | ϕ 15 | ϕ 35 | 15 | 30 | 0.28 |
| SG1.5S 34B-1515 | 34 | ϕ 51 | ϕ 54 | B1 | 15 | ϕ 15 | ϕ 35 | 15 | 30 | 0.31 |
| SG1.5S 35B-1515 | 35 | ϕ 52.5 | ϕ 55.5 | B1 | 15 | ϕ 15 | ϕ 35 | 15 | 30 | 0.36 |
| SG1.5S 36B-1515 | 36 | ϕ 54 | ϕ 57 | B1 | 15 | ϕ 15 | ϕ 40 | 15 | 30 | 0.37 |
| SG1.5S 40B-1515 | 40 | ϕ 60 | ϕ 63 | B1 | 15 | ϕ 15 | ϕ 40 | 15 | 30 | 0.44 |
| SG1.5S 42B-1515 | 42 | ϕ 63 | ϕ 66 | B1 | 15 | ϕ 15 | ϕ 40 | 15 | 30 | 0.47 |
| SG1.5S 45B-1520 | 45 | ϕ 67.5 | ϕ 70.5 | B1 | 15 | ϕ 20 | ϕ 50 | 15 | 30 | 0.57 |
| SG1.5S 48B-1520 | 48 | ϕ 72 | ϕ 75 | B1 | 15 | ϕ 20 | ϕ 50 | 15 | 30 | 0.63 |
| SG1.5S 50B-1520 | 50 | ϕ 75 | ϕ 78 | B1 | 15 | ϕ 20 | ϕ 50 | 15 | 30 | 0.67 |
| SG1.5S 52B-1520 | 52 | ϕ 78 | ϕ 81 | B1 | 15 | ϕ 20 | ϕ 50 | 15 | 30 | 0.72 |
| SG1.5S 55B-1520 | 55 | ϕ 82.5 | ϕ 85.5 | B1 | 15 | ϕ 20 | ϕ 50 | 15 | 30 | 0.78 |
| SG1.5S 56B-1520 | 56 | ϕ 84 | ϕ 87 | B1 | 15 | ϕ 20 | ϕ 50 | 15 | 30 | 0.80 |
| SG1.5S 60B-1520 | 60 | ϕ 90 | ϕ 93 | B1 | 15 | ϕ 20 | ϕ 60 | 15 | 30 | 1.00 |
| SG1.5S 64B-1520 | 64 | ϕ 96 | ϕ 99 | B1 | 15 | ϕ 20 | ϕ 60 | 15 | 30 | 1.10 |
| SG1.5S 70B-1520 | 70 | ϕ 105 | ϕ 108 | B1 | 15 | ϕ 20 | ϕ 60 | 15 | 30 | 1.27 |
| SG1.5S 72B-1520 | 72 | ϕ 108 | ϕ 111 | B1 | 15 | ϕ 20 | ϕ 60 | 15 | 30 | 1.33 |
| SG1.5S 75B-1520 | 75 | ϕ 112.5 | ϕ 115.5 | B1 | 15 | ϕ 20 | ϕ 60 | 15 | 30 | 1.42 |
| SG1.5S 80B-1520 | 80 | ϕ 120 | ϕ 123 | B1 | 15 | ϕ 20 | ϕ 60 | 15 | 30 | 1.58 |
| SG1.5S 90B-1525 | 90 | ϕ 135 | ϕ 138 | B1 | 15 | ϕ 25 | ϕ 70 | 15 | 30 | 2.01 |
| SG1.5S 100B-1525 | 100 | ϕ 150 | ϕ 153 | B1 | 15 | ϕ 25 | ϕ 70 | 15 | 30 | 2.40 |
| SG1.5S 112B-1525 | 112 | ϕ 168 | ϕ 171 | B1 | 15 | ϕ 25 | ϕ 70 | 15 | 30 | 2.93 |
| SG1.5S 120B-1525 | 120 | ϕ 180 | ϕ 183 | B1 | 15 | ϕ 25 | ϕ 70 | 15 | 30 | 3.31 |

Gear tooth surface completed with induction harden, hardness HRC49 to 55.

허용전달 동력표 굽힘강도 (kW)

Allowable transfer capability table (kW) Bending Strength

| z | b | 회전 속도 (min ⁻¹) revolution/min | | | | | | |
|-----|-----|--|-------|-------|-------|-------|-------|-------|
| | | 400 | 800 | 1,200 | 1,500 | 1,800 | 2,500 | 3,000 |
| 30 | 15 | 3.24 | 6.47 | 9.71 | 11.98 | 14.13 | 19.00 | 22.39 |
| 32 | 15 | 3.53 | 7.06 | 10.59 | 12.99 | 15.30 | 20.59 | 24.24 |
| 34 | 15 | 3.83 | 7.65 | 11.42 | 13.99 | 16.47 | 22.18 | 26.08 |
| 35 | 15 | 3.97 | 7.95 | 11.83 | 14.49 | 17.05 | 22.97 | 26.94 |
| 36 | 15 | 4.12 | 8.25 | 12.25 | 15.00 | 17.64 | 23.76 | 27.81 |
| 40 | 15 | 4.72 | 9.45 | 13.90 | 16.98 | 20.03 | 26.90 | 31.19 |
| 42 | 15 | 5.03 | 10.05 | 14.72 | 17.97 | 21.22 | 28.40 | 32.85 |
| 45 | 15 | 5.48 | 10.96 | 15.94 | 19.47 | 22.98 | 30.55 | 35.27 |
| 48 | 15 | 5.94 | 11.87 | 17.16 | 20.98 | 24.74 | 32.67 | 37.64 |
| 50 | 15 | 6.24 | 12.44 | 17.96 | 21.99 | 25.91 | 34.07 | 39.20 |
| 52 | 15 | 6.55 | 13.02 | 18.76 | 22.99 | 27.07 | 35.44 | 40.80 |
| 55 | 15 | 7.01 | 13.87 | 19.98 | 24.48 | 28.79 | 37.47 | 43.26 |
| 56 | 15 | 7.17 | 14.15 | 20.39 | 24.97 | 29.36 | 38.14 | 44.07 |
| 60 | 15 | 7.79 | 15.29 | 22.03 | 26.94 | 31.52 | 40.76 | 47.28 |
| 64 | 15 | 8.41 | 16.41 | 23.65 | 28.88 | 33.62 | 43.48 | 50.43 |
| 70 | 15 | 9.35 | 18.07 | 26.06 | 31.71 | 36.68 | 47.56 | 55.02 |
| 72 | 15 | 9.67 | 18.62 | 26.86 | 32.60 | 37.68 | 48.90 | 56.52 |
| 75 | 15 | 10.14 | 19.44 | 28.05 | 33.92 | 39.16 | 50.88 | 58.74 |
| 80 | 15 | 10.93 | 20.80 | 30.01 | 36.08 | 41.57 | 54.12 | 61.89 |
| 90 | 15 | 12.49 | 23.55 | 33.71 | 40.22 | 46.39 | 60.33 | 67.34 |
| 100 | 15 | 14.03 | 26.28 | 37.20 | 44.20 | 51.28 | 65.34 | 72.38 |
| 112 | 15 | 15.78 | 29.50 | 41.21 | 49.15 | 56.93 | 70.67 | - |
| 120 | 15 | 16.94 | 31.61 | 43.79 | 52.40 | 60.57 | 73.96 | - |

The above references are JGMA standard.

치면강도 (kW)

Allowable transfer capability table (kW) Surface Durability

| z | b | 회전 속도 (min ⁻¹) revolution/min | | | | | | |
|-----|-----|--|-------|-------|-------|-------|-------|-------|
| | | 400 | 800 | 1,200 | 1,500 | 1,800 | 2,500 | 3,000 |
| 30 | 15 | 1.04 | 2.12 | 3.23 | 4.03 | 4.80 | 6.57 | 7.82 |
| 32 | 15 | 1.19 | 2.43 | 3.70 | 4.59 | 5.45 | 7.47 | 8.89 |
| 34 | 15 | 1.35 | 2.75 | 4.18 | 5.18 | 6.15 | 8.44 | 10.03 |
| 35 | 15 | 1.43 | 2.93 | 4.43 | 5.49 | 6.52 | 8.94 | 10.60 |
| 36 | 15 | 1.52 | 3.10 | 4.69 | 5.80 | 6.90 | 9.46 | 11.19 |
| 40 | 15 | 1.89 | 3.87 | 5.79 | 7.16 | 8.53 | 11.67 | 13.69 |
| 42 | 15 | 2.09 | 4.28 | 6.39 | 7.89 | 9.41 | 12.83 | 15.01 |
| 45 | 15 | 2.41 | 4.94 | 7.33 | 9.06 | 10.81 | 14.65 | 17.10 |
| 48 | 15 | 2.76 | 5.66 | 8.34 | 10.32 | 12.30 | 16.56 | 19.29 |
| 50 | 15 | 3.00 | 6.14 | 9.04 | 11.21 | 13.34 | 17.90 | 20.82 |
| 52 | 15 | 3.26 | 6.64 | 9.78 | 12.13 | 14.43 | 19.27 | 22.43 |
| 55 | 15 | 3.66 | 7.44 | 10.94 | 13.57 | 16.14 | 21.42 | 25.00 |
| 56 | 15 | 3.80 | 7.71 | 11.35 | 14.07 | 16.72 | 22.15 | 25.88 |
| 60 | 15 | 4.39 | 8.86 | 13.04 | 16.15 | 19.11 | 25.19 | 29.54 |
| 64 | 15 | 5.02 | 10.08 | 14.85 | 18.37 | 21.61 | 28.51 | 33.41 |
| 70 | 15 | 6.05 | 12.05 | 17.77 | 21.91 | 25.62 | 33.87 | 39.60 |
| 72 | 15 | 6.41 | 12.75 | 18.80 | 23.12 | 27.02 | 35.75 | 41.76 |
| 75 | 15 | 6.98 | 13.82 | 20.40 | 25.00 | 29.18 | 38.65 | 45.08 |
| 80 | 15 | 7.99 | 15.72 | 23.20 | 28.27 | 32.93 | 43.70 | 50.47 |
| 90 | 15 | 10.21 | 19.93 | 29.21 | 35.32 | 41.18 | 54.56 | 61.49 |
| 100 | 15 | 12.68 | 24.63 | 35.71 | 43.00 | 50.42 | 65.43 | 73.16 |
| 112 | 15 | 15.93 | 30.91 | 44.24 | 53.46 | 62.57 | 79.05 | - |
| 120 | 15 | 18.29 | 35.47 | 50.34 | 61.03 | 71.27 | 88.54 | - |

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GROUND SPUR GEARS

GROUND SPUR GEARS

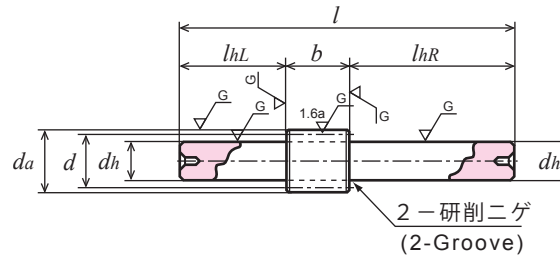
치연 평기어

GROUND SPUR GEARS

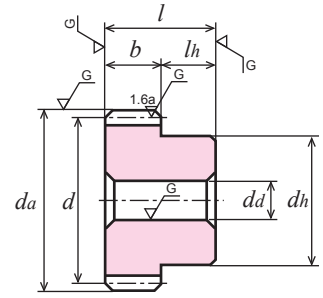
모듈
MODULE

2 압력각 20° (병치)
20° PRESSURE ANGLE FULL DEPTH TOOTH

치부 고주파 열처리 HRC49~55
신 JIS B 1702-1(ISO) 5 급 해당 (JIS B 1702 1 급)
Precision: JIS B 1702 class 1 equivalent to ISO class 5



L 1形
TYPE L1



B1形
TYPE B1

SCM435, 440 크롬 몰리브덴 강 (JIS G 4105)
Material : Chromium Molybdenum Steel (ISO 34CrMo4, 42CrMo4)

단위 : mm
Dimensions : mm

| 상 품 기 호 Catalogue Number | 잇 수 Number of Teeth z | 기준원 직경 Reference Diameter d | 치선원 직경 Outside Diameter d_a | 형 Type | 치 폭 Face Width b | 내 경 Bore Diameter $d_a(H7)$ | 허 브 외 경 Hub Diameter d_h | 허 브 길 이 Hub Projection l_h | 전 장 Overall Length l | 중 량 Weight $W(kg)$ |
|-----------------------------|-------------------------------|-------------------------------------|-------------------------------------|-----------|--------------------------|-----------------------------------|----------------------------------|------------------------------------|------------------------------|--------------------------|
| SG2S 14L-2012 | 14 | φ28 | φ32 | L1 | 20 | - | φ12 (h7) | L25 R60 | 105 | 0.17 |
| SG2S 14B-2012 | 14 | φ28 | φ32 | B1 | 20 | φ12 | φ22 | 20 | 40 | 0.12 |
| SG2S 15L-2012 | 15 | φ30 | φ34 | L1 | 20 | - | φ12 (h7) | L25 R60 | 105 | 0.19 |
| SG2S 15B-2012 | 15 | φ30 | φ34 | B1 | 20 | φ12 | φ22 | 20 | 40 | 0.13 |
| SG2S 16L-2015 | 16 | φ32 | φ36 | L1 | 20 | - | φ15 (h7) | L25 R60 | 105 | 0.24 |
| SG2S 16B-2012 | 16 | φ32 | φ36 | B1 | 20 | φ12 | φ25 | 20 | 40 | 0.17 |
| SG2S 17B-2012 | 17 | φ34 | φ38 | B1 | 20 | φ12 | φ25 | 20 | 40 | 0.18 |
| SG2S 18L-2015 | 18 | φ36 | φ40 | L1 | 20 | - | φ15 (h7) | L25 R60 | 105 | 0.28 |
| SG2S 18B-2015 | 18 | φ36 | φ40 | B1 | 20 | φ15 | φ30 | 20 | 40 | 0.21 |
| SG2S 20B-2015 | 20 | φ40 | φ44 | B1 | 20 | φ15 | φ30 | 20 | 40 | 0.25 |
| SG2S 21B-2015 | 21 | φ42 | φ46 | B1 | 20 | φ15 | φ30 | 20 | 40 | 0.27 |
| SG2S 22B-2015 | 22 | φ44 | φ48 | B1 | 20 | φ15 | φ30 | 20 | 40 | 0.29 |
| SG2S 23B-2015 | 23 | φ46 | φ50 | B1 | 20 | φ15 | φ30 | 20 | 40 | 0.31 |
| SG2S 24B-2015 | 24 | φ48 | φ52 | B1 | 20 | φ15 | φ40 | 20 | 40 | 0.42 |
| SG2S 25B-2015 | 25 | φ50 | φ54 | B1 | 20 | φ15 | φ40 | 20 | 40 | 0.45 |
| SG2S 26B-2015 | 26 | φ52 | φ56 | B1 | 20 | φ15 | φ40 | 20 | 40 | 0.47 |
| SG2S 27B-2015 | 27 | φ54 | φ58 | B1 | 20 | φ15 | φ40 | 20 | 40 | 0.50 |

Gear tooth surface completed with induction harden, hardness HRC49 to 55.

허용전달 동력표 굽힘강도 (kW)

Allowable transfer capability table (kW) Bending Strength

| z | b | 회전 속도 (min ⁻¹) revolution/min | | | | | | |
|-----|-----|--|-------|-------|-------|-------|-------|-------|
| | | 400 | 800 | 1,200 | 1,500 | 1,800 | 2,500 | 3,000 |
| 14 | 20 | 2.46 | 4.92 | 7.39 | 9.23 | 11.08 | 15.13 | 17.84 |
| 15 | 20 | 2.76 | 5.52 | 8.28 | 10.35 | 12.42 | 16.85 | 19.84 |
| 16 | 20 | 3.06 | 6.12 | 9.19 | 11.48 | 13.77 | 18.58 | 21.86 |
| 17 | 20 | 3.37 | 6.74 | 10.11 | 12.63 | 15.08 | 20.32 | 23.94 |
| 18 | 20 | 3.68 | 7.36 | 11.04 | 13.80 | 16.40 | 22.06 | 26.02 |
| 20 | 20 | 4.32 | 8.64 | 12.96 | 16.15 | 19.08 | 25.63 | 30.25 |
| 21 | 20 | 4.64 | 9.29 | 13.93 | 17.29 | 20.41 | 27.43 | 32.36 |
| 22 | 20 | 4.97 | 9.94 | 14.92 | 18.44 | 21.75 | 29.25 | 34.47 |
| 23 | 20 | 5.30 | 10.61 | 15.91 | 19.59 | 23.09 | 31.06 | 36.59 |
| 24 | 20 | 5.63 | 11.27 | 16.90 | 20.73 | 24.42 | 32.87 | 38.68 |
| 25 | 20 | 5.97 | 11.94 | 17.84 | 21.88 | 25.76 | 34.68 | 40.79 |
| 26 | 20 | 6.31 | 12.61 | 18.79 | 23.03 | 27.09 | 36.49 | 42.84 |
| 27 | 20 | 6.65 | 13.29 | 19.75 | 24.17 | 28.44 | 38.30 | 44.83 |

The above references are JGMA standard.

치면강도 (kW)

Allowable transfer capability table (kW) Surface Durability

| 회전 속도 (min ⁻¹) revolution/min | | | | | | |
|--|------|-------|-------|-------|-------|-------|
| 400 | 800 | 1,200 | 1,500 | 1,800 | 2,500 | 3,000 |
| 0.52 | 1.06 | 1.60 | 2.02 | 2.44 | 3.39 | 4.03 |
| 0.60 | 1.22 | 1.85 | 2.33 | 2.82 | 3.89 | 4.62 |
| 0.69 | 1.39 | 2.12 | 2.67 | 3.23 | 4.42 | 5.25 |
| 0.78 | 1.58 | 2.40 | 3.08 | 3.65 | 4.99 | 5.94 |
| 0.88 | 1.78 | 2.71 | 3.41 | 4.09 | 5.59 | 6.66 |
| 1.09 | 2.22 | 3.37 | 4.24 | 5.05 | 6.90 | 8.23 |
| 1.21 | 2.45 | 3.73 | 4.68 | 5.57 | 7.62 | 9.08 |
| 1.33 | 2.70 | 4.11 | 5.14 | 6.11 | 8.37 | 9.97 |
| 1.45 | 2.96 | 4.51 | 5.62 | 6.68 | 9.15 | 10.89 |
| 1.59 | 3.24 | 4.93 | 6.12 | 7.27 | 9.97 | 11.86 |
| 1.73 | 3.52 | 5.36 | 6.64 | 7.89 | 10.82 | 12.86 |
| 1.87 | 3.82 | 5.80 | 7.18 | 8.53 | 11.70 | 13.88 |
| 2.03 | 4.14 | 6.25 | 7.74 | 9.19 | 12.62 | 14.92 |

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| 상 품 기 호 Catalogue Number | 잇 수 Number of Teeth z | 기준원 직경 Reference Diameter d | 치선원 직경 Outside Diameter d_a | 형 Type | 치 폭 Face Width b | 내 경 Bore Diameter $d_a(H7)$ | 허 브 외 경 Hub Diameter d_h | 허 브 길 이 Hub Projection l_h | 전 장 Overall Length l | 중 량 Weight $W(kg)$ |
|-----------------------------|-------------------------------|-------------------------------------|-------------------------------------|-----------|--------------------------|-----------------------------------|----------------------------------|------------------------------------|------------------------------|--------------------------|
| SG2S 28B-2015 | 28 | φ 56 | φ 60 | B1 | 20 | φ15 | φ40 | 20 | 40 | 0.53 |
| SG2S 30B-2015 | 30 | φ 60 | φ 64 | B1 | 20 | φ15 | φ40 | 20 | 40 | 0.58 |
| SG2S 32B-2020 | 32 | φ 64 | φ 68 | B1 | 20 | φ20 | φ50 | 20 | 40 | 0.71 |
| SG2S 34B-2020 | 34 | φ 68 | φ 72 | B1 | 20 | φ20 | φ50 | 20 | 40 | 0.77 |
| SG2S 35B-2020 | 35 | φ 70 | φ 74 | B1 | 20 | φ20 | φ50 | 20 | 40 | 0.81 |
| SG2S 36B-2020 | 36 | φ 72 | φ 76 | B1 | 20 | φ20 | φ50 | 20 | 40 | 0.84 |
| SG2S 38B-2020 | 38 | φ 76 | φ 80 | B1 | 20 | φ20 | φ60 | 20 | 40 | 1.05 |
| SG2S 40B-2020 | 40 | φ 80 | φ 84 | B1 | 20 | φ20 | φ60 | 20 | 40 | 1.13 |
| SG2S 42B-2020 | 42 | φ 84 | φ 88 | B1 | 20 | φ20 | φ60 | 20 | 40 | 1.21 |
| SG2S 44B-2020 | 44 | φ 88 | φ 92 | B1 | 20 | φ20 | φ60 | 20 | 40 | 1.29 |
| SG2S 45B-2020 | 45 | φ 90 | φ 94 | B1 | 20 | φ20 | φ60 | 20 | 40 | 1.34 |
| SG2S 48B-2020 | 48 | φ 96 | φ 100 | B1 | 20 | 20 | φ60 | 20 | 40 | 1.47 |
| SG2S 50B-2020 | 50 | φ 100 | φ 104 | B1 | 20 | 20 | φ60 | 20 | 40 | 1.57 |
| SG2S 52B-2020 | 52 | φ 104 | φ 108 | B1 | 20 | 20 | φ60 | 20 | 40 | 1.67 |
| SG2S 54B-2020 | 54 | φ 108 | φ 112 | B1 | 20 | 20 | φ60 | 20 | 40 | 1.78 |
| SG2S 55B-2020 | 55 | φ 110 | φ 114 | B1 | 20 | 20 | φ60 | 20 | 40 | 1.83 |
| SG2S 56B-2020 | 56 | φ 112 | φ 116 | B1 | 20 | 20 | φ60 | 20 | 40 | 1.88 |
| SG2S 60B-2025 | 60 | φ 120 | φ 124 | B1 | 20 | 25 | φ70 | 20 | 40 | 2.21 |
| SG2S 64B-2025 | 64 | φ 128 | φ 132 | B1 | 20 | 25 | φ70 | 20 | 40 | 2.45 |
| SG2S 70B-2025 | 70 | φ 140 | φ 144 | B1 | 20 | 25 | φ70 | 20 | 40 | 2.85 |
| SG2S 72B-2025 | 72 | φ 144 | φ 148 | B1 | 20 | 25 | φ80 | 20 | 40 | 3.17 |
| SG2S 75B-2025 | 75 | φ 150 | φ 154 | B1 | 20 | 25 | φ80 | 20 | 40 | 3.39 |
| SG2S 80B-2025 | 80 | φ 160 | φ 164 | B1 | 20 | 25 | φ80 | 20 | 40 | 3.77 |
| SG2S 90B-2025 | 90 | φ 180 | φ 184 | B1 | 20 | 25 | φ80 | 20 | 40 | 4.60 |
| SG2S 100B-2030 | 100 | φ 200 | φ 204 | B1 | 20 | 30 | φ80 | 20 | 40 | 5.46 |

Gear tooth surface completed with induction harden, hardness HRC49 to 55.

허용전달 동력표 굽힘강도 (kW)

Allowable transfer capability table (kW) Bending Strength

| z | b | 회전 속도 (min ⁻¹) revolution/min | | | | | | |
|-----|-----|--|-------|-------|-------|--------|--------|--------|
| | | 400 | 800 | 1,200 | 1,500 | 1,800 | 2,500 | 3,000 |
| 28 | 20 | 6.99 | 13.98 | 20.70 | 25.32 | 29.82 | 40.11 | 46.80 |
| 30 | 20 | 7.67 | 15.35 | 22.59 | 27.59 | 32.55 | 43.69 | 50.68 |
| 32 | 20 | 8.37 | 16.76 | 24.48 | 29.87 | 35.28 | 47.14 | 54.51 |
| 34 | 20 | 9.07 | 18.14 | 26.36 | 32.21 | 38.01 | 50.49 | 58.27 |
| 35 | 20 | 9.42 | 18.84 | 27.30 | 33.38 | 39.37 | 52.14 | 60.13 |
| 36 | 20 | 9.77 | 19.54 | 28.24 | 34.54 | 40.73 | 53.78 | 61.97 |
| 38 | 20 | 10.48 | 20.87 | 30.11 | 36.87 | 43.43 | 57.03 | 65.60 |
| 40 | 20 | 11.20 | 22.20 | 31.97 | 39.19 | 46.12 | 60.23 | 69.43 |
| 42 | 20 | 11.91 | 23.52 | 33.89 | 41.49 | 48.80 | 63.37 | 73.24 |
| 44 | 20 | 12.62 | 24.82 | 35.77 | 43.76 | 51.30 | 66.42 | 76.96 |
| 45 | 20 | 12.99 | 25.48 | 36.72 | 44.90 | 52.55 | 67.94 | 78.82 |
| 48 | 20 | 14.07 | 27.44 | 39.56 | 48.31 | 56.23 | 72.72 | 84.34 |
| 50 | 20 | 14.80 | 28.74 | 41.44 | 50.56 | 58.64 | 75.93 | 87.96 |
| 52 | 20 | 15.53 | 30.04 | 43.31 | 52.74 | 61.03 | 79.10 | 91.54 |
| 54 | 20 | 16.26 | 31.33 | 45.17 | 54.83 | 63.38 | 82.24 | 95.07 |
| 55 | 20 | 16.63 | 31.97 | 46.10 | 55.87 | 64.54 | 83.80 | 96.81 |
| 56 | 20 | 16.99 | 32.61 | 47.03 | 56.90 | 65.70 | 85.35 | 98.55 |
| 60 | 20 | 18.46 | 35.16 | 50.71 | 60.97 | 70.25 | 91.46 | 104.57 |
| 64 | 20 | 19.94 | 37.77 | 54.34 | 64.96 | 74.72 | 97.43 | 109.96 |
| 70 | 20 | 22.17 | 41.66 | 59.39 | 70.76 | 81.78 | 105.82 | 117.59 |
| 72 | 20 | 22.90 | 42.94 | 61.04 | 72.65 | 84.09 | 108.14 | 120.01 |
| 75 | 20 | 23.95 | 44.86 | 63.49 | 75.44 | 87.52 | 111.53 | 123.54 |
| 80 | 20 | 25.68 | 48.04 | 67.49 | 80.31 | 93.15 | 116.96 | - |
| 90 | 20 | 29.06 | 54.23 | 75.12 | 89.89 | 103.90 | 126.88 | - |
| 100 | 20 | 32.41 | 60.17 | 82.79 | 99.19 | 113.41 | - | - |

The above references are JGMA standard.

치면강도 (kW)

Allowable transfer capability table (kW) Surface Durability

| 회전 속도 (min ⁻¹) revolution/min | | | | | | |
|--|-------|-------|-------|--------|--------|-------|
| 400 | 800 | 1,200 | 1,500 | 1,800 | 2,500 | 3,000 |
| 2.18 | 4.66 | 6.73 | 8.32 | 9.90 | 13.57 | 16.00 |
| 2.52 | 5.15 | 7.72 | 9.55 | 11.37 | 15.56 | 18.25 |
| 2.88 | 5.90 | 8.79 | 10.85 | 12.95 | 17.64 | 20.62 |
| 3.27 | 6.69 | 9.92 | 12.27 | 14.63 | 19.81 | 23.11 |
| 3.47 | 7.11 | 10.51 | 13.00 | 15.50 | 20.93 | 24.40 |
| 3.68 | 7.54 | 11.12 | 13.76 | 16.40 | 22.08 | 25.72 |
| 4.12 | 8.41 | 12.38 | 15.35 | 18.27 | 24.47 | 28.45 |
| 4.58 | 9.32 | 13.71 | 17.01 | 20.24 | 26.95 | 31.41 |
| 5.07 | 10.28 | 15.13 | 18.76 | 22.30 | 29.54 | 34.50 |
| 5.58 | 11.29 | 16.62 | 20.59 | 24.40 | 32.22 | 37.73 |
| 5.85 | 11.81 | 17.38 | 21.53 | 25.47 | 33.59 | 39.39 |
| 6.69 | 13.44 | 19.80 | 24.49 | 28.82 | 38.01 | 44.55 |
| 7.28 | 14.58 | 21.49 | 26.56 | 31.15 | 41.12 | 48.14 |
| 7.90 | 15.76 | 23.24 | 28.68 | 33.55 | 44.34 | 51.85 |
| 8.55 | 16.99 | 25.07 | 30.83 | 36.03 | 47.67 | 55.67 |
| 8.88 | 17.63 | 26.01 | 31.93 | 37.30 | 49.37 | 57.63 |
| 9.22 | 18.27 | 26.96 | 33.05 | 38.58 | 51.10 | 59.61 |
| 10.65 | 20.95 | 30.93 | 37.69 | 43.91 | 58.26 | 67.29 |
| 12.18 | 23.87 | 35.16 | 42.59 | 49.53 | 65.82 | 75.02 |
| 14.69 | 28.59 | 41.75 | 50.41 | 58.89 | 77.64 | 87.09 |
| 15.58 | 30.26 | 44.06 | 53.14 | 62.17 | 81.44 | 91.23 |
| 16.91 | 32.84 | 47.61 | 57.34 | 67.23 | 87.25 | 97.54 |
| 19.26 | 37.38 | 53.80 | 64.88 | 76.04 | 97.20 | - |
| 24.39 | 47.29 | 67.12 | 81.37 | 95.03 | 118.05 | - |
| 30.11 | 58.13 | 81.94 | 99.45 | 114.85 | - | - |

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