



گروه فنی و مهندسی

توکا طرح

ماشین آلات صنعتی و سیستم های محرکه
الکتره گیربکس های فورشیدی و هلیکال

گیربکس SK&SH



1393



کاتالوگ گیربکس کتابی

گروه فنی و مهندسی توکا طرح

مدیریت: رضا اصغری

بهار ۱۳۹۳

آدرس: اصفهان - خیابان امام خمینی - روبروی خیابان شهید

باباگلی - کوچه باباطاهر - گروه فنی مهندسی توکا طرح

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فکس: ۰۳۱-۳۳۸۶۷۴۷۴

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وب سایت: www.tookatarh.ir



درباره توکا طرح:

گروه فنی مهندسی توکا طرح در سال 1374 کار خود را در کارخانه ای به مساحت 1500 متر مربع، واقع در منطقه صنعتی امیرکبیر اصفهان با تولید گیربکس های هلیکال شافت مستقیم آغاز نمود. این مجموعه در سال 1387 موفق به طراحی و تولید گیربکس های خورشیدی گردید. و اکنون با کوله باری از تجربه و دانش فنی و نیز بهره گیری از متخصصان و کارشناسان کارآموده، ماشین آلات پیشرفته و تکنولوژی روز اقدام به طراحی و تولید گیربکس های SK, SH نیز نموده است و قصد دارد محصولی از هر حیث کارا و مطمئن را به مشتریان خود عرضه نماید.

About TOOKATARH:

The technical group of began activates in 1374 in the factory an area of 1500 m located at amirkabir Esfahan industrial area. Tookatarh groups caps that arouse interest of customers effectively with technical knowledge experience use of specialists and brilliant empires, progressive machines and convenient technology and product are market for customers, the group has production of planetary gearbox.

گیربکس های کتابی (SH & SK)

ساختار این گیربکس ها مانند گیربکس های هلیکال می باشد با این تفاوت که محورهای انتقال قدرت می تواند بیشتر باشد. به عبارتی تعداد استیج ها را می توان بیشتر از دو تا باشد. تفاوت عمده ی دیگر این گیربکس ها در موازی بودن محور ورودی و خروجی با یک فاصله ی مشخص (فاصله مراکز شافت ورودی و خروجی) یا عمود بودن شافت ورودی و خروجی است.



مزایا :

- امکان داشتن چند خروجی
- امکان قرار گرفتن شافت ورودی و خروجی در یک سمت
- امکان قرار گرفتن شافت ورودی و شافت خروجی در حالت عمود بر هم.
- راندمان بالا (در حدود 95 درصد)
- قابلیت انتقال توانهای بسیار بالا
- قابلیت ایجاد نسبت تبدیل های زیاد (در قیاس با گیربکس های هلیکال)
- قابلیت انتقال گشتاورها و دورهای بالا

معایب :

- اشغال فضای زیاد نسبت به گیربکس های خورشیدی.
- هزینه تولید بالا به خصوص برای سایزهای بزرگ.

این گیربکس ها از دیرباز در صنایع فولاد سازی و ذوب آهن، پتروشیمی و صنایع شیمیایی، صنایع سیمان و آجر، صنایع نفت و گاز صنایع بسته بندی و صنایع کشاورزی کاربرد وسیعی دارد.

مشخصات و اصطلاحات فنی مورد نیاز

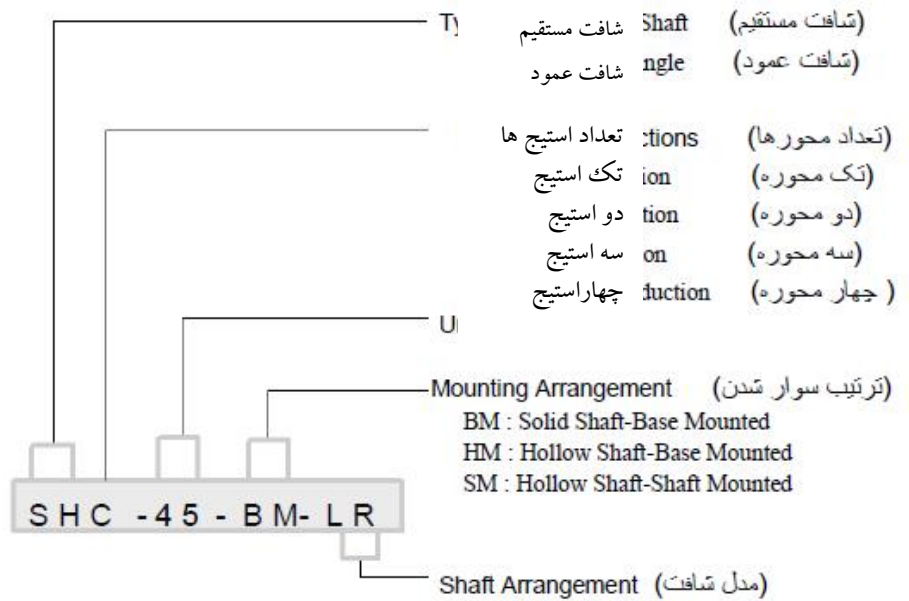
| Type gearbox | نوع گیربکس | TYPE |
|------------------------|------------------------------|----------|
| Speed of input shaft | دور ورودی | N1(rpm) |
| Speed of output shaft | دور خروجی | N2(rpm) |
| power | توان موتور | P(HP,kw) |
| Diameter out put shaft | قطر شافت خروجی | D(mm) |
| Out put torque | گشتاور خروجی | M(n/m) |
| weight | وزن تقریبی با الکتروموتور ژن | W(kg) |

نوع روغن

| دانسیتته در 15°C Kg/m ³ | نقطه ریزش | نقطه اشتعال | شاخص ویسکوزیته | ویسکوزیته روغن 100 °C | 40°C |
|---------------------------------------|-----------|-------------|----------------|--------------------------|------|
| 880 | -24 | 210 | 95 | 9 | 68 |
| 885 | -21 | 218 | 95 | 11 | 100 |
| 890 | -18 | 234 | 95 | 14 | 150 |
| 895 | -15 | 240 | 95 | 18 | 220 |
| 900 | -12 | 246 | 95 | 23 | 320 |
| 900 | -9 | 246 | 95 | 30 | 460 |
| 902 | -9 | 248 | 95 | 41 | 680 |

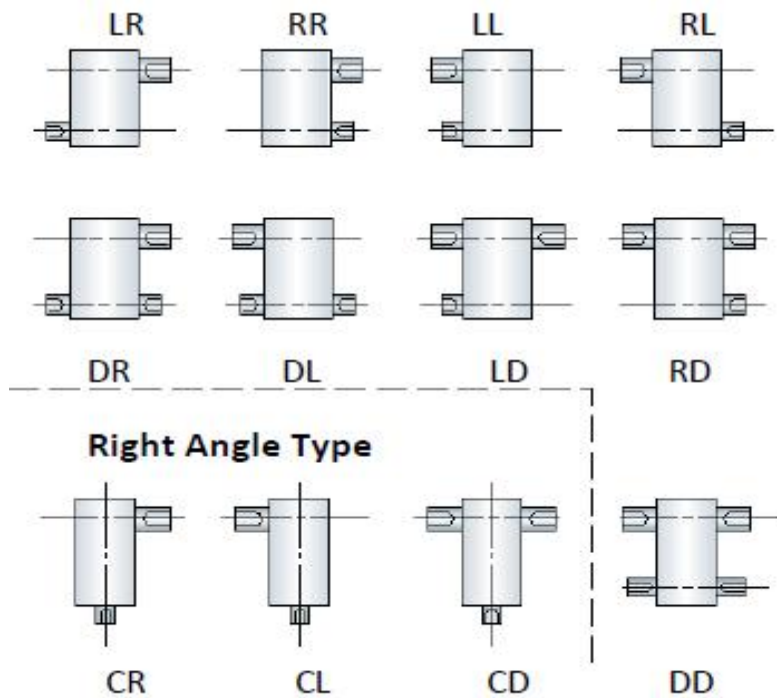
- ✓ گیربکس عرضه شده به صورت خشک بوده و بدون روغن تحویل می گردد لذا قبل از شروع به کار توسط کاربر باید شارژ روغن شود.
- ✓ توصیه می شود سطح روغن بعد از پر کردن کنترل شود و در یک ساعت اول کارکرد مقدار آن برای کافی بودن تا حد مورد نیاز کنترل شود.
- ✓ ویسکوزیته روغن مورد استفاده باید در دمای 5 تا 40 درجه 150 تا SAE 220 باشد.
- ✓ روغنکاری صحیح به کارکرد خوب گیربکس و طولانی شدن عمر آن کمک می کند.
- ✓ روغن دستگاه در مرحله اول پس از 200 ساعت و در مراحل بعدی پس از 1500 ساعت کارکرد باید تعویض شود.

Example of Unit Identification:



Shaft Arrangement:

Parallel Shaft Type (Horizontal)

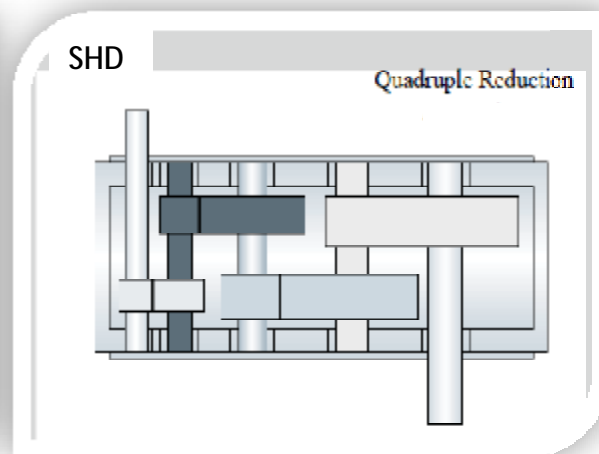
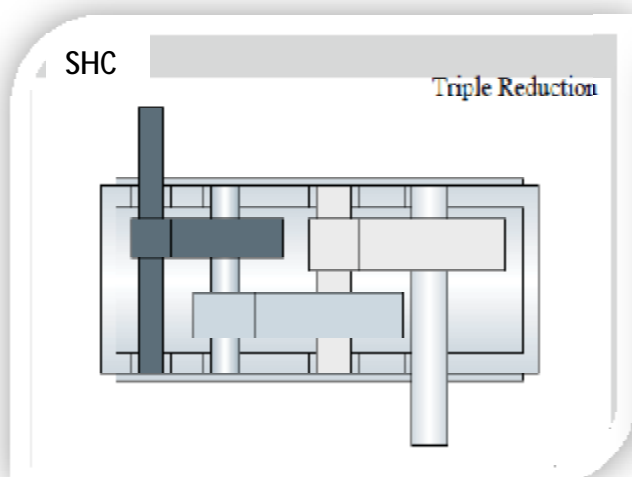
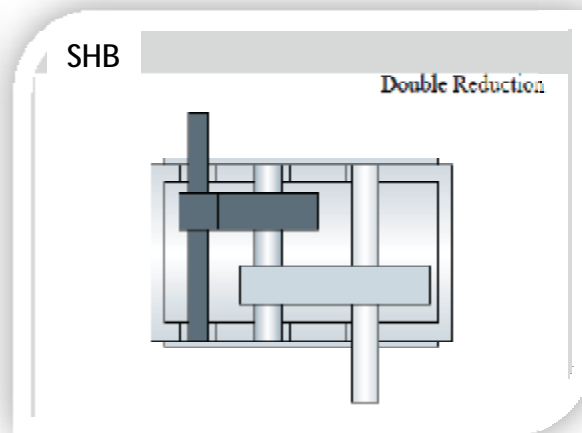
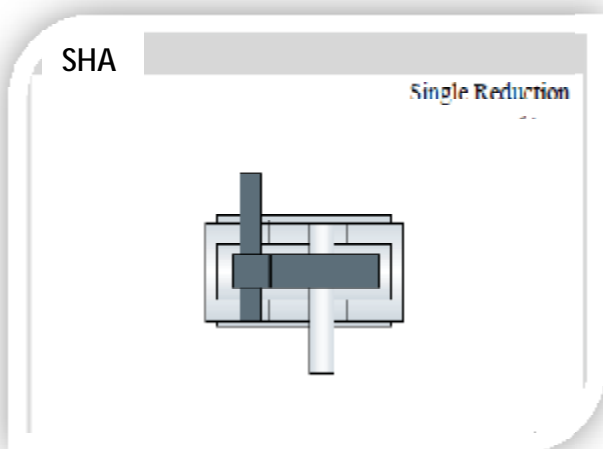


نوع و ساختار:

Type & Construction:

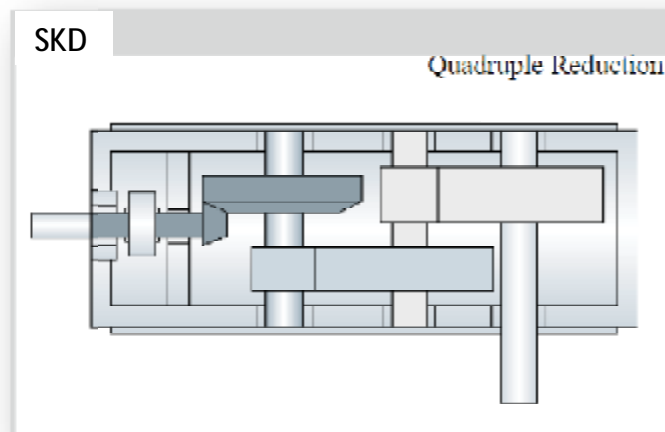
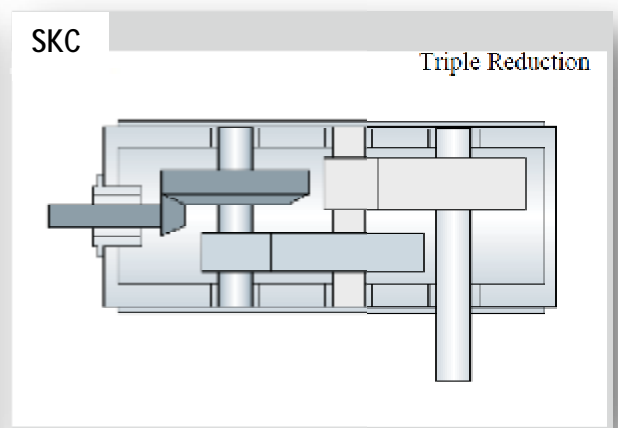
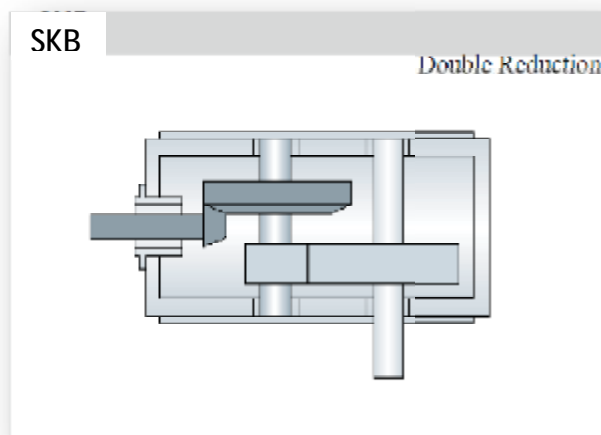
1) Parallel Shaft Type : SH

نوع شافت مستقیم :



2) Right Angle Type : SK

نوع شافت عمود :





Single Reduction (SHA)

Permissible Transmitting Power Ratings

Unit:Kw

| Norminal ratio | speed | | Gear unit size | | | | | | | | |
|----------------|-----------|------------|--------------------------|-----|-----|-----|------|------|------|------|------|
| | Input rpm | Output rpm | 12 | 16 | 18 | 22 | 26 | 32 | 38 | 45 | 50 |
| | | | Mechanical power ratings | | | | | | | | |
| 2 | 1400 | 700 | 166 | 351 | 555 | 941 | 1418 | 3096 | 4598 | 6929 | - |
| | 900 | 450 | 108 | 228 | 348 | 606 | 906 | 1992 | 2946 | 4440 | - |
| 2.24 | 1400 | 625 | 154 | 309 | 470 | 856 | 1299 | 2246 | 4233 | 6339 | - |
| | 900 | 402 | 101 | 204 | 300 | 546 | 834 | 1512 | 2712 | 4062 | - |
| 2.5 | 1400 | 560 | 138 | 267 | 414 | 772 | 1173 | 2092 | 3685 | 5749 | - |
| | 900 | 360 | 88 | 168 | 264 | 498 | 756 | 1244 | 2364 | 3684 | - |
| 2.8 | 1400 | 500 | 138 | 263 | 410 | 780 | 1347 | 2299 | 3966 | 6052 | 7672 |
| | 900 | 321 | 76 | 144 | 228 | 426 | 738 | 1260 | 2172 | 3318 | 4206 |
| 3.15 | 1400 | 444 | 98 | 182 | 316 | 568 | 822 | 1776 | 2850 | 4598 | 5560 |
| | 900 | 286 | 62 | 120 | 204 | 366 | 618 | 1140 | 1824 | 2946 | 3564 |
| 3.55 | 1400 | 394 | 89 | 154 | 266 | 491 | 856 | 1334 | 2457 | 3706 | 4787 |
| | 900 | 254 | 56 | 102 | 174 | 312 | 546 | 858 | 1572 | 2376 | 3072 |

Parallel Shaft

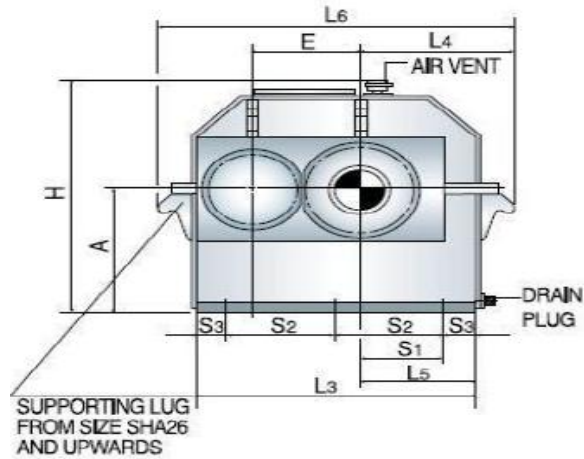
Single Reduction (SHA)

Permissible Transmitting Power Ratings

| Norminal ratio | speed | | Gear unit size | | | | | | | | |
|----------------|-----------|------------|--------------------------|-----|-----|-----|-----|------|------|------|------|
| | Input rpm | Output rpm | 12 | 16 | 18 | 22 | 26 | 32 | 38 | 45 | 50 |
| | | | Mechanical power ratings | | | | | | | | |
| 4 | 1400 | 350 | 84 | 139 | 238 | 435 | 723 | 1274 | 2092 | 3446 | 4310 |
| | 900 | 225 | 53 | 88 | 150 | 276 | 468 | 828 | 1344 | 2208 | 2760 |
| 4.5 | 1400 | 311 | 67 | 121 | 203 | 343 | 617 | 1039 | 1867 | 2703 | 3573 |
| | 900 | 200 | 44 | 78 | 132 | 222 | 396 | 666 | 1188 | 1734 | 2292 |
| 5 | 1400 | 280 | 54 | 103 | 175 | 302 | 534 | 928 | 1530 | 2359 | 6625 |
| | 900 | 180 | 34 | 66 | 114 | 192 | 342 | 540 | 984 | 1512 | 1920 |
| 5.6 | 1400 | 250 | 47 | 84 | 154 | 253 | 463 | 737 | 1264 | 2113 | 2555 |
| | 900 | 161 | 30 | 53 | 101 | 162 | 294 | 474 | 864 | 1356 | 1638 |
| 6.3 | 1400 | 222 | 37 | 70 | 168 | 217 | 393 | 625 | 1102 | 1624 | 2232 |
| | 900 | 143 | 24 | 44 | 89 | 138 | 252 | 402 | 708 | 1026 | 1428 |

Unit:Kw

Parallel Shaft (SHA)



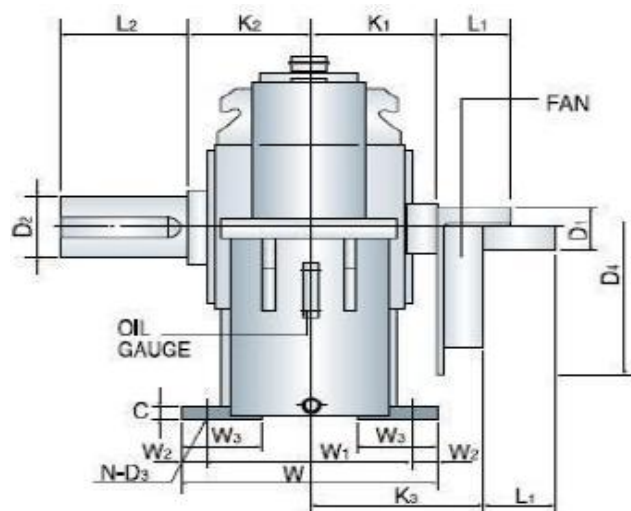
Unit:mm

| Unit size | High speed shaft | | | | | | | | |
|-----------|------------------|----------------|-------|-----------------|----------------|-------|----------------|----------------|-------|
| | Ratio: 2-2.8 | | | Ratio: 3.15-4.5 | | | Ratio: 5-6.3 | | |
| | D ₁ | L ₁ | Key | D ₁ | L ₁ | Key | D ₁ | L ₁ | Key |
| 12 | 45 | 70 | 14×9 | 35 | 60 | 10×8 | 30 | 50 | 8×7 |
| 16 | 55 | 90 | 16×10 | 45 | 70 | 14×9 | 35 | 60 | 10×8 |
| 18 | 60 | 105 | 18×11 | 55 | 90 | 16×10 | 45 | 70 | 14×9 |
| 22 | 75 | 120 | 20×12 | 65 | 105 | 18×11 | 50 | 80 | 14×9 |
| 26 | 85 | 140 | 22×14 | 75 | 120 | 20×12 | 60 | 105 | 18×11 |
| 32 | 105 | 180 | 28×16 | 95 | 160 | 25×14 | 75 | 120 | 20×12 |
| 38 | 125 | 210 | 32×18 | 110 | 180 | 28×16 | 90 | 160 | 25×14 |
| 45 | 145 | 240 | 36×20 | 125 | 210 | 32×18 | 100 | 180 | 28×16 |
| 50 | 155 | 240 | 40×22 | 135 | 210 | 36×20 | 115 | 200 | 32×18 |

Unit:mm

| UNIT SIZE | Dimensions | | | | | | | | | | |
|-----------|------------|----------------|----------------|----------------|----------------|----------------|----------------|-----|------|-----|----|
| | E | K ₁ | K ₂ | L ₃ | L ₄ | L ₅ | L ₆ | A | H | W | C |
| 12 | 125 | 120 | 110 | 370 | 220 | 140 | 530 | 160 | 330 | 235 | 15 |
| 16 | 160 | 135 | 130 | 450 | 250 | 170 | 610 | 200 | 405 | 275 | 15 |
| 18 | 185 | 155 | 145 | 510 | 275 | 195 | 670 | 250 | 490 | 330 | 20 |
| 22 | 220 | 180 | 170 | 600 | 305 | 225 | 760 | 315 | 595 | 370 | 20 |
| 26 | 265 | 200 | 190 | 690 | 340 | 260 | 850 | 355 | 670 | 410 | 28 |
| 32 | 320 | 240 | 220 | 840 | 400 | 320 | 1000 | 400 | 780 | 480 | 28 |
| 38 | 385 | 270 | 250 | 970 | 440 | 360 | 1130 | 500 | 950 | 530 | 28 |
| 45 | 450 | 310 | 290 | 1150 | 540 | 440 | 1350 | 560 | 1070 | 620 | 35 |
| 50 | 500 | 335 | 320 | 1280 | 590 | 490 | 1480 | 630 | 1190 | 670 | 35 |

SHA



Unit:mm

| Unit size | LOW SPEED SHAFT | | | |
|-----------|-----------------|----------------|----------------|-------|
| | Ratio: 2-2.8 | | | |
| | WT(kg) | D ₂ | L ₂ | Key |
| 12 | 95 | 55 | 90 | 16×10 |
| 16 | 170 | 70 | 120 | 20×12 |
| 18 | 280 | 85 | 140 | 22×14 |
| 22 | 395 | 100 | 180 | 28×16 |
| 26 | 625 | 120 | 210 | 32×18 |
| 32 | 1020 | 140 | 240 | 36×20 |
| 38 | 1490 | 155 | 240 | 40×22 |
| 45 | 2260 | 190 | 310 | 45×25 |
| 50 | 3100 | 210 | 350 | 50×28 |

Unit:mm

| UNIT SIZE | Dimensions | | | | | | | | | Fan cooling | | Oil cap |
|-----------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----|----------------|----------------|-------|---------|
| | S ₁ | S ₂ | S ₃ | W ₁ | W ₂ | W ₃ | D ₃ | N | D ₄ | K ₃ | Liter | |
| 12 | 95 | 140 | 45 | 195 | 20 | 60 | 14 | 6 | 265 | 200 | 3.2 | |
| 16 | 125 | 180 | 45 | 230 | 23 | 90 | 18 | 6 | 310 | 225 | 5.5 | |
| 18 | 140 | 200 | 55 | 270 | 30 | 110 | 22 | 6 | 335 | 245 | 11 | |
| 22 | 175 | 250 | 50 | 310 | 30 | 120 | 22 | 6 | 480 | 270 | 21 | |
| 26 | 195 | 280 | 65 | 350 | 30 | 130 | 26 | 6 | 480 | 290 | 27 | |
| 32 | 260 | 240 | 60 | 420 | 30 | 150 | 26 | 8 | 540 | 330 | 46 | |
| 38 | 280 | 270 | 80 | 470 | 30 | 155 | 26 | 8 | 540 | 360 | 73 | |
| 45 | 365 | 250 | 75 | 550 | 35 | 180 | 33 | 10 | 635 | 400 | 100 | |
| 50 | 420 | 285 | 70 | 600 | 35 | 190 | 33 | 10 | 735 | 425 | 150 | |



Double Reduction (SHB)

Permissible Transmitting Power Ratings

Unit:Kw

| Normalinal ratio | speed | | Gear unit size | | | | | | | | | | |
|------------------|-----------|------------|--------------------------|-----|-----|-----|------|------|------|------|------|------|------|
| | Input rpm | Output rpm | 18 | 22 | 26 | 32 | 38 | 45 | 50 | 56 | 61 | 66 | 71 |
| | | | Mechanical power ratings | | | | | | | | | | |
| 7.1 | 1400 | 197 | 168 | 295 | 463 | 793 | 1256 | 2415 | 3039 | 3938 | 5265 | 5763 | 6248 |
| | 900 | 127 | 108 | 186 | 294 | 510 | 804 | 1548 | 1944 | 2520 | 3372 | 3696 | 4008 |
| 8 | 1400 | 175 | 147 | 260 | 407 | 688 | 1179 | 2141 | 2696 | 3440 | 4745 | 5188 | 5686 |
| | 900 | 113 | 94 | 166 | 262 | 438 | 756 | 1374 | 1728 | 2250 | 3042 | 3324 | 3648 |
| 9 | 1400 | 156 | 136 | 236 | 365 | 611 | 1074 | 1895 | 2429 | 3229 | 4261 | 4675 | 6718 |
| | 900 | 100 | 88 | 150 | 234 | 390 | 684 | 1218 | 1560 | 2070 | 2730 | 2994 | 4308 |
| 10 | 1400 | 140 | 126 | 204 | 323 | 548 | 941 | 1671 | 2211 | 2948 | 3889 | 4233 | 6016 |
| | 900 | 90 | 82 | 132 | 210 | 354 | 606 | 1068 | 1416 | 1890 | 2496 | 2712 | 3858 |
| 11.2 | 1400 | 125 | 105 | 183 | 288 | 491 | 856 | 1530 | 1938 | 2555 | 3482 | 3742 | 5658 |
| | 900 | 80 | 66 | 114 | 186 | 312 | 546 | 984 | 1242 | 1638 | 2232 | 2400 | 3288 |
| 12.5 | 1400 | 112 | 103 | 164 | 257 | 442 | 744 | 1334 | 1727 | 2289 | 3047 | 3271 | 4612 |
| | 900 | 72 | 66 | 106 | 164 | 282 | 480 | 853 | 1110 | 1470 | 1950 | 2100 | 2958 |



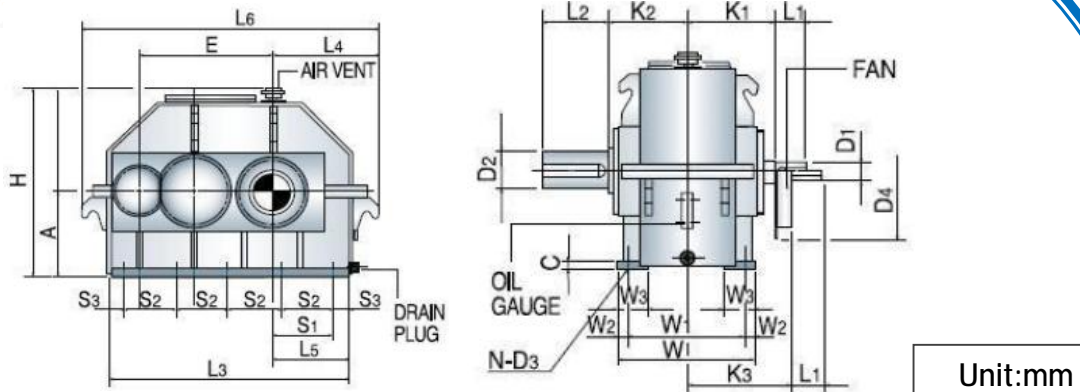
Double Reduction (SHB)

Permissible Transmitting Power Ratings

Unit:Kw

| Norminal ratio | speed | | Gear unit size | | | | | | | | | | |
|----------------|-----------|------------|--------------------------|-----|-----|-----|-----|------|------|------|------|------|------|
| | Input rpm | Output rpm | 18 | 22 | 26 | 32 | 38 | 45 | 50 | 56 | 61 | 66 | 71 |
| | | | Mechanical power ratings | | | | | | | | | | |
| 14 | 1400 | 100 | 90 | 147 | 250 | 393 | 681 | 1130 | 1565 | 1938 | 2752 | 2960 | 4289 |
| | 900 | 64 | 56 | 94 | 160 | 252 | 432 | 726 | 1002 | 1242 | 1764 | 2046 | 2748 |
| 16 | 1400 | 87.5 | 77 | 136 | 225 | 351 | 604 | 1060 | 1285 | 1720 | 2548 | 3210 | 3818 |
| | 900 | 56 | 55 | 88 | 144 | 222 | 390 | 678 | 822 | 1104 | 1632 | 1908 | 2448 |
| 18 | 1400 | 78 | 70 | 118 | 197 | 309 | 540 | 973 | 1109 | 1493 | 2260 | 2583 | 3391 |
| | 900 | 50 | 46 | 76 | 127 | 198 | 346 | 624 | 714 | 958 | 1446 | 1656 | 2172 |
| 20 | 1400 | 70 | 58 | 108 | 178 | 308 | 477 | 865 | 1032 | 1395 | 1985 | 2267 | 2892 |
| | 900 | 45 | 38 | 70 | 114 | 196 | 306 | 552 | 660 | 882 | 1272 | 1452 | 1854 |
| 22.4 | 1400 | 63 | 56 | 82 | 150 | 246 | 419 | 639 | 928 | 1137 | 1622 | 1966 | 2457 |
| | 900 | 40 | 34 | 53 | 96 | 158 | 264 | 408 | 598 | 732 | 1039 | 1260 | 1572 |
| 25 | 1400 | 56 | 48 | 73 | 136 | 222 | 379 | 580 | 807 | 1004 | 1474 | 1769 | 2281 |
| | 900 | 36 | 30 | 46 | 88 | 142 | 244 | 372 | 516 | 642 | 946 | 1134 | 1462 |
| 28 | 1400 | 50 | 42 | 64 | 122 | 194 | 337 | 512 | 737 | 910 | 1298 | 1563 | 2015 |
| | 900 | 32 | 26 | 42 | 84 | 126 | 216 | 328 | 472 | 582 | 832 | 1002 | 1291 |

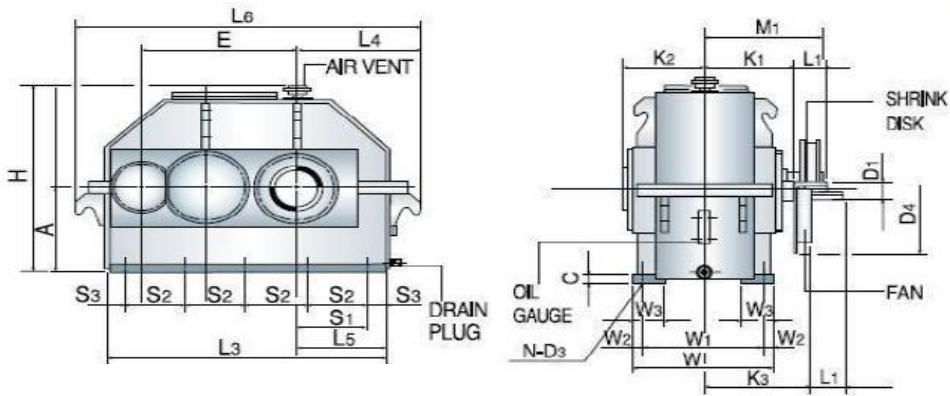
Parallel Shaft (SHB)



| Unit size | High speed shaft | | | | | | | | |
|-----------|------------------|----------------|-------|------------------|----------------|-------|----------------|----------------|-------|
| | Ratio: 7.1-11.2 | | | Ratio: 12.5-22.4 | | | Ratio: 25-28 | | |
| | D ₁ | L ₁ | Key | D ₁ | L ₁ | Key | D ₁ | L ₁ | Key |
| 18 | 45 | 70 | 14×9 | 35 | 60 | 10×8 | 30 | 50 | 8×7 |
| 22 | 55 | 90 | 16×10 | 45 | 70 | 14×9 | 35 | 60 | 10×8 |
| 26 | 65 | 105 | 18×11 | 50 | 80 | 14×9 | 42 | 70 | 12×8 |
| 32 | 75 | 120 | 20×12 | 60 | 105 | 18×11 | 50 | 80 | 14×9 |
| 38 | 90 | 160 | 25×14 | 75 | 120 | 20×12 | 60 | 100 | 18×11 |
| 45 | 100 | 180 | 28×16 | 90 | 160 | 25×14 | 70 | 120 | 20×12 |
| 50 | 120 | 210 | 32×18 | 110 | 180 | 28×16 | 90 | 160 | 25×14 |
| 56 | 130 | 210 | 32×18 | 110 | 180 | 28×16 | 90 | 160 | 25×14 |
| 61 | 150 | 240 | 36×20 | 120 | 210 | 32×18 | 100 | 180 | 28×16 |
| 66 | 150 | 240 | 36×20 | 120 | 210 | 32×18 | 100 | 180 | 28×16 |
| 71 | 170 | 270 | 40×22 | 140 | 240 | 36×20 | 110 | 180 | 28×16 |

| UNIT SIZE | Dimensions | | | | | | | | | | |
|-----------|------------|----------------|----------------|----------------|----------------|----------------|----------------|-----|------|------|-----|
| | E | K ₁ | K ₂ | L ₃ | L ₄ | L ₅ | L ₆ | A | H | W | C |
| 18 | 310 | 190 | 180 | 610 | 270 | 190 | 770 | 200 | 452 | 292 | 20 |
| 28 | 380 | 220 | 200 | 730 | 310 | 230 | 890 | 250 | 561 | 332 | 20 |
| 26 | 450 | 260 | 240 | 840 | 340 | 260 | 1000 | 280 | 280 | 640 | 408 |
| 32 | 540 | 305 | 280 | 1000 | 380 | 300 | 1160 | 355 | 765 | 490 | 28 |
| 38 | 650 | 330 | 310 | 1170 | 450 | 350 | 1370 | 400 | 860 | 530 | 28 |
| 45 | 770 | 390 | 370 | 1390 | 510 | 410 | 1590 | 500 | 1019 | 650 | 35 |
| 50 | 885 | 420 | 400 | 1570 | 575 | 455 | 1810 | 560 | 1119 | 710 | 35 |
| 56 | 940 | 470 | 440 | 1680 | 620 | 500 | 1920 | 630 | 1239 | 780 | 40 |
| 61 | 1060 | 525 | 500 | 1870 | 670 | 550 | 2110 | 710 | 1379 | 900 | 45 |
| 66 | 1110 | 530 | 510 | 1990 | 710 | 590 | 2230 | 750 | 1469 | 920 | 45 |
| 71 | 1205 | 580 | 560 | 2140 | 775 | 635 | 2480 | 800 | 1549 | 1010 | 50 |

SHB



Unit:mm

| Unit size | LOW SPEED SHAFT | | | | |
|-----------|-----------------|----------------|----------------|-------|--------------|
| | Solis shaft | | | | Hollow shaft |
| | WT(kg) | D ₂ | L ₂ | Key | WT(kg) |
| 18 | 285 | 80 | 140 | 22×14 | 262 |
| 22 | 470 | 100 | 180 | 28×16 | 432 |
| 26 | 745 | 120 | 210 | 32×18 | 685 |
| 32 | 1300 | 140 | 240 | 36×20 | 1196 |
| 38 | 1905 | 170 | 270 | 40×22 | 1753 |
| 45 | 3150 | 200 | 350 | 45×25 | 2898 |
| 50 | 4160 | 220 | 350 | 50×28 | 3827 |
| 56 | 5170 | 240 | 400 | 56×32 | 4756 |
| 61 | 7100 | 270 | 450 | 63×32 | 6531 |
| 66 | 7740 | 290 | 450 | 63×32 | 1721 |
| 71 | 9710 | 310 | 500 | 70×36 | 8933 |

Unit:mm

| UNIT SIZE | Dimensions | | | | | | | | | Fan cooling | | Oil cap |
|-----------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----|----------------|----------------|-------|---------|
| | S ₁ | S ₂ | S ₃ | W ₁ | W ₂ | W ₃ | D ₃ | N | D ₄ | K ₃ | Liter | |
| 18 | 155 | 135 | 35 | 260 | 16 | 56 | 14 | 10 | 350 | 280 | 13 | |
| 22 | 195 | 165 | 35 | 290 | 21 | 66 | 18 | 10 | 430 | 310 | 21 | |
| 26 | 220 | 190 | 40 | 355 | 26.5 | 89 | 22 | 10 | 430 | 350 | 32 | |
| 32 | 250 | 225 | 50 | 430 | 30 | 95 | 26 | 10 | 480 | 395 | 65 | |
| 38 | 305 | 270 | 45 | 465 | 32.5 | 100 | 26 | 10 | 480 | 420 | 85 | |
| 45 | 365 | 325 | 45 | 570 | 40 | 120 | 33 | 10 | 540 | 480 | 170 | |
| 50 | 390 | 360 | 65 | 640 | 35 | 125 | 33 | 10 | 575 | 510 | 240 | |
| 56 | 440 | 390 | 60 | 690 | 45 | 135 | 39 | 10 | 635 | 560 | 330 | |
| 61 | 475 | 430 | 75 | 800 | 50 | 155 | 45 | 10 | 635 | 615 | 470 | |
| 66 | 515 | 460 | 75 | 820 | 50 | 160 | 45 | 10 | 735 | 620 | 550 | |
| 71 | 545 | 490 | 90 | 910 | 50 | 168 | 45 | 10 | 735 | 670 | 680 | |



Triple Reduction (SHC)

Permissible Transmitting Power Ratings

| Norminal ratio | speed | | Gear unit size | | | | | | | | | | |
|----------------|-----------|------------|--------------------------|----|-----|-----|-----|-----|-----|------|------|------|------|
| | Input rpm | Output rpm | 18 | 22 | 26 | 32 | 38 | 45 | 50 | 56 | 61 | 66 | 71 |
| | | | Mechanical power ratings | | | | | | | | | | |
| 28 | 1400 | 50 | 42 | 77 | 124 | 204 | 371 | 570 | 842 | 1027 | 1563 | 1761 | 2368 |
| | 900 | 32 | 28 | 48 | 79 | 131 | 238 | 366 | 540 | 660 | 1002 | 1128 | 1518 |
| 31.5 | 1400 | 44 | 40 | 70 | 105 | 180 | 266 | 505 | 753 | 906 | 1432 | 1488 | 2087 |
| | 900 | 29 | 28 | 46 | 68 | 116 | 206 | 324 | 482 | 581 | 918 | 952 | 1338 |
| 35.5 | 1400 | 39 | 35 | 63 | 96 | 176 | 314 | 461 | 680 | 814 | 1271 | 1364 | 1888 |
| | 900 | 25 | 23 | 41 | 60 | 112 | 200 | 294 | 436 | 522 | 814 | 876 | 1208 |
| 40 | 1400 | 35 | 30 | 56 | 85 | 154 | 281 | 442 | 603 | 737 | 983 | 1205 | 1706 |
| | 900 | 23 | 20 | 36 | 55 | 98 | 180 | 283 | 386 | 473 | 630 | 772 | 1092 |
| 45 | 1400 | 31 | 28 | 49 | 77 | 136 | 250 | 401 | 541 | 676 | 898 | 1165 | 1526 |
| | 900 | 20 | 18 | 31 | 48 | 86 | 161 | 258 | 346 | 432 | 576 | 744 | 987 |
| 50 | 1400 | 28 | 27 | 44 | 75 | 124 | 225 | 365 | 440 | 510 | 777 | 1017 | 1364 |
| | 900 | 18 | 17 | 29 | 48 | 79 | 145 | 234 | 282 | 328 | 498 | 653 | 876 |

Unit:Kw

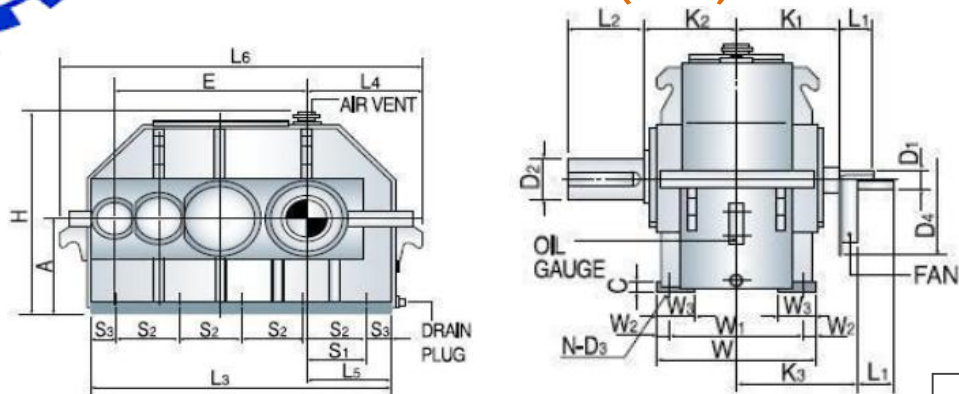
Triple Reduction (SHC)

Permissible Transmitting Power Ratings

Unit:Kw

| Normal ratio | Input rpm | Output rpm | 18 | 22 | 26 | 32 | 38 | 45 | 50 | 56 | 61 | 66 | 71 |
|--------------|-----------|------------|--------------------------|----|----|-----|-----|-----|-----|-----|-----|-----|------|
| | | | Mechanical power ratings | | | | | | | | | | |
| 56 | 1400 | 25 | 22 | 40 | 68 | 115 | 201 | 328 | 433 | 519 | 808 | 914 | 1100 |
| | 900 | 16 | 16 | 26 | 43 | 76 | 128 | 210 | 227 | 334 | 518 | 586 | 704 |
| 63 | 1400 | 22 | 20 | 35 | 62 | 106 | 174 | 285 | 384 | 475 | 735 | 796 | 995 |
| | 900 | 14 | 12 | 23 | 40 | 68 | 112 | 184 | 245 | 295 | 472 | 510 | 637 |
| 71 | 1400 | 20 | 19 | 30 | 54 | 89 | 157 | 253 | 344 | 419 | 646 | 697 | 935 |
| | 900 | 13 | 11 | 19 | 34 | 60 | 100 | 162 | 221 | 268 | 414 | 448 | 600 |
| 80 | 1400 | 18 | 15 | 29 | 48 | 84 | 138 | 232 | 309 | 387 | 571 | 624 | 856 |
| | 900 | 11 | 10 | 18 | 30 | 54 | 89 | 148 | 198 | 248 | 366 | 400 | 548 |
| 90 | 1400 | 16 | 14 | 23 | 42 | 75 | 126 | 201 | 262 | 344 | 508 | 571 | 763 |
| | 900 | 10 | 9 | 16 | 28 | 48 | 80 | 127 | 168 | 221 | 326 | 366 | 488 |
| 100 | 1400 | 14 | - | 21 | 40 | 66 | 112 | 183 | 239 | 297 | 461 | 524 | 662 |
| | 900 | 9 | - | 14 | 25 | 42 | 72 | 116 | 151 | 191 | 295 | 336 | 425 |
| 112 | 1400 | 13 | - | 20 | 34 | 59 | 101 | 163 | 213 | 269 | 402 | 463 | 603 |
| | 900 | 8 | - | 13 | 23 | 36 | 66 | 106 | 138 | 173 | 258 | 296 | 385 |

Parallel Shaft (SHC)

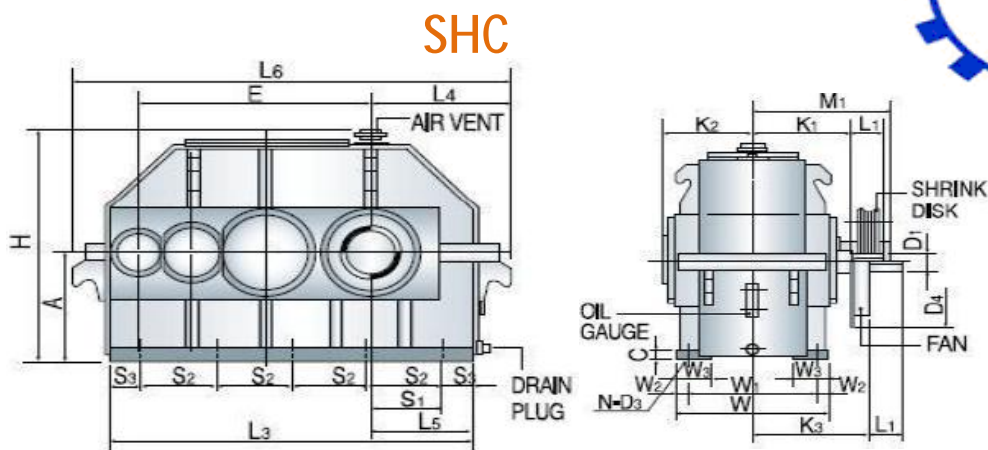


Unit:mm

| Unit size | High speed shaft | | | | | |
|-----------|------------------|----------------|-------|-----------------|----------------|-------|
| | Ratio: 28 - 63 | | | Ratio: 71 - 112 | | |
| | D ₁ | L ₁ | Key | D ₁ | L ₁ | Key |
| 18 | 25 | 40 | 8×7 | 20 | 35 | 6×6 |
| 22 | 30 | 50 | 8×7 | 25 | 40 | 8×7 |
| 26 | 38 | 60 | 10×8 | 28 | 50 | 8×7 |
| 32 | 45 | 70 | 14×9 | 35 | 60 | 10×8 |
| 38 | 5 | 90 | 16×10 | 42 | 70 | 12×8 |
| 45 | 65 | 105 | 18×11 | 50 | 80 | 14×9 |
| 50 | 75 | 120 | 20×12 | 60 | 105 | 18×11 |
| 56 | 80 | 140 | 22×14 | 65 | 105 | 18×11 |
| 61 | 90 | 160 | 25×14 | 75 | 120 | 20×12 |
| 66 | 100 | 180 | 28×16 | 80 | 140 | 22×14 |
| 71 | 110 | 180 | 28×16 | 90 | 160 | 25×14 |

Unit:mm

| UNIT SIZE | Dimensions | | | | | | | | | | |
|-----------|------------|----------------|----------------|----------------|----------------|----------------|----------------|-----|------|-----|----|
| | E | K ₁ | K ₂ | L ₃ | L ₄ | L ₅ | L ₆ | A | H | W | C |
| 18 | 400 | 175 | 170 | 670 | 265 | 185 | 830 | 200 | 445 | 270 | 20 |
| 22 | 505 | 195 | 190 | 820 | 295 | 215 | 980 | 250 | 525 | 310 | 20 |
| 26 | 575 | 220 | 215 | 940 | 335 | 255 | 1100 | 280 | 640 | 360 | 28 |
| 32 | 700 | 260 | 250 | 1130 | 395 | 295 | 1330 | 355 | 740 | 430 | 28 |
| 38 | 835 | 300 | 285 | 1330 | 445 | 345 | 1530 | 400 | 870 | 490 | 28 |
| 45 | 990 | 360 | 350 | 1570 | 530 | 410 | 1810 | 500 | 1030 | 600 | 35 |
| 50 | 1150 | 400 | 390 | 1830 | 620 | 500 | 2070 | 560 | 1125 | 680 | 35 |
| 56 | 1205 | 400 | 390 | 1910 | 645 | 525 | 2150 | 630 | 1230 | 680 | 40 |
| 61 | 1380 | 470 | 460 | 2170 | 715 | 575 | 2450 | 710 | 1370 | 820 | 45 |
| 66 | 1430 | 470 | 460 | 2260 | 755 | 615 | 2540 | 750 | 1470 | 820 | 45 |
| 71 | 1590 | 510 | 500 | 2500 | 810 | 670 | 2780 | 800 | 1570 | 900 | 50 |



Unit:mm

| Unit size | LOW SPEED SHAFT | | | | |
|-----------|-----------------|-------|-------|-------|--------------|
| | Solis shaft | | | | Hollow shaft |
| | WT(kg) | D_2 | L_2 | Key | WT(kg) |
| 18 | 295 | 80 | 140 | 22×14 | 271 |
| 22 | 455 | 100 | 180 | 28×16 | 419 |
| 26 | 730 | 120 | 210 | 32×18 | 672 |
| 32 | 1150 | 140 | 240 | 36×20 | 1058 |
| 38 | 1750 | 170 | 270 | 40×22 | 1610 |
| 45 | 3150 | 200 | 350 | 45×25 | 2899 |
| 50 | 4120 | 220 | 350 | 50×28 | 3790 |
| 56 | 4925 | 240 | 400 | 56×32 | 4531 |
| 61 | 7395 | 260 | 450 | 63×32 | 6803 |
| 66 | 8345 | 280 | 450 | 63×32 | 7677 |
| 71 | 10650 | 300 | 500 | 70×36 | 9798 |

Unit:mm

| UNIT SIZE | Dimensions | | | | | | | | Fan cooling | | Oil cap |
|-----------|------------|-------|-------|-------|-------|-------|-------|----|-------------|-------|---------|
| | S_1 | S_2 | S_3 | W_1 | W_2 | W_3 | D_3 | N | D_4 | K_3 | Liter |
| 18 | 150 | 200 | 35 | 230 | 20 | 55 | 14 | 8 | 265 | 255 | 12 |
| 22 | 155 | 175 | 60 | 270 | 20 | 60 | 18 | 10 | 310 | 285 | 24 |
| 26 | 205 | 210 | 50 | 310 | 25 | 70 | 22 | 10 | 335 | 310 | 43 |
| 32 | 220 | 245 | 75 | 370 | 30 | 90 | 26 | 10 | 335 | 350 | 70 |
| 38 | 260 | 290 | 85 | 430 | 30 | 95 | 26 | 10 | 430 | 390 | 110 |
| 45 | 345 | 360 | 65 | 520 | 40 | 125 | 33 | 10 | 430 | 450 | 190 |
| 50 | 425 | 420 | 75 | 600 | 40 | 140 | 33 | 10 | 480 | 490 | 280 |
| 56 | 450 | 440 | 75 | 590 | 45 | 140 | 39 | 10 | 480 | 490 | 340 |
| 61 | 490 | 500 | 85 | 710 | 55 | 175 | 45 | 10 | 540 | 560 | 530 |
| 66 | 525 | 520 | 90 | 710 | 55 | 175 | 45 | 10 | 540 | 560 | 590 |
| 71 | 580 | 580 | 90 | 790 | 55 | 190 | 45 | 10 | 575 | 600 | 740 |



Quadruple Reduction (SHD)

Permissible Transmitting Power Ratings

Unit:Kw

| Normal ratio | speed | | Gear unit size | | | | | | | | | |
|--------------|-----------|------------|--------------------------|----|----|-----|-----|-----|-----|-----|-----|-----|
| | Input rpm | Output rpm | 22 | 26 | 32 | 38 | 45 | 50 | 56 | 61 | 66 | 71 |
| | | | Mechanical power ratings | | | | | | | | | |
| 112 | 1400 | 13 | 21 | 34 | 60 | 103 | 164 | 230 | 283 | 425 | 484 | 644 |
| | 900 | 8 | 13 | 22 | 38 | 66 | 105 | 148 | 181 | 272 | 310 | 412 |
| 125 | 1400 | 11 | 18 | 29 | 48 | 87 | 132 | 204 | 249 | 378 | 426 | 572 |
| | 900 | 7 | 11 | 18 | 31 | 55 | 85 | 130 | 160 | 242 | 273 | 367 |
| 140 | 1400 | 10 | 16 | 25 | 42 | 76 | 118 | 184 | 220 | 348 | 360 | 507 |
| | 900 | 6 | 11 | 16 | 27 | 48 | 76 | 117 | 141 | 223 | 231 | 325 |
| 160 | 1400 | 9 | 15 | 22 | 41 | 73 | 105 | 163 | 195 | 304 | 328 | 452 |
| | 900 | 6 | 9 | 14 | 26 | 46 | 68 | 104 | 125 | 195 | 210 | 290 |
| 180 | 1400 | 8 | 13 | 20 | 35 | 64 | 102 | 145 | 177 | 235 | 289 | 410 |
| | 900 | 5 | 8 | 13 | 23 | 42 | 66 | 92 | 113 | 151 | 186 | 262 |
| 200 | 1400 | 7 | 12 | 18 | 32 | 59 | 95 | 131 | 164 | 218 | 283 | 371 |
| | 900 | 5 | 7 | 11 | 20 | 37 | 60 | 84 | 105 | 140 | 181 | 237 |
| 224 | 1400 | 6 | 11 | 18 | 29 | 53 | 84 | 105 | 123 | 187 | 246 | 329 |
| | 900 | 4 | 7 | 11 | 18 | 34 | 54 | 68 | 79 | 120 | 157 | 211 |



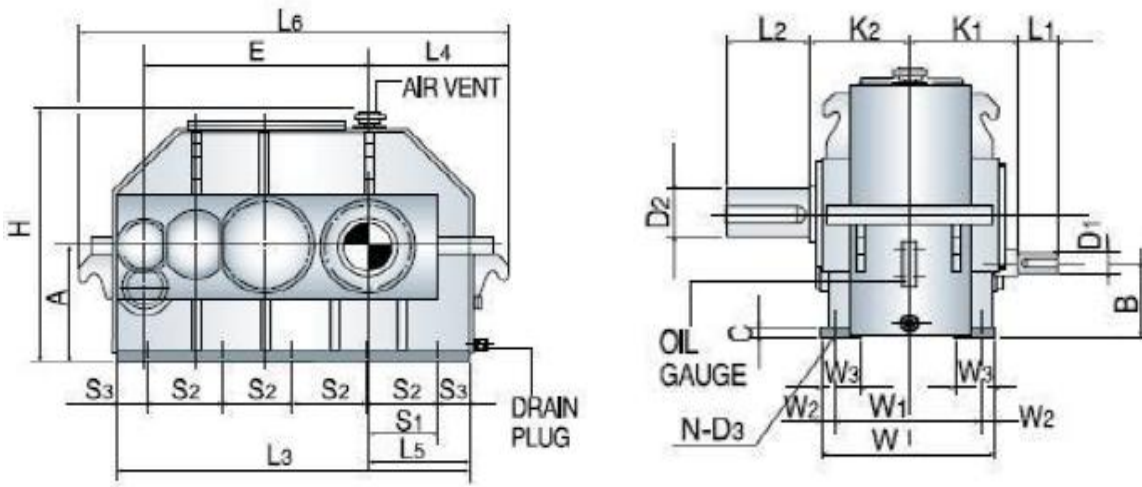
Quadruple Reduction (SHD)

Permissible Transmitting Power Ratings

Unit:Kw

| Norminal ratio | speed | | Gear unit size | | | | | | | | | |
|----------------|-----------|------------|--------------------------|----|----|-----|----|-----|-----|-----|-----|-----|
| | Input rpm | Output rpm | 22 | 26 | 32 | 38 | 45 | 50 | 56 | 61 | 66 | 71 |
| | | | Mechanical power ratings | | | | | | | | | |
| 250 | 1400 | 6 | 9 | 15 | 27 | 47 | 76 | 104 | 125 | 195 | 221 | 266 |
| | 900 | 4 | 6 | 10 | 17 | 130 | 49 | 67 | 81 | 125 | 142 | 171 |
| 280 | 1400 | 5 | 8 | 14 | 25 | 41 | 67 | 94 | 111 | 178 | 194 | 242 |
| | 900 | 3 | 5 | 9 | 16 | 26 | 43 | 60 | 72 | 114 | 124 | 155 |
| 315 | 1400 | 4 | 7 | 13 | 22 | 36 | 60 | 84 | 102 | 157 | 170 | 228 |
| | 900 | 3 | 5 | 8 | 14 | 24 | 38 | 54 | 65 | 101 | 109 | 146 |
| 355 | 1400 | 4 | 7 | 12 | 20 | 33 | 54 | 85 | 95 | 139 | 152 | 208 |
| | 900 | 3 | 4 | 7 | 13 | 21 | 34 | 48 | 60 | 89 | 97 | 133 |
| 400 | 1400 | 4 | 6 | 11 | 18 | 29 | 47 | 63 | 84 | 124 | 139 | 185 |
| | 900 | 2 | 4 | 6 | 11 | 19 | 30 | 41 | 54 | 79 | 89 | 119 |
| 450 | 1400 | 3 | 6 | 9 | 15 | 26 | 42 | 56 | 71 | 110 | 125 | 159 |
| | 900 | 2 | 3 | 6 | 10 | 16 | 27 | 37 | 45 | 71 | 81 | 102 |
| 500 | 1400 | 3 | 5 | 8 | 14 | 23 | 39 | 53 | 66 | 98 | 111 | 146 |
| | 900 | 2 | 3 | 5 | 9 | 15 | 25 | 34 | 42 | 63 | 72 | 93 |

Parallel Shaft (SHD)



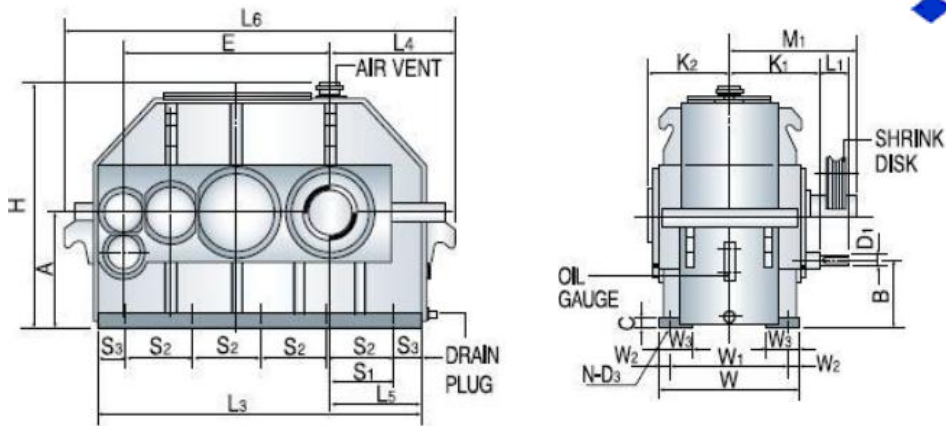
Unit:mm

| Unit size | High speed shaft | | | | | |
|-----------|------------------|----------------|-------|----------------|----------------|-------|
| | Ratio: | | | Ratio: | | |
| | D ₁ | L ₁ | Key | D ₁ | L ₁ | Key |
| 22 | 22 | 35 | 6×6 | 19 | 35 | 6×6 |
| 26 | 25 | 40 | 8×7 | 20 | 35 | 6×6 |
| 32 | 32 | 60 | 10×8 | 28 | 50 | 8×7 |
| 38 | 38 | 60 | 10×8 | 30 | 50 | 8×7 |
| 45 | 45 | 70 | 14×9 | 35 | 60 | 10×8 |
| 50 | 55 | 90 | 16×10 | 42 | 70 | 12×8 |
| 56 | 60 | 105 | 18×11 | 45 | 70 | 14×9 |
| 61 | 65 | 105 | 18×11 | 50 | 80 | 14×9 |
| 66 | 70 | 110 | 20×12 | 55 | 90 | 16×10 |
| 71 | 75 | 120 | 20×12 | 60 | 105 | 18×11 |

Unit:mm

| UNIT SIZE | Dimensions | | | | | | | | | | |
|-----------|------------|----------------|----------------|----------------|----------------|----------------|----------------|-----|------|-----|----|
| | E | K ₁ | K ₂ | L ₃ | L ₄ | L ₅ | L ₆ | A | H | W | C |
| 22 | 505 | 190 | 190 | 810 | 295 | 215 | 970 | 250 | 525 | 310 | 20 |
| 26 | 575 | 220 | 215 | 930 | 335 | 225 | 1090 | 315 | 640 | 360 | 28 |
| 32 | 700 | 260 | 250 | 1130 | 395 | 295 | 1330 | 355 | 740 | 430 | 28 |
| 38 | 825 | 300 | 285 | 1310 | 445 | 345 | 1510 | 400 | 870 | 490 | 35 |
| 45 | 990 | 360 | 350 | 1560 | 530 | 410 | 1800 | 500 | 1030 | 600 | 35 |
| 50 | 1150 | 400 | 390 | 1830 | 620 | 500 | 2070 | 560 | 1140 | 680 | 40 |
| 56 | 1205 | 400 | 390 | 1920 | 655 | 525 | 2180 | 630 | 1230 | 680 | 45 |
| 61 | 1380 | 470 | 460 | 2170 | 705 | 575 | 2430 | 710 | 1380 | 820 | 45 |
| 66 | 1430 | 470 | 460 | 2270 | 745 | 615 | 2530 | 750 | 1470 | 820 | 45 |
| 71 | 1590 | 510 | 500 | 2520 | 800 | 670 | 2780 | 800 | 1570 | 900 | 50 |

SHD



Unit:mm

| Unit size | LOW SPEED SHAFT | | | | |
|-----------|-----------------|----------------|----------------|-------|--------------|
| | Solis shaft | | | | Hollow shaft |
| | WT(kg) | D ₂ | L ₂ | Key | WT(kg) |
| 22 | 465 | 100 | 180 | 28×16 | 442 |
| 26 | 660 | 120 | 210 | 32×18 | 627 |
| 32 | 1200 | 140 | 240 | 36×20 | 1140 |
| 38 | 1800 | 170 | 270 | 40×22 | 1710 |
| 48 | 2800 | 200 | 350 | 45×25 | 2660 |
| 50 | 4250 | 220 | 350 | 50×28 | 3910 |
| 56 | 5150 | 240 | 400 | 56×32 | 4738 |
| 61 | 6950 | 270 | 450 | 63×32 | 6394 |
| 66 | 8030 | 290 | 450 | 63×32 | 7388 |
| 71 | 10500 | 310 | 500 | 70×36 | 9660 |

Unit:mm

| UNIT SIZE | Dimensions | | | | | | | | | Oil cap |
|-----------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----|-----|---------|
| | S ₁ | S ₂ | S ₃ | W ₁ | W ₂ | W ₃ | D ₃ | N | B | Liter |
| 22 | 160 | 175 | 55 | 270 | 20 | 60 | 18 | 10 | 160 | 26 |
| 26 | 190 | 200 | 65 | 310 | 25 | 70 | 22 | 10 | 225 | 45 |
| 32 | 230 | 250 | 65 | 370 | 30 | 90 | 26 | 10 | 243 | 83 |
| 38 | 290 | 300 | 55 | 430 | 30 | 95 | 26 | 10 | 275 | 155 |
| 48 | 330 | 350 | 80 | 520 | 40 | 125 | 33 | 10 | 340 | 275 |
| 50 | 425 | 420 | 75 | 600 | 40 | 140 | 33 | 10 | 375 | 380 |
| 56 | 445 | 480 | 80 | 590 | 45 | 140 | 39 | 10 | 445 | 500 |
| 61 | 490 | 500 | 85 | 710 | 55 | 175 | 45 | 10 | 490 | 560 |
| 66 | 520 | 520 | 95 | 710 | 55 | 175 | 45 | 10 | 530 | 620 |
| 71 | 570 | 580 | 100 | 790 | 55 | 190 | 45 | 10 | 535 | 940 |



Double Reduction (SKB)

Permissible Transmitting Power Ratings

Unit:Kw

| Normal ratio | speed | | Gear unit size | | | | | | | | |
|--------------|-----------|------------|--------------------------|-----|-----|-----|------|------|------|------|------|
| | Input rpm | Output rpm | 18 | 22 | 26 | 32 | 38 | 45 | 50 | 56 | 61 |
| | | | Mechanical power ratings | | | | | | | | |
| 5.6 | 1400 | 250 | 135 | 225 | 338 | 737 | 1306 | 2136 | 2930 | 4072 | - |
| | 900 | 161 | 86 | 144 | 216 | 473 | 840 | 1370 | 1878 | 2610 | 3622 |
| 6.3 | 1400 | 222 | 117 | 168 | 253 | 615 | 1130 | 1805 | 2395 | 3435 | - |
| | 900 | 143 | 76 | 108 | 162 | 394 | 725 | 1128 | 1536 | 2202 | 3072 |
| 7.1 | 1400 | 197 | 135 | 225 | 338 | 737 | 1307 | 2136 | 2930 | 4072 | - |
| | 900 | 127 | 86 | 144 | 216 | 473 | 840 | 1370 | 1878 | 2610 | 2622 |
| 8 | 1400 | 175 | 117 | 168 | 253 | 615 | 1130 | 1805 | 2395 | 3435 | - |
| | 900 | 113 | 76 | 108 | 162 | 394 | 725 | 1128 | 1536 | 2202 | 3072 |
| 9 | 1400 | 156 | 117 | 168 | 253 | 615 | 1130 | 1805 | 2395 | 3077 | - |
| | 900 | 100 | 76 | 108 | 162 | 394 | 725 | 1128 | 1536 | 1973 | 3072 |
| 10 | 1400 | 140 | 92 | 135 | 241 | 463 | 746 | 1510 | 1916 | 2728 | - |
| | 900 | 90 | 60 | 86 | 155 | 296 | 535 | 968 | 1229 | 1748 | 2363 |

Right Angle

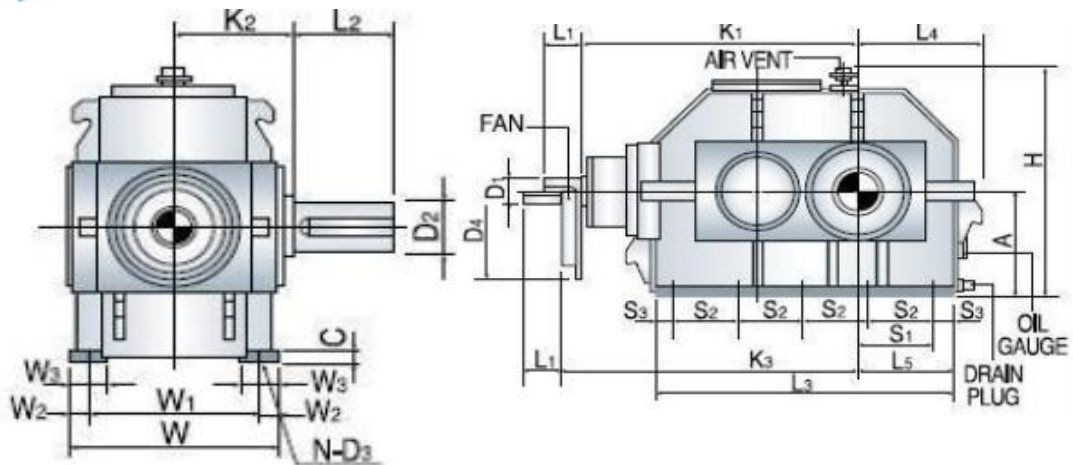
Double Reduction (SKB)

Permissible Transmitting Power Ratings

Unit:Kw

| Norminal ratio | speed | | Gear unit size | | | | | | | | |
|----------------|-----------|------------|--------------------------|-----|-----|-----|-----|------|------|------|------|
| | Input rpm | Output rpm | 18 | 22 | 26 | 32 | 38 | 45 | 50 | 56 | 61 |
| | | | Mechanical power ratings | | | | | | | | |
| 11.2 | 1400 | 125 | 70 | 105 | 197 | 394 | 768 | 1179 | 1494 | 2359 | 3316 |
| | 900 | 80 | 46 | 67 | 126 | 252 | 492 | 756 | 958 | 1512 | 2126 |
| 12.5 | 1400 | 112 | 64 | 92 | 160 | 358 | 610 | 964 | 1278 | 1935 | 2635 |
| | 900 | 72 | 42 | 60 | 103 | 236 | 390 | 618 | 818 | 1241 | 1690 |
| 14 | 1400 | 100 | 64 | 92 | 160 | 358 | 610 | 964 | 1278 | 1814 | 2635 |
| | 900 | 64 | 42 | 60 | 103 | 236 | 390 | 618 | 818 | 1164 | 1690 |
| 16 | 1400 | 88 | 55 | 77 | 140 | 275 | 491 | 756 | 1095 | 1454 | 2100 |
| | 900 | 56 | 36 | 49 | 90 | 178 | 314 | 485 | 702 | 934 | 1346 |
| 18 | 1400 | 78 | 42 | 59 | 117 | 211 | 399 | 652 | 854 | 1266 | 1714 |
| | 900 | 50 | 28 | 37 | 74 | 140 | 256 | 418 | 548 | 811 | 1098 |

Right Angle (SKB)



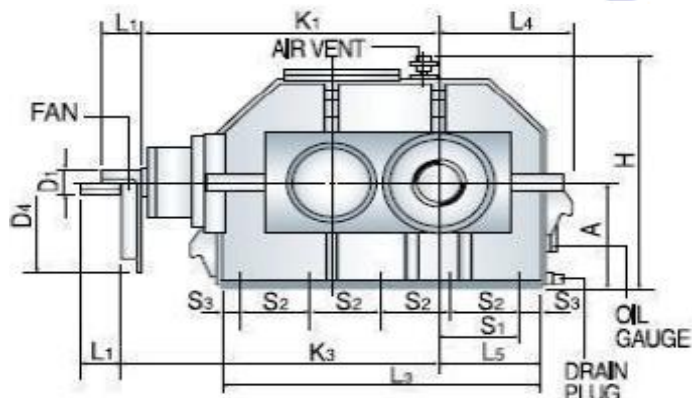
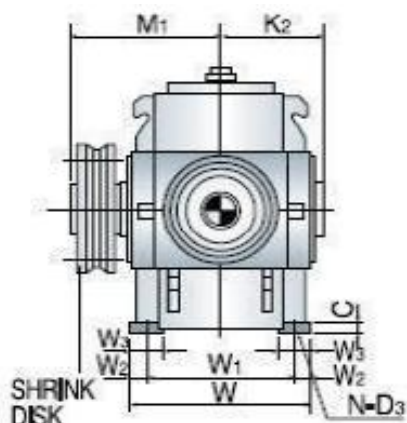
Unit:mm

| Unit size | High speed shaft | | | | | |
|-----------|------------------|----------------|-------|----------------|----------------|-------|
| | Ratio: | | | Ratio: | | |
| | D ₁ | L ₁ | Key | D ₁ | L ₁ | Key |
| 18 | 45 | 70 | 14×9 | 35 | 60 | 10×8 |
| 22 | 50 | 80 | 14×9 | 40 | 70 | 12×8 |
| 26 | 60 | 105 | 18×11 | 55 | 90 | 16×10 |
| 32 | 75 | 120 | 20×12 | 70 | 120 | 20×12 |
| 38 | 90 | 160 | 25×14 | 80 | 140 | 22×14 |
| 45 | 100 | 180 | 28×16 | 90 | 160 | 25×14 |
| 50 | 110 | 180 | 28×16 | 100 | 180 | 28×16 |
| 56 | 130 | 210 | 32×18 | 110 | 180 | 28×16 |
| 61 | 140 | 240 | 36×20 | 120 | 210 | 32×18 |

Unit:mm

| UNIT SIZE | Dimensions | | | | | | | | | | |
|-----------|------------|----------------|----------------|----------------|----------------|----------------|----------------|-----|------|-----|----|
| | E | K ₁ | K ₂ | L ₃ | L ₄ | L ₅ | L ₆ | A | H | W | C |
| 18 | | 540 | 180 | 560 | 270 | 190 | | 200 | 452 | 292 | 20 |
| 22 | | 620 | 200 | 690 | 310 | 230 | | 250 | 561 | 332 | 20 |
| 26 | | 715 | 240 | 790 | 340 | 260 | | 280 | 640 | 408 | 28 |
| 32 | | 890 | 280 | 940 | 380 | 300 | | 355 | 765 | 490 | 28 |
| 38 | | 1050 | 310 | 1110 | 450 | 350 | | 400 | 860 | 530 | 28 |
| 45 | | 1195 | 370 | 1315 | 510 | 410 | | 500 | 1019 | 650 | 35 |
| 50 | | 1315 | 400 | 1500 | 575 | 455 | | 560 | 1119 | 710 | 35 |
| 56 | | 1485 | 440 | 1600 | 620 | 500 | | 630 | 1239 | 780 | 40 |
| 61 | | 1630 | 500 | 1790 | 670 | 550 | | 710 | 1357 | 900 | 45 |

SKB



Unit:mm

| Unit size | LOW SPEED SHAFT | | | | |
|-----------|-----------------|----------------|----------------|-------|--------------|
| | Solis shaft | | | | Hollow shaft |
| | WT(kg) | D ₂ | L ₂ | Key | WT(kg) |
| 18 | 315 | 80 | 160 | 22×14 | 289 |
| 22 | 490 | 100 | 180 | 28×16 | 450 |
| 26 | 770 | 120 | 210 | 32×18 | 707 |
| 32 | 1340 | 140 | 240 | 36×20 | 1230 |
| 38 | 2015 | 170 | 270 | 40×22 | 1850 |
| 45 | 3270 | 200 | 350 | 45×25 | 3002 |
| 50 | 4240 | 220 | 350 | 50×28 | 3893 |
| 56 | 5580 | 240 | 400 | 56×32 | 5123 |
| 61 | 7450 | 270 | 450 | 63×32 | 6840 |

Unit:mm

| UNIT SIZE | Dimensions | | | | | | | | | Fan cooling | | Oil cap |
|-----------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----|----------------|----------------|-------|---------|
| | S ₁ | S ₂ | S ₃ | W ₁ | W ₂ | W ₃ | D ₃ | N | D ₄ | K ₃ | Liter | |
| 18 | 160 | 125 | 30 | 260 | 16 | 56 | 14 | 10 | 430 | 630 | 11 | |
| 22 | 195 | 155 | 35 | 290 | 21 | 66 | 18 | 10 | 430 | 710 | 19 | |
| 26 | 225 | 180 | 35 | 355 | 26.5 | 89 | 22 | 10 | 480 | 805 | 28 | |
| 32 | 250 | 210 | 50 | 430 | 30 | 95 | 26 | 10 | 575 | 980 | 55 | |
| 38 | 305 | 255 | 45 | 465 | 32.5 | 100 | 26 | 10 | 635 | 1140 | 75 | |
| 45 | 362.5 | 305 | 47.5 | 570 | 40 | 120 | 33 | 10 | 735 | 1285 | 150 | |
| 50 | 385 | 340 | 70 | 640 | 35 | 125 | 33 | 10 | 735 | 1405 | 220 | |
| 56 | 440 | 370 | 60 | 690 | 45 | 135 | 39 | 10 | 830 | 1575 | 290 | |
| 61 | 475 | 410 | 75 | 800 | 50 | 155 | 45 | 10 | 830 | 1720 | 420 | |



Triple Reduction (SKC)

Permissible Transmitting Power Ratings

Unit:Kw

| Norminal ratio | speed | | Gear unit size | | | | | | | | | | |
|----------------|-----------|------------|--------------------------|----|-----|-----|-----|-----|------|------|------|------|------|
| | Input rpm | Output rpm | 18 | 22 | 26 | 32 | 38 | 45 | 50 | 56 | 61 | 66 | 71 |
| | | | Mechanical power ratings | | | | | | | | | | |
| 20 | 1400 | 70 | 42 | 90 | 140 | 245 | 363 | 772 | 1158 | 1369 | 2239 | - | 3068 |
| | 900 | 45 | 26 | 56 | 90 | 152 | 228 | 474 | 742 | 876 | 1434 | - | 1968 |
| 22.4 | 1400 | 63 | 42 | 90 | 140 | 245 | 363 | 772 | 1095 | 1286 | 2026 | - | 2541 |
| | 900 | 40 | 26 | 56 | 90 | 152 | 228 | 474 | 700 | 824 | 1232 | - | 1624 |
| 25 | 1400 | 56 | 42 | 84 | 140 | 232 | 363 | 688 | 920 | 1306 | 1825 | 1909 | 2450 |
| | 900 | 36 | 26 | 54 | 90 | 148 | 228 | 426 | 588 | 836 | 1168 | 1224 | 1578 |
| 28 | 1400 | 50 | 42 | 74 | 129 | 225 | 363 | 614 | 873 | 1017 | 1601 | 1853 | 2280 |
| | 900 | 32 | 26 | 44 | 84 | 144 | 228 | 378 | 560 | 650 | 1026 | 1188 | 1459 |
| 31.5 | 1400 | 44 | 35 | 63 | 108 | 183 | 274 | 556 | 779 | 913 | 1439 | 1659 | 2029 |
| | 900 | 29 | 22 | 41 | 74 | 114 | 168 | 344 | 498 | 584 | 922 | 1064 | 1298 |
| 35.5 | 1400 | 39 | 34 | 56 | 96 | 177 | 274 | 505 | 695 | 814 | 1301 | 1505 | 1743 |
| | 900 | 25 | 22 | 36 | 60 | 114 | 168 | 324 | 444 | 522 | 834 | 965 | 1164 |



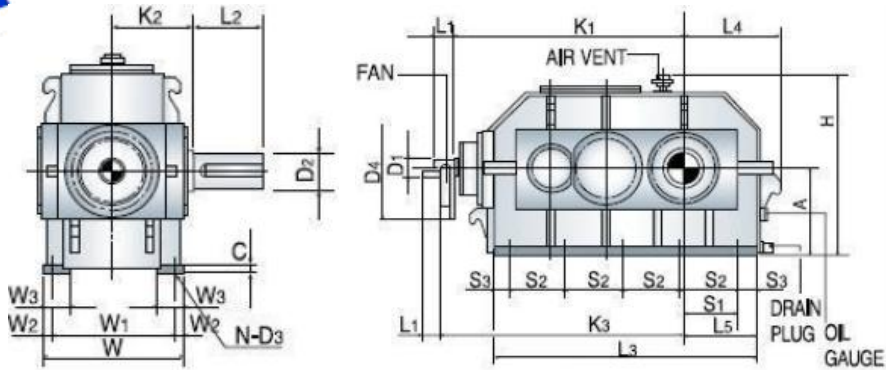
Double Reduction (SKC)

Permissible Transmitting Power Ratings

Unit:Kw

| Norminal ratio | speed | | Gear unit size | | | | | | | | | | |
|----------------|-----------|------------|--------------------------|----|----|-----|-----|-----|-----|-----|------|------|------|
| | Input rpm | Output rpm | 18 | 22 | 26 | 32 | 38 | 45 | 50 | 56 | 61 | 66 | 71 |
| | | | Mechanical power ratings | | | | | | | | | | |
| 40 | 1400 | 35 | 28 | 51 | 84 | 154 | 255 | 449 | 618 | 718 | 1158 | 1326 | 1601 |
| | 900 | 23 | 17 | 32 | 55 | 98 | 162 | 312 | 396 | 462 | 742 | 848 | 1026 |
| 45 | 1400 | 31 | 21 | 44 | 76 | 112 | 208 | 399 | 548 | 644 | 1023 | 1181 | 1348 |
| | 900 | 20 | 13 | 36 | 48 | 72 | 132 | 254 | 348 | 412 | 654 | 758 | 864 |
| 50 | 1400 | 28 | 16 | 37 | 68 | 98 | 166 | 359 | 494 | 577 | 927 | 1011 | 1286 |
| | 900 | 18 | 11 | 25 | 42 | 61 | 108 | 170 | 317 | 371 | 594 | 648 | 824 |
| 56 | 1400 | 25 | 16 | 36 | 66 | 98 | 166 | 316 | 494 | 500 | 814 | 945 | 1144 |
| | 900 | 16 | 11 | 24 | 42 | 61 | 108 | 204 | 276 | 320 | 522 | 606 | 732 |
| 63 | 1400 | 22 | 13 | 33 | 56 | 85 | 146 | 283 | 379 | 442 | 718 | 794 | 997 |
| | 900 | 14 | 8 | 20 | 36 | 55 | 94 | 180 | 242 | 283 | 462 | 506 | 638 |
| 71 | 1400 | 20 | 13 | 28 | 47 | 77 | 146 | 206 | 301 | 365 | 798 | 718 | 862 |
| | 900 | 13 | 8 | 17 | 30 | 50 | 94 | 132 | 192 | 235 | 362 | 462 | 550 |
| 80 | 1400 | 18 | 12 | 23 | 42 | 66 | 121 | 177 | 268 | 328 | 505 | 644 | 772 |
| | 900 | 11 | 7 | 16 | 26 | 62 | 77 | 114 | 173 | 210 | 324 | 412 | 494 |

Right Angle (SKC)



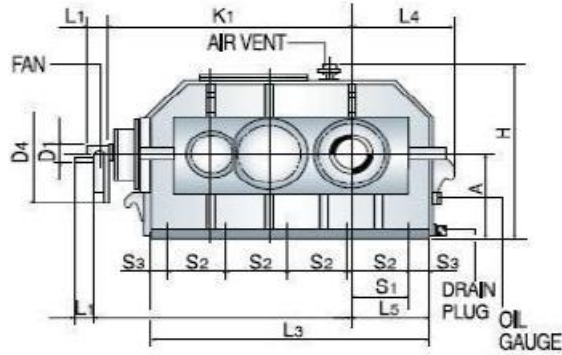
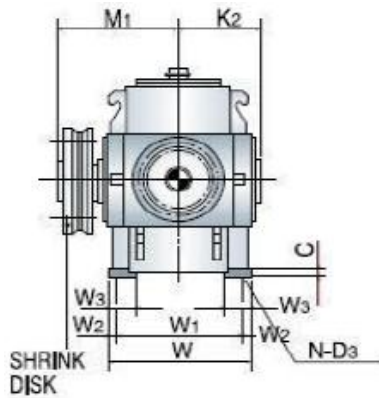
Unit:mm

| Unit size | High speed shaft | | | | | |
|-----------|------------------|----------------|-------|----------------|----------------|-------|
| | Ratio: | | | Ratio: | | |
| | D ₁ | L ₁ | Key | D ₁ | L ₁ | Key |
| 18 | 28 | 50 | 8×7 | 22 | 35 | 6×6 |
| 22 | 35 | 60 | 10×8 | 28 | 50 | 8×7 |
| 26 | 45 | 70 | 14×9 | 35 | 60 | 10×8 |
| 32 | 50 | 80 | 14×9 | 40 | 70 | 12×8 |
| 38 | 60 | 105 | 18×11 | 55 | 90 | 16×10 |
| 45 | 75 | 120 | 20×12 | 70 | 120 | 20×12 |
| 50 | 80 | 140 | 22×14 | 75 | 120 | 20×12 |
| 56 | 90 | 160 | 25×14 | 80 | 140 | 22×14 |
| 61 | 100 | 180 | 28×16 | 90 | 160 | 25×14 |
| 66 | 100 | 180 | 28×16 | 90 | 160 | 25×14 |
| 71 | 110 | 180 | 28×16 | 100 | 180 | 28×16 |

Unit:mm

| UNIT SIZE | Dimensions | | | | | | | | | | |
|-----------|------------|----------------|----------------|----------------|----------------|----------------|----------------|-----|------|-----|----|
| | E | K ₁ | K ₂ | L ₃ | L ₄ | L ₅ | L ₆ | A | H | W | C |
| 18 | | 580 | 170 | 630 | 265 | 185 | | 200 | 445 | 270 | 20 |
| 22 | | 685 | 190 | 780 | 295 | 215 | | 250 | 525 | 310 | 20 |
| 26 | | 805 | 215 | 890 | 335 | 255 | | 280 | 640 | 360 | 28 |
| 32 | | 940 | 250 | 1070 | 395 | 295 | | 355 | 740 | 430 | 28 |
| 38 | | 1100 | 285 | 1260 | 445 | 345 | | 400 | 870 | 490 | 28 |
| 45 | | 1340 | 350 | 1500 | 530 | 410 | | 500 | 1030 | 600 | 35 |
| 50 | | 1550 | 390 | 1760 | 620 | 500 | | 560 | 1125 | 680 | 35 |
| 56 | | 1605 | 390 | 1840 | 645 | 525 | | 630 | 1230 | 680 | 40 |
| 61 | | 1805 | 460 | 2090 | 715 | 575 | | 710 | 1370 | 820 | 45 |
| 66 | | 1855 | 460 | 2180 | 755 | 615 | | 750 | 1470 | 820 | 45 |
| 71 | | 2020 | 500 | 2420 | 810 | 670 | | 800 | 1570 | 900 | 50 |

SKC



Unit:mm

| Unit size | LOW SPEED SHAFT | | | | |
|-----------|-----------------|----------------|----------------|-------|--------------|
| | Solis shaft | | | | Hollow shaft |
| | WT(kg) | D ₂ | L ₂ | Key | WT(kg) |
| 18 | 305 | 80 | 140 | 22×14 | 280 |
| 22 | 470 | 100 | 180 | 28×16 | 431 |
| 26 | 750 | 120 | 210 | 32×18 | 689 |
| 32 | 1160 | 140 | 240 | 36×20 | 1065 |
| 38 | 1815 | 170 | 270 | 40×22 | 1666 |
| 45 | 2175 | 200 | 350 | 45×25 | 2915 |
| 50 | 4285 | 220 | 350 | 50×28 | 3934 |
| 56 | 5035 | 240 | 400 | 56×32 | 4623 |
| 61 | 7430 | 260 | 450 | 56×32 | 6821 |
| 66 | 8400 | 280 | 450 | 63×32 | 7712 |
| 71 | 10750 | 300 | 500 | 70×36 | 9869 |

Unit:mm

| UNIT SIZE | Dimensions | | | | | | | | Fan cooling | | Oil cap |
|-----------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----|----------------|----------------|---------|
| | S ₁ | S ₂ | S ₃ | W ₁ | W ₂ | W ₃ | D ₃ | N | D ₄ | K ₃ | Liter |
| 18 | 140 | 180 | 45 | 230 | 20 | 55 | 14 | 8 | 310 | 670 | 12 |
| 22 | 155 | 165 | 60 | 270 | 20 | 60 | 18 | 10 | 335 | 775 | 24 |
| 26 | 190 | 190 | 65 | 310 | 25 | 70 | 22 | 10 | 430 | 895 | 41 |
| 32 | 220 | 230 | 75 | 370 | 30 | 90 | 26 | 10 | 430 | 1030 | 65 |
| 38 | 255 | 270 | 90 | 430 | 30 | 95 | 26 | 10 | 480 | 1190 | 100 |
| 45 | 340 | 340 | 70 | 520 | 40 | 125 | 33 | 10 | 575 | 1430 | 180 |
| 50 | 420 | 400 | 80 | 600 | 40 | 140 | 33 | 10 | 635 | 1640 | 270 |
| 56 | 445 | 420 | 80 | 590 | 45 | 140 | 39 | 10 | 735 | 1695 | 330 |
| 61 | 490 | 480 | 85 | 710 | 55 | 175 | 45 | 10 | 735 | 1895 | 500 |
| 66 | 525 | 500 | 90 | 710 | 55 | 175 | 45 | 10 | 735 | 1945 | 560 |
| 71 | 580 | 560 | 90 | 790 | 55 | 190 | 45 | 10 | 735 | 2110 | 720 |



Quadruple Reduction (SKD)

Permissible Transmitting Power Ratings

U

| Nominal ratio | speed | | Gear unit size | | | | | | | | | |
|---------------|-----------|------------|--------------------------|----|----|-----|-----|-----|-----|-----|-----|-----|
| | Input rpm | Output rpm | 22 | 26 | 32 | 38 | 45 | 50 | 56 | 61 | 66 | 71 |
| | | | Mechanical power ratings | | | | | | | | | |
| 80 | 1400 | 18 | 27 | 44 | 74 | 121 | 222 | 315 | 377 | 594 | 684 | 826 |
| | 900 | 11 | 17 | 29 | 47 | 77 | 142 | 202 | 242 | 381 | 438 | 529 |
| 90 | 1400 | 16 | 21 | 33 | 56 | 84 | 174 | 273 | 323 | 528 | 596 | 723 |
| | 900 | 10 | 13 | 21 | 36 | 54 | 112 | 174 | 207 | 338 | 382 | 463 |
| 100 | 1400 | 14 | 21 | 33 | 56 | 84 | 177 | 259 | 305 | 481 | 558 | 603 |
| | 900 | 9 | 13 | 21 | 36 | 54 | 113 | 166 | 195 | 308 | 358 | 387 |
| 112 | 1400 | 13 | 20 | 33 | 55 | 84 | 158 | 218 | 309 | 432 | 452 | 581 |
| | 900 | 8 | 12 | 21 | 35 | 54 | 101 | 139 | 198 | 277 | 289 | 374 |
| 125 | 1400 | 11 | 16 | 32 | 54 | 84 | 140 | 207 | 241 | 379 | 440 | 541 |
| | 900 | 7 | 11 | 20 | 34 | 54 | 90 | 133 | 154 | 243 | 282 | 347 |
| 140 | 1400 | 10 | 15 | 28 | 42 | 63 | 129 | 185 | 218 | 343 | 397 | 483 |
| | 900 | 6 | 10 | 18 | 27 | 40 | 82 | 119 | 139 | 220 | 254 | 310 |
| 160 | 1400 | 9 | 13 | 22 | 42 | 62 | 118 | 163 | 191 | 307 | 355 | 420 |
| | 900 | 6 | 9 | 14 | 27 | 40 | 76 | 104 | 123 | 196 | 227 | 269 |



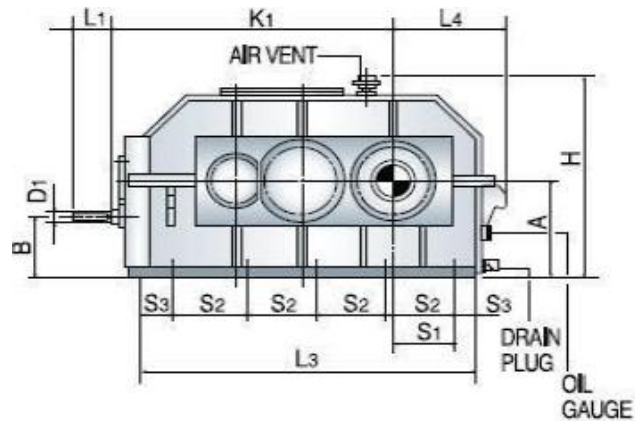
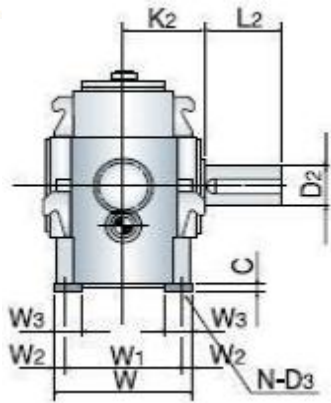
Quadruple Reduction (SKD)

Permissible Transmitting Power Ratings

Unit:Kw

| Norminal ratio | speed | | Gear unit size | | | | | | | | | |
|----------------|-----------|------------|--------------------------|----|----|----|-----|-----|-----|-----|-----|-----|
| | Input rpm | Output rpm | 22 | 26 | 32 | 38 | 45 | 50 | 56 | 61 | 66 | 71 |
| | | | Mechanical power ratings | | | | | | | | | |
| 180 | 1400 | 8 | 12 | 20 | 36 | 60 | 108 | 146 | 170 | 273 | 312 | 377 |
| | 900 | 5 | 8 | 13 | 23 | 38 | 69 | 93 | 109 | 174 | 200 | 242 |
| 200 | 1400 | 7 | 11 | 18 | 27 | 49 | 95 | 130 | 153 | 243 | 282 | 321 |
| | 900 | 5 | 7 | 11 | 17 | 31 | 61 | 84 | 98 | 156 | 181 | 206 |
| 224 | 1400 | 6 | 9 | 15 | 23 | 40 | 85 | 117 | 137 | 219 | 239 | 304 |
| | 900 | 4 | 6 | 10 | 15 | 25 | 54 | 75 | 88 | 140 | 153 | 195 |
| 250 | 1400 | 6 | 8 | 15 | 23 | 40 | 76 | 102 | 118 | 194 | 225 | 271 |
| | 900 | 4 | 6 | 10 | 15 | 25 | 48 | 66 | 76 | 124 | 144 | 174 |
| 280 | 1400 | 4 | 7 | 13 | 21 | 35 | 68 | 92 | 105 | 172 | 188 | 239 |
| | 900 | 3 | 5 | 9 | 13 | 22 | 43 | 58 | 68 | 110 | 121 | 152 |
| 315 | 1400 | 4 | 7 | 11 | 19 | 35 | 49 | 71 | 88 | 136 | 172 | 306 |
| | 900 | 3 | 4 | 7 | 12 | 22 | 31 | 46 | 56 | 87 | 110 | 132 |
| 355 | 1400 | 4 | 6 | 11 | 15 | 29 | 43 | 64 | 78 | 121 | 153 | 184 |
| | 900 | 3 | 4 | 6 | 10 | 19 | 27 | 41 | 50 | 78 | 98 | 119 |

Right Angle (SKD)



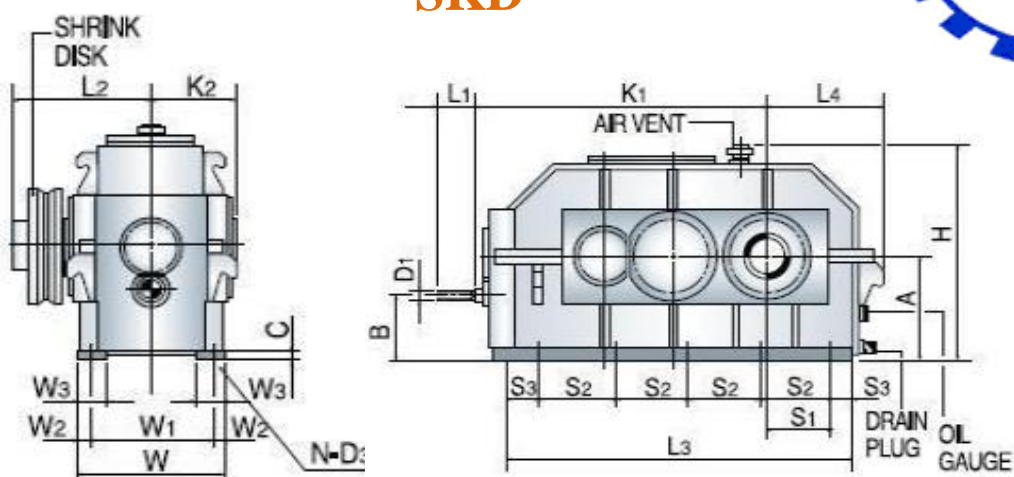
Unit:mm

| Unit size | High speed shaft | | | | | |
|-----------|------------------|-------|-------|--------|-------|-------|
| | Ratio: | | | Ratio: | | |
| | D_1 | L_1 | Key | D_1 | L_1 | Key |
| 22 | 24 | 40 | 8×7 | 22 | 35 | 6×6 |
| 26 | 32 | 55 | 10×8 | 28 | 50 | 8×7 |
| 32 | 32 | 55 | 10×8 | 28 | 50 | 8×7 |
| 38 | 42 | 70 | 12×8 | 32 | 60 | 10×8 |
| 45 | 48 | 80 | 14×9 | 38 | 60 | 10×8 |
| 50 | 55 | 90 | 16×10 | 42 | 70 | 12×8 |
| 56 | 60 | 105 | 18×11 | 42 | 70 | 12×8 |
| 61 | 65 | 105 | 18×11 | 48 | 80 | 14×9 |
| 66 | 75 | 120 | 20×12 | 60 | 105 | 18×11 |
| 71 | 90 | 160 | 25×14 | 65 | 105 | 18×11 |

Unit:mm

| UNIT SIZE | Dimensions | | | | | | | | | | |
|-----------|------------|-------|-------|-------|-------|-------|-----|------|-----|-----|----|
| | E | K_1 | K_2 | L_3 | L_4 | L_5 | A | H | B | W | C |
| 22 | | 690 | 190 | 850 | 295 | 215 | 250 | 525 | 160 | 310 | 20 |
| 26 | | 810 | 215 | 1010 | 335 | 255 | 315 | 640 | 203 | 360 | 28 |
| 32 | | 950 | 250 | 1190 | 395 | 295 | 355 | 740 | 230 | 430 | 28 |
| 38 | | 1110 | 285 | 1400 | 445 | 345 | 400 | 870 | 240 | 490 | 28 |
| 45 | | 1330 | 350 | 1680 | 530 | 410 | 500 | 1030 | 315 | 600 | 35 |
| 50 | | 1535 | 390 | 1970 | 620 | 500 | 560 | 1125 | 340 | 680 | 35 |
| 56 | | 1590 | 390 | 2050 | 645 | 525 | 630 | 1230 | 410 | 680 | 40 |
| 61 | | 1810 | 460 | 2310 | 715 | 575 | 710 | 1370 | 445 | 820 | 45 |
| 66 | | 1860 | 460 | 2400 | 755 | 615 | 750 | 1470 | 485 | 820 | 45 |
| 71 | | 2025 | 500 | 2610 | 810 | 670 | 800 | 1570 | 480 | 900 | 50 |

SKD



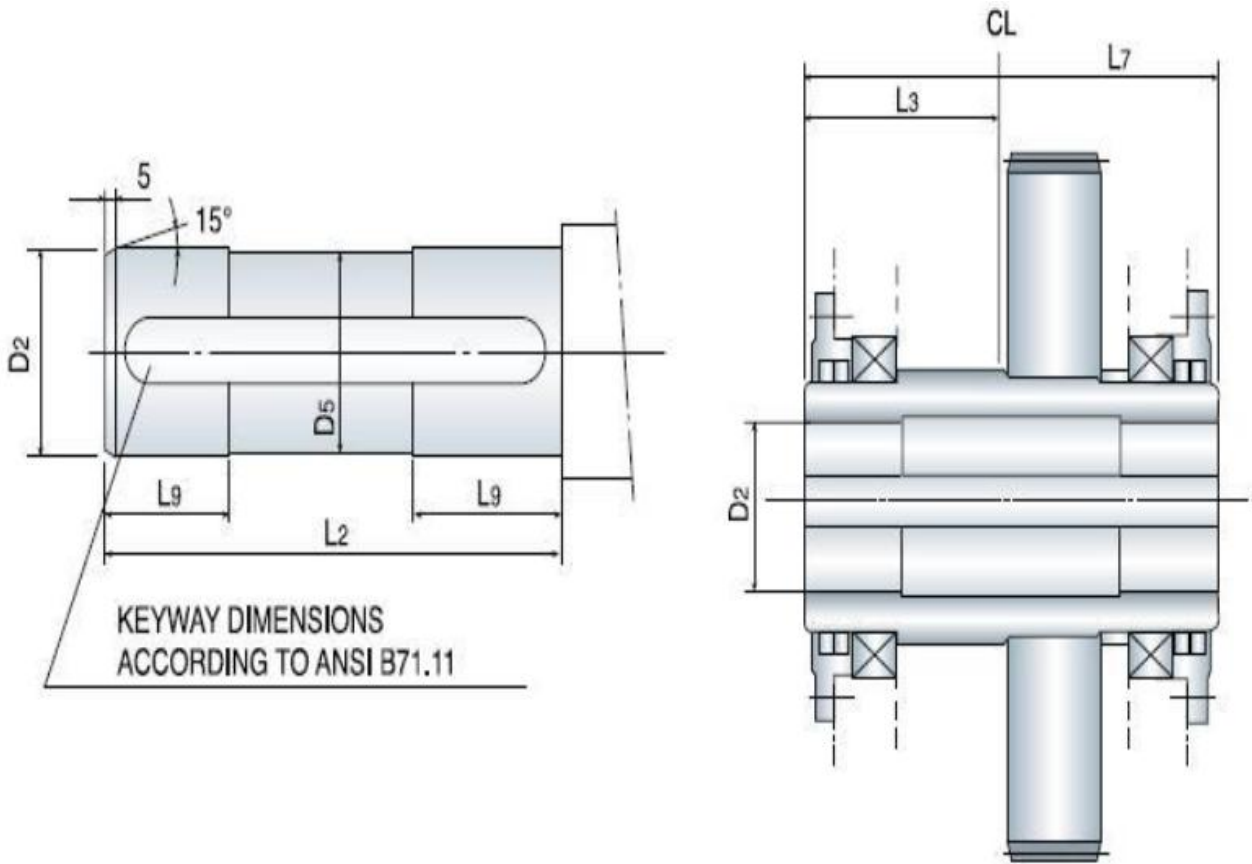
Unit:mm

| Unit size | LOW SPEED SHAFT | | | | |
|-----------|-----------------|----------------|----------------|-------|--------------|
| | Solis shaft | | | | Hollow shaft |
| | WT(kg) | D ₂ | L ₂ | Key | WT(kg) |
| 22 | 480 | 100 | 180 | 28×16 | 441 |
| 26 | 690 | 120 | 210 | 32×18 | 635 |
| 32 | 1260 | 140 | 240 | 36×20 | 1159 |
| 38 | 1800 | 170 | 270 | 40×22 | 1656 |
| 45 | 3100 | 200 | 350 | 45×25 | 2852 |
| 50 | 4500 | 220 | 350 | 50×28 | 4140 |
| 56 | 5300 | 240 | 400 | 56×32 | 4876 |
| 61 | 7300 | 270 | 450 | 63×32 | 6716 |
| 66 | 8000 | 280 | 450 | 63×32 | 7360 |
| 71 | 10500 | 310 | 500 | 70×36 | 9660 |

Unit:mm

| UNIT SIZE | Dimensions | | | | | | | | | Oil cap |
|-----------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----|--|---------|
| | S ₁ | S ₂ | S ₃ | W ₁ | W ₂ | W ₃ | D ₃ | N | | Liter |
| 22 | 105 | 210 | 110 | 270 | 20 | 60 | 14 | 8 | | 38 |
| 26 | 150 | 200 | 105 | 310 | 25 | 70 | 22 | 10 | | 57 |
| 32 | 200 | 250 | 95 | 370 | 30 | 90 | 26 | 10 | | 98 |
| 38 | 245 | 300 | 100 | 430 | 30 | 95 | 26 | 10 | | 165 |
| 45 | 290 | 360 | 120 | 520 | 40 | 125 | 33 | 10 | | 310 |
| 50 | 355 | 420 | 145 | 600 | 40 | 140 | 33 | 10 | | 400 |
| 56 | 400 | 450 | 125 | 590 | 45 | 140 | 39 | 10 | | 500 |
| 61 | 440 | 510 | 135 | 710 | 55 | 175 | 45 | 10 | | 570 |
| 66 | 475 | 530 | 140 | 710 | 55 | 175 | 45 | 10 | | 600 |
| 71 | 505 | 570 | 165 | 790 | 55 | 190 | 45 | 10 | | 900 |

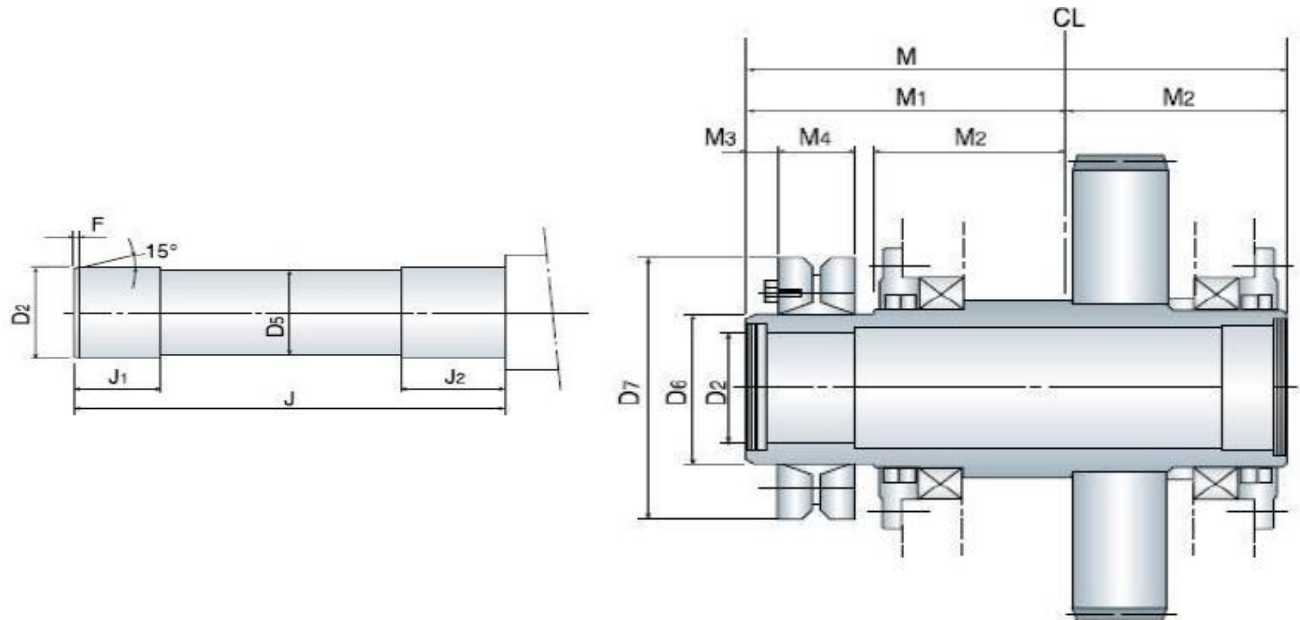
Hollow Shaft Design Whit Keyway



Unit:mm

| Unit size | Double reduction | | | | | | Tripe/quadruple reduction | | | | | |
|-----------|------------------|----------------|----------------|----------------|----------------|----------------|---------------------------|----------------|----------------|----------------|----------------|----------------|
| | D ₂ | L ₂ | L ₇ | L ₃ | L ₉ | D ₅ | D ₂ | L ₂ | L ₇ | L ₃ | L ₉ | D ₅ |
| 18 | 90 | 357 | 360 | 180 | 85 | 87 | 90 | 337 | 340 | 170 | 85 | 87 |
| 22 | 110 | 397 | 400 | 200 | 115 | 107 | 110 | 377 | 380 | 190 | 115 | 107 |
| 26 | 130 | 477 | 480 | 240 | 130 | 127 | 130 | 427 | 430 | 215 | 130 | 127 |
| 32 | 155 | 557 | 560 | 280 | 150 | 152 | 156 | 500 | 500 | 250 | 150 | 152 |

Hollow Shaft Design With Shrink Disk



Double Reduction

| Unit size | Hollow shaft | | | | | | | | | | Shrink disk | | |
|-----------|----------------|------|----------------|----------------|----------------|----|------|----------------|----------------|----------------|----------------|----------------|----------------|
| | D ₂ | J | J ₁ | J ₂ | D ₅ | F | M | M ₁ | M ₂ | M ₃ | M ₄ | D ₆ | D ₇ |
| 18 | 90 | 440 | 75 | 115 | 87 | 5 | 455 | 275 | 180 | 30 | 54 | 125 | 215 |
| 22 | 110 | 490 | 85 | 120 | 107 | 5 | 510 | 310 | 200 | 35 | 64 | 155 | 265 |
| 26 | 130 | 575 | 95 | 135 | 127 | 5 | 600 | 360 | 240 | 37 | 71 | 175 | 300 |
| 32 | 155 | 675 | 120 | 160 | 152 | 5 | 700 | 420 | 280 | 38 | 86 | 200 | 350 |
| 38 | 200 | 775 | 135 | 180 | 197 | 5 | 800 | 490 | 310 | 45 | 120 | 360 | 430 |
| 45 | 220 | 905 | 155 | 200 | 217 | 9 | 940 | 570 | 370 | 48 | 134 | 280 | 460 |
| 50 | 280 | 995 | 240 | 290 | 277 | 9 | 1040 | 640 | 400 | 60 | 162 | 350 | 580 |
| 56 | 310 | 1090 | 260 | 310 | 307 | 9 | 1135 | 695 | 440 | 67 | 168 | 390 | 660 |
| 61 | 340 | 1235 | 275 | 330 | 337 | 12 | 1280 | 780 | 500 | 70 | 188 | 420 | 690 |
| 66 | 350 | 1275 | 290 | 340 | 347 | 12 | 1320 | 810 | 510 | 72 | 202 | 440 | 750 |
| 71 | 370 | 1370 | 305 | 350 | 367 | 12 | 1420 | 860 | 560 | 73 | 202 | 460 | 770 |

Unit:mm



Triple/ Quadruple Reduction

Unit:mm

| Unit size | Hollow shaft | | | | | | | | | | Shrink disk | | |
|-----------|----------------|------|----------------|----------------|-----|----|------|----------------|----------------|----------------|----------------|----------------|----------------|
| | D ₂ | J | J ₁ | J ₂ | D5 | F | M | M ₁ | M ₂ | M ₃ | M ₄ | D ₆ | D ₇ |
| 18 | 90 | 420 | 75 | 115 | 87 | 5 | 435 | 265 | 170 | 30 | 54 | 125 | 215 |
| 22 | 110 | 470 | 85 | 120 | 107 | 5 | 490 | 300 | 190 | 35 | 64 | 155 | 265 |
| 26 | 130 | 525 | 95 | 135 | 127 | 5 | 550 | 335 | 215 | 37 | 71 | 175 | 300 |
| 32 | 155 | 615 | 120 | 160 | 152 | 5 | 640 | 390 | 250 | 38 | 86 | 200 | 350 |
| 38 | 200 | 725 | 135 | 180 | 197 | 5 | 750 | 465 | 285 | 45 | 120 | 260 | 430 |
| 45 | 220 | 865 | 155 | 200 | 217 | 9 | 900 | 550 | 350 | 48 | 134 | 280 | 460 |
| 50 | 280 | 975 | 240 | 290 | 277 | 9 | 1020 | 630 | 390 | 60 | 162 | 350 | 580 |
| 56 | 310 | 990 | 260 | 310 | 307 | 9 | 1035 | 645 | 390 | 67 | 168 | 390 | 660 |
| 61 | 340 | 1155 | 275 | 330 | 337 | 12 | 1200 | 740 | 460 | 70 | 188 | 420 | 690 |
| 66 | 350 | 1175 | 290 | 340 | 347 | 12 | 1220 | 760 | 460 | 72 | 202 | 440 | 750 |
| 71 | 370 | 1250 | 305 | 350 | 367 | 12 | 1300 | 800 | 500 | 73 | 202 | 460 | 770 |



گروه فنی مهندسی توکا طرح

تولیدکننده انواع گیربکس های صنعتی

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