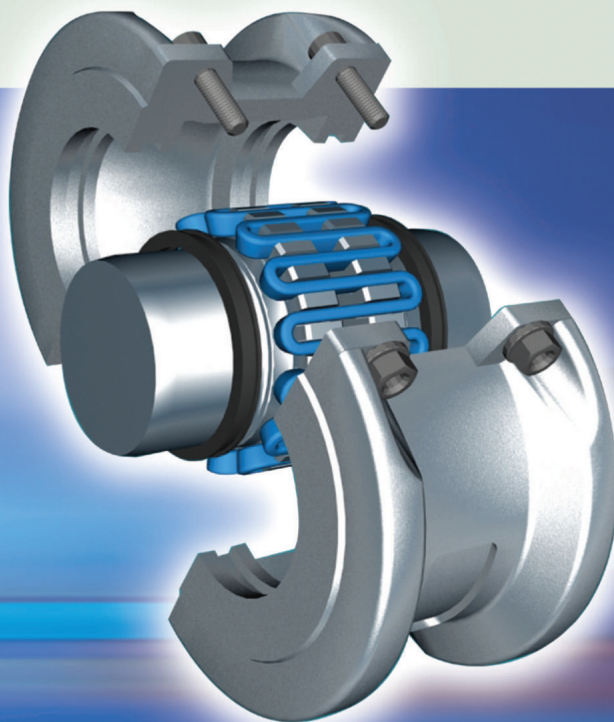


# GRID

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## COUPLING



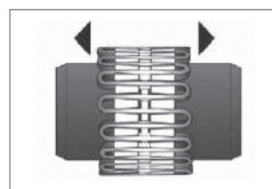


## GRID COUPLING

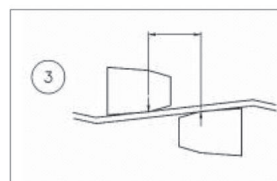
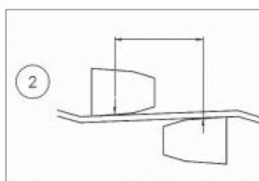
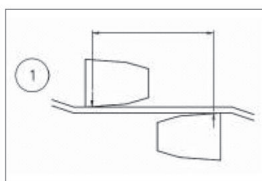
### FEATURE

#### 1. Misalignment: Absorb shock loads and offer vibration damping

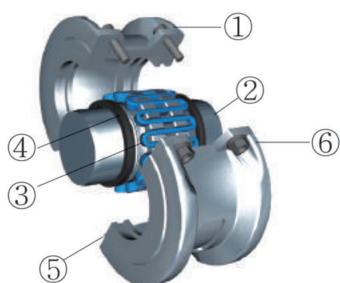
- 1) Parallel: The movement of the grid in the lubricated grooves accommodates parallel misalignment. The steel structure permits full functioning of the grid-groove action in damping shock and vibration (permissible parallel misalignment value: 2~3 mm)
- 2) Angular: Under angular misalignment, the lubricated grid and hubs along with the resilient grid-groove design allow for consistent rocking and sliding motions with no power loss.
- 3) End float: End floats for both driving and driven members are permitted because the grid slides freely in the lubricated grooves.



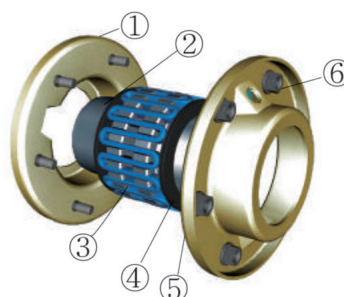
#### 2. Torsional Flexibility: When vibration, shock and overload occurs during machinery working, due to flexibility of grid, the focus of the force is spread across the surface of the tooth, reducing vibration and shock loads.



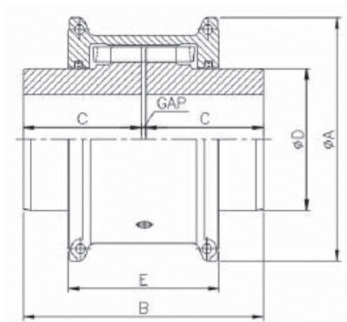
### STRUCTURE



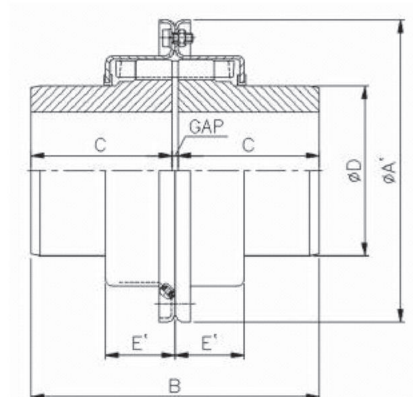
| PARTS |           |
|-------|-----------|
| ①     | COVER     |
| ②     | HUB       |
| ③     | GRID      |
| ④     | OIL SEALS |
| ⑤     | GASKETS   |
| ⑥     | BOLTS     |



## DIMENSION



**SH Type**  
(Horizontal split aluminum cover)



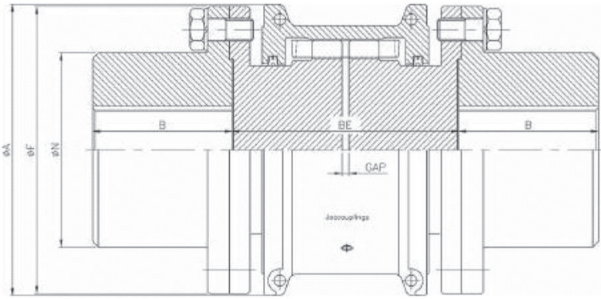
**SV Type**  
(Vertical split steel cover)

| Size | Allow Speed (rpm) | Torque Rating (kgf • m) | Dimension (mm) |         |       |       |       |       |       |       |      |        |      | Weight (kg) | Grease (kg) |
|------|-------------------|-------------------------|----------------|---------|-------|-------|-------|-------|-------|-------|------|--------|------|-------------|-------------|
|      |                   |                         | Bore Max.      | A       | A'    | B     | C     | D     | E     | E'    | Gap  |        |      |             |             |
|      |                   |                         |                |         |       |       |       |       |       |       | Min. | Normal | max. |             |             |
| 20S  | 4,500             | 4.9                     | 30             | 101.6   | 111.1 | 98.0  | 47.5  | 39.7  | 66.5  | 24.2  | 1.5  | 3.0    | 4.5  | 1.9         | 0.03        |
| 30S  | 4,500             | 13.8                    | 36             | 111.0   | 120.7 | 98.0  | 47.5  | 49.2  | 68.3  | 25.0  | 1.5  | 3.0    | 4.5  | 2.6         | 0.03        |
| 40S  | 4,500             | 23.0                    | 44             | 117.5   | 128.5 | 104.6 | 50.8  | 57.1  | 70.0  | 25.7  | 1.5  | 3.0    | 4.5  | 3.4         | 0.05        |
| 50S  | 4,500             | 40.0                    | 50             | 138.0   | 147.6 | 123.6 | 60.3  | 66.7  | 79.5  | 31.2  | 1.5  | 3.0    | 4.5  | 5.4         | 0.05        |
| 60S  | 4,350             | 63.0                    | 57             | 150.5   | 162.0 | 130.0 | 63.5  | 76.2  | 92.0  | 32.2  | 1.5  | 3.0    | 4.5  | 7.3         | 0.09        |
| 70S  | 4,125             | 92.0                    | 65             | 161.9   | 173.0 | 155.4 | 76.2  | 87.3  | 95.0  | 33.7  | 1.5  | 3.0    | 4.5  | 10.0        | 0.11        |
| 80S  | 3,600             | 190.0                   | 79             | 194.0   | 200.0 | 180.8 | 88.9  | 104.8 | 116.0 | 44.2  | 1.5  | 3.0    | 6.0  | 18.0        | 0.17        |
| 90S  | 3,600             | 345.0                   | 95             | 213.0   | 231.8 | 199.8 | 98.4  | 123.8 | 122.0 | 47.7  | 1.5  | 3.0    | 6.0  | 25.0        | 0.25        |
| 100S | 2,440             | 582.0                   | 107            | 250.0   | 266.7 | 245.7 | 120.6 | 142.0 | 155.5 | 60.0  | 1.5  | 4.5    | 9.5  | 42.0        | 0.43        |
| 110S | 2,250             | 864.0                   | 117            | 270.0   | 285.8 | 258.5 | 127.0 | 160.3 | 161.5 | 64.2  | 1.5  | 4.5    | 9.5  | 54.0        | 0.51        |
| 120S | 2,025             | 1,367.0                 | 136            | 308.0   | 319.0 | 304.4 | 149.2 | 179.4 | 191.5 | 73.4  | 1.5  | 6.0    | 12.5 | 81.0        | 0.73        |
| 130S | 1,800             | 1,843.0                 | 165            | 346.0   | 377.8 | 329.8 | 161.9 | 217.5 | 195.0 | 75.1  | 1.5  | 6.0    | 12.5 | 121.0       | 0.91        |
| 140S | 1,650             | 2,660.0                 | 184            | 384.0   | 416.0 | 371.6 | 184.1 | 254.0 | 201.0 | 78.2  | 1.5  | 6.0    | 12.5 | 178.0       | 1.13        |
| 150S | 1,500             | 3,687.0                 | 203            | 453.1   | 476.3 | 371.8 | 183.0 | 269.2 | 271.3 | 106.9 | 1.5  | 6.0    | 12.5 | 234.0       | 1.95        |
| 160S | 1,350             | 5,185.0                 | 228            | 501.4   | 533.4 | 403.3 | 198.0 | 304.8 | 278.9 | 114.3 | 1.5  | 6.0    | 12.5 | 317.0       | 2.81        |
| 170S | 1,225             | 6,193.0                 | 279            | 566.4   | 584.2 | 437.8 | 216.0 | 355.6 | 304.3 | 119.4 | 1.5  | 6.0    | 12.5 | 448.0       | 3.49        |
| 180S | 1,100             | 9,586.0                 | 311            | 629.9   | 630.0 | 483.6 | 239.0 | 393.7 | 321.1 | 130.0 | 1.5  | 6.0    | 12.5 | 619.0       | 3.76        |
| 190S | 1,050             | 12,670.0                | 339            | 675.5   | 685.0 | 524.2 | 259.0 | 436.9 | 325.1 | 135.0 | 1.5  | 6.0    | 12.5 | 776.0       | 4.400       |
| 200S | 900               | 17,280.0                | 361            | 756.9   | 737.0 | 564.8 | 279.0 | 497.8 | 355.6 | 145.0 | 1.5  | 6.0    | 12.5 | 1,057.0     | 5.62        |
| 210S | 820               | 23,040.0                | 366            | 844.6   | -     | 622.3 | 304.8 | 533.4 | 431.8 | -     | 3.0  | 13.0   | 24.0 | 1,424.0     | 10.50       |
| 220S | 730               | 31,100.0                | 411            | 920.8   | -     | 622.9 | 325.0 | 571.5 | 490.2 | -     | 3.0  | 13.0   | 24.0 | 1,784.0     | 16.05       |
| 230S | 680               | 44,380.0                | 450            | 1,003.3 | -     | 703.8 | 345.4 | 609.6 | 546.1 | -     | 3.0  | 13.0   | 24.0 | 2,267.0     | 24.00       |
| 240S | 630               | 57,000.0                | 480            | 1,087.1 | -     | 749.6 | 368.3 | 647.7 | 647.7 | -     | 3.0  | 13.0   | 24.0 | 2,950.0     | 33.80       |

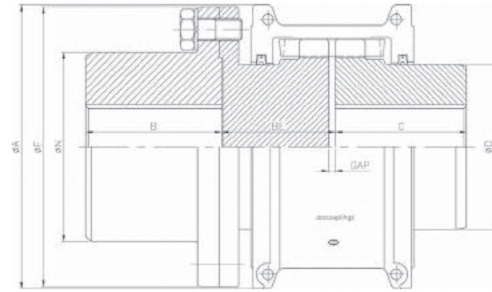
※ The values of weight and GD<sup>2</sup> are only for without machining.



## DIMENSION



**SAS Type  
(Full Spacer)**



**SFS Type  
(Half Spacer)**

| Size | Allow Speed (rpm) | Torque Rating (kgf • m) | Dimension (mm) |       |     |       |         |      |         |      |     |     |     | Flange bolt Q'ty | Grease (kg) |
|------|-------------------|-------------------------|----------------|-------|-----|-------|---------|------|---------|------|-----|-----|-----|------------------|-------------|
|      |                   |                         | Bore           | A     | B   | C     | BE(SAS) |      | BE(SFS) |      | N   | F   | GAP |                  |             |
|      |                   |                         |                |       |     |       | Max.    | Min. | Max.    | Min. |     |     |     |                  |             |
| 20S  | 3,600             | 4.9                     | 36             | 101.6 | 35  | 47.5  | 89      | 203  | 45      | 102  | 52  | 86  | 5.0 | 4                | 0.03        |
| 30S  | 3,600             | 13.8                    | 44             | 111.0 | 41  | 47.5  | 89      | 216  | 45      | 109  | 59  | 94  | 5.0 | 8                | 0.03        |
| 40S  | 3,600             | 23.0                    | 57             | 117.5 | 54  | 50.8  | 89      | 216  | 45      | 109  | 78  | 113 | 5.0 | 8                | 0.05        |
| 50S  | 3,600             | 40.0                    | 64             | 138.0 | 60  | 60.3  | 112     | 330  | 57      | 109  | 87  | 126 | 5.0 | 8                | 0.05        |
| 60S  | 3,600             | 63.0                    | 79             | 150.5 | 73  | 63.5  | 127     | 330  | 64      | 166  | 103 | 145 | 5.0 | 8                | 0.09        |
| 70S  | 3,600             | 92.0                    | 83             | 161.9 | 79  | 76.2  | 127     | 406  | 64      | 166  | 109 | 153 | 5.0 | 12               | 0.11        |
| 80S  | 3,600             | 190.0                   | 95             | 194.0 | 89  | 88.9  | 184     | 406  | 93      | 204  | 122 | 178 | 5.0 | 12               | 0.17        |
| 90S  | 3,600             | 345.0                   | 108            | 213.0 | 102 | 98.4  | 184     | 406  | 93      | 204  | 142 | 210 | 5.0 | 12               | 0.25        |
| 100S | 2,440             | 582.0                   | 127            | 250.0 | 90  | 120.6 | 203     | 406  | 103     | 205  | 171 | 251 | 6.5 | 12               | 0.43        |
| 110S | 2,250             | 864.0                   | 149            | 270.0 | 104 | 127.0 | 210     | 406  | 106     | 205  | 196 | 277 | 6.5 | 12               | 0.51        |
| 120S | 2,025             | 1,267.0                 | 165            | 308.0 | 119 | 149.2 | 246     | 406  | 125     | 205  | 225 | 319 | 9.5 | 12               | 0.73        |
| 130S | 1,800             | 1,843.0                 | 178            | 346.0 | 135 | 161.9 | 257     | 406  | 130     | 205  | 238 | 346 | 9.5 | 12               | 0.91        |
| 140S | 1,650             | 2,660.0                 | 203            | 384.0 | 152 | 182.8 | 267     | 406  | 135     | 205  | 266 | 386 | 9.5 | 12               | 1.13        |
| 150S | 1,500             | 3,687.0                 | 254            | 453.1 | 173 | 182.9 | 345     | 371  | 175     | 187  | 334 | 425 | 9.5 | 14               | 1.95        |
| 160S | 1,350             | 5,185.0                 | 279            | 501.4 | 186 | 198.1 | 356     | 406  | 180     | 205  | 366 | 457 | 9.5 | 14               | 2.81        |
| 170S | 1,225             | 6,913.0                 | 330            | 566.4 | 220 | 215.9 | 384     | 445  | 194     | 224  | 425 | 527 | 9.5 | 16               | 3.49        |
| 180S | 1,100             | 9,586.0                 | 330            | 629.9 | 249 | 238.8 | 400     | 490  | 202     | 247  | 451 | 591 | 9.5 | 16               | 3.76        |
| 190S | 1,050             | 12,670.0                | 362            | 675.5 | 276 | 259.1 | 411     | 530  | 207     | 267  | 508 | 660 | 9.5 | 18               | 4.40        |
| 200S | 900               | 17,280.0                | 381            | 756.9 | 305 | 279.4 | 445     | 575  | 224     | 289  | 530 | 711 | 9.5 | 18               | 5.62        |

※ The values of weight and GD<sup>2</sup> are only for without machining.

GEAR

DISK

GRID

FLUID

RUBBER

TIRE

WIRE DRUM

JAW

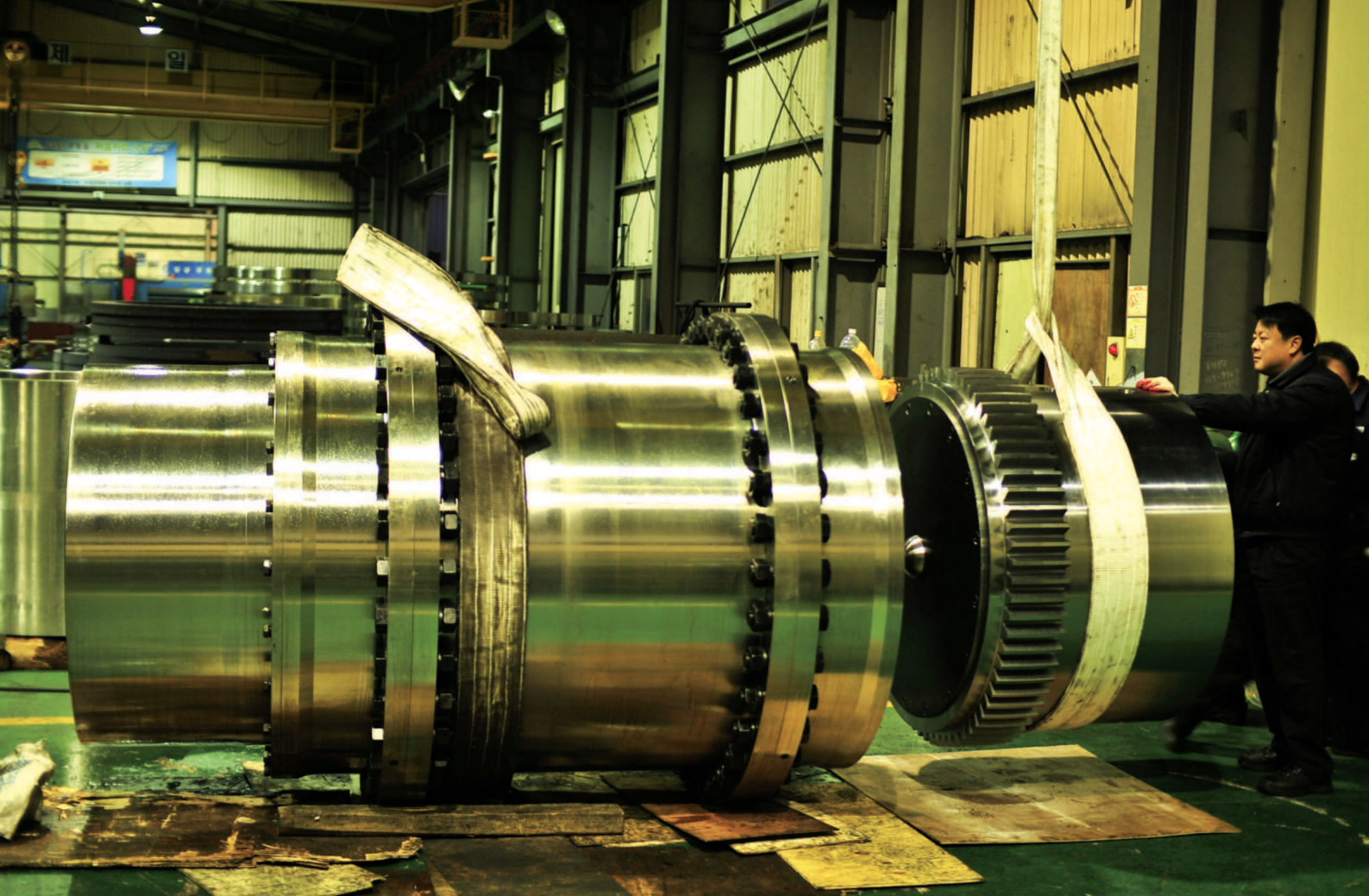
CHAIN / MUFF

FLANGE  
BRAKE DRUM

WIND TURBINE

COMPOSITE





 **Jac coupling**

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E-mail : [jac@jacoup.co.kr](mailto:jac@jacoup.co.kr)