

### Features

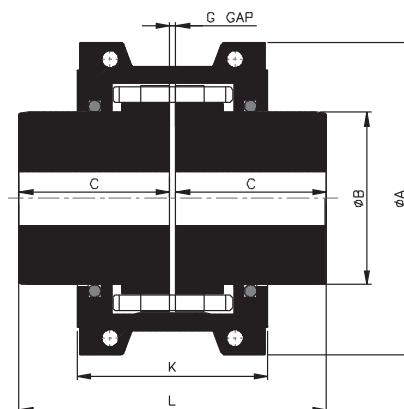
- Torsionally Flexible.
- Vibration dampening - reduced peak / shock loads.
- Accommodates angular, parallel & axial misalignments.
- Low operating cost.
- Smooth & quiet operation.
- Low & easy maintenance.
- Overload conditions cause the grid element to shear, like a mechanical fuse.
- Quick & easy installation.

### RGTH Coupling



### Applications

- Cement mills: Crushers and grinding machines.
- Steel mills: Coilers, cold mills, hot mills etc.
- Paper mills: Calendar, couch roll, suction roll, dryer drives etc.
- Sugar mills: Cane carrier and leveler, cane knife and crusher.
- General: Agitators, Blowers, conveyors, cranes etc.



### TECHNICAL DATA

| Coupling Size | KW at 100 rpm | Basic Torque (Nm) | Max. Speed (rpm) | PB  | Bore Dia (mm) |      | Dimensions (mm) |       |       |       |       | Gap (mm) | Lube weight (Kg) | Weight In (kg) |
|---------------|---------------|-------------------|------------------|-----|---------------|------|-----------------|-------|-------|-------|-------|----------|------------------|----------------|
|               |               |                   |                  |     | Min.          | Max. | ØA              | ØB    | C     | K     | L     |          |                  |                |
| 1020          | 0.54          | 52                | 4500             | 16  | 18            | 30   | 101.5           | 39.7  | 47.5  | 66.5  | 98.0  | 3.0      | 0.03             | 1.9            |
| 1030          | 1.56          | 149               | 4500             | 16  | 18            | 36   | 110.0           | 49.2  | 47.5  | 68.0  | 98.0  | 3.0      | 0.03             | 2.6            |
| 1040          | 2.61          | 249               | 4500             | 16  | 18            | 44   | 117.5           | 57.1  | 51.0  | 70.0  | 104.5 | 3.0      | 0.05             | 3.4            |
| 1050          | 4.56          | 435               | 4500             | 16  | 18            | 51   | 138.0           | 66.7  | 60.0  | 79.5  | 123.5 | 3.0      | 0.05             | 5.4            |
| 1060          | 7.16          | 684               | 4350             | 18  | 20            | 56   | 150.5           | 76.2  | 63.5  | 92.0  | 130.0 | 3.0      | 0.09             | 7.3            |
| 1070          | 10.41         | 994               | 4125             | 18  | 20            | 67   | 162.0           | 87.3  | 76.0  | 95.0  | 155.5 | 3.0      | 0.11             | 10.0           |
| 1080          | 21.47         | 2050              | 3600             | 25  | 27            | 80   | 194.0           | 104.8 | 89.0  | 116.0 | 181.0 | 3.0      | 0.17             | 18.0           |
| 1090          | 39.06         | 3730              | 3600             | 25  | 27            | 95   | 213.0           | 123.8 | 98.5  | 122.0 | 200.0 | 3.0      | 0.25             | 25.0           |
| 1100          | 65.76         | 6280              | 2400             | 39  | 42            | 110  | 250.0           | 142.0 | 120.5 | 155.5 | 245.5 | 4.5      | 0.43             | 42.0           |
| 1110          | 97.60         | 9320              | 2250             | 39  | 42            | 120  | 270.0           | 160.3 | 127.0 | 161.5 | 258.5 | 4.5      | 0.51             | 54.0           |
| 1120          | 143.47        | 13700             | 2025             | 58  | 61            | 140  | 308.0           | 179.4 | 149.5 | 191.5 | 304.5 | 6.0      | 0.73             | 81.0           |
| 1130          | 208.39        | 19900             | 1800             | 64  | 67            | 170  | 346.0           | 217.5 | 162.0 | 195.0 | 330.0 | 6.0      | 0.91             | 121.0          |
| 1140          | 299.50        | 28600             | 1650             | 64  | 67            | 200  | 384.0           | 254.0 | 184.0 | 201.0 | 371.5 | 6.0      | 1.13             | 178.0          |
| 1150          | 416.78        | 39800             | 1500             | 104 | 108           | 215  | 453.0           | 269.2 | 183.0 | 271.0 | 372.0 | 6.0      | 1.95             | 234.0          |
| 1160          | 585.38        | 55900             | 1350             | 117 | 121           | 240  | 501.5           | 304.8 | 198.0 | 279.0 | 402.0 | 6.0      | 2.81             | 317.0          |
| 1170          | 781.21        | 74600             | 1225             | 130 | 134           | 280  | 566.5           | 355.6 | 216.0 | 304.0 | 438.0 | 6.0      | 3.49             | 448.0          |
| 1180          | 1078.61       | 103000            | 1100             | 149 | 153           | 300  | 630.0           | 393.7 | 239.0 | 321.0 | 483.5 | 6.0      | 3.76             | 619.0          |
| 1190          | 1434.66       | 137000            | 1050             | 149 | 153           | 335  | 675.5           | 436.9 | 259.0 | 325.0 | 524.5 | 6.0      | 4.40             | 776.0          |
| 1200          | 1947.79       | 186000            | 900              | 174 | 178           | 360  | 757.0           | 497.8 | 279.5 | 355.5 | 565.0 | 6.0      | 5.62             | 1058.0         |
| 1210          | 2607.52       | 249000            | 820              | 174 | 178           | 390  | 844.5           | 533.4 | 305.0 | 432.0 | 622.5 | 12.7     | 10.50            | 1424.0         |
| 1220          | 3518.58       | 336000            | 730              | 199 | 203           | 420  | 920.5           | 571.5 | 325.1 | 490.0 | 663.0 | 12.7     | 16.10            | 1785.0         |

### Lubrication:

For quality lubrication to get good performance and long life, Rathi Special Grease (RSG) is highly recommended. After every three months or every 240 ~ 250 operating hours, required to add grease. Every 6 months or every 4000 operating hours required to replace all deteriorated grease.

### Features

- Vertical split cover: Ideal for higher running speeds and general purpose. Horizontal split also available for specific applications.
- Lubrication fittings: One or more lube holes in each half cover makes for easier lubrication. Fill through one and remove other plug for venting.
- Seals: Durable synthetic material prevents loss of lubricant & entrance of water, dust or other foreign materials.
- Hubs: Made of steel for maximum strength.
- Taper Grid: Made of high strength steel, quenched and tempered to spring hardness.

### Selection Procedure

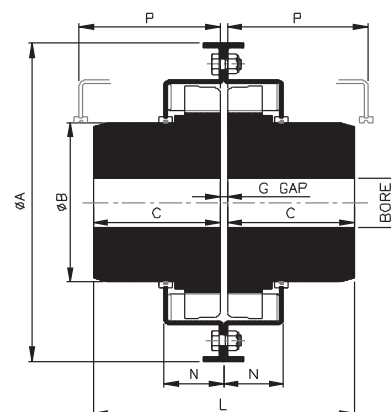
1. Select appropriate service factor F.
2. Calculate coupling Torque T (kNm)

$$T = \frac{9.55 \times \text{kW} \times F}{N}$$

Where kW = Drive rated power (kW)  
N = Speed (rev./min)

3. Select coupling with the same or higher Torque.
4. Check hub bore capacity.
5. Check allowable speed.

### RGTV Coupling



### TECHNICAL DATA

| Coupling Size | kW at 100 RPM | Basic Torque (Nm) | Max. Speed (rpm) | PB  | Bore Dia (mm) |      | Dimensions (mm) |       |       |       |       |       | Gap (mm) | Lube weight (Kg) | Weight In (kg) |
|---------------|---------------|-------------------|------------------|-----|---------------|------|-----------------|-------|-------|-------|-------|-------|----------|------------------|----------------|
|               |               |                   |                  |     | Min.          | Max. | ØA              | ØB    | C     | L     | N     | P     |          |                  |                |
| 1020          | 0.54          | 52                | 6000             | 16  | 18            | 30   | 111.0           | 39.7  | 47.5  | 98.0  | 24.0  | 47.5  | 3.0      | 0.030            | 2.0            |
| 1030          | 1.56          | 149               | 6000             | 16  | 18            | 36   | 121.0           | 49.2  | 47.5  | 98.0  | 25.0  | 47.5  | 3.0      | 0.030            | 2.6            |
| 1040          | 2.61          | 249               | 6000             | 16  | 18            | 44   | 128.5           | 57.1  | 51.0  | 104.5 | 25.5  | 51.0  | 3.0      | 0.050            | 3.4            |
| 1050          | 4.56          | 435               | 6000             | 16  | 18            | 51   | 147.5           | 66.7  | 60.5  | 123.5 | 31.0  | 60.5  | 3.0      | 0.050            | 5.4            |
| 1060          | 7.16          | 684               | 6000             | 18  | 20            | 56   | 162.0           | 76.2  | 63.5  | 130.0 | 32.0  | 63.5  | 3.0      | 0.090            | 7.3            |
| 1070          | 10.41         | 994               | 5500             | 18  | 20            | 67   | 173.0           | 87.3  | 76.0  | 155.5 | 33.5  | 76.0  | 3.0      | 0.110            | 10.4           |
| 1080          | 21.47         | 2050              | 4750             | 25  | 27            | 80   | 200.0           | 104.8 | 89.0  | 181.0 | 44.0  | 89.0  | 3.0      | 0.170            | 17.7           |
| 1090          | 39.06         | 3730              | 4000             | 25  | 27            | 95   | 232.0           | 123.8 | 98.5  | 200.0 | 47.5  | 98.5  | 3.0      | 0.250            | 25.4           |
| 1100          | 65.76         | 6280              | 3250             | 39  | 42            | 110  | 267.0           | 142.0 | 120.5 | 245.5 | 60.0  | 120.5 | 4.5      | 0.430            | 42.2           |
| 1110          | 97.60         | 9320              | 3000             | 39  | 42            | 120  | 286.0           | 160.3 | 127.0 | 258.5 | 64.0  | 127.0 | 4.5      | 0.510            | 54.4           |
| 1120          | 143.47        | 13700             | 2700             | 58  | 61            | 140  | 319.0           | 179.4 | 149.0 | 304.5 | 73.5  | 149.0 | 6.0      | 0.730            | 81.6           |
| 1130          | 208.39        | 19900             | 2400             | 64  | 67            | 170  | 378.0           | 217.5 | 162.0 | 330.0 | 75.0  | 162.0 | 6.0      | 0.910            | 122.5          |
| 1140          | 299.50        | 28600             | 2200             | 64  | 67            | 200  | 416.0           | 254.0 | 184.0 | 371.5 | 78.0  | 184.0 | 6.0      | 1.130            | 180.1          |
| 1150          | 416.78        | 39800             | 2000             | 104 | 108           | 215  | 476.5           | 269.2 | 183.0 | 372.0 | 107.0 | 183.0 | 6.0      | 1.950            | 230.0          |
| 1160          | 585.38        | 55900             | 1750             | 117 | 121           | 240  | 533.5           | 304.8 | 198.0 | 402.0 | 114.5 | 198.0 | 6.0      | 2.810            | 321.1          |
| 1170          | 781.21        | 74600             | 1600             | 130 | 134           | 280  | 584.0           | 355.6 | 216.0 | 438.0 | 120.0 | 216.0 | 6.0      | 3.490            | 448.2          |
| 1180          | 1078.61       | 103000            | 1400             | 149 | 153           | 300  | 630.0           | 393.7 | 239.0 | 483.5 | 130.0 | 239.0 | 6.0      | 3.760            | 591.0          |
| 1190          | 1434.66       | 137000            | 1300             | 149 | 153           | 335  | 685.0           | 436.9 | 260.0 | 524.5 | 135.0 | 259.0 | 6.0      | 4.400            | 761.0          |
| 1200          | 1947.79       | 186000            | 1100             | 174 | 178           | 360  | 737.0           | 497.8 | 279.5 | 565.0 | 145.0 | 279.5 | 6.0      | 5.620            | 1021.0         |

- All dimensions are in mm unless otherwise specified.

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