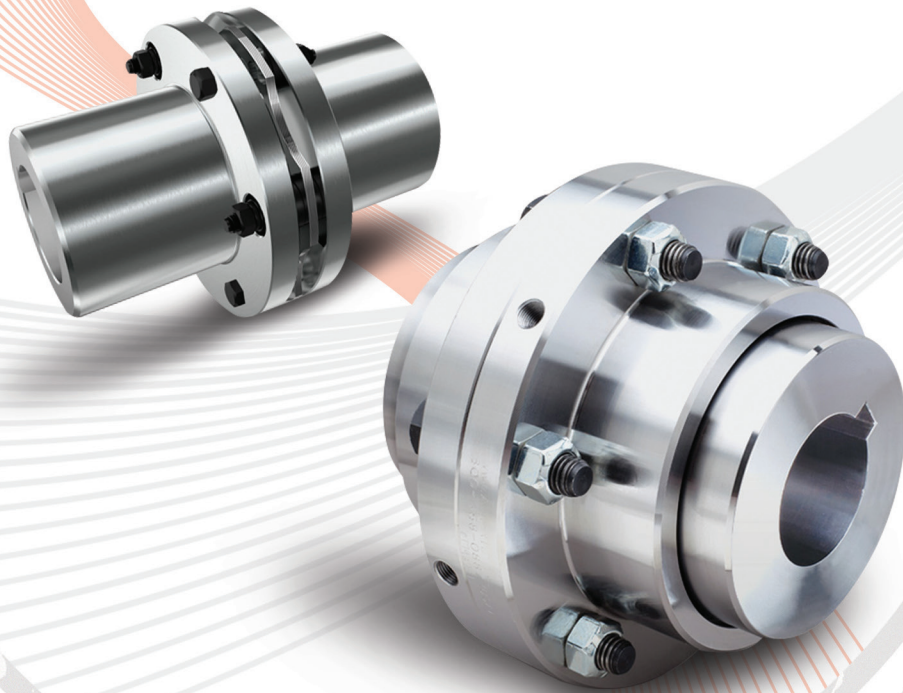




# WHERE PRODUCT SPEAKS



**SAHARA ENGINEERS**  
MOVE YOUR INDUSTRIES IN TOP GEAR

Plot No.-1512, Phase-III, G.I.D.C., Vatva, Ahmedabad - 382445. (Gujarat)

Office No: 98250 47350, 95867 08959

Mob: 98250 47355, 99250 47355

Email: [saharaengineers2838@yahoo.com](mailto:saharaengineers2838@yahoo.com) | [info@saharaengineersindia.com](mailto:info@saharaengineersindia.com)



## ABOUT US

**SAHARA ENGINEERS** is basically latest and modern engineering machine shop serving the industry since 1998. Sahara Engineers is **leading Gear Coupling Manufacturer, Exporter, Supplier in India**. We can manufacture highly precised jobs as Per clients requirement. Our latest machinery and highly skilled work force Can meet industrial requirement in all aspect. We do not just manufacture Components but enhanced the value of manufactured component by Adding our technical expertise and skill. We mainly manufacture machine Component and machinery for still / paper / cement / textile and ceramic Industry. Our large well designed infrastructure provide us enough strength And facilitate to fulfill our customers requirement.

Under the powerful leadership of our founder **Mr. Narsinh Sekhalia**, we have been able to put across our advanced equipments to our valued clients.

Sahara Engineers is Ahmedabad based well-known Gear Coupling Manufacturers in India. Also, **we export Gear Coupling out of India** and supply all over India. We offer a wide range of Gear Couplings that are manufactured using state of the art machines and latest technology.

## OUR QUALITY

We have always emphasized on the quality and the performance of our range which is a primary feature of our organization. For the overall development of our organization we provide only performance driven equipments to our valued clients. For the best quality of the machines we have employed quality analysts who are having the good experience in judging the quality of the supplies. The performance of the machines is **tested in critical and extreme conditions to ensure defect free machines**.

We have state-of-the-art manufacturing unit installed with sophisticated machines to ensure optimum production of our wide range of **Ferrous & Non Ferrous Metal Products**.

Our organization is listed among the most prominent manufacturers and suppliers of Gear Couplings. Offered couplings are precisely engineered in compliance with **industry laid parameters**, under strict supervision.

# FLEXIBLE GEAR COUPLINGS



Under the misalignment condition of two shafts of the equipment, the teeth contact in case of straight cut hub will be as minimum as shown in the figure no.1. Under heavy loads the ends of the hub teeth will get damaged resulting in the excessive play between hub and sleeve, and, therefore, the reduction in life of coupling.

## SAHARA ENGG. TRIPLE - CROWNED TEETH

The triple crowned teeth hub is manufactured on a fully automatic hobbing machine with built in crowning attachment which is controlled by hydraulic and electronic systems. Under the misalignment condition of two shafts on the equipment, due to the curvature of teeth flank the contact area is much more and therefore, there is increase in life of coupling

### MISALIGNMENT DETAILS:

In case of straight tooth coupling the maximum allowable angular misalignment ( $\alpha$ ) is 1.1/2 degree. And in case of SAHARA ENGG. Triple Crowned Tooth Gear Coupling the misalignment is 7.1/2 degree.

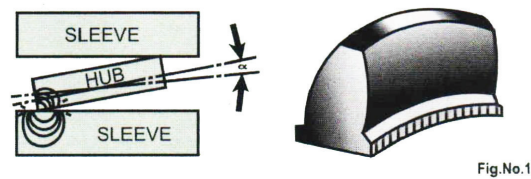


Fig.No.1

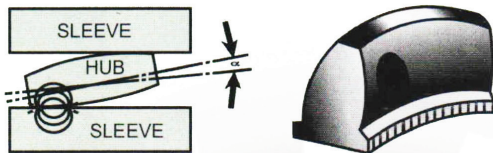


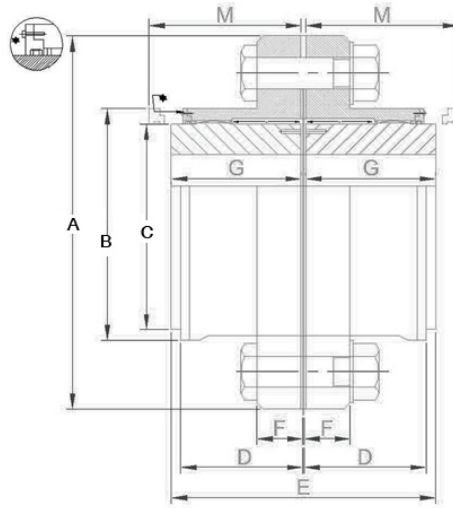
Fig.No.2

| Driven Unit (Machinery)                                                                                                                                                                                                                                                         | Electric Motor or Steam Turbine | Gasoline or Diesel Engine 4 or more cyl. | Gasoline or Diesel Engine more than 6 cyl. |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------------------------------|--------------------------------------------|
| <b>LIGHT</b><br>Uniform or steady load never exceeding horse rating, infrequent starting, Agitators, Blowers, Can Filling Machines, Conveyors, Fans, Generators, Pumps, Steering Gear, Stokers                                                                                  | 1.0                             | 1.5                                      | 2.0                                        |
| <b>MODERATE</b><br>Heavy interia, moderate stock, frequent starting, peak load do not exceed 125 per cent average horse power, uneven load, Conveyors, Feeders, Welding, Laundry Washers, Mixers, Paper Mills, Printing Presses, Screens, Textile Industry, Car Pullers         | 1.5                             | 2.0                                      | 2.5                                        |
| <b>HEAVY</b><br>Heavy shock conditions or frequent reversing peak loads do not 150 per cent average horse power, Uneven load, Cranes & Hoists, Crushers, Dredges, Elevators, Hammer Mills, Limber Industry, Machine Tools, Metal Mills, Oil Industry, Rubber Industry, Windlass | 2.0                             | 2.5                                      | 3.0                                        |

## FEATURES

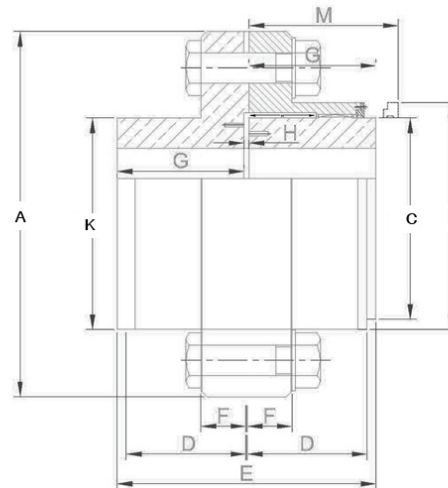
- Less Backlash.
- Compact Assembly.
- Larger Bore Capacities.
- High Power To Weight Ratio.
- Accomodates Angular, Parallel & Axial Alingments.
- Generally Used Upto 120°C. Can Be Used For Higher Tempretures By Using Proper Grade Of Grease or Oil.

## FULL GEAR COUPLINGS



| SIZE SFG | MAX. SORT MM | PILOT SORT MM | LOAD TORQUE KG.M | CAPACITY H.P. PER 100RPM | MAX. RPM | WT. WITH SOLID HUBS KG. | GD2  | DIMEXSIONS IN MM |      |     |      |      |    |     |      |     |
|----------|--------------|---------------|------------------|--------------------------|----------|-------------------------|------|------------------|------|-----|------|------|----|-----|------|-----|
|          |              |               |                  |                          |          |                         |      | A                | B    | c   | D    | E    | F  | G   | H    | M   |
| 100      | 35           | 10            | 50               | 7                        | 8000     | 4.2                     | 0.03 | 120              | 75   | 50  | 39.5 | 93   | 15 | 45  | 1.5  | 45  |
| 101      | 50           | 20            | 100              | 14                       | 6300     | 10                      | 0.14 | 170              | 110  | 65  | 49   | 115  | 17 | 55  | 2.5  | 65  |
| 102      | 60           | 30            | 250              | 35                       | 5000     | 15                      | 0.2  | 185              | 125  | 85  | 62   | 145  | 17 | 70  | 2.5  | 80  |
| 103      | 75           | 40            | 450              | 63                       | 4000     | 26                      | 0.48 | 220              | 150  | 105 | 78   | 175  | 20 | 85  | 2.5  | 105 |
| 104      | 90           | 50            | 850              | 119                      | 3350     | 40                      | 0.95 | 250              | 175  | 130 | 96   | 215  | 20 | 105 | 2.5  | 125 |
| 105      | 110          | 60            | 1300             | 182                      | 2800     | 62                      | 1.9  | 290              | 200  | 155 | 106  | 230  | 25 | 110 | 5.0  | 140 |
| 106      | 125          | 75            | 2000             | 280                      | 2500     | 85                      | 3    | 320              | 230  | 175 | 117  | 260  | 25 | 125 | 5.0  | 155 |
| 107      | 140          | 90            | 3500             | 490                      | 2100     | 120                     | 5.25 | 350              | 260  | 205 | 134  | 290  | 25 | 140 | 5.0  | 175 |
| 108      | 160          | 105           | 4500             | 630                      | 1900     | 180                     | 8.5  | 380              | 290  | 230 | 147  | 320  | 25 | 155 | 5.0  | 190 |
| 109      | 180          | 125           | 5600             | 784                      | 1700     | 210                     | 15   | 430              | 330  | 250 | 156  | 340  | 25 | 165 | 5.0  | 205 |
| 110      | 220          | 140           | 8200             | 1148                     | 1400     | 315                     | 30.5 | 490              | 390  | 310 | 171  | 370  | 25 | 180 | 5.0  | 220 |
| 111      | 260          | 160           | 11000            | 1536                     | 1250     | 550                     | 58   | 545              | 445  | 350 | 192  | 410  | 30 | 200 | 5.0  | 240 |
| 112      | 300          | 180           | 14700            | 2053                     | 1120     | 710                     | 88   | 590              | 490  | 400 | 231  | 490  | 30 | 240 | 5.0  | 280 |
| 113      | 330          | 200           | 20000            | 2793                     | 1000     | 980                     | 138  | 680              | 555  | 440 | 242  | 535  | 35 | 260 | 7.5  | 310 |
| 114      | 370          | 220           | 28600            | 3994                     | 900      | 1320                    | 291  | 730              | 610  | 500 | 266  | 575  | 35 | 280 | 7.5  | 330 |
| 115      | 410          | 250           | 34750            | 4852                     | 800      | 1700                    | 353  | 780              | 660  | 540 | 305  | 655  | 35 | 320 | 7.5  | 370 |
| 116      | 455          | 300           | 60000            | 8378                     | 710      | 2550                    | 680  | 900              | 755  | 625 | 335  | 720  | 45 | 350 | 10.0 | 425 |
| 117      | 520          | 375           | 83350            | 11917                    | 630      | 3620                    | 1235 | 1000             | 855  | 720 | 386  | 820  | 45 | 400 | 10.0 | 460 |
| 118      | 610          | 450           | 113000           | 15778                    | 560      | 4860                    | 1965 | 1100             | 950  | 810 | 430  | 920  | 55 | 450 | 10.0 | 510 |
| 119      | 710          | 520           | 149000           | 20805                    | 500      | 6380                    | 3012 | 1250             | 1050 | 910 | 446  | 1000 | 55 | 485 | 15.0 | 560 |

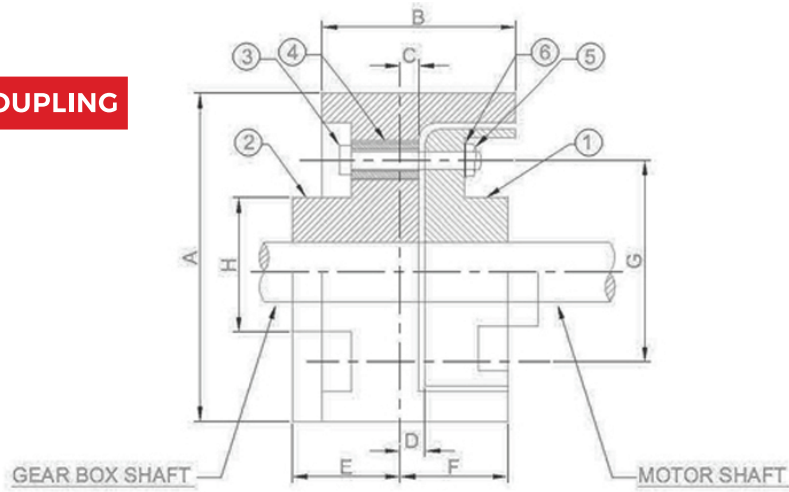
## HALF GEAR HALF RIGID COUPLINGS



| SIZE SHG | MAX.BORE MM. |       | PILOT BORE MM | LOAD CAPACITY |                  | MAX. RPM | WT. WITH SOLID HUBS KG. | GD2 KG. M | DIMENSIONS IN MM |     |     |      |     |    |     |     |       |       |     |
|----------|--------------|-------|---------------|---------------|------------------|----------|-------------------------|-----------|------------------|-----|-----|------|-----|----|-----|-----|-------|-------|-----|
|          | GEAR         | RIGID |               | TORQUE KG. M  | H.P. PER 100 RPM |          |                         |           | A                | B   | C   | D    | E   | F  | G   | H   | J     | K     | M   |
| 100      | 35           | 50    | 10            | 50            | 7                | 8000     | 4.2                     | 0.03      | 120              | 75  | 50  | 39.5 | 93  | 15 | 45  | 1.5 | 46.5  | 70.0  | 45  |
| 101      | 50           | 60    | 20            | 100           | 14               | 6300     | 10                      | 0.14      | 170              | 110 | 65  | 49   | 115 | 17 | 55  | 2.5 | 57.5  | 85.0  | 65  |
| 102      | 60           | 75    | 30            | 250           | 35               | 5000     | 15                      | 0.2       | 185              | 125 | 85  | 62   | 145 | 17 | 70  | 2.5 | 72.5  | 110.0 | 80  |
| 103      | 75           | 90    | 40            | 450           | 63               | 4000     | 26                      | 0.48      | 220              | 150 | 105 | 78   | 175 | 20 | 85  | 2.5 | 87.5  | 130.0 | 105 |
| 104      | 90           | 110   | 50            | 850           | 119              | 3350     | 40                      | 0.95      | 250              | 175 | 130 | 96   | 215 | 20 | 105 | 2.5 | 107.5 | 160.0 | 125 |
| 105      | 110          | 130   | 60            | 1300          | 182              | 2800     | 62                      | 1.9       | 290              | 200 | 155 | 106  | 230 | 25 | 110 | 5.0 | 115.0 | 185.0 | 140 |
| 106      | 125          | 150   | 75            | 2000          | 280              | 2500     | 85                      | 3         | 320              | 230 | 175 | 117  | 260 | 25 | 125 | 5.0 | 130.0 | 215.0 | 155 |
| 107      | 140          | 170   | 90            | 3500          | 490              | 2100     | 120                     | 5.25      | 350              | 260 | 205 | 134  | 290 | 25 | 140 | 5.0 | 145.0 | 240.0 | 175 |
| 108      | 160          | 200   | 105           | 4500          | 630              | 1900     | 180                     | 8.5       | 380              | 290 | 230 | 147  | 320 | 25 | 155 | 5.0 | 160.0 | 285.0 | 190 |
| 109      | 180          | 220   | 125           | 5600          | 784              | 1700     | 210                     | 15        | 430              | 330 | 250 | 156  | 340 | 25 | 165 | 5.0 | 170.0 | 315.0 | 205 |
| 110      | 220          | 260   | 140           | 8200          | 1148             | 1400     | 315                     | 30.5      | 490              | 390 | 310 | 170  | 370 | 25 | 180 | 5.0 | 185.0 | 370.0 | 220 |

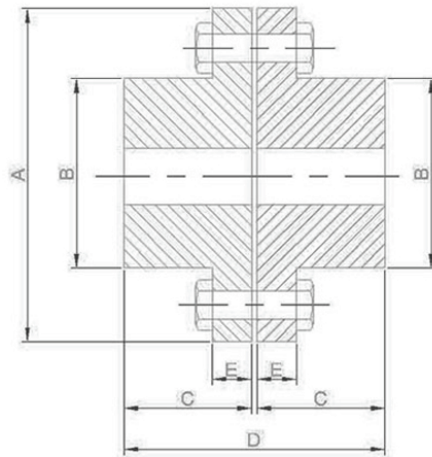


## FLEXIBLE BREAK COUPLING



| COUPLING SIZE | ØA  | B   | C | D  | E   | F   | ØG  | ØH  | FINISH BORE (I) |     | WEIGHT (KG) | TORQUE | HP/RPM | CD <sup>2</sup> KGM <sup>2</sup> |
|---------------|-----|-----|---|----|-----|-----|-----|-----|-----------------|-----|-------------|--------|--------|----------------------------------|
|               |     |     |   |    |     |     |     |     | MIN             | MAX |             |        |        |                                  |
| SFBC 100      | 100 | 65  | 3 | 6  | 32  | 32  | 64  | 45  | 16              | 25  | 4           | 15     | 0.0 16 | 0.02                             |
| SFBC 150      | 150 | 80  | 3 | 6  | 42  | 42  | 92  | 65  | 16              | 30  | 10          | 36     | 0.028  | 0.09                             |
| SFBC 160      | 160 | 90  | 3 | 6  | 42  | 42  | 96  | 70  | 16              | 30  | 12          | 36     | 0.030  | 0.13                             |
| SFBC 180      | 180 | 95  | 3 | 6  | 47  | 47  | 119 | 75  | 16              | 40  | 16          | 45     | 0.050  | 0.32                             |
| SFBC 200      | 200 | 102 | 6 | 10 | 57  | 73  | 127 | 90  | 16              | 55  | 18          | 63     | 0.050  | 0.32                             |
| SFBC 250      | 250 | 127 | 6 | 10 | 82  | 98  | 142 | 100 | 25              | 55  | 28          | 90     | 0.125  | 1.00                             |
| SFBC 300      | 300 | 152 | 6 | 10 | 89  | 105 | 197 | 127 | 25              | 75  | 61          | 250    | 0.350  | 2.50                             |
| SFBC 315      | 315 | 160 | 6 | 10 | 95  | 95  | 220 | 130 | 25              | 80  | 65          | 300    | 0.420  | 2.85                             |
| SFBC 400      | 400 | 180 | 3 | 6  | 147 | 156 | 250 | 150 | 25              | 100 | 130         | 360    | 0.500  | 9.94                             |
| SFBC 450      | 450 | 184 | 0 | 3  | 133 | 137 | 267 | 155 | 45              | 110 | 172         | 450    | 0.630  | 15.40                            |
| SFBC 500      | 500 | 210 | 6 | 9  | 144 | 159 | 290 | 200 | 45              | 125 | 250         | 950    | 1.380  | 27.50                            |

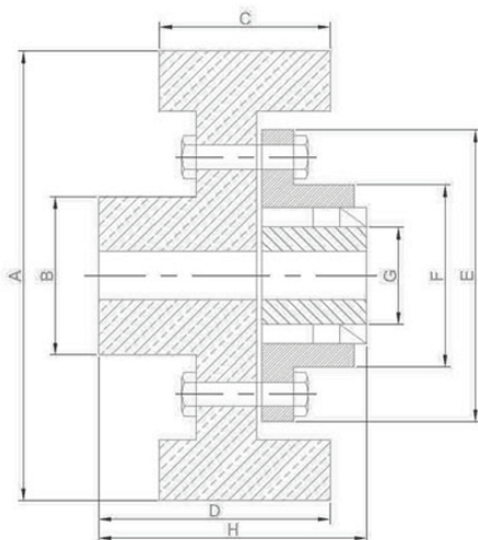
## RIGID COUPLING



| COUPLING SIZE | FINISH BORE |     | ØA  | ØB  | C     | ØD  | E  | WEIGHT (KG) | MAX. RPM |
|---------------|-------------|-----|-----|-----|-------|-----|----|-------------|----------|
|               | MIN         | MAX |     |     |       |     |    |             |          |
| SRC 100       | 10          | 50  | 120 | 70  | 46.5  | 93  | 15 | 7           | 8000     |
| SRC 101       | 20          | 60  | 170 | 85  | 57.5  | 115 | 17 | 14          | 6300     |
| SRC 102       | 30          | 75  | 185 | 110 | 72.5  | 145 | 17 | 21          | 5000     |
| SRC 103       | 40          | 90  | 220 | 130 | 87.5  | 175 | 20 | 35          | 4000     |
| SRC 104       | 50          | 110 | 250 | 160 | 107.5 | 215 | 20 | 52          | 3350     |
| SRC 105       | 60          | 130 | 290 | 185 | 115   | 230 | 25 | 75          | 2800     |
| SRC 106       | 75          | 150 | 320 | 215 | 130   | 260 | 25 | 108         | 2500     |
| SRC 107       | 90          | 170 | 350 | 240 | 145   | 290 | 25 | 145         | 2100     |
| SRC 108       | 105         | 200 | 380 | 285 | 160   | 320 | 25 | 175         | 1900     |
| SRC 109       | 125         | 220 | 430 | 315 | 170   | 340 | 25 | 268         | 1700     |
| SRC 110       | 140         | 260 | 490 | 370 | 185   | 370 | 25 | 388         | 1400     |

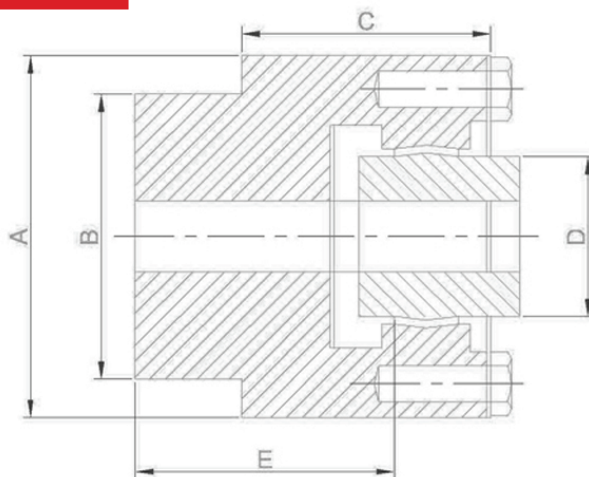


## BREAK DRUM WITH FLEXIBLE GEARED COUPLING

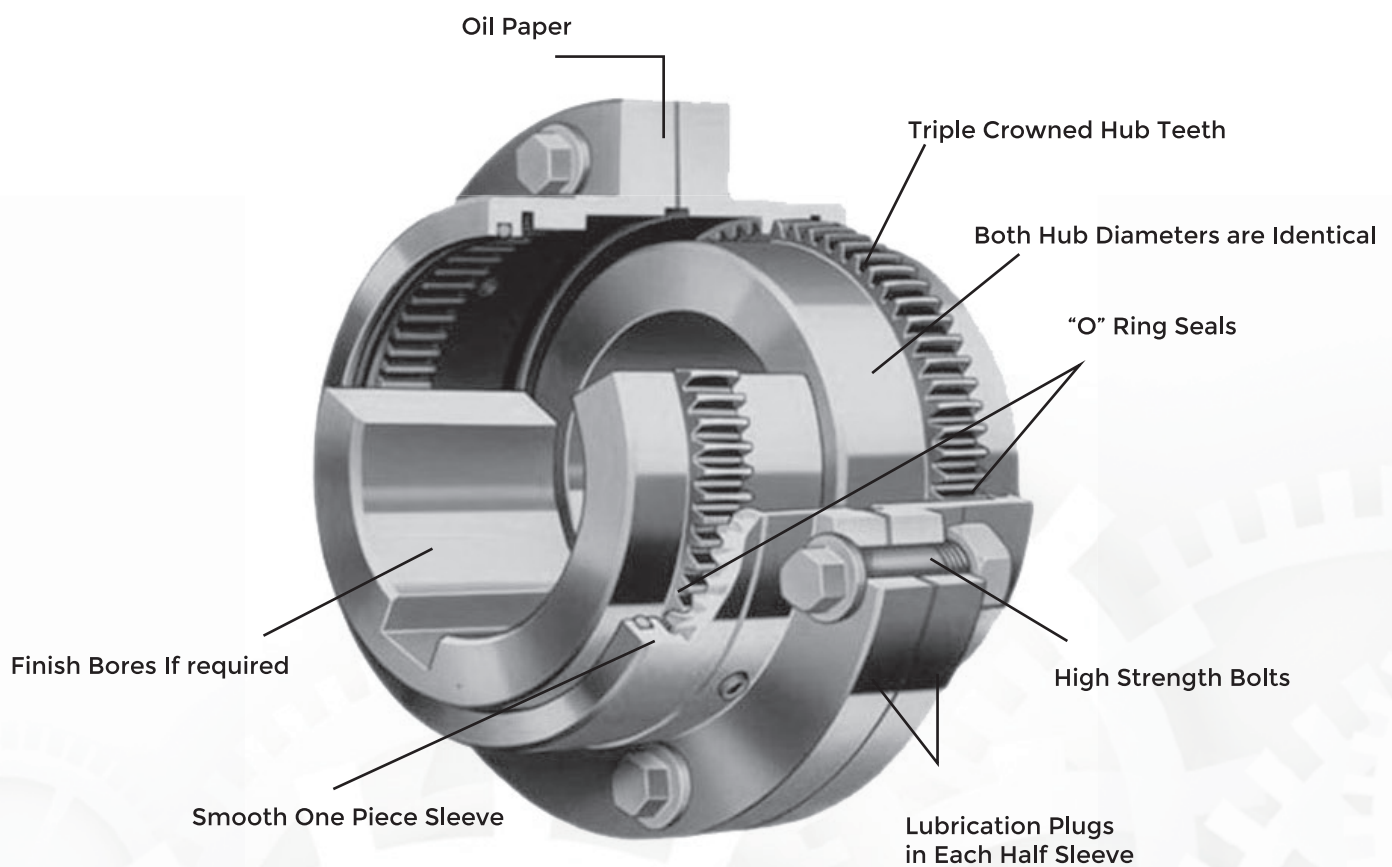


| COUPLING SIZE | FINISH BORE |     | ØA  | ØB  | C   | ØD  | E   | F   | G   | H   | WEIGHT (KG) | TORQUE | MAX.RPM |
|---------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------|--------|---------|
|               | MIN         | MAX |     |     |     |     |     |     |     |     |             |        |         |
| SBDG 150      | 10          | 30  | 150 | 65  | 80  | 95  | 120 | 75  | 50  | 110 | 11.5        | 50     | 8000    |
| SBDG 160      | 10          | 35  | 160 | 70  | 90  | 110 | 120 | 75  | 50  | 120 | 13.7        | 50     | 8000    |
| SBDG 200      | 20          | 45  | 200 | 90  | 100 | 120 | 170 | 110 | 65  | 134 | 23.5        | 100    | 6300    |
| SBDG 250      | 20          | 45  | 250 | 105 | 120 | 130 | 170 | 110 | 65  | 134 | 34.2        | 100    | 6300    |
| SBDG 250      | 30          | 55  | 250 | 105 | 120 | 130 | 185 | 125 | 85  | 149 | 41          | 250    | 5000    |
| SBDG 300      | 40          | 70  | 300 | 130 | 150 | 170 | 220 | 150 | 105 | 192 | 64.5        | 450    | 4000    |
| SBDG 300      | 50          | 85  | 300 | 130 | 150 | 170 | 250 | 175 | 130 | 212 | 72          | 850    | 3350    |
| SBDG 375      | 50          | 85  | 375 | 135 | 165 | 185 | 250 | 175 | 130 | 218 | 140         | 850    | 3350    |
| SBDG 400      | 50          | 85  | 400 | 150 | 180 | 210 | 250 | 175 | 130 | 225 | 152         | 850    | 3350    |
| SBDG 400      | 60          | 105 | 400 | 150 | 180 | 210 | 290 | 200 | 155 | 230 | 160         | 1300   | 2800    |
| SBDG 450      | 60          | 105 | 450 | 170 | 200 | 220 | 290 | 200 | 155 | 235 | 178         | 1300   | 2800    |
| SBDG 500      | 75          | 120 | 500 | 210 | 225 | 340 | 320 | 230 | 175 | 275 | 225         | 2000   | 2500    |

## BREAK DRUM GEARED COUPLING



| COUPLING SIZE | FINISH BORE |     | A     | B   | C   | D   | E   | WEIGHT (KG) | TORQUE | MAX. RPM |
|---------------|-------------|-----|-------|-----|-----|-----|-----|-------------|--------|----------|
|               | MIN         | MAX |       |     |     |     |     |             |        |          |
| SBDGC 4"      | 12          | 45  | 101.6 | 80  | 70  | 65  | 103 | 10          | 100    | 8000     |
| SBDGC 5 1/2"  | 15          | 50  | 139.7 | 82  | 90  | 70  | 130 | 19          | 100    | 6300     |
| SBDGC 6"      | 15          | 50  | 152.4 | 82  | 90  | 70  | 130 | 22          | 250    | 6300     |
| SBDGC 7"      | 20          | 55  | 177.8 | 90  | 100 | 85  | 140 | 33          | 450    | 5000     |
| SBDGC 8"      | 20          | 70  | 203.2 | 120 | 102 | 120 | 143 | 47          | 850    | 4000     |
| SBDGC 10"     | 20          | 80  | 254   | 130 | 120 | 125 | 160 | 82          | 2000   | 3350     |



**SAHARA ENGINEERS**

MOVE YOUR INDUSTRIES IN TOP GEAR

**Plot No.-1512, Phase-III, G.I.D.C., Vatva, Ahmedabad - 382445. (Gujarat)**

**Office No: 98250 47350, 95867 08959**

**Mob: 98250 47355, 99250 47355**

**Email: [saharaengineers2838@yahoo.com](mailto:saharaengineers2838@yahoo.com) | [info@saharaengineersindia.com](mailto:info@saharaengineersindia.com)**

**[WWW.GEARCOUPLINGSINDIA.COM](http://WWW.GEARCOUPLINGSINDIA.COM)**