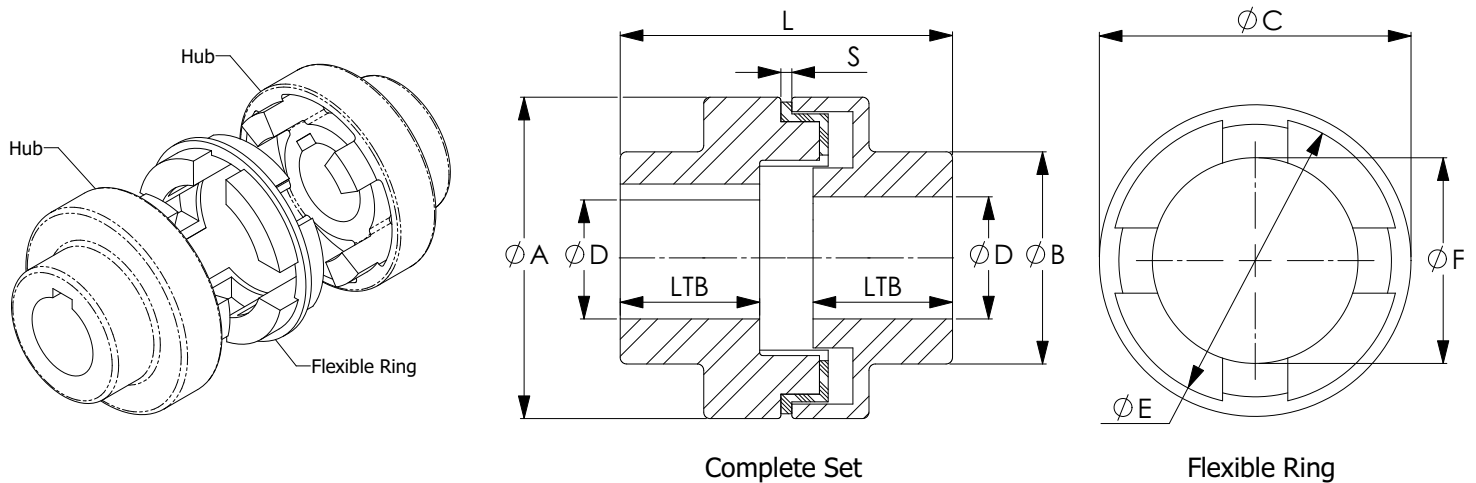


# NM coupling

NM coupling consists of two hubs and flexible ring able to compensate all types of shaft misalignments. The flexible rings are made of Nitile rubber (NBR) which have a high internal damping characteristic which enable to absorb and dampen torsional vibrations, operate effectively in temperature range of -40 °C to +100 °C. The NBR material also resists to oil, dirt, grease, moisture, ozone and many chemical solvents.



## Ratings and Dimensions

| NM<br>Size | Rated Torque    |               | Max.<br>Speed<br>(RPM.) | Bore, D       |               | Dimension (mm.) |     |     |       |           |     |       |       |                   |       | Total<br>Weight<br>(kg.) |
|------------|-----------------|---------------|-------------------------|---------------|---------------|-----------------|-----|-----|-------|-----------|-----|-------|-------|-------------------|-------|--------------------------|
|            | Normal<br>(Nm.) | Max.<br>(Nm.) |                         | Min.<br>(mm.) | Max.<br>(mm.) | A               | B   | LTB | L     | S         | C   | E     | F     | Number<br>Of jaws |       |                          |
| 50         | 13              | 27            | 13,500                  | 7             | 19            | 50              | 33  | 25  | 52.0  | 2.0 ± 0.5 | 49  | 44.5  | 31.5  | 4                 | 0.48  |                          |
| 67         | 22              | 45            | 10,000                  | 9             | 28            | 67              | 46  | 30  | 62.5  | 2.5 ± 0.5 | 66  | 59.0  | 41.5  | 4                 | 1.02  |                          |
| 82         | 48              | 100           | 8,000                   | 10            | 32            | 82              | 53  | 40  | 83.0  | 3.0 ± 1.0 | 81  | 73.5  | 50.5  | 4                 | 1.88  |                          |
| 97         | 96              | 200           | 7,000                   | 12            | 42            | 97              | 69  | 50  | 103.0 | 3.0 ± 1.0 | 96  | 91.0  | 65.0  | 5                 | 3.54  |                          |
| 112        | 150             | 310           | 6,000                   | 14            | 48            | 112             | 79  | 60  | 123.5 | 3.5 ± 1.0 | 111 | 104.0 | 75.5  | 6                 | 5.40  |                          |
| 128        | 250             | 500           | 5,000                   | 18            | 55            | 128             | 90  | 70  | 143.5 | 3.5 ± 1.0 | 127 | 116.5 | 85.0  | 6                 | 8.10  |                          |
| 148        | 390             | 800           | 4,500                   | 22            | 65            | 148             | 107 | 80  | 163.5 | 3.5 ± 1.0 | 147 | 135.0 | 105.5 | 7                 | 13.50 |                          |
| 168        | 630             | 1,300         | 4,000                   | 28            | 75            | 168             | 124 | 90  | 183.5 | 3.5 ± 1.5 | 167 | 154.0 | 121.0 | 8                 | 19.30 |                          |

Remarks: 1. Splined, hex, round, set screw or keyway bore available at additional charge.

2. Coupling hub material is made of cast iron.

3. Find Rated Torque by :  $\text{Rated Torque (Nm.)} = \frac{\text{Power (kW)} \times 9550 \times K_1 \times K_2 \times K_3}{\text{Speed (RPM)}}$

**Table 1. Service factor.**

| Operating type | Driven machine                                                                                                            | K <sub>1</sub> |
|----------------|---------------------------------------------------------------------------------------------------------------------------|----------------|
| slightly shock | Centrifugal fan and pumps, agitator for light liquid, light generator, conveyor belt, brewing machinery.                  | 1.5            |
| Medium shock   | Crane hoists, wood machinery, textile machinery, paper mill machinery, machine tools, centrifugal pump for loaded liquid. | 1.8            |
| Heavy shock    | Crusher, shakers, calender, reciprocating conveyor, welding set, heavy rolling mill, rubber machinery.                    | 2.0            |

**Table 2. Temperature factor**

| Temp.range (°C) | Temp. Factor K <sub>2</sub> |
|-----------------|-----------------------------|
| - 40 to +30     | 1.0                         |
| +30 to +40      | 1.0                         |
| +40 to +60      | 1.0                         |
| +60 to +80      | 1.2                         |
| +80 to +100     | 1.3                         |
| +100 to +120    | 1.4                         |

**Table 3. Start-up rate factor.**

| Switching per hour | K <sub>3</sub> |
|--------------------|----------------|
| Up to 120          | 1.0            |
| 120 to 140         | 1.3            |
| More than 240      | 1.5            |