

FLEXIBLE SHAFT COUPLINGS

Flexible Shaft Couplings are extensively used in numerous industrial applications for backlash free transmission of Torque; Speed & Motion from one shaft to another shaft. Flexible Shaft Couplings can adjust itself to misalignment of two shafts connected by it. Misalignment between two shafts causes loss of performance; power; damage to shafts; its bearings; there by generating heat & noise, thus damaging the rotating equipment. Misalignment (displacement) between two shafts can be axial; radial or angular. When motion transmission between two shafts is important, the misalignment should not affect the acceleration, speed or motion of the shaft. Following listed applications thus calls for a torsionally rigid but yet a backlash free Flexible Shaft Coupling.

Applications:

Shaft Encoders; Tachogenerators; Stepper & Synchronous Motors; Rotary Position Transmitters; Damper Drives; Potentiometers & Variacs; etc...

Features:

- Made from Aluminium Alloy; St. Steel; Brass; Nylon material.
- Series "AF" has inbuilt flange clamping.
- Series "AS" has set screw clamping.
- Angular offset up to 5 degrees.
- Parallel offset up to 0.2mm - No Backlash.
- Constant velocity transmission.
- Torsionally rigid.
- One piece construction.



Options:

Available in different Diameter & Bore Sizes • Higher torsional torque versions available on request • Assorted clamping types • Assorted materials • Optionally available with insert for electrical / thermal isolation.

STANDARD SIZES

(All dimension are in mm)

| Sr. No. | Outer Diameter | Inner Diameter | | Total Length | Ordering Code |
|---------|----------------|----------------|------------|--------------|-----------------------|
| | | Id1 = d1H7 | Id2 = d2H7 | | |
| 1 | 20.00 | 6.00 | 6.00 | 28.00 | AF 20-6-6, L=28 |
| 2 | | 6.00 | 8.00 | | AF 20-6-8, L=28 |
| 3 | | 6.35 | 8.00 | | AF 20-6.35-8, L=28 |
| 4 | | 6.00 | 6.35 | | AF 20-6-6.35, L=28 |
| 5 | | 6.35 | 6.35 | | AF 20-6.35-6.35, L=28 |
| 6 | 25.00 | 6.00 | 8.00 | 32.00 | AF 25-6-8, L=32 |
| 7 | | 6.00 | 10.00 | | AF 25-6-10, L=32 |
| 8 | | 8.00 | 8.00 | | AF 25-8-8, L=32 |
| 9 | | 10.00 | 10.00 | | AF 25-10-10, L=32 |
| 10 | | 6.00 | 9.52 | | AF 25-6-9.52, L=32 |
| 11 | | 6.00 | 6.35 | | AF 25-6-6.35, L=32 |
| 12 | | 8.00 | 10.00 | | AF 25-8-10, L=32 |
| 13 | | 6.35 | 8.00 | | AF 25-6.35-8, L=32 |
| 14 | | 6.35 | 10.00 | | AF 25-6.35-10, L=32 |

For Couplings with **Set Screw type clamping**, please substitute "AF" in Ordering Code above with "AS" while ordering.

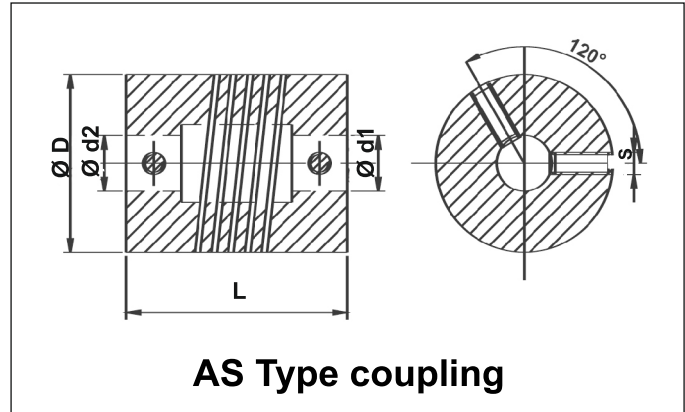
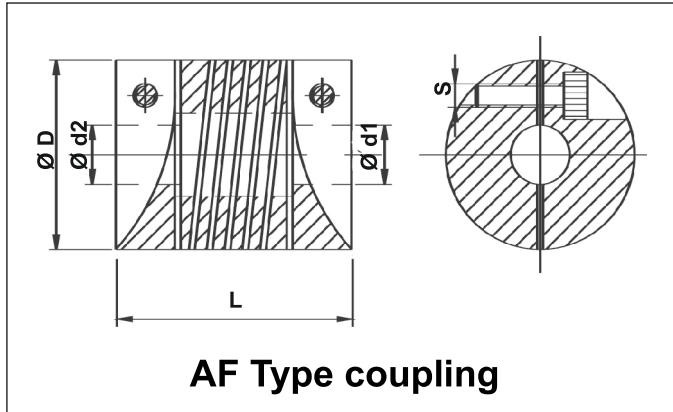
Couplings with other **Bore Sizes / Combinations** are available on request as per Customer specification, subject to minimum order quantity:10 Pcs.

Flexible Shaft Couplings

Type “AF” Couplings has clamping with **Allen Screws**. This arrangement is also called **Clamping Hub type clamping**. This gives full surface grip with shaft and the chances of slipping are very less. **We normally recommend this type of clamping.**

Type “AS” Couplings has clamping with **Set Screws**. This arrangement is also called **Set Screw type clamping**. This type of clamping gives point contact with shaft and the chances of slipping are more. We recommend this type clamping only for D shaped shafts.

Dimensional Drawings (All dimension below are in mm):



| AF Type | | | |
|-----------|-----------|---------------------------|-----------|
| D | L | d1/d2 H7 | S |
| 14 | 20 | Min 2mm - Max 4mm | M2 |
| 16 | 24 | Min 3mm - Max 6mm | M2.5 |
| 20 | 28 | Min 4mm - Max 8mm | M3 |
| 25 | 32 | Min 5mm - Max 11mm | M3 |
| 32 | 40 | Min 8mm - Max 12mm | M4 |
| 35 | 40/50 | Min 10mm - Max 17mm | M5 |
| 40 | 50 | Min 11mm - Max 20mm | M5 |
| 50 | 60 | Min 12mm - Max 25mm | M6 |

| AS Type | | | |
|---------|-------|---------------------|----|
| D | L | d1/d2 H7 | S |
| 14 | 20 | Min 2mm - Max 4mm | M2 |
| 16 | 24 | Min 3mm - Max 6mm | M3 |
| 20 | 28 | Min 4mm - Max 8mm | M3 |
| 25 | 32 | Min 5mm - Max 11mm | M4 |
| 32 | 40 | Min 8mm - Max 12mm | M4 |
| 35 | 40/50 | Min 10mm - Max 17mm | M5 |
| 40 | 50 | Min 11mm - Max 20mm | M6 |

Technical Details

| Size Ø D | Rated Torque Nm | Max. Shaft Misalignments | | Spring Rate | | Spring Rate Torsion Nm/rad | Momentum of Inertia | Clamping Screw Tightening Torque Nm |
|-------------|-----------------------|--------------------------|-------------|-------------|-------|----------------------------------|---------------------------|--|
| | | Lateral mm | Axial mm | Lateral | Axial | | | |
| 20 | 1.40 | 0.20 | 0.40 | 135 | 150 | 420 | 11.0 | 2.10 |
| 25 | 2.50 | 0.20 | 0.40 | 147 | 158 | 1350 | 32.0 | 2.10 |
| 32 | 7.00 | 0.25 | 0.45 | 178 | 225 | 2000 | 88.0 | 4.60 |
| 35 | 8.50 | 0.25 | 0.45 | 185 | 260 | 2250 | 99.0 | 4.60 |
| 40 | 11.00 | 0.25 | 0.45 | 210 | 310 | 2500 | 125.0 | 6.00 |
| 50 | 25.00 | 0.25 | 0.45 | 300 | 450 | 3000 | 156.0 | 6.00 |

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