

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.

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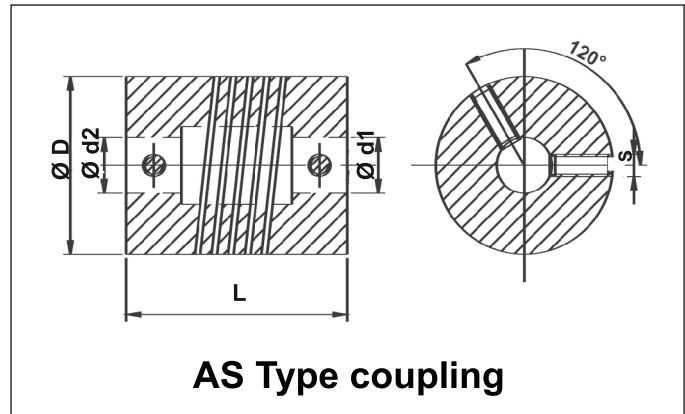
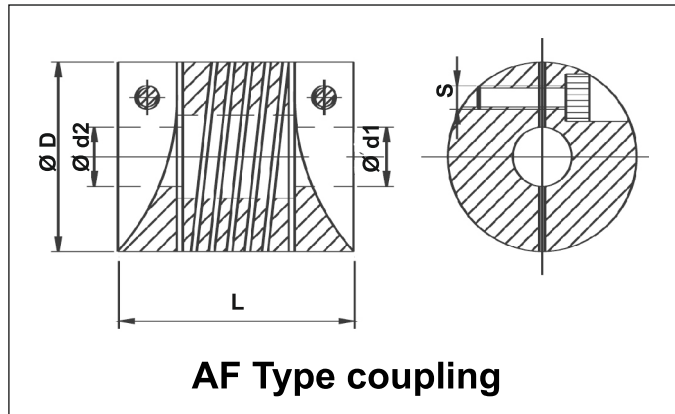
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Flexible Shaft Couplings

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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Tel.: 022-66337192 / 93 / +91-7021014510 • Email: sales@electrowebstore.com

Registered Office:
293 Princess Street, #S/3 Sopariwala House,
Mumbai - 400002. Maharashtra INDIA.

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