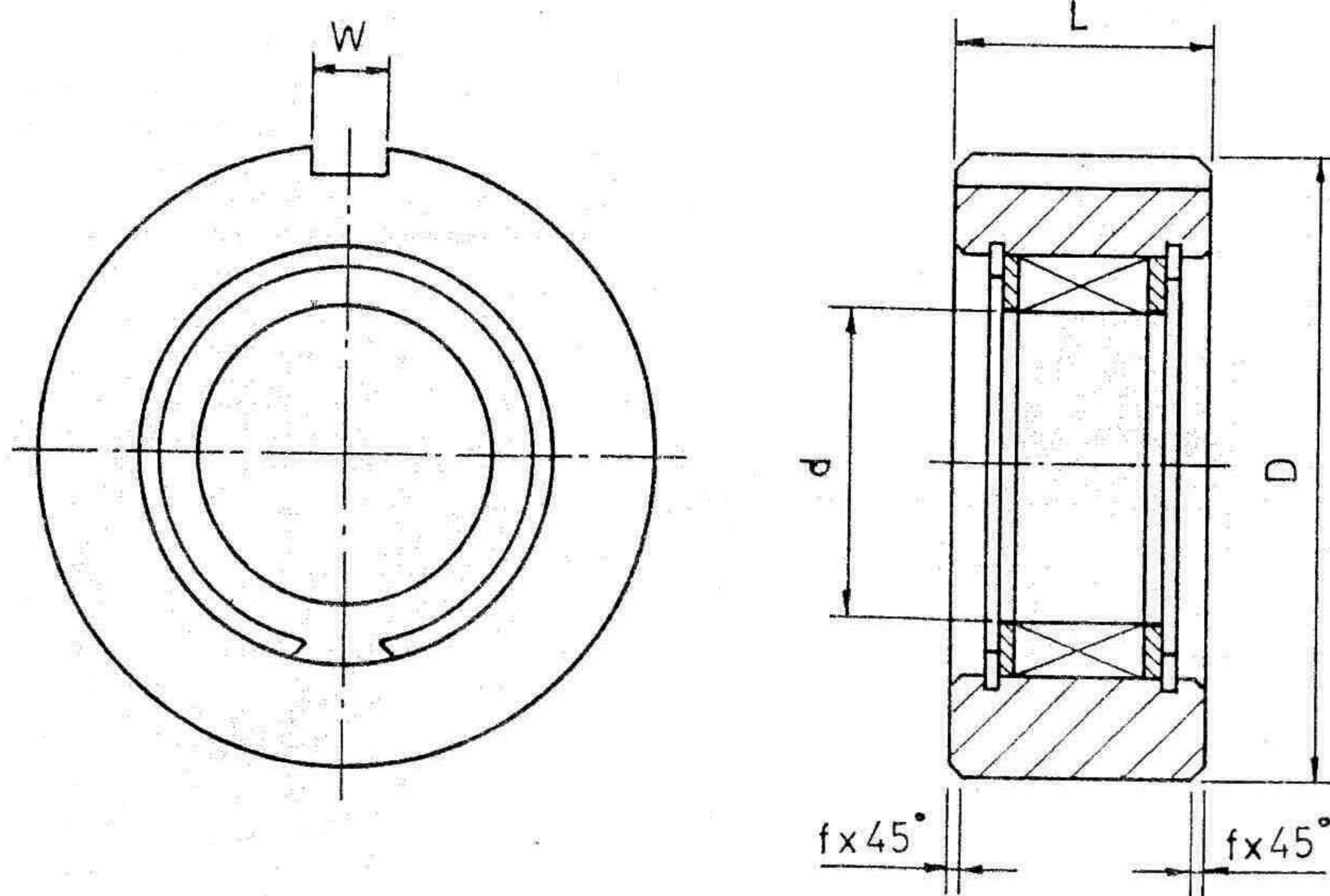


Direct Mounted Sprag Clutches



Type	Nominal Torque T_N Nm	Shaft Speed n_{max} RPM	D^{h7} mm	Shaft Dia d^{h6} mm	L mm	Keyway W mm	F mm
DM-033	101	3000	67.13	31.75	28.20	6.35 x 3.18	1.50
DM-002	190	2800	73.02	34.92	32.20	9.52 x 4.44	1.50
DM-034	223	2500	84.09	38.10	32.00	9.52 x 4.44	2.00
DM-003	320	2000	88.90	44.45	40.10	9.52 x 4.44	2.00
DM-035	300	2000	93.24	44.45	32.00	9.52 x 4.44	2.00
DM-004	452	2000	101.60	50.80	48.10	12.70 x 6.35	2.00
DM-056	430	2000	112.54	50.80	35.10	12.70 x 6.35	2.00
DM-005	562	1750	111.15	57.15	48.10	12.70 x 6.35	2.00
DM-057	527	1750	122.45	57.15	35.10	12.70 x 6.35	2.00
DM-036	594	1750	111.15	63.50	44.70	12.70 x 6.35	2.00
DM-039	690	1750	124.73	69.85	46.20	12.70 x 6.35	2.50
DM-040	780	1500	132.10	76.20	46.20	12.70 x 6.35	2.50
DM-037	1197	1500	146.71	82.60	51.00	12.70 x 6.35	2.50
DM-042	1616	1500	166.67	88.90	51.00	15.87 x 7.90	2.50
DM-203	2203	1500	172.23	95.25	60.60	15.87 x 7.90	2.50
DM-038	2440	1500	181.89	101.60	60.60	15.87 x 7.90	2.50

Direct mounted (DM) type sprag clutches are specifically designed for use as Backstops where for compactness of design it is necessary to mount the clutch so that an existing shaft serves as the inner race. This type of clutch is suitable for use in Gear Boxes and similar equipment where concentricity between shaft and housing is assured with the help of bearings and adequate lubrication is available.

To ensure satisfactory performance of these units, it is particularly recommended that 'PRECISION' review the working conditions and mounting arrangements.

The shaft which acts as an inner race should be hardened to case depth of 1.2 mm after grinding. Surface hardness should be 60 - 62 HRC and core hardness should be 35 - 45 HRC. Surface finish of the shaft should not exceed 6.3 μ m. and taper not to exceed 0.007 mm. per 25 mm length. Shaft and housing should be concentric within 0.02 mm. The clutch should be push fit (without pressing) in the housing bore. shaft end should have 3 mm long chamfer at 15° angle to ensure easy mounting of the clutch.