

AL..KMSD2



Back of
AL..KMSD2

TYPE



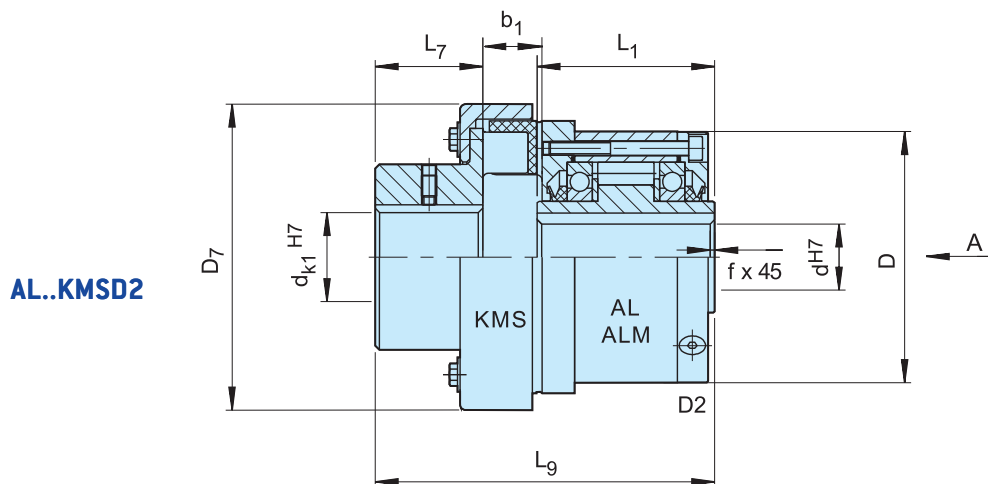
Type AL..KMSD2 is a roller type freewheel, self-contained, sealed and bearing supported, using two 160.. series bearings. Unit is delivered oil lubricated. This combination is used as overrunning clutch as shown overleaf.

In this design, a standard AL freewheel is connected to a KMS flexible coupling for in-line mounting. The KMS type is a rugged coupling, economical and suitable for

many applications. D2 cover is used to close the unit. It is equipped with two screws for oil filling, drain and level. We recommend the unit is supplied assembled.

Please specify inner race direction of rotation seen from the D2 flange. Refer to manufacturer's catalogue to check coupling selection.

Coupling half: keyway tolerance P9



| Type | Size | KMS | T_{KN} (Nm) | Overrunning speeds | | | | | | | | Weight (kg) | |
|-------------|------------|------|------------------|--|--|-----------------------|-----------|---------------|---------------|---------------|---------------|----------------|---------------|
| | | | | $n_{max}^{1)}$ [min ⁻¹] | $n_{max}^{2)}$ [min ⁻¹] | d_{k1}^{H7} [mm] | D [mm] | L_1 [mm] | D_7 [mm] | L_7 [mm] | L_9 [mm] | | b_1 [mm] |
| AL..KMSD2 | 12 | 4 | 50 | 2500 | 6000 | 7... 35 | 62 | 42 | 78 | 40 | 100 | 18 | 2.10 |
| | 15 | 6.3 | 79 | 1900 | 6000 | 12... 40 | 68 | 52 | 90 | 45 | 116 | 20 | 2.70 |
| | 20 | 10 | 125 | 1600 | 5600 | 10... 45 | 75 | 57 | 117 | 48 | 123.5 | 17 | 3.80 |
| | 25 | 10 | 125 | 1400 | 4500 | 10... 45 | 90 | 60 | 117 | 48 | 126.5 | 17 | 4.4 |
| | 30 | 16 | 200 | 1300 | 4100 | 10... 50 | 100 | 68 | 129 | 52 | 140 | 19 | 5.9 |
| | 35 | 25 | 313 | 1100 | 3800 | 15... 55 | 110 | 74 | 134 | 57 | 155 | 22 | 8.1 |
| | 40 | 40 | 500 | 950 | 3400 | 20... 60 | 125 | 86 | 155 | 61 | 173 | 26 | 11.4 |
| | 45 | 63 | 788 | 900 | 3200 | 20... 70 | 130 | 86 | 175 | 67 | 186 | 30 | 13.3 |
| | 50 | 100 | 1250 | 850 | 2800 | 25... 75 | 150 | 92 | 196 | 75 | 208.5 | 35 | 19.1 |
| | 55 | 100 | 1250 | 720 | 2650 | 25... 75 | 160 | 104 | 196 | 75 | 216.5 | 35 | 20.4 |
| | 60 | 160 | 2000 | 680 | 2450 | 30... 80 | 170 | 114 | 223 | 82 | 243 | 41 | 27.1 |
| | 70 | 250 | 3125 | 580 | 2150 | 35... 90 | 190 | 134 | 252 | 89 | 277.5 | 47 | 40.4 |
| | 80 | 400 | 5000 | 480 | 1900 | 45... 100 | 210 | 144 | 290 | 97 | 305 | 56 | 57 |
| | 90 | 630 | 7875 | 380 | 1700 | 60... 120 | 230 | 158 | 330 | 116 | 346.5 | 64 | 87 |
| | 100 | 1000 | 12500 | 350 | 1450 | 75... 140 | 270 | 182 | 378 | 140 | 386 | 75 | 131 |
| | 120 | 1600 | 20000 | 250 | 1250 | 90... 160 | 310 | 202 | 432 | 160 | 430 | 85 | 196 |
| 150 | On Request | | | | | | | | | | | | |
| 200 | On Request | | | | | | | | | | | | |
| 250 | On Request | | | | | | | | | | | | |
| ALM.. KMSD2 | 25 | 16 | 200 | 1100 | 2800 | 12... 50 | 90 | 60 | 117 | 52 | 132.5 | 19 | 4.4 |
| | 30 | 25 | 313 | 1000 | 2500 | 15... 55 | 100 | 68 | 129 | 57 | 150 | 22 | 5.9 |
| | 35 | 40 | 500 | 900 | 2400 | 18... 60 | 110 | 74 | 134 | 61 | 163 | 26 | 8.1 |

NOTES

1) Inner race overruns

2) Outer race overruns

Keyway to DIN 6885.1

When ordering, please specify bore $\varnothing d_k$ and direction of rotation seen from arrow „A“: „R“ Inner race overruns in clockwise direction, „L“ Inner race overruns in counter-clockwise direction

» Refer to mounting and maintenance instructions page 16 to 19

MOUNTING EXAMPLE