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for bolting to the face
with sprag lift-off X



Application as

- ▶ Backstop
- ▶ Overrunning Clutch

For application as backstop in installations with high speeds in freewheeling operation.

For application as overrunning clutch in installations with low speeds in driving operation.

Features

Integrated Freewheels FXM are sprag free-wheels without bearing support and with sprag lift-off X.

The sprag lift-off X ensures a wear-free freewheeling operation when the inner ring rotates at high speed.

Nominal torques up to 1 230 000 Nm.

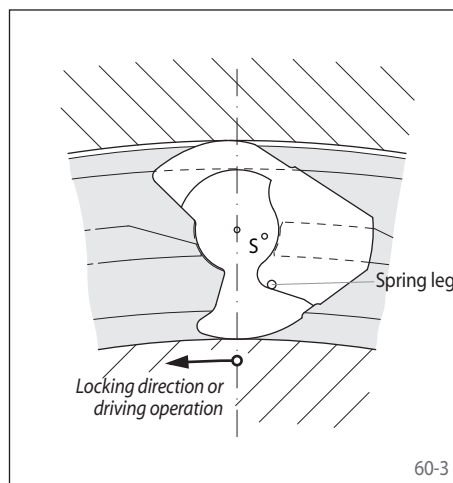
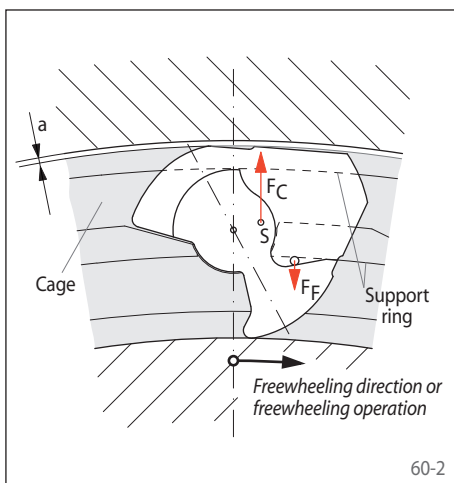
Bores up to 560 mm. A multitude of standardized bore diameters are available with short delivery times.

Srag lift-off X

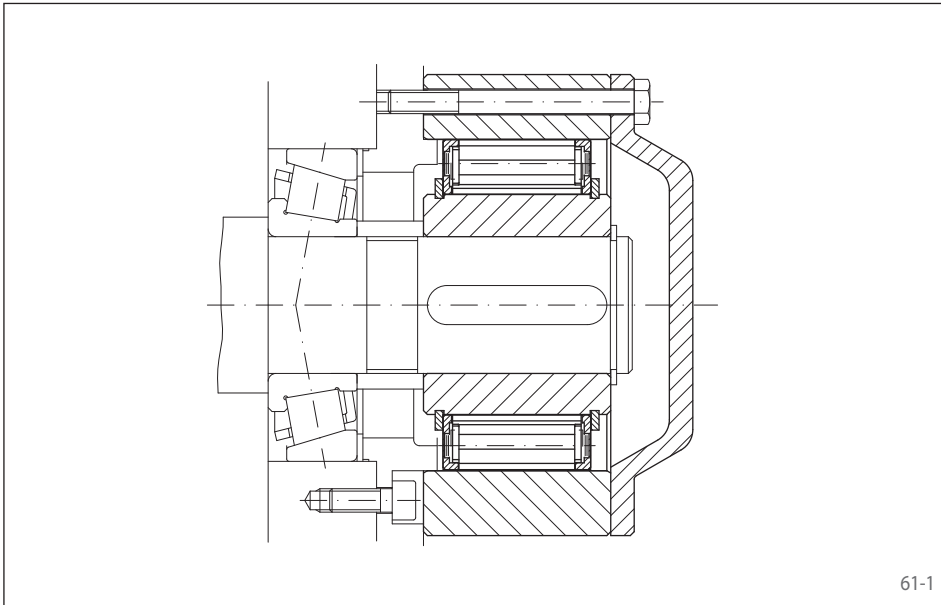
Integrated Freewheels FXM are equipped with sprag lift-off X. The sprag lift-off X is used for backstops and overrunning clutches, provided that in freewheeling operation the inner ring is rotating at high speed and providing with overrunning clutches that the driving operation is conducted at low speed. In freewheeling operation, the centrifugal force F_C causes the sprag to lift off from the outer track. In this operating state, the freewheel works wear-free, i.e. with unlimited service life.

Figure 60-2 shows a freewheel with sprag lift-off X in freewheeling operation. The sprags, which are supported in a cage connected with the inner ring, rotate with the inner ring. The centrifugal force F_C that is applied in the center of gravity S of the sprag turns the sprag counterclockwise and rests against the support ring of the cage. This results in the gap a between the sprag and the outer track; the freewheel works without contact. If the inner ring speed decreases to such an extent that the effect of

the centrifugal force on the sprag is less than that of the spring force F_F , the sprag again rests on the outer ring and the freewheel is ready to lock (figure 60-3). If used as an overrunning clutch, the driving speed must not exceed 40% of the lift-off speed.



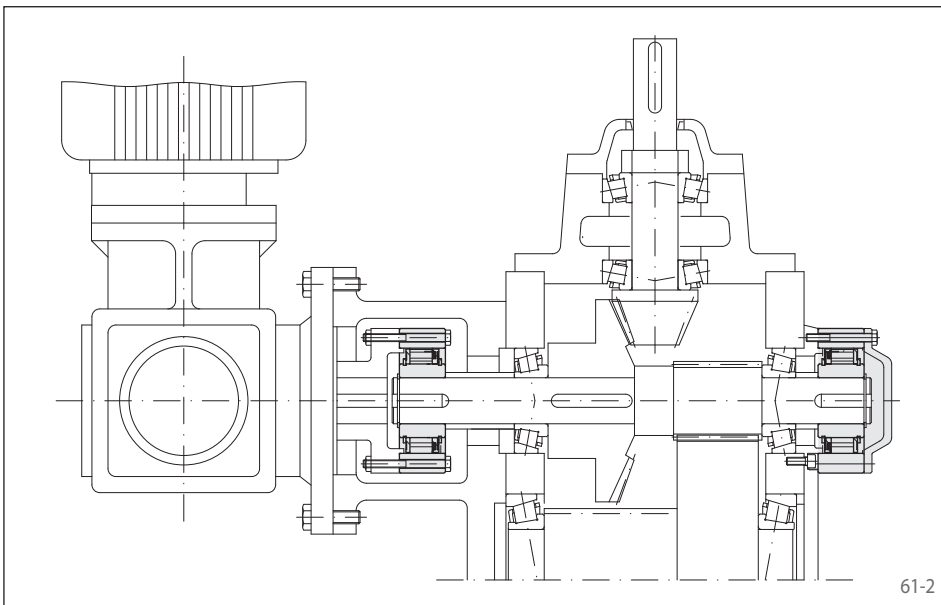
for bolting to the face
with sprag lift-off X



61-1

Application example

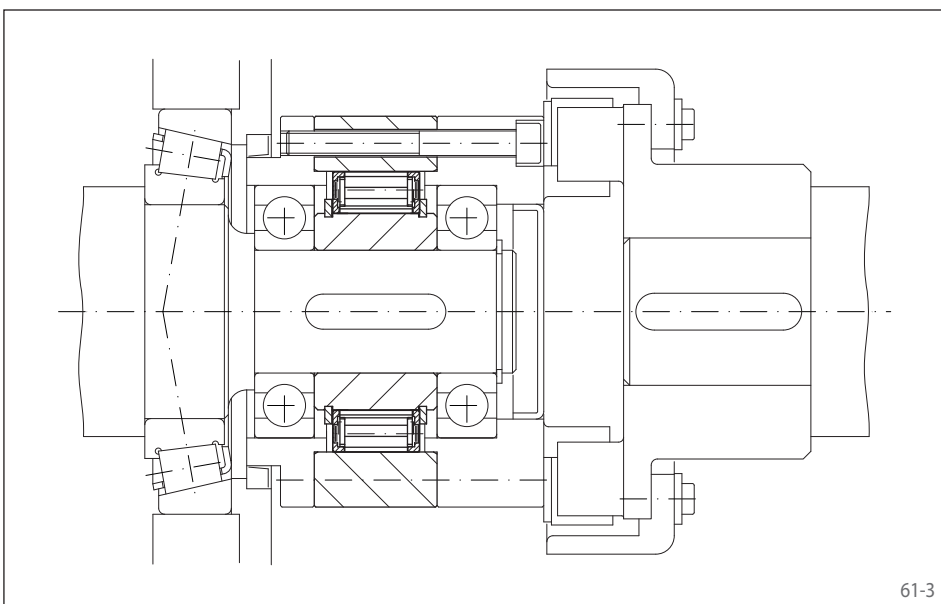
Integrated Freewheel FXM 170 - 63 MX with end cover as backstop fitted to the end of the first intermediate shaft of a spur gearbox in the drive of an inclined conveyor belt. In the case of a motor stop, the conveyor belt must be held securely so that the conveyor goods do not pull the belt backwards and possibly cause serious damage. Due to the high shaft speeds in normal operation (freewheeling operation), the sprag lift-off X ensures a contactless and hence wear-free continuous operation.



61-2

Application example

Two Integrated Freewheels FXM 120 – 50 MX in the gearbox unit of a vertical bucket conveyor. Alongside the main drive, the bucket conveyor has a creep drive, which can be moved at a low speed if maintenance work needs to be carried out. The freewheel arranged between the creep drive and the main drive works as an overrunning clutch. When the creep drive operates, the freewheel is in driving operation. In normal operation, when driving via the main drive, the inner ring of the freewheel overruns at high speed and automatically disengages the creep drive. The second freewheel that is arranged on the end of the first intermediate shaft of the main gearbox, works as a backstop and prevents the bucket conveyor from running back when the unit is at a standstill.

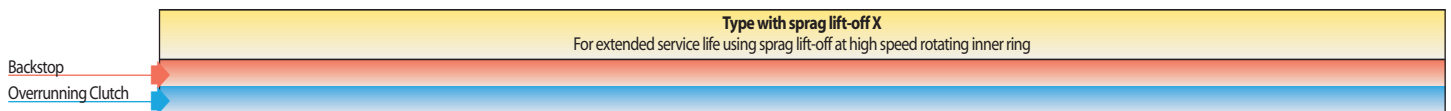
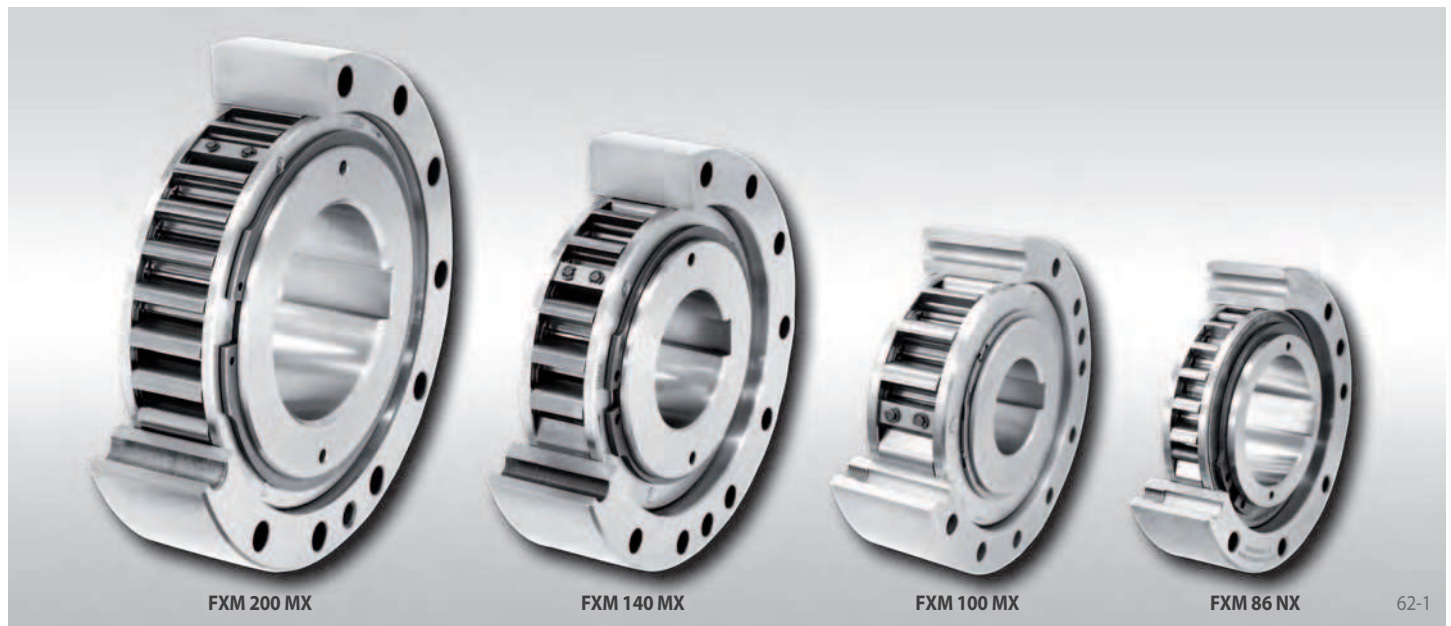


61-3

Application example

Integrated Freewheel FXM 76-25 NX as an overrunning clutch between the creep drive and the main drive of a cement mixer. When the creep drive operates, the outer ring is driven by the shaft coupling. The freewheel works in driving operation and drives the unit at a low speed via the main gearbox. In normal operation (freewheeling operation), the inner ring overruns at high speed and the creep drive is automatically disengaged. With the high shaft speed, the type sprag lift-off X is used; the sprags work in freewheeling operation without contact and hence are wear-free. The arrangement of the seals between the freewheel and the main gearbox is advantageous. In freewheeling operation, this is at a standstill and hence generates no additional friction-related temperature rise.

for bolting to the face
with sprag lift-off X



| Freewheel Size | Type | Theoretical nominal torque | | Nominal torque at existing run out (T.I.R.) | | | | | | Sprag lift-off at inner ring speed min ⁻¹ | Max. speed | |
|----------------|------|----------------------------|--------|---------------------------------------------|--------|--------|--------|---------------------------------------------------|-------------------------------------|------------------------------------------------------|------------|--|
| | | Nm | Nm | Nm | Nm | Nm | Nm | Inner ring freewheels/ overruns min ⁻¹ | Outer ring drives min ⁻¹ | | | |
| FXM 31 - 17 | NX | 110 | 110 | 105 | 100 | | | | 890 | 5 000 | 356 | |
| FXM 38 - 17 | NX | 180 | 170 | 160 | 150 | | | | 860 | 5 000 | 344 | |
| FXM 46 - 25 | NX | 460 | 450 | 440 | 430 | | | | 820 | 5 000 | 328 | |
| FXM 51 - 25 | NX | 560 | 550 | 540 | 530 | | | | 750 | 5 000 | 300 | |
| FXM 56 - 25 | NX | 660 | 650 | 640 | 630 | | | | 730 | 5 000 | 292 | |
| FXM 61 - 19 | NX | 520 | 500 | 480 | 460 | | | | 750 | 5 000 | 300 | |
| FXM 66 - 25 | NX | 950 | 930 | 910 | 890 | | | | 700 | 5 000 | 280 | |
| FXM 76 - 25 | NX | 1 200 | 1 170 | 1 140 | 1 110 | | | | 670 | 5 000 | 268 | |
| FXM 86 - 25 | NX | 1 600 | 1 550 | 1 500 | 1 450 | | | | 630 | 5 000 | 252 | |
| FXM 101 - 25 | NX | 2 100 | 2 050 | 2 000 | 1 950 | | | | 610 | 5 000 | 244 | |
| FXM 85 - 40 | MX | 2 500 | 2 500 | 2 450 | 2 450 | 2 450 | 2 450 | | 430 | 6 000 | 172 | |
| FXM 100 - 40 | MX | 3 700 | 3 600 | 3 600 | 3 500 | 3 500 | 3 500 | | 400 | 4 500 | 160 | |
| FXM 120 - 50 | MX | 7 700 | 7 600 | 7 500 | 7 300 | 7 300 | 7 300 | | 320 | 4 000 | 128 | |
| FXM 140 - 50 | MX | 10 100 | 10 000 | 9 800 | 9 600 | 9 500 | 9 500 | | 320 | 3 000 | 128 | |
| FXM 170 - 63 | MX | 20 500 | 20 500 | 20 000 | 19 500 | 19 000 | 19 000 | | 250 | 2 700 | 100 | |
| FXM 200 - 63 | MX | 31 000 | 30 500 | 30 000 | 26 500 | 23 000 | 20 500 | | 240 | 2 100 | 96 | |

The maximum transmissible torque is 2 times the specified nominal torque. See page 14 for determination of selection torque.
The theoretical nominal torque applies only for ideal concentricity between the inner and outer ring. In practice, the concentricity is affected by the bearing play and centering errors of the neighbouring parts. Then the nominal torques specified in the table apply, whilst taking into consideration the existing run out (T.I.R.).
Higher speeds upon request.

Mounting

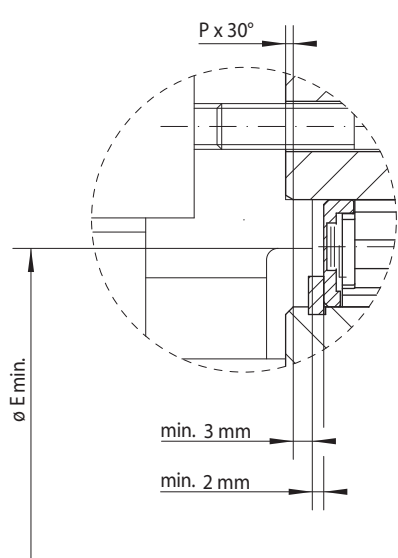
Integrated Freewheels FXM are without bearing support. Concentric alignment of inner and outer ring must be provided by the customer. The permissible run out (T.I.R.) must be observed.

The Integrated Freewheel FXM is centered via the outer track F on the customer attachment part and bolted to this (refer to figure 63-1). The tolerance of the pilot diameter of the attachment part must be ISO h6 or h7.

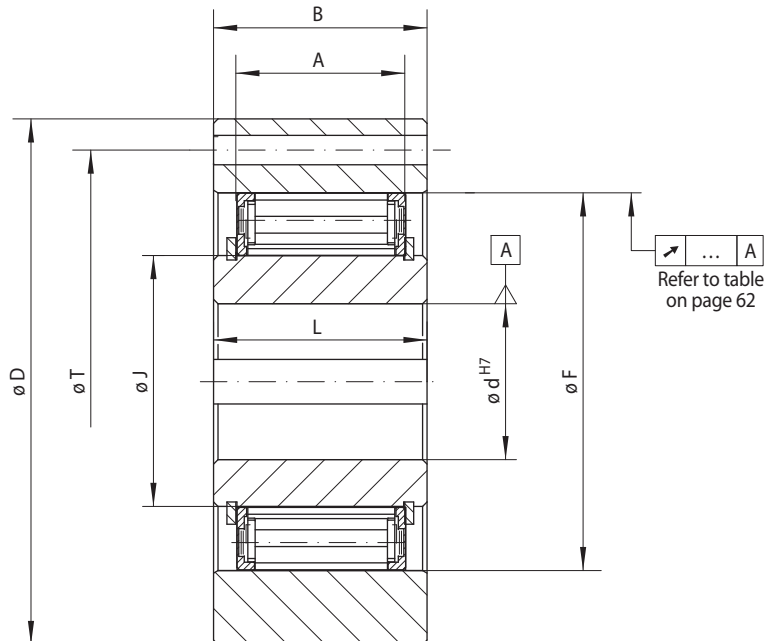
The tolerance of the shaft must be ISO h6 or j6.

For fitting to shaft ends, end covers can be supplied upon request (refer to figure 63-3).

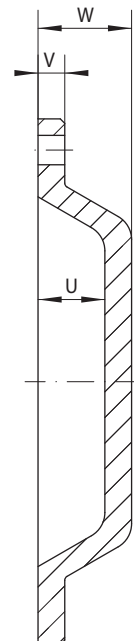
for bolting to the face
with sprag lift-off X



63-1



63-2



63-3

| Freewheel Size | Type | Bore d | | | A | B | D | E min. | F | G** | J | L | P | T | U | V | W | Z** | Weight |
|----------------|------|----------|----|---------|----|----|-----|--------|-----|------|-----|----|-----|-----|----|----|----|-----|--------|
| | | Standard | mm | max. mm | | | | | | | | | | | | | | | |
| FXM 31 -17 | NX | 20* | | 20* | 17 | 25 | 85 | 41 | 55 | M 6 | 31 | 24 | 1,0 | 70 | 15 | 6 | 21 | 6 | 0,8 |
| FXM 38 -17 | NX | 25* | | 25* | 17 | 25 | 90 | 48 | 62 | M 6 | 38 | 24 | 1,0 | 75 | 15 | 6 | 21 | 6 | 0,9 |
| FXM 46 -25 | NX | 30 | | 30 | 25 | 35 | 95 | 56 | 70 | M 6 | 46 | 35 | 1,0 | 82 | 15 | 6 | 21 | 6 | 1,3 |
| FXM 51 -25 | NX | 35 | | 36 | 25 | 35 | 105 | 62 | 75 | M 6 | 51 | 35 | 1,0 | 90 | 15 | 6 | 21 | 6 | 1,7 |
| FXM 56 -25 | NX | 35 | 40 | 40 | 25 | 35 | 110 | 66 | 80 | M 6 | 56 | 35 | 1,0 | 96 | 15 | 6 | 21 | 8 | 1,8 |
| FXM 61 -19 | NX | 35 | 40 | 45* | 19 | 27 | 120 | 74 | 85 | M 8 | 61 | 25 | 1,0 | 105 | 15 | 6 | 21 | 6 | 1,8 |
| FXM 66 -25 | NX | 40 | 45 | 48 | 25 | 35 | 132 | 82 | 90 | M 8 | 66 | 35 | 1,0 | 115 | 15 | 8 | 23 | 8 | 2,8 |
| FXM 76 -25 | NX | 50 | 55 | 60* | 25 | 35 | 140 | 92 | 100 | M 8 | 76 | 35 | 1,0 | 125 | 15 | 8 | 23 | 8 | 3,1 |
| FXM 86 -25 | NX | 50 | 60 | 70 | 25 | 40 | 150 | 102 | 110 | M 8 | 86 | 40 | 1,0 | 132 | 15 | 8 | 23 | 8 | 4,2 |
| FXM 101 -25 | NX | 75 | | 80* | 25 | 50 | 175 | 117 | 125 | M 10 | 101 | 50 | 1,0 | 155 | 20 | 8 | 28 | 8 | 6,9 |
| FXM 85 -40 | MX | 60 | | 65 | 40 | 50 | 175 | 102 | 125 | M 10 | 85 | 60 | 1,0 | 155 | 20 | 8 | 28 | 8 | 7,4 |
| FXM 100 -40 | MX | 70 | | 80* | 40 | 50 | 190 | 130 | 140 | M 10 | 100 | 60 | 1,5 | 165 | 25 | 10 | 35 | 12 | 8,8 |
| FXM 120 -50 | MX | 80 | | 95 | 50 | 60 | 210 | 150 | 160 | M 10 | 120 | 70 | 1,5 | 185 | 25 | 10 | 35 | 12 | 12,7 |
| FXM 140 -50 | MX | 90 | | 110 | 50 | 70 | 245 | 170 | 180 | M 12 | 140 | 70 | 2,0 | 218 | 25 | 12 | 35 | 12 | 19,8 |
| FXM 170 -63 | MX | 100 | | 130 | 63 | 80 | 290 | 200 | 210 | M 16 | 170 | 80 | 2,0 | 258 | 28 | 12 | 38 | 12 | 33,0 |
| FXM 200 -63 | MX | 120 | | 155 | 63 | 80 | 310 | 230 | 240 | M 16 | 200 | 80 | 2,0 | 278 | 32 | 12 | 42 | 12 | 32,0 |

Freewheels with bore diameters highlighted blue in the table are available with short delivery times.

Keyway according to DIN 6885, page 1 • Tolerance of keyway width JS10.

* Keyway according to DIN 6885, page 3 • Tolerance of keyway width JS10.

** Z = Number of fastening holes for screws G on pitch circle T.

Lubrication

At speeds in excess of the sprag lift-off speed, no special lubrication is required; the freewheel functions maintenance-free.

When operating below the sprag lift-off speed, an oil lubrication of the specified oil quality must be provided.

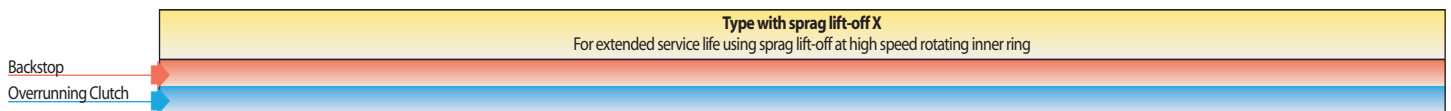
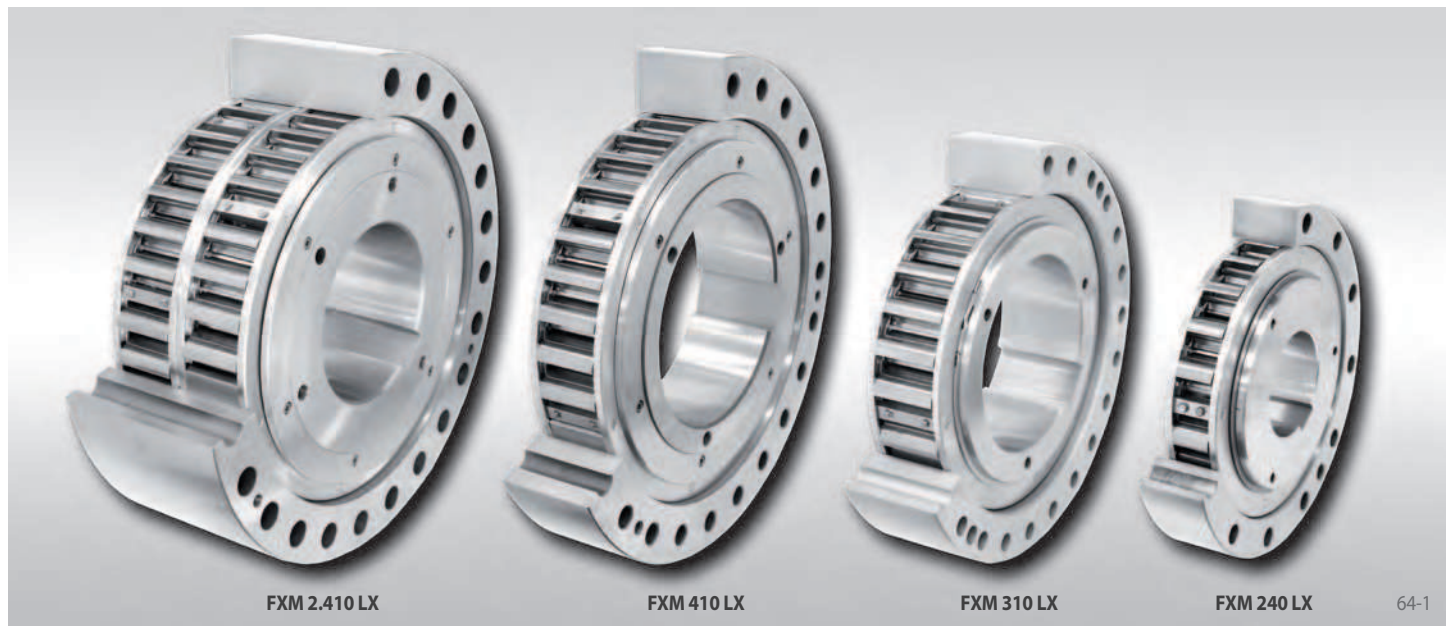
Example for ordering

Freewheel size FXM 140 - 50, type with sprag lift-off X and 90 mm bore and end cover:

- FXM 140 - 50 MX, d = 90 mm, with end cover

Integrated Freewheels FXM ... LX

for bolting to the face
with sprag lift-off X



| Freewheel Size | Type | Theoretical nominal torque Nm | Nominal torque at existing run out (T.I.R.) | | | | | | Sprag lift-off at inner ring speed min ⁻¹ | Max. speed | |
|-----------------|------|----------------------------------|---------------------------------------------|-----------|-----------|-----------|-----------|---------|---------------------------------------------------------|-----------------------------------------------------|----------------------------------------|
| | | | 0,1 A | 0,2 A | 0,3 A | 0,4 A | 0,5 A | 0,8 A | | Inner ring freewheels/overruns min ⁻¹ | Outer ring drives min ⁻¹ |
| FXM 240 - 63 | LX | 36 500 | 36 000 | 35 500 | 35 500 | 35 000 | 34 500 | 34 000 | 220 | 3 000 | 88 |
| FXM 240 - 96 | LX | 59 000 | 58 500 | 58 500 | 57 500 | 57 000 | 56 500 | 56 000 | 220 | 2 500 | 88 |
| FXM 2.240 - 70 | LX | 81 000 | 80 500 | 80 000 | 79 500 | 78 500 | 77 500 | 77 000 | 220 | 2 500 | 88 |
| FXM 2.240 - 96 | LX | 117 500 | 116 500 | 116 000 | 114 500 | 113 500 | 112 500 | 111 500 | 220 | 2 500 | 88 |
| FXM 260 - 63 | LX | 44 500 | 44 000 | 44 000 | 43 500 | 43 000 | 42 500 | 41 500 | 210 | 2 250 | 84 |
| FXM 290 - 70 | LX | 65 000 | 64 500 | 64 500 | 63 500 | 63 500 | 62 500 | 60 000 | 200 | 2 250 | 80 |
| FXM 290 - 96 | LX | 95 500 | 95 000 | 94 500 | 93 500 | 92 500 | 91 500 | 84 500 | 200 | 2 250 | 80 |
| FXM 2.290 - 70 | LX | 125 500 | 124 500 | 123 500 | 122 500 | 121 000 | 119 500 | 117 000 | 200 | 2 250 | 80 |
| FXM 2.290 - 96 | LX | 183 000 | 181 500 | 180 000 | 178 500 | 176 500 | 174 500 | 171 000 | 200 | 2 250 | 80 |
| FXM 310 - 70 | LX | 76 000 | 75 000 | 74 500 | 74 000 | 73 000 | 72 500 | 70 000 | 195 | 2 250 | 78 |
| FXM 310 - 96 | LX | 112 000 | 111 000 | 110 500 | 109 500 | 108 000 | 107 000 | 99 000 | 195 | 2 100 | 78 |
| FXM 320 - 70 | LX | 81 000 | 80 500 | 80 000 | 79 500 | 78 500 | 78 000 | 65 500 | 195 | 2 000 | 78 |
| FXM 320 - 96 | LX | 114 000 | 113 500 | 112 500 | 111 500 | 110 000 | 109 000 | 105 500 | 195 | 2 000 | 78 |
| FXM 2.320 - 70 | LX | 158 000 | 156 500 | 155 500 | 154 000 | 152 500 | 151 000 | 143 000 | 195 | 2 000 | 78 |
| FXM 2.320 - 96 | LX | 225 000 | 223 500 | 221 500 | 220 000 | 217 500 | 215 000 | 209 000 | 195 | 2 000 | 78 |
| FXM 360 - 100 | LX | 156 000 | 155 000 | 154 000 | 152 500 | 144 000 | 134 500 | 108 000 | 180 | 1 800 | 72 |
| FXM 2.360 - 73 | LX | 208 000 | 206 500 | 204 500 | 203 000 | 201 000 | 199 000 | 163 000 | 180 | 1 800 | 72 |
| FXM 2.360 - 100 | LX | 294 500 | 292 500 | 290 000 | 287 500 | 284 500 | 281 500 | 258 500 | 180 | 1 800 | 72 |
| FXM 410 - 100 | LX | 194 500 | 193 500 | 192 000 | 190 000 | 188 500 | 179 500 | 145 000 | 170 | 1 500 | 68 |
| FXM 2.410 - 73 | LX | 263 000 | 261 000 | 259 000 | 257 000 | 254 500 | 252 000 | 209 500 | 170 | 1 500 | 68 |
| FXM 2.410 - 100 | LX | 389 500 | 387 000 | 384 000 | 380 500 | 377 000 | 359 500 | 289 500 | 170 | 1 500 | 68 |
| FXM 500 - 100 | LX | 290 000 | 287 500 | 285 500 | 283 000 | 272 000 | 255 000 | 202 000 | 150 | 1 000 | 60 |
| FXM 2.500 - 100 | LX | 578 000 | 574 000 | 570 000 | 566 000 | 547 000 | 508 000 | 407 000 | 150 | 1 000 | 60 |
| FXM 620 - 105 | LX | 444 500 | 441 500 | 438 500 | 427 000 | 400 000 | 374 000 | 300 000 | 135 | 1 000 | 54 |
| FXM 2.620 - 105 | LX | 888 000 | 882 000 | 876 000 | 860 000 | 807 000 | 754 000 | 603 000 | 135 | 1 000 | 54 |
| FXM 750 - 105 | LX | 605 000 | 601 000 | 596 000 | 591 000 | 586 000 | 579 000 | 504 000 | 125 | 800 | 50 |
| FXM 2.750 - 105 | LX | 1 230 000 | 1 220 000 | 1 210 000 | 1 200 000 | 1 190 000 | 1 179 000 | 958 000 | 125 | 800 | 50 |

The maximum transmissible torque is 2 times the specified nominal torque. See page 14 for determination of selection torque.
The theoretical nominal torque applies only for ideal concentricity between the inner and outer ring. In practice, the concentricity is affected by the bearing play and centering errors of the neighbouring parts. Then the nominal torques specified in the table apply, whilst taking into consideration the existing run out (T.I.R.).
Higher speeds upon request.

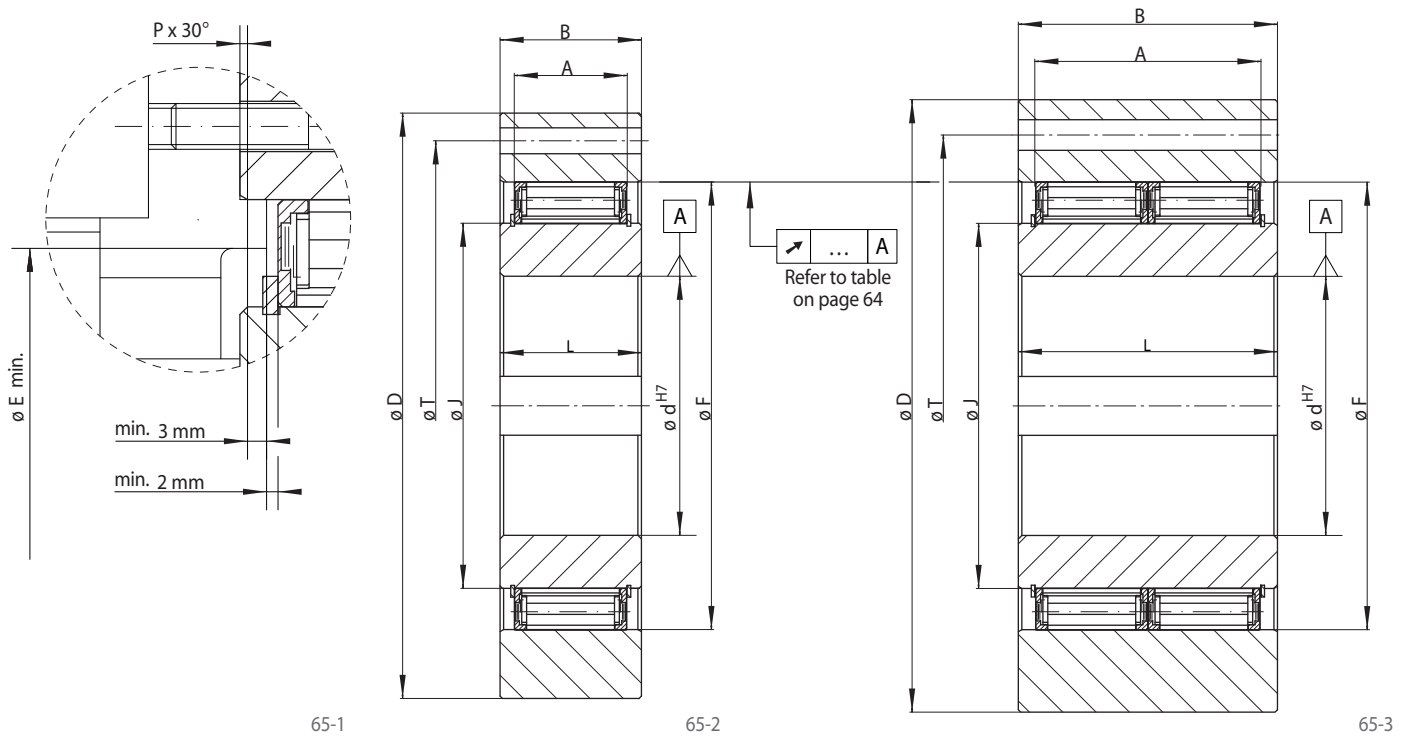
Mounting

Integrated Freewheels FXM are without bearing support. Concentric alignment of inner and outer ring must be provided by the customer. The permissible run out (T.I.R.) must be observed.

The Integrated Freewheel FXM is centered via the outer track F on the customer attachment part and bolted to this (refer to figure 65-1). The tolerance of the pilot diameter of the attachment part must be ISO h6 or h7.

The tolerance of the shaft must be ISO h6 or j6.

for bolting to the face
with sprag lift-off X



| Freewheel Size | Type | Bore d max. mm | A mm | B mm | D mm | E min. mm | F mm | G* | J mm | L mm | P mm | T mm | Z* | Weight kg |
|-----------------|------|----------------|------|------|-------|-----------|------|------|------|------|------|-------|----|-----------|
| FXM 240 - 63 | LX | 185 | 63 | 80 | 400 | 280 | 310 | M 20 | 240 | 90 | 2,0 | 360 | 12 | 60 |
| FXM 240 - 96 | LX | 185 | 96 | 125 | 420 | 280 | 310 | M 24 | 240 | 120 | 2,0 | 370 | 16 | 95 |
| FXM 2.240 - 70 | LX | 185 | 140 | 160 | 412 | 280 | 310 | M 20 | 240 | 160 | 2,0 | 360 | 24 | 120 |
| FXM 2.240 - 96 | LX | 185 | 192 | 240 | 425 | 280 | 310 | M 24 | 240 | 240 | 2,0 | 370 | 24 | 200 |
| FXM 260 - 63 | LX | 205 | 63 | 80 | 430 | 300 | 330 | M 20 | 260 | 105 | 2,0 | 380 | 16 | 75 |
| FXM 290 - 70 | LX | 230 | 70 | 80 | 460 | 330 | 360 | M 20 | 290 | 105 | 2,0 | 410 | 16 | 90 |
| FXM 290 - 96 | LX | 230 | 96 | 110 | 460 | 330 | 360 | M 20 | 290 | 120 | 2,0 | 410 | 16 | 91 |
| FXM 2.290 - 70 | LX | 230 | 140 | 160 | 480 | 330 | 360 | M 24 | 290 | 160 | 2,0 | 410 | 18 | 170 |
| FXM 2.290 - 96 | LX | 230 | 192 | 240 | 490 | 330 | 360 | M 30 | 290 | 240 | 2,0 | 425 | 20 | 260 |
| FXM 310 - 70 | LX | 240 | 70 | 125 | 497 | 360 | 380 | M 20 | 310 | 110 | 3,0 | 450 | 24 | 135 |
| FXM 310 - 96 | LX | 240 | 96 | 125 | 497 | 360 | 380 | M 20 | 310 | 120 | 3,0 | 450 | 24 | 145 |
| FXM 320 - 70 | LX | 250 | 70 | 80 | 490 | 360 | 390 | M 24 | 320 | 105 | 3,0 | 440 | 16 | 105 |
| FXM 320 - 96 | LX | 250 | 96 | 120 | 520 | 360 | 390 | M 24 | 320 | 120 | 3,0 | 440 | 16 | 150 |
| FXM 2.320 - 70 | LX | 250 | 140 | 180 | 505 | 360 | 390 | M 24 | 320 | 180 | 3,0 | 440 | 24 | 200 |
| FXM 2.320 - 96 | LX | 250 | 192 | 240 | 530 | 360 | 390 | M 30 | 320 | 240 | 3,0 | 460 | 24 | 310 |
| FXM 360 - 100 | LX | 280 | 100 | 120 | 540 | 400 | 430 | M 24 | 360 | 125 | 3,0 | 500 | 24 | 170 |
| FXM 2.360 - 73 | LX | 280 | 146 | 210 | 550 | 400 | 430 | M 24 | 360 | 210 | 3,0 | 500 | 24 | 270 |
| FXM 2.360 - 100 | LX | 280 | 200 | 250 | 580 | 400 | 430 | M 30 | 360 | 250 | 3,0 | 500 | 24 | 380 |
| FXM 410 - 100 | LX | 300 | 100 | 120 | 630 | 460 | 480 | M 24 | 410 | 125 | 3,0 | 560 | 24 | 245 |
| FXM 2.410 - 73 | LX | 300 | 146 | 210 | 630 | 460 | 480 | M 24 | 410 | 210 | 3,0 | 560 | 24 | 400 |
| FXM 2.410 - 100 | LX | 300 | 200 | 220 | 630 | 460 | 480 | M 30 | 410 | 220 | 3,0 | 560 | 24 | 440 |
| FXM 500 - 100 | LX | 360 | 100 | 130 | 780 | 550 | 570 | M 30 | 500 | 130 | 3,0 | 680 | 24 | 310 |
| FXM 2.500 - 100 | LX | 360 | 200 | 230 | 780 | 550 | 570 | M 30 | 500 | 230 | 3,0 | 680 | 24 | 560 |
| FXM 620 - 105 | LX | 460 | 105 | 140 | 980 | 670 | 690 | M 30 | 620 | 140 | 3,0 | 840 | 24 | 570 |
| FXM 2.620 - 105 | LX | 460 | 210 | 240 | 980 | 670 | 690 | M 36 | 620 | 240 | 3,0 | 840 | 24 | 990 |
| FXM 750 - 105 | LX | 560 | 105 | 150 | 1 350 | 800 | 820 | M 42 | 750 | 150 | 3,0 | 1 000 | 24 | 1 330 |
| FXM 2.750 - 105 | LX | 560 | 210 | 250 | 1 350 | 800 | 820 | M 42 | 750 | 250 | 3,0 | 1 000 | 24 | 2 620 |

Keyway according to DIN 6885, page 1 • Tolerance of keyway width JS10.

* Z = Number of fastening holes for screws G on pitch circle T.

Lubrication

At speeds in excess of the sprag lift-off speed, no special lubrication is required; the freewheel functions maintenance-free.

When operating below the sprag lift-off speed, an oil lubrication of the specified oil quality must be provided.

Example for ordering

Freewheel size FXM 240 - 63, type with sprag lift-off X and 185 mm bore:

- FXM 240 - 63 LX, d = 185 mm