

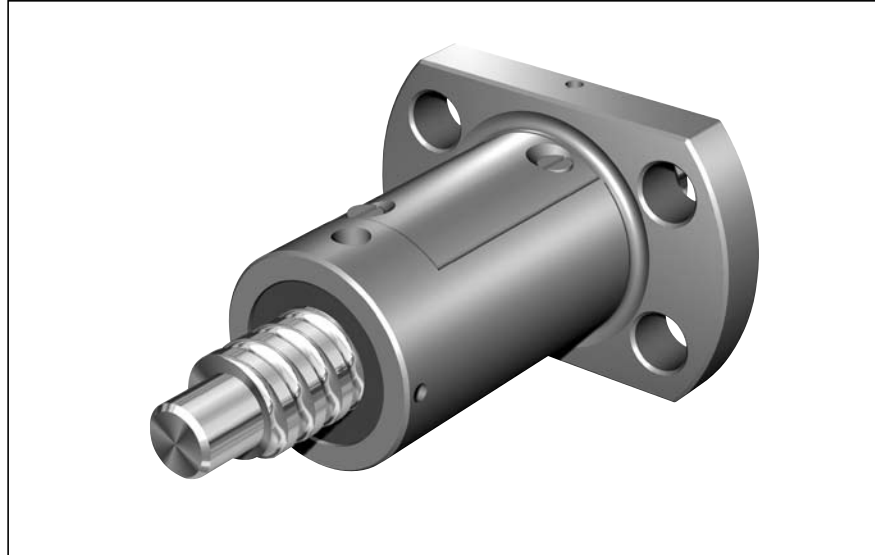
Tuercas

Tuerca simple embridada miniatura FEM-E-B

Serie miniatura
Medidas de Rexroth
Brida tipo B

Con juntas
 Con juego axial o juego axial reducido
 Para husillos laminados de precisión
 SN-R de la clase de tolerancia T5, T7

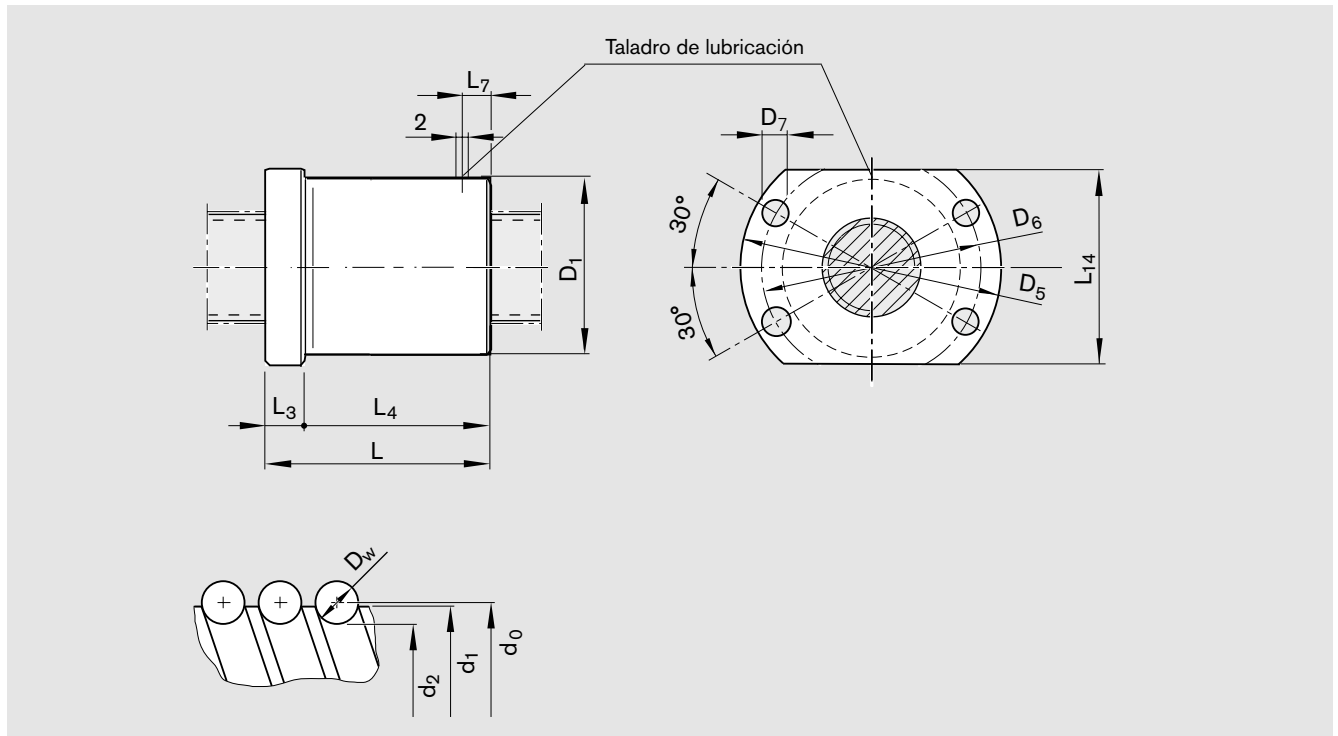
Se suministra únicamente el husillo de
 bolas completo con tuerca.


 Datos de pedido: **FEM-E-B 6 x 2R x 0,8-4 1 1 T7 R 83K060 41K050 250 0 1**

d_o = diámetro nominal
 P = paso
 (R = derecho, L = izquierdo)
 D_w = diámetro de la bola
 i = número de hileras

| Categoría | Tamaño $d_o \times P \times D_w - i$ | Referencia | Capacidades de carga | | Velocidad ¹⁾ v_{max} (m/min) |
|-----------|---|--------------|----------------------|------------------------------|---|
| | | | din. C (N) | estát. C ₀ (N) | |
| A | 6 x 1R x 0,8 - 4 | R1532 100 06 | 900 | 1290 | 3 |
| A | 6 x 2R x 0,8 - 4 | R1532 120 06 | 890 | 1280 | 6 |
| A | 8 x 1R x 0,8 - 4 | R1532 200 06 | 1020 | 1740 | 3 |
| A | 8 x 2R x 1,2 - 4 | R1532 220 06 | 1870 | 2760 | 6 |
| B | 8 x 2,5R x 1,588 - 3 | R1532 230 06 | 2200 | 2800 | 15 |
| B | 12 x 2R x 1,2 - 4 | R1532 420 06 | 2240 | 4160 | 12 |
| A | 12 x 5R x 2 - 3 | R1532 460 06 | 3800 | 5800 | 30 |
| B | 12 x 10R x 2 - 2 | R1532 490 06 | 2500 | 3600 | 60 |

 1) Ver página 115 "Coeficiente de revoluciones $d_o \cdot n$ " y página 150 "Revoluciones críticas n_{cr} "



| Tamaño | Medidas (mm) | | | | | | | | | | | Peso m (kg) | |
|---|----------------|----------------|----------------------|----------------|----------------|----------------|------|----------------|----------------|----------------|-----------------|-------------------|--|
| | d ₁ | d ₂ | D ₁ g6 | D ₅ | D ₆ | D ₇ | L | L ₃ | L ₄ | L ₇ | L ₁₄ | | |
| d ₀ x P x D _w - i | | | | | | | | | | | | | |
| 6 x 1R x 0,8 - 4 | 6,0 | 5,3 | 12 | 24 | 18 | 3,4 | 19,5 | 3,5 | 16 | 3,5 | 16 | 0,020 | |
| 6 x 2R x 0,8 - 4 | 6,0 | 5,3 | 12 | 24 | 18 | 3,4 | 22,5 | 3,5 | 19 | 3,0 | 16 | 0,020 | |
| 8 x 1R x 0,8 - 4 | 8,0 | 7,3 | 16 | 28 | 22 | 3,4 | 22,0 | 6,0 | 16 | 3,5 | 19 | 0,035 | |
| 8 x 2R x 1,2 - 4 | 8,0 | 7,0 | 16 | 28 | 22 | 3,4 | 25,0 | 6,0 | 19 | 3,0 | 19 | 0,050 | |
| 8 x 2,5R x 1,588 - 3 | 7,5 | 6,3 | 16 | 28 | 22 | 3,4 | 16,0 | 6,0 | 10 | 3,0 | 19 | 0,030 | |
| 12 x 2R x 1,2 - 4 | 11,7 | 10,8 | 20 | 37 | 29 | 4,5 | 19,0 | 8,0 | 11 | 2,5 | 24 | 0,055 | |
| 12 x 5R x 2 - 3 | 11,4 | 9,9 | 22 | 37 | 29 | 4,5 | 28,0 | 8,0 | 20 | 6,0 | 24 | 0,075 | |
| 12 x 10R x 2 - 2 | 11,4 | 9,9 | 22 | 37 | 29 | 4,5 | 33,0 | 8,0 | 25 | 8,0 | 24 | 0,085 | |

Tuercas

Tuerca roscada ZEV-E-S

Serie eLINE

Medidas de Rexroth

Sin juntas (sin lubricación base)
 Juntas de bajo rozamiento bajo consulta
 Con juego axial
 Para husillos laminados de precisión
 SN-R de la clase de tolerancia T7, T9

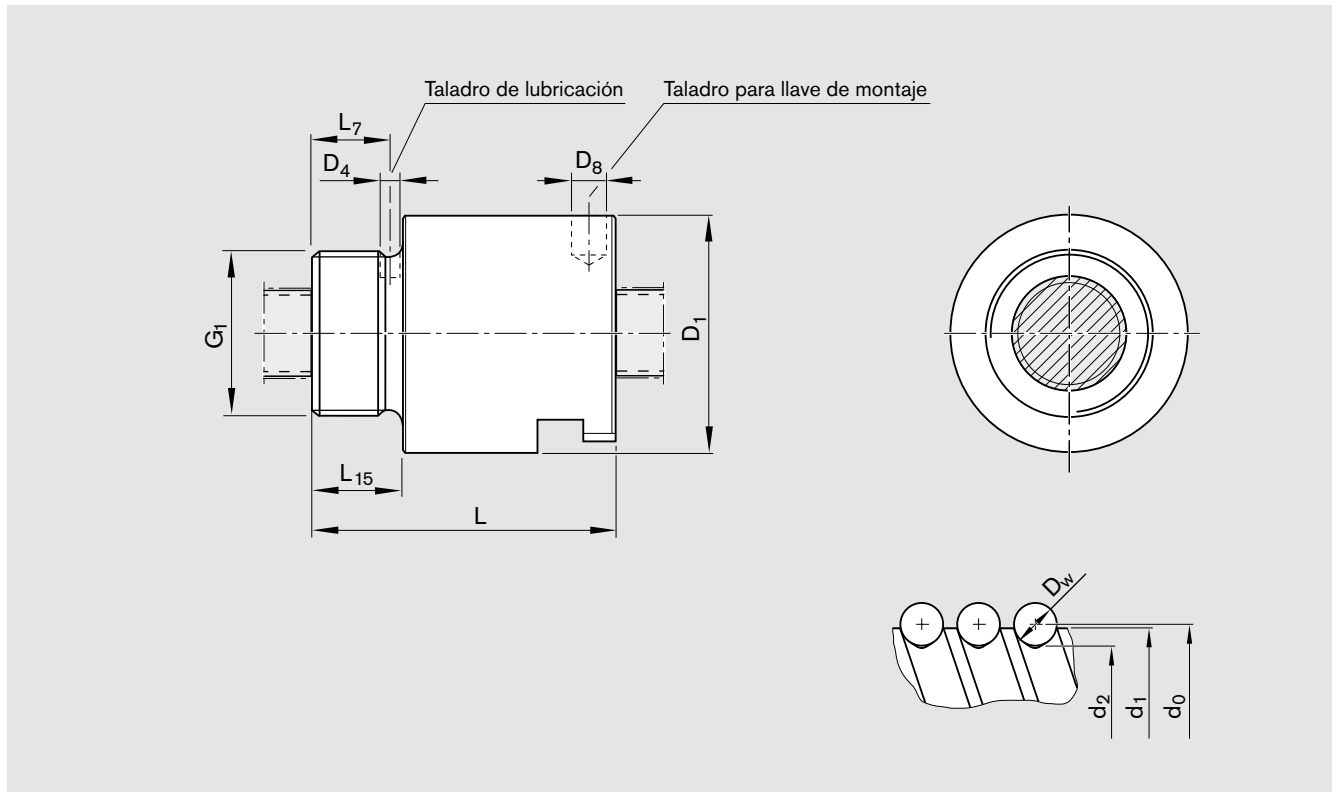
Se suministra únicamente el husillo de
 bolas completo con tuerca.


 Datos de pedido: **ZEV-E-S** 20 x 5R x 3-4 0 0 T7 R 81K120 41K120 550 0 0

d_o = diámetro nominal
 P = paso
 (R = derecho, L = izquierdo)
 D_w = diámetro de la bola
 i = número de hileras

| Categoría | Tamaño $d_o \times P \times D_w - i$ | Referencia | Capacidades de carga | | Velocidad ¹⁾ v_{max} (m/min) |
|-----------|---|--------------|----------------------|------------------------------|---|
| | | | din. C (N) | estát. C ₀ (N) | |
| A | 12 x 5R x 2 - 3 | R2542 430 01 | 2300 | 3500 | 30,0 |
| B | 12 x 10R x 2 - 2 | R2542 430 11 | 1500 | 2200 | 60,0 |
| A | 16 x 5R x 3 - 3 | R2542 000 01 | 5600 | 7100 | 25,0 |
| B | 16 x 10R x 3 - 3 | R2542 000 11 | 5800 | 7400 | 50,0 |
| B | 20 x 5R x 3 - 4 | R2542 100 01 | 8600 | 12900 | 20,0 |
| B | 25 x 5R x 3 - 7 | R2542 200 01 | 15700 | 29200 | 16,0 |
| B | 25 x 10R x 3 - 5 | R2542 200 11 | 11500 | 20500 | 32,0 |
| B | 32 x 5R x 3,5 - 5 | R2542 300 01 | 15800 | 30400 | 12,5 |
| B | 32 x 10R x 3,969 - 5 | R2542 300 11 | 19000 | 34700 | 25,0 |

 1) Ver página 115 "Coeficiente de revoluciones $d_o \cdot n$ " y página 150 "Revoluciones críticas n_{cr} "



| Tamaño $d_0 \times P \times D_w - i$ | Medidas (mm) | | | | | | | | | Juego axial máx. (mm) | Peso m (kg) |
|---|--------------|-------|--------------|-------|-------|-----------|------------------|-------|----------|-----------------------------|-------------------|
| | d_1 | d_2 | D_1 h10 | D_4 | D_8 | G_1 | L $\pm 0,3$ | L_7 | L_{15} | | |
| 12 x 5R x 2 - 3 | 11,4 | 9,9 | 25,5 | 2,7 | 3,2 | M20 x 1,0 | 36 | 8,5 | 10 | 0,1 | 0,09 |
| 12 x 10R x 2 - 2 | 11,4 | 9,9 | 25,5 | 2,7 | 3,2 | M20 x 1,0 | 40 | 8,5 | 10 | 0,1 | 0,10 |
| 16 x 5R x 3 - 3 | 15,0 | 12,9 | 32,5 | 2,7 | 4,2 | M26 x 1,5 | 40 | 10,5 | 12 | 0,1 | 0,14 |
| 16 x 10R x 3 - 3 | 15,0 | 12,9 | 32,5 | 2,7 | 4,2 | M26 x 1,5 | 54 | 10,5 | 12 | 0,1 | 0,21 |
| 20 x 5R x 3 - 4 | 19,0 | 16,9 | 38,0 | 2,7 | 8,0 | M35 x 1,5 | 50 | 12,5 | 14 | 0,1 | 0,25 |
| 25 x 5R x 3 - 7 | 24,0 | 21,9 | 43,0 | 1,5 | 8,0 | M40 x 1,5 | 60 | 17,5 | 19 | 0,1 | 0,36 |
| 25 x 10R x 3 - 5 | 24,0 | 21,9 | 43,0 | 2,0 | 8,0 | M40 x 1,5 | 74 | 17,7 | 19 | 0,1 | 0,45 |
| 32 x 5R x 3,5 - 5 | 31,0 | 28,4 | 54,0 | 2,7 | 8,0 | M48 x 1,5 | 69 | 17,5 | 19 | 0,1 | 0,58 |
| 32 x 10R x 3,969 - 5 | 31,0 | 27,9 | 54,0 | 2,7 | 8,0 | M48 x 1,5 | 95 | 17,5 | 19 | 0,1 | 0,88 |

Tuercas

Tuerca simple embridada c/capuchones de recirculación FBZ-E-S

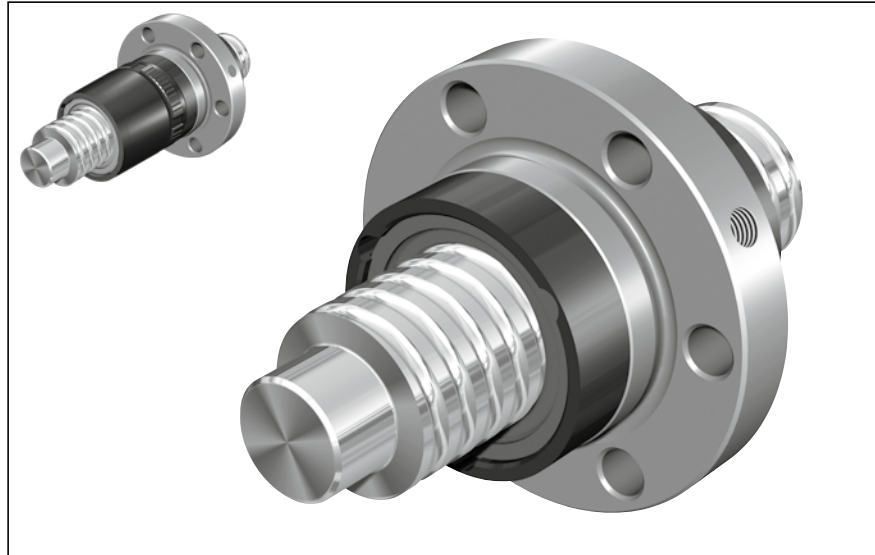
Serie eLINE

Medidas de Rexroth

Con juntas
Con juego axial
Para husillos laminados de precisión
SN-R de la clase de tolerancia T7, T9

⚠ No se deberán cargar ni desplazar a tope los recirculadores de plástico.

⚠ Durante la alineación de la unidad de lubricación adicional no se deberán realizar desplazamientos en contra de la misma.

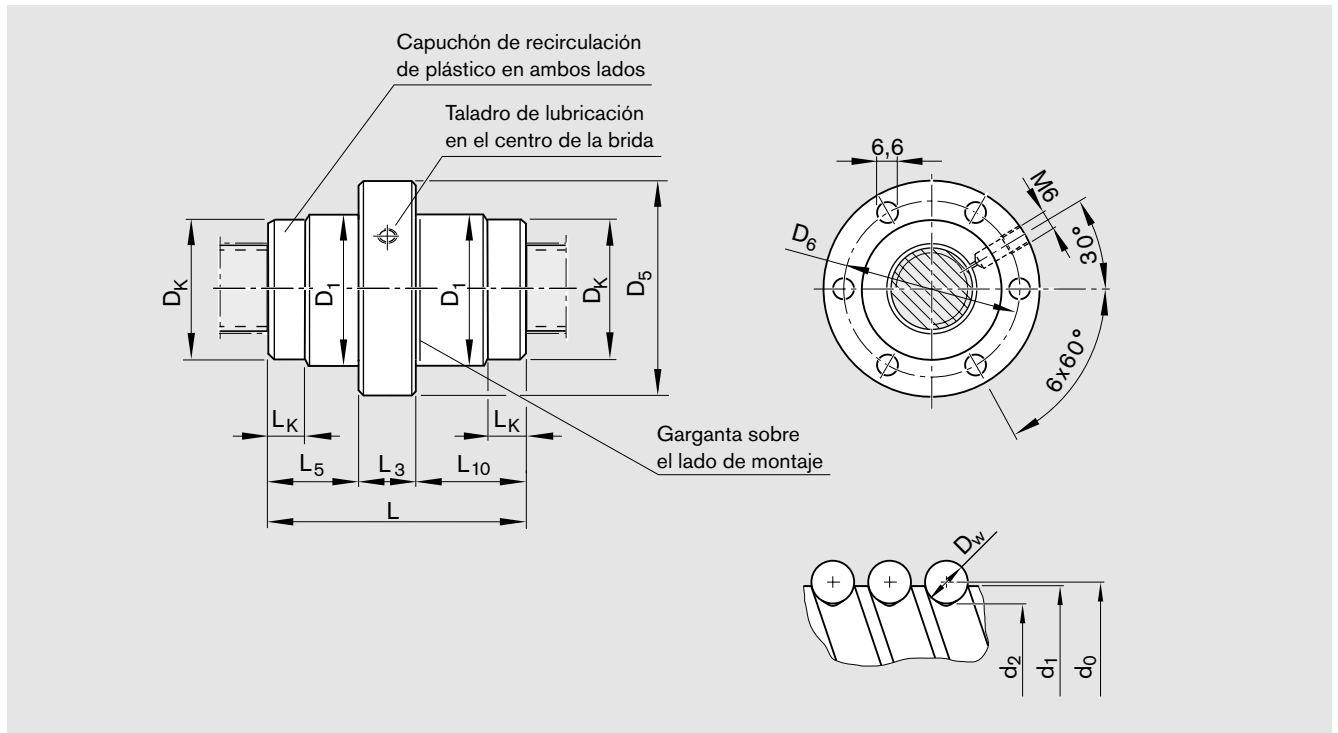


Datos de pedido: **FBZ-E-S 20 x 5R x 3-4 1 0 T9 R 81K120 41K120 550 0 1**

d_o = diámetro nominal
 P = paso
(R = derecho, L = izquierdo)
 D_w = diámetro de la bola
 i = número de hileras

| Categoría | Tamaño $d_o \times P \times D_w - i$ | Referencia | Capacidades de carga | | Velocidad ¹⁾ v_{max} (m/min) |
|-----------|---|--------------|----------------------|---------------------|---|
| | | | din. C (N) | estát. C_o (N) | |
| B | 20 x 5R x 3 - 4 | R2542 100 02 | 8600 | 12900 | 20 |
| C | 25 x 5R x 3 - 4 | R2542 200 02 | 9500 | 16300 | 16 |
| C | 25 x 10R x 3 - 4 | R2542 200 12 | 9400 | 16200 | 32 |
| C | 32 x 5R x 3,5 - 4 | R2542 300 02 | 13000 | 24000 | 13 |
| C | 32 x 10R x 3,969 - 5 | R2542 300 12 | 19000 | 35000 | 25 |

1) Ver página 115 "Coeficiente de revoluciones $d_o \cdot n$ " y página 150 "Revoluciones críticas n_{cr} "



| Tamaño | Medidas (mm) | | | | | | | | | | | Juego axial máx. (mm) | Peso m (kg) | |
|---|----------------|----------------|------------------------|----------------|----------------|----------------|----|----------------|------------------------|-----------------|----------------|-----------------------------|-------------------|--|
| | d ₁ | d ₂ | D ₁ -0,2 | D ₅ | D ₆ | D _K | L | L ₃ | L ₅ ±0,5 | L ₁₀ | L _K | | | |
| d ₀ x P x D _w - i | | | | | | | | | | | | | | |
| 20 x 5R x 3 - 4 | 19 | 16,9 | 33 | 58 | 45 | 32,5 | 40 | 10 | 15,0 | 15,0 | 8,5 | 0,1 | 0,22 | |
| 25 x 5R x 3 - 4 | 24 | 21,9 | 38 | 63 | 50 | 37,5 | 43 | 10 | 16,5 | 16,5 | 10,0 | 0,1 | 0,25 | |
| 25 x 10R x 3 - 4 | 24 | 21,9 | 38 | 63 | 50 | 37,5 | 62 | 10 | 16,0 | 36,0 | 10,0 | 0,1 | 0,34 | |
| 32 x 5R x 3,5 - 4 | 31 | 28,4 | 48 | 73 | 60 | 47,5 | 46 | 12 | 17,0 | 17,0 | 11,0 | 0,1 | 0,41 | |
| 32 x 10R x 3,969 - 5 | 31 | 27,9 | 48 | 73 | 60 | 47,5 | 77 | 12 | 20,0 | 45,0 | 11,0 | 0,1 | 0,63 | |

Tuercas

Tuerca simple embridada c/capuchones de recirculación FSZ-E-S

Serie ECOplus Medidas de Rexroth

Las capacidades de carga de la serie ECOplus corresponden a la serie estándar (ver página 46)

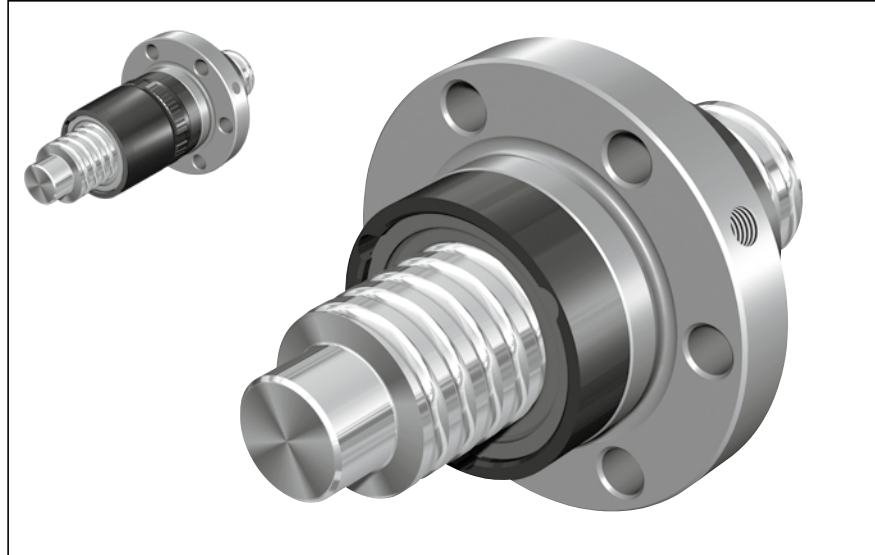
Con juntas

Con juego axial, juego axial reducido, precarga del 2%, 3% y 5%

Para husillos laminados de precisión SN-R de la clase de tolerancia T5, T7, T9

⚠ No se deberán cargar ni desplazar a tope los recirculadores de plástico.

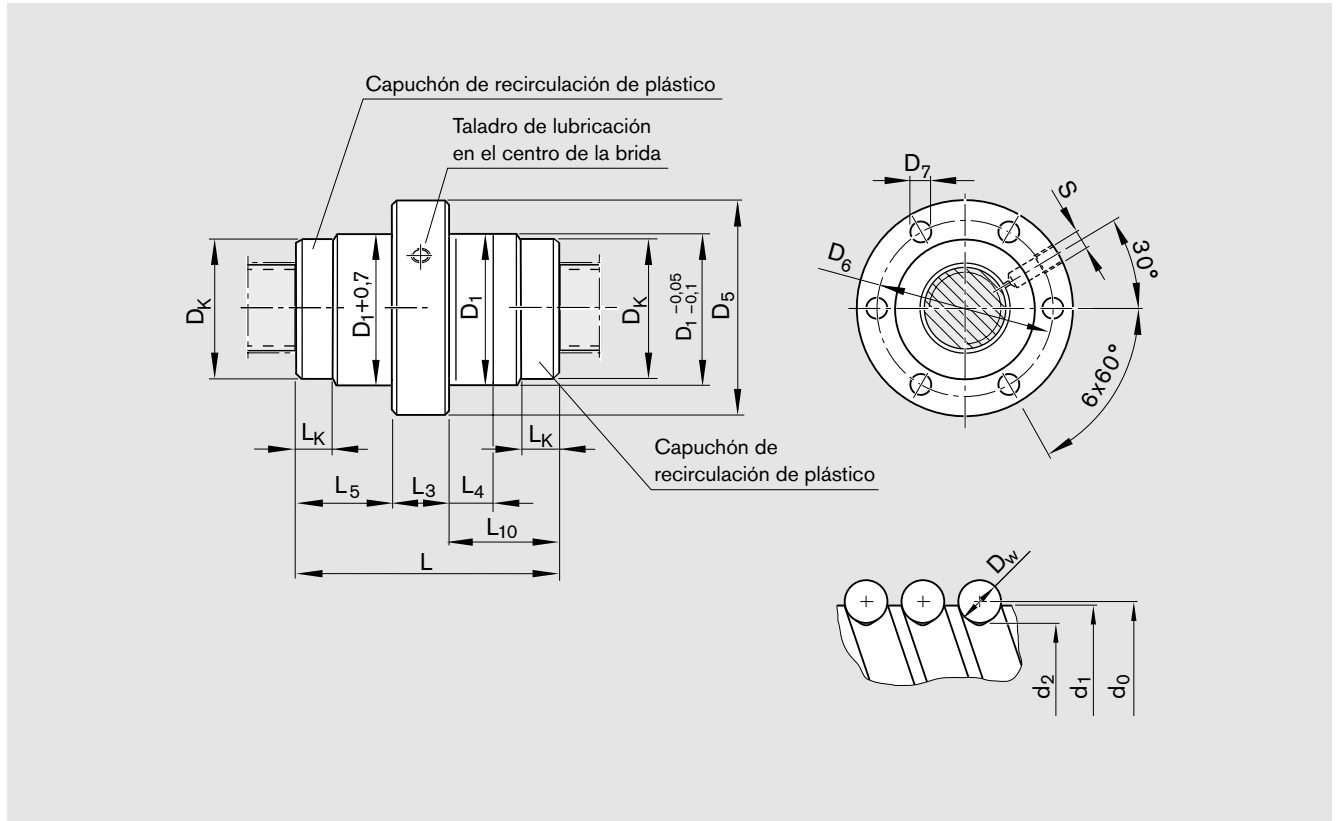
⚠ Durante la alineación de la unidad de lubricación adicional no se deberán realizar desplazamientos en contra de la misma.


 Datos de pedido: **FSZ-E-S 20 x 5R x 3-4 1 0 T7 R 81K120 41K120 550 0 1**

d_0 = diámetro nominal
 P = paso
 (R = derecho, L = izquierdo)
 D_w = diámetro de la bola
 i = número de hileras

| Categoría | Tamaño $d_0 \times P \times D_w - i$ | Referencia | Capacidades de carga | | Velocidad ¹⁾ v_{max} (m/min) |
|-----------|---|--------------|----------------------|------------------------------|---|
| | | | din. C (N) | estát. C ₀ (N) | |
| B | 20 x 5R x 3 - 4 | R1502 110 41 | 14300 | 21500 | 30 |
| B | 25 x 5R x 3 - 4 | R1502 210 41 | 15900 | 27200 | 30 |
| B | 25 x 10R x 3 - 4 | R1502 240 41 | 15700 | 27000 | 60 |
| B | 32 x 5R x 3,5 - 4 | R1502 310 41 | 21600 | 40000 | 23 |
| B | 32 x 10R x 3,969 - 5 | R1502 340 41 | 31700 | 58300 | 47 |
| B | 32 x 20R x 3,969 - 2 | R1502 370 41 | 13500 | 21800 | 94 |
| B | 40 x 5R x 3,5 - 5 | R1502 410 41 | 29100 | 64100 | 19 |
| B | 40 x 10R x 6 - 4 | R1502 440 41 | 50000 | 86400 | 38 |
| B | 40 x 20R x 6 - 3 | R1502 470 41 | 37900 | 62800 | 75 |

1) Ver página 115 "Coeficiente de revoluciones $d_0 \cdot n$ " y página 150 "Revoluciones críticas n_{cr} "



| Tamaño | Medidas (mm) | | | | | | | | | | | | | Peso m (kg) | |
|---|----------------|----------------|----------------------|----------------|----------------|----------------|----------------|-----------|----------------|----------------|----------------|-----------------|----------------|-------------------|------|
| | d ₁ | d ₂ | D ₁ g6 | D ₅ | D ₆ | D ₇ | D _K | L ±0,5 | L ₃ | L ₄ | L ₅ | L ₁₀ | L _K | | S |
| d ₀ x P x D _w - i | | | | | | | | | | | | | | | |
| 20 x 5R x 3 - 4 | 19 | 16,9 | 33 | 58 | 45 | 6,6 | 32,5 | 40 | 10 | 6 | 15,0 | 15,0 | 8,5 | M6 | 0,22 |
| 25 x 5R x 3 - 4 | 24 | 21,9 | 38 | 63 | 50 | 6,6 | 37,5 | 43 | 10 | 6 | 16,5 | 16,5 | 10,0 | M6 | 0,25 |
| 25 x 10R x 3 - 4 | 24 | 21,9 | 38 | 63 | 50 | 6,6 | 37,5 | 62 | 10 | 16 | 16,0 | 36,0 | 10,0 | M6 | 0,34 |
| 32 x 5R x 3,5 - 4 | 31 | 28,4 | 48 | 73 | 60 | 6,6 | 47,5 | 46 | 12 | 6 | 17,0 | 17,0 | 11,0 | M6 | 0,41 |
| 32 x 10R x 3,969 - 5 | 31 | 27,9 | 48 | 73 | 60 | 6,6 | 47,5 | 77 | 12 | 16 | 20,0 | 45,0 | 11,0 | M6 | 0,63 |
| 32 x 20R x 3,969 - 2 | 31 | 27,9 | 56 | 80 | 68 | 6,6 | 47,5 | 65 | 12 | 10 | 19,0 | 34,0 | 11,0 | M6 | 0,69 |
| 40 x 5R x 3,5 - 5 | 39 | 36,4 | 56 | 80 | 68 | 6,6 | 55,5 | 52 | 14 | 8 | 18,5 | 19,5 | 11,5 | M8x1 | 0,54 |
| 40 x 10R x 6 - 4 | 38 | 33,8 | 63 | 95 | 78 | 9,0 | 62,5 | 71 | 14 | 16 | 22,0 | 35,0 | 12,5 | M8x1 | 1,06 |
| 40 x 20R x 6 - 3 | 38 | 33,8 | 63 | 95 | 78 | 9,0 | 62,5 | 89 | 14 | 25 | 22,0 | 53,0 | 12,5 | M8x1 | 1,30 |



Tuercas

Tuerca simple embridada c/capuchones de recirculación FEP-E-S

Serie Speed

Medidas de Rexroth

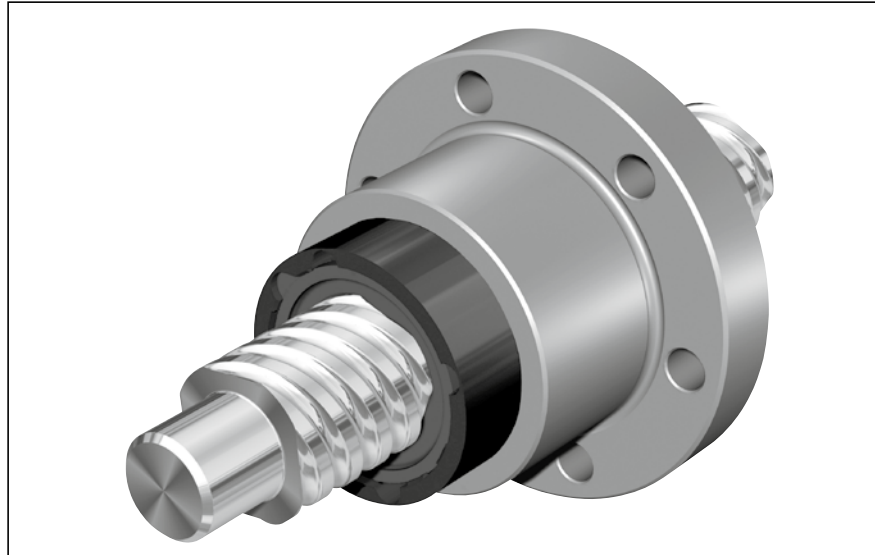
Con juntas

Con juego axial, juego axial reducido o precarga del 2%

Para husillos laminados de precisión SN-R (4 entradas) de la clase de tolerancia T5, T7, T9

⚠ No se deberán cargar ni desplazar a tope los recirculadores de plástico.

Nota: se suministra únicamente el husillo de bolas completo con tuerca.



Datos de pedido: **FEP-E-S 25 x 25R x 3,5-1,2x4 1 0 T5 R 81K120 41K120 1100 0 1**

d_o = diámetro nominal

P = paso

(R = derecho, L = izquierdo)

D_w = diámetro de la bola

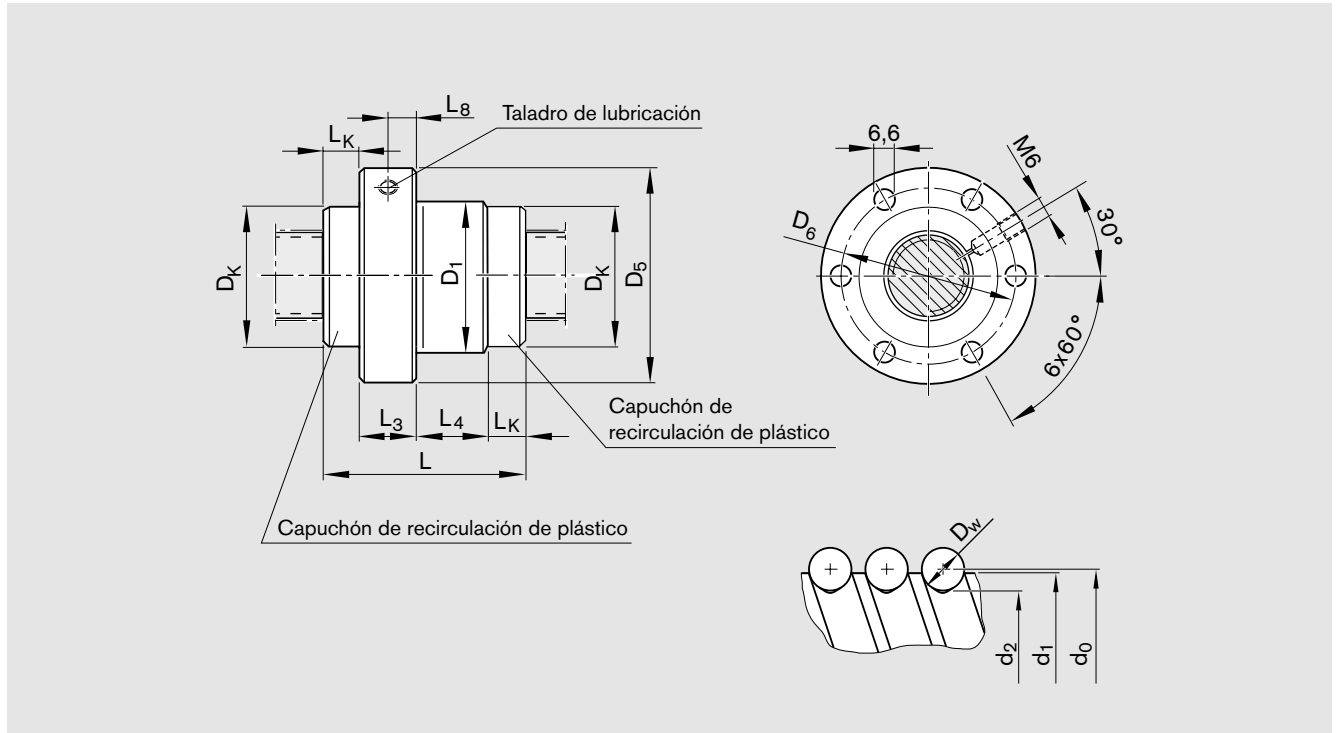
i = $a \times b$

a = Cantidad de hileras por cada pista de rodadura

b = Cantidad de pistas de rodadura

| Categoría | Tamaño $d_o \times P \times D_w - i \times b$ | Referencia | Cap. de carga | | Velocidad ¹⁾ v_{max} (m/min) |
|-----------|--|--------------|---------------|------------------------------|---|
| | | | din. C (N) | estát. C ₀ (N) | |
| A | 20 x 40R x 3,5 - 1 x 4 | R2522 100 11 | 14000 | 26200 | 240 |
| B | 25 x 25R x 3,5 - 1,2 x 4 | R2522 200 01 | 19700 | 39400 | 120 |
| B | 32 x 32R x 3,969 - 1,2 x 4 | R2522 300 01 | 26300 | 57600 | 120 |
| A | 32 x 64R x 3,969 - 1 x 4 | R2522 300 21 | 21100 | 49000 | 240 |

1) Ver página 115 "Coeficiente de revoluciones $d_o \cdot n$ " y página 150 "Revoluciones críticas n_{cr} "



| Tamaño | Medidas (mm) | | | | | | | | | | | Peso m (kg) | |
|---|----------------|----------------|----------------------|----------------|----------------|----------------|-----------|----------------|----------------|----------------|----------------|-------------------|--|
| | d ₁ | d ₂ | D ₁ g6 | D ₅ | D ₆ | D _k | L ±0,5 | L ₃ | L ₄ | L ₈ | L _k | | |
| d ₀ x P x D _w - i x b | | | | | | | | | | | | | |
| 20 x 40R x 3,5 - 1 x 4 | 19 | 16,4 | 38 | 63 | 50 | 37,5 | 57 | 12 | 23 | 8,0 | 11 | 0,51 | |
| 25 x 25R x 3,5 - 1,2 x 4 | 24 | 21,4 | 48 | 73 | 60 | 40,0 | 52 | 12 | 14 | 5,0 | 13 | 0,51 | |
| 32 x 32R x 3,969 - 1,2 x 4 | 31 | 27,9 | 56 | 80 | 68 | 50,0 | 68 | 15 | 21 | 7,7 | 16 | 0,78 | |
| 32 x 64R x 3,969 - 1 x 4 | 31 | 27,9 | 56 | 80 | 68 | 50,0 | 88 | 15 | 45 | 7,5 | 14 | 1,06 | |

Tuercas

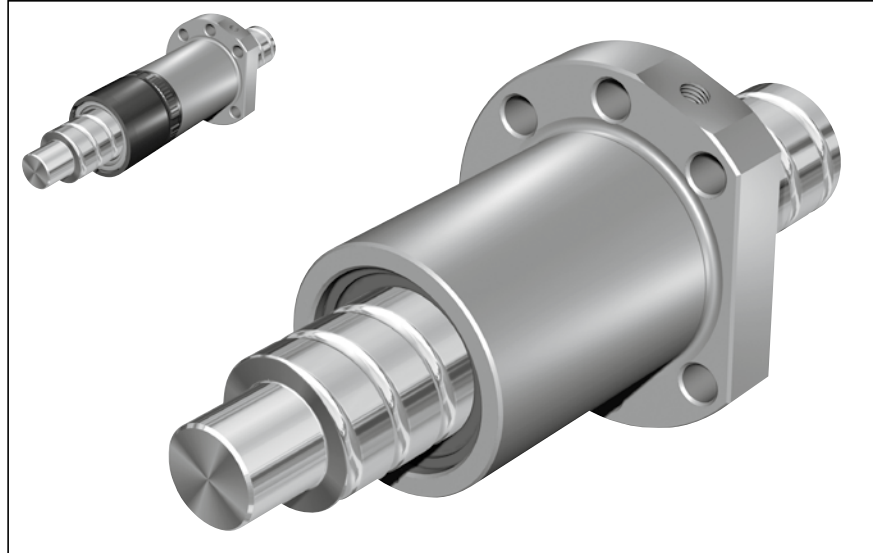
Tuerca simple embridada FEM-E-C

Serie estándar

Medidas según
 DIN 69 051, parte 5
 Brida tipo C

Con juntas estándar
 Para juntas reforzadas ver página 126
 Con juego axial, juego axial reducido,
 precarga del 2%, 3% y 5%
 Para husillos laminados de precisión
 SN-R de la clase de tolerancia T5,
 T7, T9

⚠ Durante la alineación de la
 unidad de lubricación adicional no se
 deberán realizar desplazamientos en
 contra de la misma.

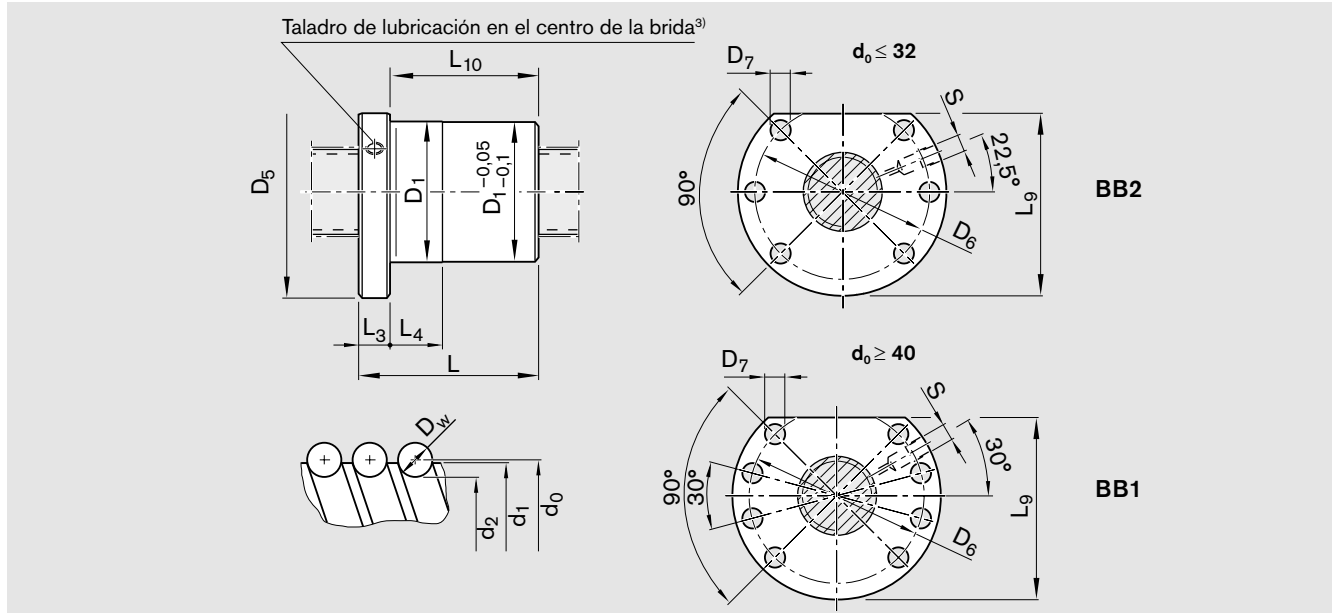

 Datos de pedido: **FEM-E-C 20 x 5R x 3-4 1 2 T7 R 82Z120 41Z120 1250 0 1**

d_0 = diámetro nominal
 P = paso
 (R = derecho, L = izquierdo)
 D_w = diámetro de la bola
 i = número de hileras

| Categoría | Tamaño $d_0 \times P \times D_w - i$ | Referencia | Capacidades de carga | | Velocidad ¹⁾ |
|-----------|---|--------------|----------------------|------------------------------|-------------------------|
| | | | din. C (N) | estát. C ₀ (N) | v_{max} (m/min) |
| A | 16 x 5R x 3 - 4 | R1502 010 65 | 12300 | 16100 | 30 |
| B | 16 x 10R x 3 - 3 | R1502 040 85 | 9600 | 12300 | 60 |
| B | 16 x 16R x 3 - 3 | R1502 060 65 | 9300 | 12000 | 96 |
| A | 20 x 5R x 3 - 4 | R1502 110 85 | 14300 | 21500 | 30 |
| A | 20 x 20R x 3,5 - 3 | R1502 170 65 | 13300 | 18800 | 120 |
| A | 25 x 5R x 3 - 4 | R1502 210 85 | 15900 | 27200 | 30 |
| A | 25 x 10R x 3 - 4 | R1502 240 85 | 15700 | 27000 | 60 |
| A | 25 x 25R x 3,5 - 3 | R1502 280 65 | 14700 | 23300 | 150 |
| A | 32 x 5R x 3,5 - 4 | R1502 310 85 | 21600 | 40000 | 23 |
| A | 32 x 10R x 3,969 - 5 | R1502 340 86 | 31700 | 58300 | 47 |
| A | 32 x 20R x 3,969 - 3 | R1502 370 65 | 19700 | 33700 | 94 |
| A | 32 x 32R x 3,969 - 3 | R1502 390 65 | 19500 | 34000 | 150 |
| B | 40 x 5R x 3,5 - 5 | R1502 410 86 | 29100 | 64100 | 19 |
| B | 40 x 10R x 6 - 4 | R1502 440 85 | 50000 | 86400 | 38 |
| C | 40 x 12R x 6 - 4 | R1502 450 65 | 49900 | 86200 | 45 |
| B | 40 x 16R x 6 - 4 | R1502 460 65 | 49700 | 85900 | 60 |
| A | 40 x 20R x 6 - 3 | R1502 470 85 | 37900 | 62800 | 75 |
| A | 40 x 40R x 6 - 3 | R1502 490 65 | 37000 | 62300 | 150 |
| B | 50 x 5R x 3,5 - 5 | R1502 510 86 | 32000 | 81300 | 15 |
| A | 50 x 10R x 6 - 6 | R1502 540 86 | 79700 | 166500 | 30 |
| C | 50 x 12R x 6 - 6 | R1502 550 66 | 79600 | 166400 | 36 |
| B | 50 x 16R x 6 - 6 | R1502 560 66 | 79400 | 166000 | 48 |
| A | 50 x 20R x 6,5 - 5 | R1502 570 86 | 75700 | 149700 | 60 |
| B | 50 x 40R x 6,5 - 3 | R1502 590 65 | 46500 | 85900 | 120 |
| B | 63 x 10R x 6 - 6 | R1502 640 86 | 88800 | 214300 | 24 |
| B | 63 x 20R x 6,5 - 5 | R1502 670 86 | 83900 | 190300 | 48 |
| B | 63 x 40R x 6,5 - 3 | R1502 690 65 | 53400 | 114100 | 95 |
| C | 80 x 10R x 6,5 - 6 | R1502 740 86 | 108400 | 291700 | 19 |
| B | 80 x 20R x 12,7 - 6 ²⁾ | R1502 770 96 | 262700 | 534200 | 30 |

 1) Ver página 115 "Coeficiente de revoluciones $d_0 \cdot n$ " y página 150 "Revoluciones críticas n_{cr} "

 2) Para husillos con roscas hasta 2500 mm se suministran las tuercas 80 x 20R x 12,7 - 6 con precarga. Ejecución con conexión de lubricación: aplanamiento $L_3 \leq 13$ mm, descenso $L_3 > 14$ mm



| Tamaño $d_0 \times P \times D_w - i$ | Medidas (mm) | | | | | | | | | | | | | Peso m (kg) |
|---|--------------|-------|-------------|-------|------------------------|-------|-------|-----|-------|-------|-------|----------|--------|-------------------|
| | d_1 | d_2 | D_1 g6 | D_5 | Esquema de taladros | D_6 | D_7 | L | L_3 | L_4 | L_9 | L_{10} | $S^3)$ | |
| 16 x 5R x 3 - 4 | 15,0 | 12,9 | 28 | 48 | BB2 | 38 | 5,5 | 38 | 12 | 10 | 44,0 | 26 | M6 | 0,19 |
| 16 x 10R x 3 - 3 | 15,0 | 12,9 | 28 | 48 | BB2 | 38 | 5,5 | 45 | 12 | 16 | 44,0 | 33 | M6 | 0,21 |
| 16 x 16R x 3 - 3 | 15,0 | 12,9 | 28 | 48 | BB2 | 38 | 5,5 | 61 | 12 | 20 | 44,0 | 49 | M6 | 0,26 |
| 20 x 5R x 3 - 4 | 19,0 | 16,9 | 36 | 58 | BB2 | 47 | 6,6 | 40 | 12 | 10 | 51,0 | 28 | M6 | 0,31 |
| 20 x 20R x 3,5 - 3 | 19,0 | 16,7 | 36 | 58 | BB2 | 47 | 6,6 | 77 | 12 | 25 | 51,0 | 65 | M6 | 0,49 |
| 25 x 5R x 3 - 4 | 24,0 | 21,9 | 40 | 62 | BB2 | 51 | 6,6 | 45 | 12 | 10 | 55,0 | 33 | M6 | 0,36 |
| 25 x 10R x 3 - 4 | 24,0 | 21,9 | 40 | 62 | BB2 | 51 | 6,6 | 64 | 12 | 16 | 55,0 | 52 | M6 | 0,47 |
| 25 x 25R x 3,5 - 3 | 24,0 | 21,4 | 40 | 62 | BB2 | 51 | 6,6 | 95 | 12 | 30 | 55,0 | 83 | M6 | 0,63 |
| 32 x 5R x 3,5 - 4 | 31,0 | 28,4 | 50 | 80 | BB2 | 65 | 9,0 | 48 | 13 | 10 | 71,0 | 35 | M6 | 0,62 |
| 32 x 10R x 3,969 - 5 | 31,0 | 27,9 | 50 | 80 | BB2 | 65 | 9,0 | 77 | 13 | 16 | 71,0 | 64 | M6 | 0,84 |
| 32 x 20R x 3,969 - 3 | 31,0 | 27,9 | 50 | 80 | BB2 | 65 | 9,0 | 84 | 13 | 25 | 71,0 | 71 | M6 | 0,90 |
| 32 x 32R x 3,969 - 3 | 31,0 | 27,9 | 50 | 80 | BB2 | 65 | 9,0 | 120 | 13 | 40 | 71,0 | 107 | M6 | 1,21 |
| 40 x 5R x 3,5 - 5 | 39,0 | 36,4 | 63 | 93 | BB1 | 78 | 9,0 | 54 | 15 | 10 | 81,5 | 39 | M8x1 | 1,03 |
| 40 x 10R x 6 - 4 | 38,0 | 33,8 | 63 | 93 | BB1 | 78 | 9,0 | 70 | 15 | 16 | 81,5 | 55 | M8x1 | 1,19 |
| 40 x 12R x 6 - 4 | 38,0 | 33,8 | 63 | 93 | BB1 | 78 | 9,0 | 75 | 15 | 25 | 81,5 | 60 | M8x1 | 1,27 |
| 40 x 16R x 6 - 4 | 38,0 | 33,8 | 63 | 93 | BB1 | 78 | 9,0 | 90 | 15 | 25 | 81,5 | 75 | M8x1 | 1,51 |
| 40 x 20R x 6 - 3 | 38,0 | 33,8 | 63 | 93 | BB1 | 78 | 9,0 | 88 | 15 | 25 | 81,5 | 73 | M8x1 | 1,44 |
| 40 x 40R x 6 - 3 | 38,0 | 33,8 | 63 | 93 | BB1 | 78 | 9,0 | 142 | 15 | 45 | 81,5 | 127 | M8x1 | 2,16 |
| 50 x 5R x 3,5 - 5 | 49,0 | 46,4 | 75 | 110 | BB1 | 93 | 11,0 | 54 | 15 | 10 | 97,5 | 39 | M8x1 | 1,39 |
| 50 x 10R x 6 - 6 | 48,0 | 43,8 | 75 | 110 | BB1 | 93 | 11,0 | 90 | 18 | 16 | 97,5 | 72 | M8x1 | 2,14 |
| 50 x 12R x 6 - 6 | 48,0 | 43,8 | 75 | 110 | BB1 | 93 | 11,0 | 105 | 18 | 25 | 97,5 | 87 | M8x1 | 2,38 |
| 50 x 16R x 6 - 6 | 48,0 | 43,8 | 75 | 110 | BB1 | 93 | 11,0 | 128 | 18 | 25 | 97,5 | 110 | M8x1 | 2,75 |
| 50 x 20R x 6,5 - 5 | 48,0 | 43,4 | 75 | 110 | BB1 | 93 | 11,0 | 132 | 18 | 25 | 97,5 | 114 | M8x1 | 2,73 |
| 50 x 40R x 6,5 - 3 | 48,0 | 43,4 | 75 | 110 | BB1 | 93 | 11,0 | 149 | 18 | 45 | 97,5 | 131 | M8x1 | 3,04 |
| 63 x 10R x 6 - 6 | 61,0 | 56,8 | 90 | 125 | BB1 | 108 | 11,0 | 90 | 22 | 16 | 110,0 | 68 | M8x1 | 2,56 |
| 63 x 20R x 6,5 - 5 | 61,0 | 56,4 | 95 | 135 | BB1 | 115 | 13,5 | 132 | 22 | 25 | 117,5 | 110 | M8x1 | 4,51 |
| 63 x 40R x 6,5 - 3 | 61,0 | 56,4 | 95 | 135 | BB1 | 115 | 13,5 | 149 | 22 | 45 | 117,5 | 127 | M8x1 | 5,04 |
| 80 x 10R x 6,5 - 6 | 78,0 | 73,3 | 105 | 145 | BB1 | 125 | 13,5 | 95 | 22 | 16 | 127,5 | 73 | M8x1 | 3,40 |
| 80 x 20R x 12,7 - 6 | 76,0 | 67,0 | 125 | 165 | BB1 | 145 | 13,5 | 170 | 25 | 25 | 147,5 | 145 | M8x1 | 10,20 |

3) Ejecución con conexión de lubricación: aplanamiento $L_3 \leq 13$ mm, descenso $L_3 > 14$ mm

Tuercas

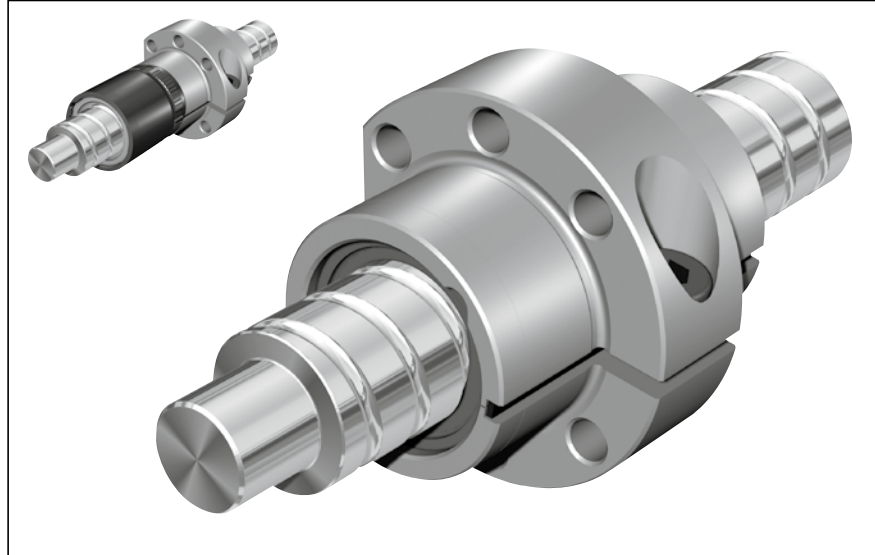
Tuerca simple ajustable sin juego SEM-E-C

Serie estándar

 Medidas según
 DIN 69 051, parte 5
 Brida tipo C

 Con juntas estándar
 Para juntas reforzadas ver página 126
 Precarga ajustable
 Para husillos laminados de precisión
 SN-R de la clase de tolerancia T5, T7

⚠ Durante la alineación de la unidad de lubricación adicional no se deberán realizar desplazamientos en contra de la misma.

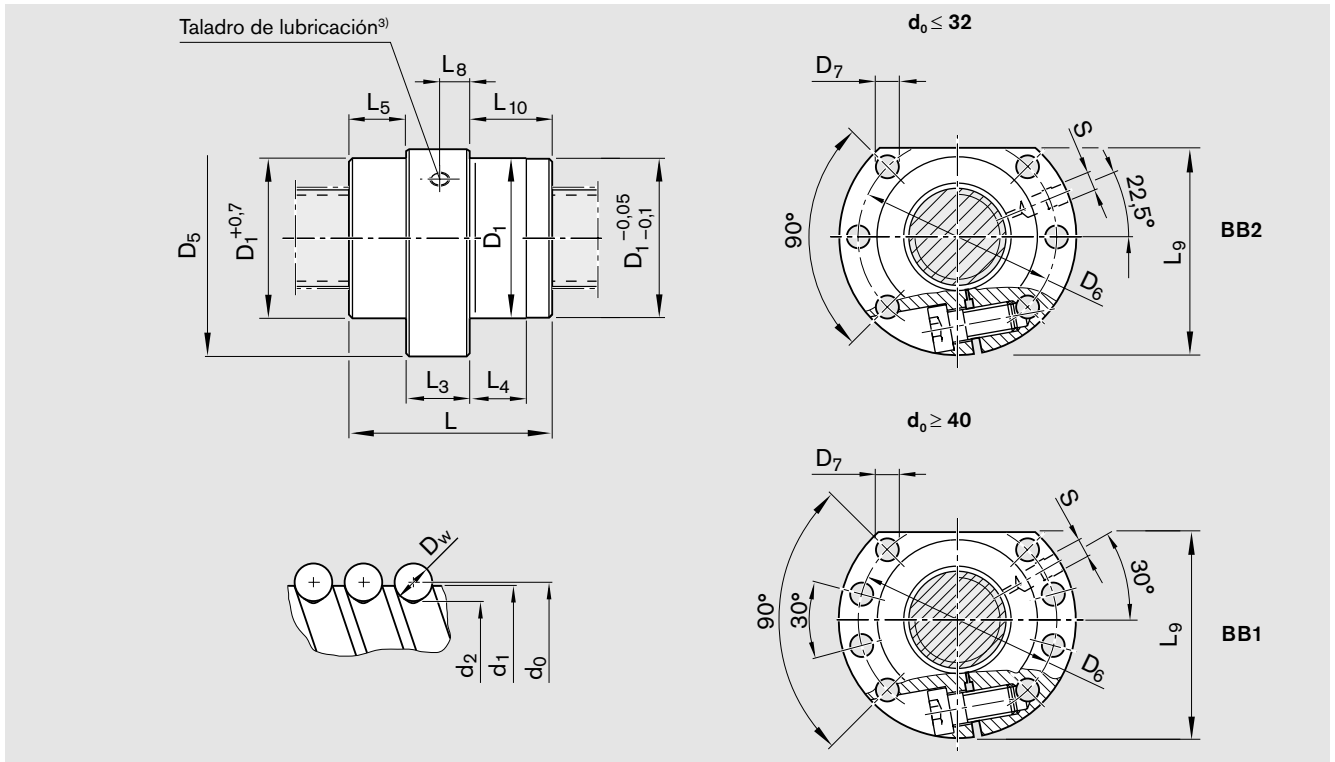

 d_0 = diámetro nominal
 P = paso
 (R = derecho, L = izquierdo)
 D_w = diámetro de la bola
 i = número de hileras

Datos de pedido: SEM-E-C 20 x 5R x 3-4 1 2 T7 R 82Z120 41Z120 1250 0 1

| Categoría | Tamaño $d_0 \times P \times D_w - i$ | Referencia | Capacidades de carga | | Velocidad ¹⁾ v_{max} (m/min) | Diámetro de centrado D_1 después del ajuste | |
|-----------|---|--------------|----------------------|---------------------|---|--|-----------|
| | | | din. C (N) | estát. C_0 (N) | | mín. (mm) | máx. (mm) |
| B | 16 x 5R x 3 - 4 | R1512 010 55 | 12300 | 16100 | 30 | 27,940 | 27,975 |
| C | 16 x 10R x 3 - 3 | R1512 040 75 | 9600 | 12300 | 60 | 27,940 | 27,975 |
| C | 16 x 16R x 3 - 3 | R1512 060 55 | 9300 | 12000 | 96 | 27,950 | 27,978 |
| B | 20 x 5R x 3 - 4 | R1512 110 75 | 14300 | 21500 | 30 | 35,935 | 35,970 |
| B | 20 x 20R x 3,5 - 3 | R1512 170 55 | 13300 | 18800 | 120 | 35,945 | 35,973 |
| B | 25 x 5R x 3 - 4 | R1512 210 75 | 15900 | 27200 | 30 | 39,935 | 39,970 |
| B | 25 x 10R x 3 - 4 | R1512 240 75 | 15700 | 27000 | 60 | 39,935 | 39,970 |
| C | 25 x 25R x 3,5 - 3 | R1512 280 55 | 14700 | 23300 | 150 | 39,945 | 39,973 |
| B | 32 x 5R x 3,5 - 4 | R1512 310 75 | 21600 | 40000 | 23 | 49,935 | 49,970 |
| B | 32 x 10R x 3,969 - 5 | R1512 340 75 | 31700 | 58300 | 47 | 49,935 | 49,970 |
| C | 32 x 20R x 3,969 - 3 | R1512 370 55 | 19700 | 33700 | 94 | 49,945 | 49,973 |
| C | 32 x 32R x 3,969 - 3 | R1512 390 55 | 19500 | 34000 | 150 | 49,945 | 49,973 |
| B | 40 x 5R x 3,5 - 5 | R1512 410 75 | 29100 | 64100 | 19 | 62,931 | 62,966 |
| C | 40 x 10R x 6 - 4 | R1512 440 75 | 50000 | 86400 | 38 | 62,931 | 62,966 |
| C | 40 x 12R x 6 - 4 | R1512 450 55 | 49900 | 86200 | 45 | 62,931 | 62,966 |
| C | 40 x 20R x 6 - 3 | R1512 470 75 | 37900 | 62800 | 75 | 62,941 | 62,969 |
| C | 40 x 40R x 6 - 3 | R1512 490 55 | 37000 | 62300 | 150 | 62,941 | 62,969 |
| C | 50 x 5R x 3,5 - 5 | R1512 510 75 | 32000 | 81300 | 15 | 74,931 | 74,966 |
| B | 50 x 10R x 6 - 6 | R1512 540 75 | 79700 | 166500 | 30 | 74,931 | 74,966 |
| C | 50 x 12R x 6 - 6 | R1512 550 55 | 79600 | 166400 | 36 | 74,931 | 74,966 |
| B | 50 x 20R x 6,5 - 5 | R1512 570 76 | 75700 | 149700 | 60 | 74,941 | 74,969 |
| B | 50 x 40R x 6,5 - 3 | R1512 590 55 | 46500 | 85900 | 120 | 74,941 | 74,969 |
| C | 63 x 10R x 6 - 6 | R1512 640 75 | 88800 | 214300 | 24 | 89,926 | 89,961 |
| B | 63 x 20R x 6,5 - 5 | R1512 670 76 | 83900 | 190300 | 48 | 94,936 | 94,964 |
| C | 63 x 40R x 6,5 - 3 | R1512 690 55 | 53400 | 114100 | 95 | 94,936 | 94,964 |
| C | 80 x 10R x 6,5 - 6 | R1512 740 75 | 108400 | 291700 | 19 | 104,926 | 104,961 |
| C | 80 x 20R x 12,7 - 6 ²⁾ | R1512 770 56 | 262700 | 534200 | 30 | 124,931 | 124,959 |

 1) Ver página 115 "Coeficiente de revoluciones $d_0 \cdot n$ " y página 150 "Revoluciones críticas n_c "

2) Tuercas 80 x 20R x 12,7 - 6, con precarga, y con una longitud de rosca de hasta 2500 mm disponibles



| Tamaño $d_0 \times P \times D_w - i$ | Medidas (mm) | | | | | | | | | | | | | | | Peso m (kg) |
|---|--------------|-------|-------------|-------|------------------------|-------|-------|-----|-------|-------|-------|-------|-------|----------|-------|-------------------|
| | d_1 | d_2 | D_1 f9 | D_5 | Esquema de taladros | D_6 | D_7 | L | L_3 | L_4 | L_5 | L_8 | L_9 | L_{10} | S^3 | |
| 16 x 5R x 3 - 4 | 15,0 | 12,9 | 28 | 48 | BB2 | 38 | 5,5 | 38 | 15 | 10 | 11,5 | 7,1 | 44,0 | 11,5 | M6 | 0,20 |
| 16 x 10R x 3 - 3 | 15,0 | 12,9 | 28 | 48 | BB2 | 38 | 5,5 | 45 | 15 | 15 | 15,0 | 11,0 | 44,0 | 15,0 | M6 | 0,22 |
| 16 x 16R x 3 - 3 | 15,0 | 12,9 | 28 | 48 | BB2 | 38 | 5,5 | 61 | 15 | 20 | 23,0 | 10,0 | 44,0 | 23,0 | M6 | 0,29 |
| 20 x 5R x 3 - 4 | 19,0 | 16,9 | 36 | 58 | BB2 | 47 | 6,6 | 40 | 15 | 10 | 12,5 | 7,1 | 51,0 | 12,5 | M6 | 0,33 |
| 20 x 20R x 3,5 - 3 | 19,0 | 16,7 | 36 | 58 | BB2 | 47 | 6,6 | 77 | 20 | 25 | 28,5 | 12,5 | 51,0 | 28,5 | M6 | 0,56 |
| 25 x 5R x 3 - 4 | 24,0 | 21,9 | 40 | 62 | BB2 | 51 | 6,6 | 45 | 20 | 10 | 12,5 | 9,5 | 55,0 | 12,5 | M6 | 0,43 |
| 25 x 10R x 3 - 4 | 24,0 | 21,9 | 40 | 62 | BB2 | 51 | 6,6 | 64 | 20 | 16 | 22,0 | 10,0 | 55,0 | 22,0 | M6 | 0,54 |
| 25 x 25R x 3,5 - 3 | 24,0 | 21,4 | 40 | 62 | BB2 | 51 | 6,6 | 95 | 25 | 30 | 35,0 | 14,0 | 55,0 | 35,0 | M6 | 0,77 |
| 32 x 5R x 3,5 - 4 | 31,0 | 28,4 | 50 | 80 | BB2 | 65 | 9,0 | 48 | 20 | 10 | 14,0 | 9,7 | 71,0 | 14,0 | M6 | 0,74 |
| 32 x 10R x 3,969 - 5 | 31,0 | 27,9 | 50 | 80 | BB2 | 65 | 9,0 | 77 | 20 | 16 | 28,5 | 12,5 | 71,0 | 28,5 | M6 | 0,97 |
| 32 x 20R x 3,969 - 3 | 31,0 | 27,9 | 50 | 80 | BB2 | 65 | 9,0 | 84 | 20 | 25 | 32,0 | 12,5 | 71,0 | 32,0 | M6 | 1,04 |
| 32 x 32R x 3,969 - 3 | 31,0 | 27,9 | 50 | 80 | BB2 | 65 | 9,0 | 120 | 20 | 40 | 50,0 | 12,5 | 71,0 | 50,0 | M6 | 1,34 |
| 40 x 5R x 3,5 - 5 | 39,0 | 36,4 | 63 | 93 | BB1 | 78 | 9,0 | 54 | 25 | 10 | 14,5 | 12,0 | 81,5 | 14,5 | M8x1 | 1,25 |
| 40 x 10R x 6 - 4 | 38,0 | 33,8 | 63 | 93 | BB1 | 78 | 9,0 | 70 | 25 | 16 | 22,5 | 11,8 | 81,5 | 22,5 | M8x1 | 1,39 |
| 40 x 12R x 6 - 4 | 38,0 | 33,8 | 63 | 93 | BB1 | 78 | 9,0 | 75 | 25 | 25 | 25,0 | 12,5 | 81,5 | 25,0 | M8x1 | 1,47 |
| 40 x 20R x 6 - 3 | 38,0 | 33,8 | 63 | 93 | BB1 | 78 | 9,0 | 88 | 25 | 25 | 31,5 | 16,5 | 81,5 | 31,5 | M8x1 | 1,55 |
| 40 x 40R x 6 - 3 | 38,0 | 33,8 | 63 | 93 | BB1 | 78 | 9,0 | 142 | 40 | 45 | 51,0 | 25,0 | 81,5 | 51,0 | M8x1 | 2,69 |
| 50 x 5R x 3,5 - 5 | 49,0 | 46,4 | 75 | 110 | BB1 | 93 | 11,0 | 54 | 25 | 10 | 14,5 | 12,0 | 97,5 | 14,5 | M8x1 | 1,67 |
| 50 x 10R x 6 - 6 | 48,0 | 43,8 | 75 | 110 | BB1 | 93 | 11,0 | 90 | 30 | 16 | 30,0 | 14,1 | 97,5 | 30,0 | M8x1 | 2,46 |
| 50 x 12R x 6 - 6 | 48,0 | 43,8 | 75 | 110 | BB1 | 93 | 11,0 | 105 | 30 | 25 | 37,5 | 15,0 | 97,5 | 37,5 | M8x1 | 2,69 |
| 50 x 20R x 6,5 - 5 | 48,0 | 43,4 | 75 | 110 | BB1 | 93 | 11,0 | 132 | 30 | 25 | 51,0 | 20,0 | 97,5 | 51,0 | M8x1 | 3,08 |
| 50 x 40R x 6,5 - 3 | 48,0 | 43,4 | 75 | 110 | BB1 | 93 | 11,0 | 149 | 30 | 45 | 59,5 | 18,0 | 97,5 | 59,5 | M8x1 | 3,39 |
| 63 x 10R x 6 - 6 | 61,0 | 56,8 | 90 | 125 | BB1 | 108 | 11,0 | 90 | 30 | 16 | 30,0 | 14,0 | 110,0 | 30,0 | M8x1 | 2,83 |
| 63 x 20R x 6,5 - 5 | 61,0 | 56,4 | 95 | 135 | BB1 | 115 | 13,5 | 132 | 30 | 25 | 51,0 | 20,0 | 117,5 | 51,0 | M8x1 | 4,86 |
| 63 x 40R x 6,5 - 3 | 61,0 | 56,4 | 95 | 135 | BB1 | 115 | 13,5 | 149 | 30 | 45 | 59,5 | 18,0 | 117,5 | 59,5 | M8x1 | 5,36 |
| 80 x 10R x 6,5 - 6 | 78,0 | 73,3 | 105 | 145 | BB1 | 125 | 13,5 | 95 | 30 | 16 | 32,5 | 14,0 | 127,5 | 32,5 | M8x1 | 3,73 |
| 80 x 20R x 12,7 - 6 | 76,0 | 67,0 | 125 | 165 | BB1 | 145 | 13,5 | 170 | 50 | 25 | 60,0 | 24,0 | 147,5 | 60,0 | M8x1 | 13,50 |

3) Ejecución con conexión de lubricación: aplanamiento $L_3 \leq 13$ mm, descenso $L_3 > 14$ mm

Tuercas

Tuerca simple embridada FEM-E-S

Serie estándar

Medidas de Rexroth

Con juntas estándar

Parcialmente en ejecución izquierda

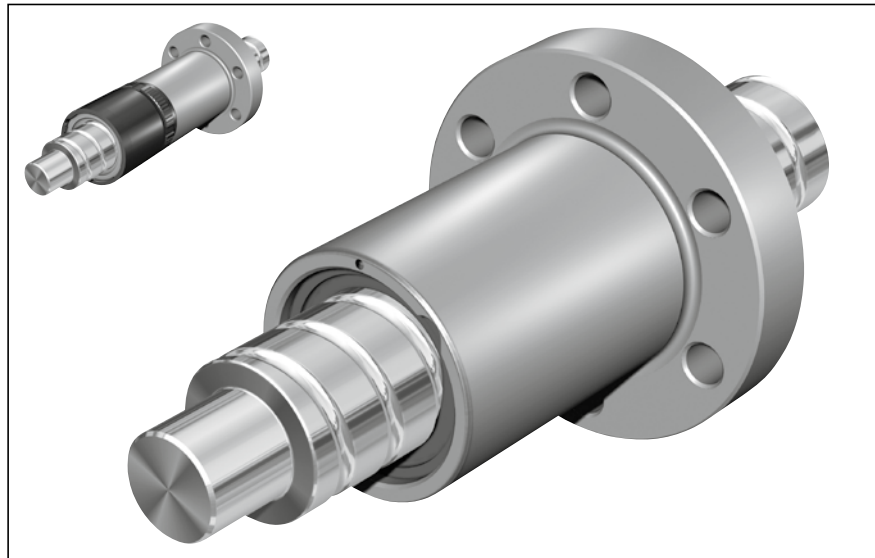
Para juntas reforzadas ver página 126

 Con juego axial, juego axial reducido,
 precarga del 2%, 3% y 5%

 Para husillos laminados de precisión SN-R
 de la clase de tolerancia T5, T7, T9

Nota: unidad de lubricación adicional
 sólo está disponible como se
 demuestra en la figura.

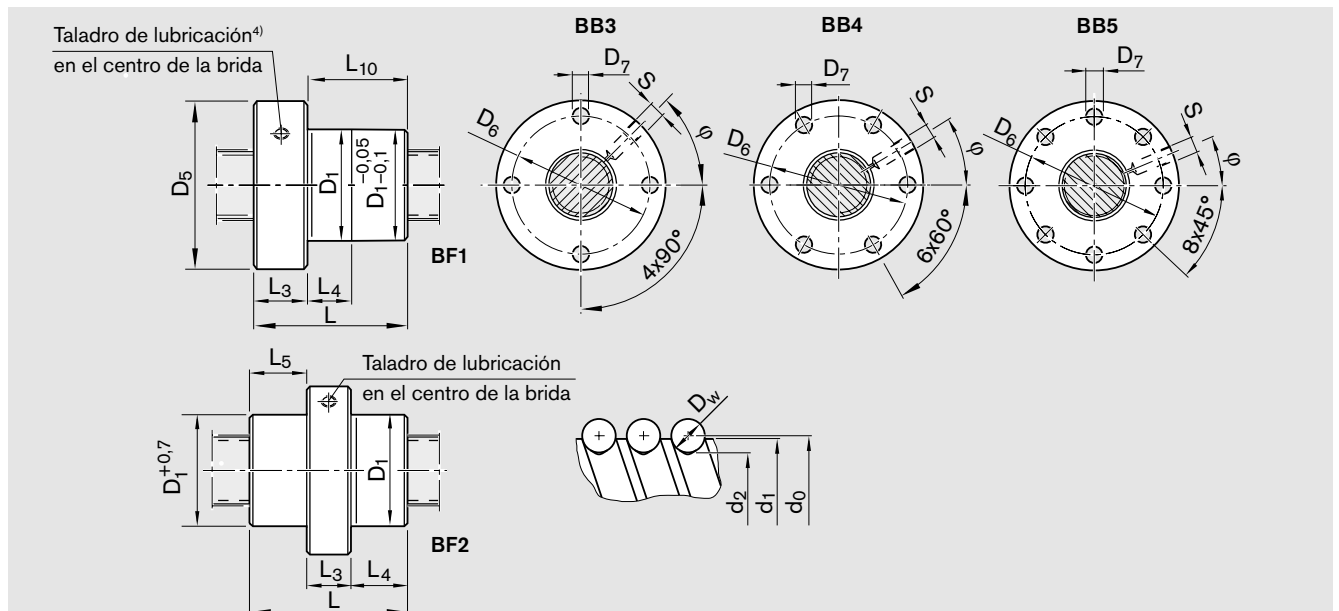
⚠ Durante la alineación de la
 unidad de lubricación adicional no se
 deberán realizar desplazamientos en
 contra de la misma.


 Datos de pedido: **FEM-E-S 20 x 5R x 3-4 1 2 T7 R 82Z120 41Z120 1250 0 1**

d_0 = diámetro nominal
 P = paso
 (R = derecho, L = izquierdo)
 D_w = diámetro de la bola
 i = número de hileras

| Categoría | Tamaño $d_0 \times P \times D_w - i$ | Referencia | Capacidades de carga | | Velocidad ¹⁾ v_{max} (m/min) |
|-----------------|---|--------------|----------------------|------------------------------|---|
| | | | din. C (N) | estát. C ₀ (N) | |
| A | 8 x 2,5R x 1,588 - 3 | R1532 230 03 | 2200 | 2800 | 15 |
| A | 12 x 5R x 2 - 3 | R1532 460 23 | 3800 | 5800 | 30 |
| B | 12 x 10R x 2 - 2 | R1532 490 13 | 2500 | 3600 | 60 |
| A | 16 x 5R x 3 - 4 | R1512 010 23 | 12300 | 16100 | 30 |
| C | 16 x 5L x 3 - 4 | R1552 010 03 | 12300 | 16100 | 30 |
| A | 16 x 10R x 3 - 3 | R1512 040 13 | 9600 | 12300 | 60 |
| B | 16 x 16R x 3 - 2 | R1512 060 13 | 6300 | 7600 | 96 |
| A ²⁾ | 20 x 5R x 3 - 4 | R1512 110 13 | 14300 | 21500 | 30 |
| B | 20 x 5L x 3 - 4 | R1552 110 13 | 14300 | 21500 | 30 |
| A | 20 x 10R x 3 - 4 | R1512 140 13 | 14100 | 21300 | 60 |
| A | 20 x 20R x 3,5 - 2 | R1512 170 13 | 9100 | 12100 | 120 |
| B | 20 x 20L x 3,5 - 2 | R1552 170 13 | 9100 | 12100 | 120 |
| A ²⁾ | 25 x 5R x 3 - 4 | R1512 210 13 | 15900 | 27200 | 30 |
| B | 25 x 5 L x 3 - 4 | R1552 210 13 | 15900 | 27200 | 30 |
| A ²⁾ | 25 x 10R x 3 - 4 | R1512 240 13 | 15700 | 27000 | 60 |
| A | 25 x 25R x 3,5 - 2 | R1512 280 13 | 10100 | 15100 | 150 |
| B | 25 x 25 L x 3,5 - 2 | R1552 280 13 | 10100 | 15100 | 150 |
| A ²⁾ | 32 x 5R x 3,5 - 4 | R1512 310 13 | 21600 | 40000 | 23 |
| A ²⁾ | 32 x 10R x 3,969 - 5 | R1512 340 13 | 31700 | 58300 | 47 |
| A ²⁾ | 32 x 20R x 3,969 - 2 | R1512 370 13 | 13500 | 21800 | 94 |
| A | 32 x 32R x 3,969 - 2 | R1512 390 13 | 13400 | 22000 | 150 |
| A | 40 x 5R x 3,5 - 5 | R1512 410 13 | 29100 | 64100 | 19 |
| A ²⁾ | 40 x 10R x 6 - 4 | R1512 440 13 | 50000 | 86400 | 38 |
| A ²⁾ | 40 x 20R x 6 - 3 | R1512 470 13 | 37900 | 62800 | 75 |
| B | 40 x 40R x 6 - 2 | R1512 490 13 | 25500 | 40300 | 150 |
| B | 50 x 5R x 3,5 - 5 | R1512 510 13 | 32000 | 81300 | 15 |
| A | 50 x 10R x 6 - 6 | R1512 540 13 | 79700 | 166500 | 30 |
| C | 50 x 16R x 6 - 6 | R1512 560 13 | 79400 | 166000 | 48 |
| B | 50 x 20R x 6,5 - 3 | R1512 570 13 | 47900 | 87900 | 60 |
| B | 50 x 40R x 6,5 - 2 | R1512 590 13 | 32100 | 55800 | 120 |
| A | 63 x 10R x 6 - 6 | R1512 640 13 | 88800 | 214300 | 24 |
| B | 63 x 20R x 6,5 - 3 | R1512 670 13 | 53200 | 112100 | 48 |
| C | 63 x 40R x 6,5 - 2 | R1512 690 13 | 36900 | 74300 | 95 |
| B | 80 x 10R x 6,5 - 6 | R1512 740 13 | 108400 | 291700 | 19 |
| B | 80 x 20R x 12,7 - 6 ³⁾ | R1512 770 23 | 262700 | 534200 | 30 |

- 1) Ver página 115 "Coeficiente de revoluciones $d_0 \cdot n$ " y página 150 "Revoluciones críticas n_{cr} ".
- 2) En estos tamaños puede reemplazarse por la FSZ-E-S
- 3) Tuercas 80 x 20R x 12,7 - 6, con precarga, y con una longitud de rosca de hasta 2500 mm disponibles



| Tamaño $d_0 \times P \times D_w - i$ | Medidas (mm) | | | | | | | | | | | | | | | Peso m (kg) |
|---|--------------|-------|-------------|-------|------------------------|-------|-------|--------------------------|-----|-------|-------|-------|----------|-------|------------------|-------------------|
| | d_1 | d_2 | D_1 g6 | D_5 | Esquema de taladros | D_6 | D_7 | Forma de construcción | L | L_3 | L_4 | L_5 | L_{10} | S^4 | φ (°) | |
| 8 x 2,5R x 1,588 - 3 | 7,5 | 6,3 | 16 | 30 | BB4 | 23 | 3,4 | BF1 | 16 | 8 | 8,0 | - | 8 | M4 | 30,0 | 0,05 |
| 12 x 5R x 2 - 3 | 11,4 | 9,9 | 24 | 40 | BB4 | 32 | 4,5 | BF1 | 28 | 12 | 10,0 | - | 16 | M6 | 330,0 | 0,12 |
| 12 x 10R x 2 - 2 | 11,4 | 9,9 | 24 | 40 | BB4 | 32 | 4,5 | BF1 | 33 | 12 | 16,0 | - | 21 | M6 | 330,0 | 0,14 |
| 16 x 5R x 3 - 4 | 15,0 | 12,9 | 28 | 53 | BB3 | 40 | 6,6 | BF1 | 38 | 12 | 10,0 | - | 26 | M6 | 315,0 | 0,24 |
| 16 x 5L x 3 - 4 | 15,0 | 12,9 | 28 | 53 | BB3 | 40 | 6,6 | BF1 | 38 | 12 | 10,0 | - | 26 | M6 | 45,0 | 0,24 |
| 16 x 10R x 3 - 3 | 15,0 | 12,9 | 28 | 53 | BB3 | 40 | 6,6 | BF1 | 45 | 12 | 16,0 | - | 33 | M6 | 315,0 | 0,25 |
| 16 x 16R x 3 - 2 | 15,0 | 12,9 | 33 | 58 | BB4 | 45 | 6,6 | BF2 | 45 | 15 | 15,0 | 15,0 | - | M6 | 30,0 | 0,39 |
| 20 x 5R x 3 - 4 | 19,0 | 16,9 | 33 | 58 | BB4 | 45 | 6,6 | BF1 | 40 | 12 | 10,0 | - | 28 | M6 | 30,0 | 0,28 |
| 20 x 5L x 3 - 4 | 19,0 | 16,9 | 33 | 58 | BB4 | 45 | 6,6 | BF1 | 40 | 12 | 10,0 | - | 28 | M6 | 30,0 | 0,28 |
| 20 x 10R x 3 - 4 | 19,0 | 16,9 | 33 | 58 | BB4 | 45 | 6,6 | BF1 | 60 | 12 | 16,0 | - | 48 | M6 | 30,0 | 0,36 |
| 20 x 20R x 3,5 - 2 | 19,0 | 16,7 | 38 | 63 | BB4 | 50 | 6,6 | BF2 | 57 | 20 | 18,5 | 18,5 | - | M6 | 30,0 | 0,60 |
| 20 x 20L x 3,5 - 2 | 19,0 | 16,7 | 38 | 63 | BB4 | 50 | 6,6 | BF2 | 57 | 20 | 18,5 | 18,5 | - | M6 | 30,0 | 0,60 |
| 25 x 5R x 3 - 4 | 24,0 | 21,9 | 38 | 63 | BB4 | 50 | 6,6 | BF1 | 45 | 12 | 10,0 | - | 33 | M6 | 30,0 | 0,35 |
| 25 x 5L x 3 - 4 | 24,0 | 21,9 | 38 | 63 | BB4 | 50 | 6,6 | BF1 | 45 | 12 | 10,0 | - | 33 | M6 | 30,0 | 0,35 |
| 25 x 10R x 3 - 4 | 24,0 | 21,9 | 38 | 63 | BB4 | 50 | 6,6 | BF1 | 64 | 12 | 16,0 | - | 52 | M6 | 30,0 | 0,44 |
| 25 x 25R x 3,5 - 2 | 24,0 | 21,4 | 48 | 73 | BB4 | 60 | 6,6 | BF2 | 70 | 25 | 22,5 | 22,5 | - | M6 | 18,0 | 1,09 |
| 25 x 25L x 3,5 - 2 | 24,0 | 21,4 | 48 | 73 | BB4 | 60 | 6,6 | BF2 | 70 | 25 | 22,5 | 22,5 | - | M6 | 18,0 | 1,09 |
| 32 x 5R x 3,5 - 4 | 31,0 | 28,4 | 48 | 73 | BB4 | 60 | 6,6 | BF1 | 48 | 13 | 10,0 | - | 35 | M6 | 30,0 | 0,54 |
| 32 x 10R x 3,969 - 5 | 31,0 | 27,9 | 48 | 73 | BB4 | 60 | 6,6 | BF1 | 77 | 13 | 16,0 | - | 64 | M6 | 30,0 | 0,72 |
| 32 x 20R x 3,969 - 2 | 31,0 | 27,9 | 56 | 80 | BB4 | 68 | 6,6 | BF1 | 64 | 15 | 25,0 | - | 49 | M6 | 30,0 | 1,02 |
| 32 x 32R x 3,969 - 2 | 31,0 | 27,9 | 56 | 80 | BB4 | 68 | 6,6 | BF2 | 88 | 20 | 34,0 | 34,0 | - | M6 | 30,0 | 1,40 |
| 40 x 5R x 3,5 - 5 | 39,0 | 36,4 | 56 | 80 | BB4 | 68 | 6,6 | BF1 | 54 | 15 | 10,0 | - | 39 | M8x1 | 30,0 | 0,71 |
| 40 x 10R x 6 - 4 | 38,0 | 33,8 | 63 | 95 | BB4 | 78 | 9,0 | BF1 | 70 | 15 | 16,0 | - | 55 | M8x1 | 30,0 | 1,29 |
| 40 x 20R x 6 - 3 | 38,0 | 33,8 | 63 | 95 | BB4 | 78 | 9,0 | BF1 | 88 | 15 | 25,0 | - | 73 | M8x1 | 30,0 | 1,54 |
| 40 x 40R x 6 - 2 | 38,0 | 33,8 | 72 | 110 | BB4 | 90 | 11,0 | BF2 | 102 | 40 | 31,0 | 31,0 | - | M8x1 | 19,0 | 3,59 |
| 50 x 5R x 3,5 - 5 | 49,0 | 46,4 | 68 | 98 | BB4 | 82 | 9,0 | BF1 | 54 | 15 | 10,0 | - | 39 | M8x1 | 30,0 | 1,02 |
| 50 x 10R x 6 - 6 | 48,0 | 43,8 | 72 | 110 | BB4 | 90 | 11,0 | BF1 | 90 | 18 | 16,0 | - | 72 | M8x1 | 30,0 | 2,02 |
| 50 x 16R x 6 - 6 | 48,0 | 43,8 | 72 | 110 | BB4 | 90 | 11,0 | BF1 | 128 | 18 | 25,0 | - | 110 | M8x1 | 30,0 | 2,58 |
| 50 x 20R x 6,5 - 3 | 48,0 | 43,4 | 85 | 125 | BB4 | 105 | 11,0 | BF1 | 92 | 22 | 25,0 | - | 70 | M8x1 | 30,0 | 3,40 |
| 50 x 40R x 6,5 - 2 | 48,0 | 43,4 | 85 | 125 | BB4 | 105 | 11,0 | BF1 | 109 | 22 | 45,0 | - | 87 | M8x1 | 30,0 | 3,87 |
| 63 x 10R x 6 - 6 | 61,0 | 56,8 | 85 | 125 | BB4 | 105 | 11,0 | BF1 | 90 | 22 | 16,0 | - | 68 | M8x1 | 30,0 | 2,62 |
| 63 x 20R x 6,5 - 3 | 61,0 | 56,4 | 95 | 140 | BB4 | 118 | 14,0 | BF1 | 92 | 22 | 25,0 | - | 70 | M8x1 | 30,0 | 3,71 |
| 63 x 40R x 6,5 - 2 | 61,0 | 56,4 | 95 | 140 | BB4 | 118 | 14,0 | BF1 | 109 | 22 | 45,0 | - | 87 | M8x1 | 30,0 | 4,21 |
| 80 x 10R x 6,5 - 6 | 78,0 | 73,3 | 105 | 150 | BB4 | 125 | 14,0 | BF1 | 95 | 22 | 16,0 | - | 73 | M8x1 | 30,0 | 3,78 |
| 80 x 20R x 12,7 - 6 | 76,0 | 67,0 | 125 | 180 | BB5 | 152 | 18,0 | BF1 | 170 | 25 | 25,0 | - | 145 | M8x1 | 22,5 | 11,00 |

4) Ejecución de la conexión de lubricación: planicie $L_3 \leq 13$ mm, asiento $L_3 > 14$ mm; en el tamaño 8 x 2,5 se suministra el engrasador tipo embudo según DIN 3405.



Tuercas

Tuerca simple ajustable sin juego SEM-E-S

Serie estándar

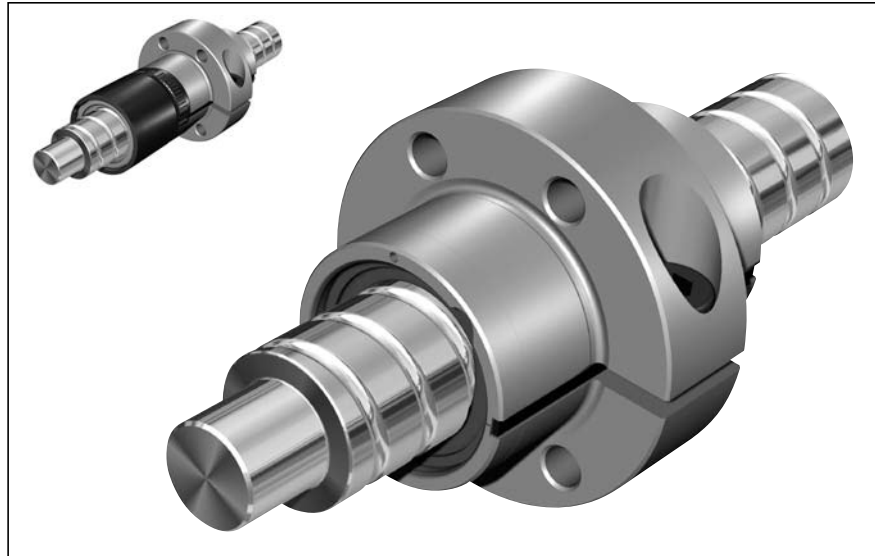
Medidas de Rexroth

Con juntas estándar
Para juntas reforzadas ver página 126
Precarga ajustable
Para husillos laminados de precisión SN-R de la clase de tolerancia T5, T7
Parcialmente en ejecución izquierda

Nota: la unidad de lubricación adicional sólo está disponible como se demuestra en la figura.

⚠ Durante la alineación de la unidad de lubricación adicional no se deberán realizar desplazamientos en contra de la misma.

d_0 = diámetro nominal
P = paso (R = derecho, L = izquierdo)
 D_w = diámetro de la bola
i = número de hileras

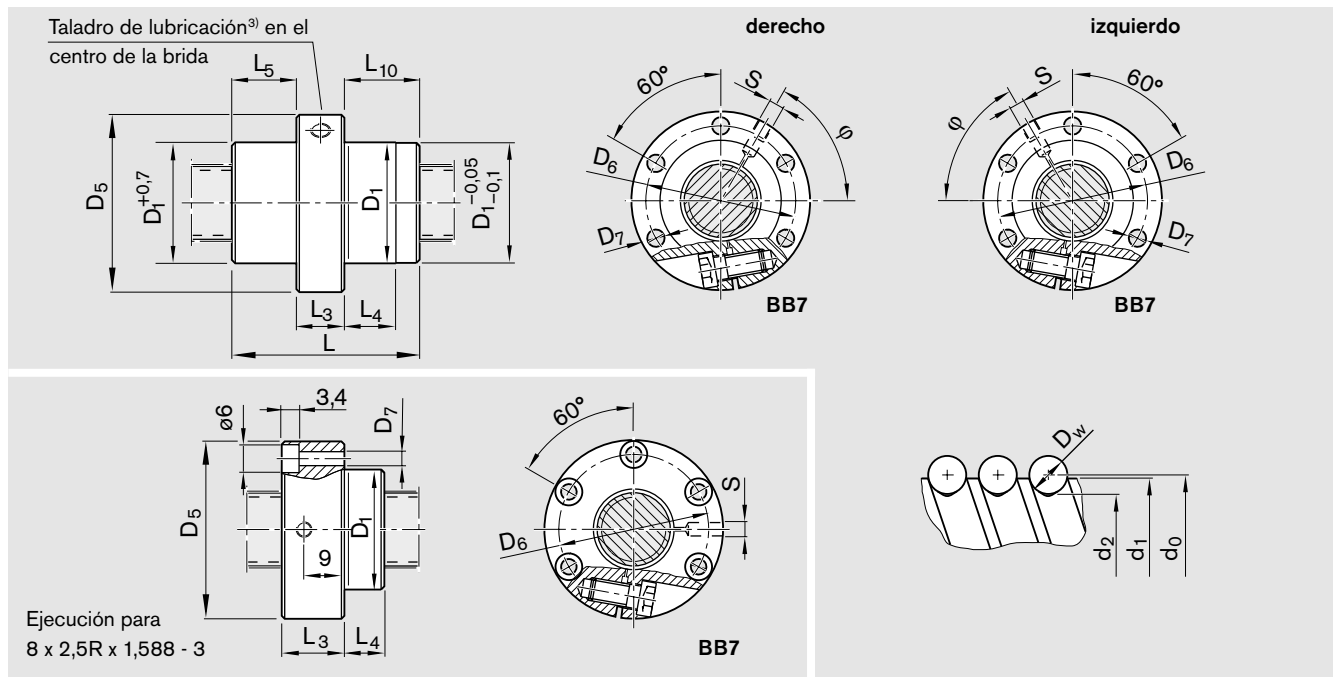


Datos de pedido: SEM-E-S 20 x 5R x 3-4 1 2 T7 R 82Z120 41Z120 1250 0 1

| Categoría | Tamaño $d_0 \times P \times D_w - i$ | Referencia | Capacidades de carga | | Velocidad ¹⁾ v_{max} (m/min) | Diámetro de centrado D_1 después del ajuste | |
|-----------|---|--------------|----------------------|---------------------|---|--|-----------|
| | | | din. C (N) | estát. C_0 (N) | | mín. (mm) | máx. (mm) |
| B | 8 x 2,5R x 1,588 - 3 | R1532 230 04 | 2200 | 2800 | 15 | 15,953 | 15,987 |
| B | 12 x 5R x 2 - 3 | R1532 460 24 | 3800 | 5800 | 30 | 23,940 | 23,975 |
| C | 12 x 10R x 2 - 2 | R1532 490 14 | 2500 | 3600 | 60 | 23,940 | 23,975 |
| B | 16 x 5R x 3 - 4 | R1512 010 24 | 12300 | 16100 | 30 | 27,940 | 27,975 |
| C | 16 x 10R x 3 - 3 | R1512 040 14 | 9600 | 12300 | 60 | 27,940 | 27,975 |
| C | 16 x 16R x 3 - 2 | R1512 060 14 | 6300 | 7600 | 96 | 32,945 | 32,973 |
| B | 20 x 5R x 3 - 4 | R1512 110 14 | 14300 | 21500 | 30 | 32,935 | 32,970 |
| B | 20 x 20R x 3,5 - 2 | R1512 170 14 | 9100 | 12100 | 120 | 37,945 | 37,973 |
| B | 25 x 5R x 3 - 4 | R1512 210 14 | 15900 | 27200 | 30 | 37,935 | 37,970 |
| B | 25 x 10R x 3 - 4 | R1512 240 14 | 15700 | 27000 | 60 | 37,935 | 37,970 |
| B | 25 x 25R x 3,5 - 2 | R1512 280 14 | 10100 | 15100 | 150 | 47,945 | 47,973 |
| B | 32 x 5R x 3,5 - 4 | R1512 310 14 | 21600 | 40000 | 23 | 47,935 | 47,970 |
| A | 32 x 5L x 3,5 - 4 | R1552 310 04 | 21600 | 40000 | 23 | 47,935 | 47,970 |
| B | 32 x 10R x 3,969 - 5 | R1512 340 14 | 31700 | 58300 | 47 | 47,935 | 47,970 |
| B | 32 x 20R x 3,969 - 2 | R1512 370 14 | 13500 | 21800 | 94 | 55,941 | 55,969 |
| B | 32 x 32R x 3,969 - 2 | R1512 390 14 | 13400 | 22000 | 150 | 55,941 | 55,969 |
| B | 40 x 5R x 3,5 - 5 | R1512 410 14 | 29100 | 64100 | 19 | 55,931 | 55,966 |
| B | 40 x 5L x 3,5 - 5 | R1552 410 04 | 29100 | 64100 | 19 | 55,931 | 55,966 |
| B | 40 x 10R x 6 - 4 | R1512 440 14 | 50000 | 86400 | 38 | 62,931 | 62,966 |
| B | 40 x 10L x 6 - 4 | R1552 440 04 | 50000 | 86400 | 38 | 62,931 | 62,966 |
| B | 40 x 20R x 6 - 3 | R1512 470 14 | 37900 | 62800 | 75 | 62,941 | 62,969 |
| B | 40 x 40R x 6 - 2 | R1512 490 14 | 25500 | 40300 | 150 | 71,941 | 71,969 |
| C | 50 x 5R x 3,5 - 5 | R1512 510 14 | 32000 | 81300 | 15 | 67,931 | 67,966 |
| B | 50 x 10R x 6 - 6 | R1512 540 14 | 79700 | 166500 | 30 | 71,931 | 71,966 |
| B | 50 x 20R x 6,5 - 3 | R1512 570 14 | 47900 | 87900 | 60 | 84,936 | 84,964 |
| B | 50 x 40R x 6,5 - 2 | R1512 590 14 | 32100 | 55800 | 120 | 84,936 | 84,964 |
| B | 63 x 10R x 6 - 6 | R1512 640 14 | 88800 | 214300 | 24 | 84,926 | 84,961 |
| C | 63 x 20R x 6,5 - 3 | R1512 670 14 | 53200 | 112100 | 48 | 94,936 | 94,964 |
| C | 63 x 40R x 6,5 - 2 | R1512 690 14 | 36900 | 74300 | 95 | 94,936 | 94,964 |
| C | 80 x 10R x 6,5 - 6 | R1512 740 14 | 108400 | 291700 | 19 | 104,926 | 104,961 |
| C | 80 x 20R x 12,7 - 6 ²⁾ | R1512 770 24 | 262700 | 534200 | 30 | 124,931 | 124,959 |

1) Ver página 115 "Coeficiente de revoluciones $d_0 \cdot n$ " y página 150 "Revoluciones críticas n_{cr} "

2) Tuercas 80 x 20R x 12,7 - 6, con precarga, y con una longitud de rosca de hasta 2500 mm disponibles



| Tamaño | Medidas (mm) | | | | | | | | | | | | Esquema de taladros | D ₆ | D ₇ | L | L ₃ | L ₄ | L ₅ | L ₁₀ | S ³⁾ | φ | Peso |
|----------------------|---|----------------|----------------|----------------|----------------|----------------|----------------|-----|----------------|----------------|----------------|-----------------|---------------------|----------------|----------------|---|----------------|----------------|----------------|-----------------|-----------------|---|------|
| | d ₀ x P x D _w - i | d ₁ | d ₂ | D ₁ | D ₅ | D ₆ | D ₇ | L | L ₃ | L ₄ | L ₅ | L ₁₀ | | | | | | | | | | | |
| 8 x 2,5R x 1,588 - 3 | 7,5 | 6,3 | 16 | 30 | BB7 | 23 | 3,4 | 16 | 13 | 3,0 | - | 3,0 | M4 | 0 | 0,06 | | | | | | | | |
| 12 x 5R x 2 - 3 | 11,4 | 9,9 | 24 | 40 | BB7 | 32 | 4,5 | 28 | 12 | 8,0 | 8,0 | 8,0 | M6 | 55 | 0,12 | | | | | | | | |
| 12 x 10R x 2 - 2 | 11,4 | 9,9 | 24 | 40 | BB7 | 32 | 4,5 | 33 | 12 | 10,5 | 10,5 | 10,5 | M6 | 55 | 0,13 | | | | | | | | |
| 16 x 5R x 3 - 4 | 15,0 | 12,9 | 28 | 53 | BB7 | 40 | 6,6 | 38 | 15 | 10,0 | 11,5 | 11,5 | M6 | 53 | 0,24 | | | | | | | | |
| 16 x 10R x 3 - 3 | 15,0 | 12,9 | 28 | 53 | BB7 | 40 | 6,6 | 45 | 15 | 15,0 | 15,0 | 15,0 | M6 | 180 | 0,25 | | | | | | | | |
| 16 x 16R x 3 - 2 | 15,0 | 12,9 | 33 | 58 | BB7 | 45 | 6,6 | 45 | 15 | 15,0 | 15,0 | 15,0 | M6 | 50 | 0,42 | | | | | | | | |
| 20 x 5R x 3 - 4 | 19,0 | 16,9 | 33 | 58 | BB7 | 45 | 6,6 | 40 | 15 | 10,0 | 12,5 | 12,5 | M6 | 56 | 0,31 | | | | | | | | |
| 20 x 20R x 3,5 - 2 | 19,0 | 16,7 | 38 | 63 | BB7 | 50 | 6,6 | 57 | 20 | 18,5 | 18,5 | 18,5 | M6 | 60 | 0,63 | | | | | | | | |
| 25 x 5R x 3 - 4 | 24,0 | 21,9 | 38 | 63 | BB7 | 50 | 6,6 | 45 | 20 | 10,0 | 12,5 | 12,5 | M6 | 60 | 0,44 | | | | | | | | |
| 25 x 10R x 3 - 4 | 24,0 | 21,9 | 38 | 63 | BB7 | 50 | 6,6 | 64 | 20 | 16,0 | 22,0 | 22,0 | M6 | 60 | 0,53 | | | | | | | | |
| 25 x 25R x 3,5 - 2 | 24,0 | 21,4 | 48 | 73 | BB7 | 60 | 6,6 | 70 | 25 | 22,5 | 22,5 | 22,5 | M6 | 48 | 1,13 | | | | | | | | |
| 32 x 5R x 3,5 - 4 | 31,0 | 28,4 | 48 | 73 | BB7 | 60 | 6,6 | 48 | 20 | 10,0 | 14,0 | 14,0 | M6 | 60 | 0,64 | | | | | | | | |
| 32 x 5L x 3,5 - 4 | 31,0 | 28,4 | 48 | 73 | BB7 | 60 | 6,6 | 48 | 20 | 10,0 | 14,0 | 14,0 | M6 | 59 | 0,64 | | | | | | | | |
| 32 x 10R x 3,969 - 5 | 31,0 | 27,9 | 48 | 73 | BB7 | 60 | 6,6 | 77 | 20 | 16,0 | 28,5 | 28,5 | M6 | 168 | 0,87 | | | | | | | | |
| 32 x 20R x 3,969 - 2 | 31,0 | 27,9 | 56 | 80 | BB7 | 68 | 6,6 | 64 | 20 | 22,0 | 22,0 | 22,0 | M6 | 60 | 1,14 | | | | | | | | |
| 32 x 32R x 3,969 - 2 | 31,0 | 27,9 | 56 | 80 | BB7 | 68 | 6,6 | 88 | 20 | 34,0 | 34,0 | 34,0 | M6 | 60 | 1,44 | | | | | | | | |
| 40 x 5R x 3,5 - 5 | 39,0 | 36,4 | 56 | 80 | BB7 | 68 | 6,6 | 54 | 20 | 10,0 | 17,0 | 17,0 | M8x1 | 65 | 0,87 | | | | | | | | |
| 40 x 5L x 3,5 - 5 | 39,0 | 36,4 | 56 | 80 | BB7 | 68 | 6,6 | 54 | 20 | 10,0 | 17,0 | 17,0 | M8x1 | 65 | 0,87 | | | | | | | | |
| 40 x 10R x 6 - 4 | 38,0 | 33,8 | 63 | 95 | BB7 | 78 | 9,0 | 70 | 25 | 16,0 | 22,5 | 22,5 | M8x1 | 57 | 1,53 | | | | | | | | |
| 40 x 10L x 6 - 4 | 38,0 | 33,8 | 63 | 95 | BB7 | 78 | 9,0 | 70 | 25 | 16,0 | 22,5 | 22,5 | M8x1 | 57 | 1,53 | | | | | | | | |
| 40 x 20R x 6 - 3 | 38,0 | 33,8 | 63 | 95 | BB7 | 78 | 9,0 | 88 | 25 | 25,0 | 31,5 | 31,5 | M8x1 | 180 | 1,77 | | | | | | | | |
| 40 x 40R x 6 - 2 | 38,0 | 33,8 | 72 | 110 | BB7 | 90 | 11,0 | 102 | 40 | 31,0 | 31,0 | 31,0 | M8x1 | 49 | 3,77 | | | | | | | | |
| 50 x 5R x 3,5 - 5 | 49,0 | 46,4 | 68 | 98 | BB7 | 82 | 9,0 | 54 | 25 | 10,0 | 14,5 | 14,5 | M8x1 | 67 | 1,23 | | | | | | | | |
| 50 x 10R x 6 - 6 | 48,0 | 43,8 | 72 | 110 | BB7 | 90 | 11,0 | 90 | 30 | 16,0 | 30,0 | 30,0 | M8x1 | 61 | 2,44 | | | | | | | | |
| 50 x 20R x 6,5 - 3 | 48,0 | 43,4 | 85 | 125 | BB7 | 105 | 11,0 | 92 | 30 | 25,0 | 31,0 | 31,0 | M8x1 | 180 | 3,94 | | | | | | | | |
| 50 x 40R x 6,5 - 2 | 48,0 | 43,4 | 85 | 125 | BB7 | 105 | 11,0 | 109 | 30 | 39,5 | 39,5 | 39,5 | M8x1 | 60 | 4,42 | | | | | | | | |
| 63 x 10R x 6 - 6 | 61,0 | 56,8 | 85 | 125 | BB7 | 105 | 11,0 | 90 | 30 | 16,0 | 30,0 | 30,0 | M8x1 | 65 | 2,94 | | | | | | | | |
| 63 x 20R x 6,5 - 3 | 61,0 | 56,4 | 95 | 140 | BB7 | 118 | 14,0 | 92 | 30 | 25,0 | 31,0 | 31,0 | M8x1 | 190 | 4,45 | | | | | | | | |
| 63 x 40R x 6,5 - 2 | 61,0 | 56,4 | 95 | 140 | BB7 | 118 | 14,0 | 109 | 30 | 39,5 | 39,5 | 39,5 | M8x1 | 70 | 4,95 | | | | | | | | |
| 80 x 10R x 6,5 - 6 | 78,0 | 73,3 | 105 | 150 | BB7 | 125 | 14,0 | 95 | 30 | 16,0 | 32,5 | 32,5 | M8x1 | 67 | 4,20 | | | | | | | | |
| 80 x 20R x 12,7 - 6 | 76,0 | 67,0 | 125 | 180 | BB7 | 152 | 18,0 | 170 | 50 | 25,0 | 60,0 | 60,0 | M8x1 | 60 | 13,30 | | | | | | | | |

3) Ejecución con conexión de lubricación: aplanamiento L₃ ≤ 13 mm, descenso L₃ > 14 mm; en el tamaño 8 x 2,5 se suministra el engrasador tipo embudo según DIN 3405



Tuercas

Tuerca simple cilíndrica ZEM-E-S

Serie estándar Medidas de Rexroth

Con juntas estándar
Para juntas reforzadas ver página 126
Con juego axial, juego axial reducido,
precarga del 2%, 3% y 5%
Para husillos laminados de precisión
SN-R de la clase de tolerancia T5,
T7, T9
Parcialmente en ejecución izquierda

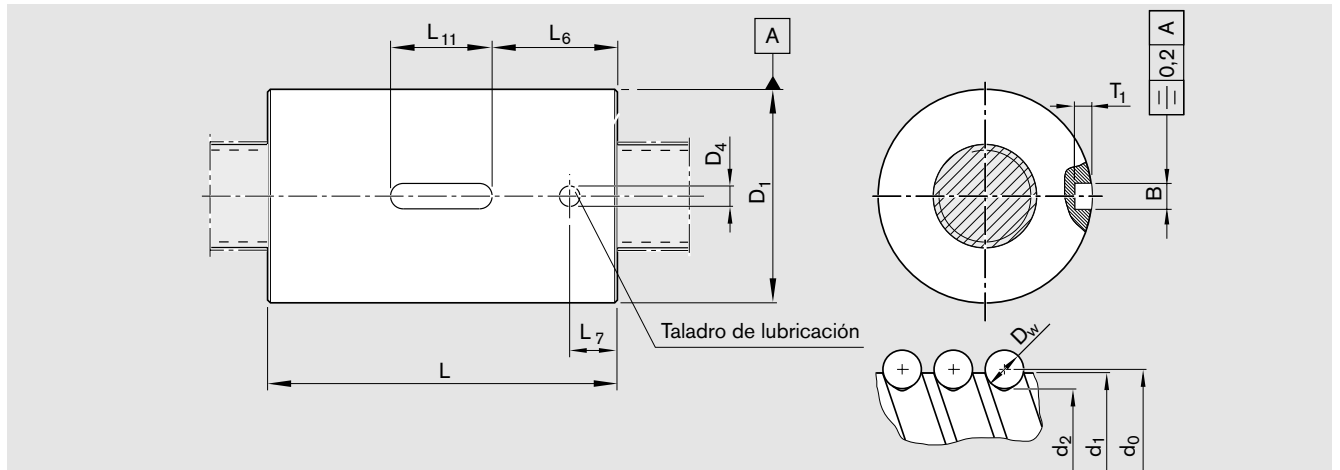


Datos de pedido: **ZEM-E-S 20 x 5R x 3-5 1 2 T7 R 82Z120 41Z120 1250 0 1**

d_0 = diámetro nominal
P = paso
(R = derecho, L = izquierdo)
 D_w = diámetro de la bola
i = número de hileras

| Categoría | Tamaño $d_0 \times P \times D_w - i$ | Referencia | Capacidades de carga | | Velocidad ¹⁾ v_{max} (m/min) |
|-----------------|---|--------------|----------------------|-----------------------------|---|
| | | | dyn. C (N) | stat. C ₀ (N) | |
| A | 8 x 2,5R x 1,588 - 3 | R1532 230 02 | 2200 | 2800 | 15 |
| B ²⁾ | 12 x 2R x 1,2 - 4 | R1532 422 01 | 2240 | 4160 | 12 |
| A | 12 x 5R x 2 - 3 | R1532 460 32 | 3800 | 5800 | 30 |
| A ²⁾ | 12 x 5R x 2 - 3 | R1532 462 25 | 3800 | 5800 | 30 |
| B | 12 x 10R x 2 - 2 | R1532 490 22 | 2500 | 3600 | 60 |
| B ²⁾ | 12 x 10R x 2 - 2 | R1532 492 00 | 2500 | 3600 | 60 |
| A | 16 x 5R x 3 - 4 | R1512 010 22 | 12300 | 16100 | 30 |
| B | 16 x 5L x 3 - 4 | R1552 010 02 | 12300 | 16100 | 30 |
| B ²⁾ | 16 x 5R x 3 - 4 | R1512 012 67 | 12300 | 16100 | 30 |
| A | 16 x 10R x 3 - 3 | R1512 040 12 | 9600 | 12300 | 60 |
| B ²⁾ | 16 x 10R x 3 - 3 | R1512 042 08 | 9600 | 12300 | 60 |
| B ²⁾ | 16 x 10R x 3 - 3 | R1512 042 09 | 9600 | 12300 | 60 |
| B | 16 x 16R x 3 - 2 | R1512 060 12 | 6300 | 7600 | 96 |
| B ²⁾ | 16 x 16R x 3 - 2 | R1512 062 10 | 6300 | 7600 | 96 |
| B ²⁾ | 16 x 16R x 3 - 3 | R1512 062 11 | 9600 | 12300 | 96 |
| A | 20 x 5R x 3 - 5 | R1512 110 12 | 17500 | 27300 | 30 |
| B ²⁾ | 20 x 5R x 3 - 4 | R1512 112 43 | 14300 | 21500 | 30 |
| A | 20 x 10R x 3 - 4 | R1512 140 12 | 14100 | 21300 | 60 |
| A | 20 x 20R x 3,5 - 2 | R1512 170 12 | 9100 | 12100 | 120 |
| B | 20 x 20R x 3,5 - 3 | R1512 170 52 | 13300 | 18800 | 120 |
| B ²⁾ | 20 x 20R x 3,5 - 3 | R1512 172 07 | 13300 | 18800 | 120 |
| A | 25 x 5R x 3 - 4 | R1512 210 12 | 15900 | 27200 | 30 |
| A | 25 x 10R x 3 - 4 | R1512 240 12 | 15700 | 27000 | 60 |
| B | 25 x 25R x 3,5 - 2 | R1512 280 12 | 10100 | 15100 | 150 |
| B | 25 x 25R x 3,5 - 3 | R1512 280 52 | 14700 | 23300 | 150 |
| B | 32 x 5R x 3,5 - 4 | R1512 310 12 | 21600 | 40000 | 23 |
| B | 32 x 5R x 3,5 - 4 | R1512 310 52 | 21600 | 40000 | 23 |
| A | 32 x 10R x 3,969 - 5 | R1512 340 12 | 31700 | 58300 | 47 |
| B | 32 x 10R x 3,969 - 5 | R1512 340 52 | 31700 | 58300 | 47 |
| C | 32 x 20R x 3,969 - 2 | R1512 370 12 | 13500 | 21800 | 94 |
| B | 32 x 20R x 3,969 - 3 | R1512 370 52 | 19700 | 33700 | 94 |
| C | 32 x 32R x 3,969 - 2 | R1512 390 12 | 13400 | 22000 | 150 |
| B | 32 x 32R x 3,969 - 3 | R1512 390 52 | 19500 | 34000 | 150 |
| C | 40 x 5R x 3,5 - 5 | R1512 410 12 | 29100 | 64100 | 19 |
| B ²⁾ | 40 x 5R x 3,5 - 5 | R1512 412 21 | 29100 | 64100 | 19 |
| B | 40 x 10R x 6 - 4 | R1512 440 12 | 50000 | 86400 | 38 |
| B | 40 x 20R x 6 - 3 | R1512 470 12 | 37900 | 62800 | 75 |
| C | 40 x 40R x 6 - 2 | R1512 490 12 | 25500 | 40300 | 150 |
| B | 40 x 40R x 6 - 3 | R1512 490 52 | 37000 | 62300 | 150 |
| C | 50 x 5R x 3,5 - 5 | R1512 510 12 | 32000 | 81300 | 15 |
| C | 50 x 10R x 6 - 6 | R1512 540 12 | 79700 | 166500 | 30 |
| C | 50 x 20R x 6,5 - 3 | R1512 570 12 | 47900 | 87900 | 60 |
| C | 63 x 10R x 6 - 6 | R1512 640 12 | 88800 | 214300 | 24 |

1) Ver página 115 "Coeficiente de revoluciones $d_0 \cdot n$ " y página 150 "Revoluciones críticas n_{cr} "
2) Tuercas especiales para módulos y unidades de accionamiento Rexroth



| Tamaño $d_0 \times P \times D_w - i$ | Medidas (mm) | | | | | | | | | | Peso m (kg) |
|---|--------------|-------|-------------|-------|----------------|-------|-------|--------------------|---------|-----------------|-------------------|
| | d_1 | d_2 | D_1 g6 | D_4 | L $\pm 0,1$ | L_6 | L_7 | L_{11} $+0,2$ | B P9 | T_1 $+0,1$ | |
| 8 x 2,5R x 1,588 - 3 | 7,5 | 6,3 | 16 | 2 | 16 | 5,0 | 3,5 | 6 | 3 | 1,8 | 0,02 |
| 12 x 2R x 1,2 - 4 | 11,7 | 10,8 | 21 | 2 | 19 | 5,5 | 3,5 | 8 | 3 | 1,8 | 0,03 |
| 12 x 5R x 2 - 3 | 11,4 | 9,9 | 24 | 2 | 28 | 8,0 | 3,5 | 12 | 5 | 3,0 | 0,06 |
| 12 x 5R x 2 - 3 | 11,4 | 9,9 | 21 | 2 | 28 | 8,0 | 3,5 | 12 | 3 | 1,8 | 0,04 |
| 12 x 10R x 2 - 2 | 11,4 | 9,9 | 24 | 2 | 33 | 10,5 | 3,5 | 12 | 5 | 3,0 | 0,07 |
| 12 x 10R x 2 - 2 | 11,4 | 9,9 | 21 | 2 | 33 | 10,5 | 3,5 | 12 | 3 | 1,8 | 0,05 |
| 16 x 5R x 3 - 4 | 15,0 | 12,9 | 28 | 4 | 35 | 14,5 | 9,5 | 12 | 5 | 3,0 | 0,09 |
| 16 x 5L x 3 - 4 | 15,0 | 12,9 | 28 | 4 | 35 | 14,5 | 9,5 | 12 | 5 | 3,0 | 0,09 |
| 16 x 5R x 3 - 4 | 15,0 | 12,9 | 33 | 2 | 45 | 14,5 | 9,5 | 16 | 5 | 3,0 | 0,17 |
| 16 x 10R x 3 - 3 | 15,0 | 12,9 | 28 | 4 | 45 | 14,5 | 9,5 | 16 | 5 | 3,0 | 0,12 |
| 16 x 10R x 3 - 3 | 15,0 | 12,9 | 38 | 4 | 54 | 19,0 | 9,5 | 16 | 5 | 3,0 | 0,35 |
| 16 x 10R x 3 - 3 | 15,0 | 12,9 | 33 | 4 | 45 | 14,5 | 9,5 | 16 | 5 | 3,0 | 0,20 |
| 16 x 16R x 3 - 2 | 15,0 | 12,9 | 33 | 4 | 45 | 14,5 | 9,5 | 16 | 5 | 3,0 | 0,20 |
| 16 x 16R x 3 - 2 | 15,0 | 12,9 | 28 | 4 | 45 | 14,5 | 9,5 | 16 | 5 | 3,0 | 0,12 |
| 16 x 16R x 3 - 3 | 15,0 | 12,9 | 38 | 4 | 61 | 22,5 | 9,5 | 16 | 5 | 3,0 | 0,42 |
| 20 x 5R x 3 - 5 | 19,0 | 16,9 | 33 | 4 | 45 | 14,5 | 9,5 | 16 | 5 | 3,0 | 0,16 |
| 20 x 5R x 3 - 4 | 19,0 | 16,9 | 38 | 4 | 40 | 21,0 | 9,5 | 12 | 5 | 3,0 | 0,21 |
| 20 x 10R x 3-4 | 19,0 | 16,9 | 33 | 4 | 60 | 22,0 | 9,5 | 16 | 5 | 3,0 | 0,16 |
| 20 x 20R x 3,5 - 2 | 19,0 | 16,7 | 38 | 4 | 64 | 22,0 | 9,5 | 20 | 5 | 3,0 | 0,34 |
| 20 x 20R x 3,5 - 3 | 19,0 | 16,7 | 36 | 4 | 77 | 28,5 | 9,5 | 20 | 5 | 3,0 | 0,37 |
| 20 x 20R x 3,5 - 3 | 19,0 | 16,7 | 38 | 4 | 77 | 28,5 | 9,5 | 20 | 5 | 3,0 | 0,44 |
| 25 x 5R x 3 - 4 | 24,0 | 21,9 | 38 | 4 | 45 | 14,5 | 9,5 | 16 | 5 | 3,0 | 0,19 |
| 25 x 10R x 3 - 4 | 24,0 | 21,9 | 38 | 4 | 64 | 22,0 | 9,5 | 20 | 5 | 3,0 | 0,28 |
| 25 x 25R x 3,5 - 2 | 24,0 | 21,4 | 48 | 4 | 80 | 30,0 | 10,5 | 20 | 5 | 3,0 | 0,73 |
| 25 x 25R x 3,5 - 3 | 24,0 | 21,4 | 40 | 4 | 95 | 37,5 | 10,5 | 20 | 5 | 3,0 | 0,50 |
| 32 x 5R x 3,5 - 4 | 31,0 | 28,4 | 48 | 4 | 48 | 14,0 | 9,5 | 20 | 5 | 3,0 | 0,32 |
| 32 x 5R x 3,5 - 4 | 31,0 | 28,4 | 50 | 4 | 48 | 14,0 | 9,5 | 20 | 5 | 3,0 | 0,35 |
| 32 x 10R x 3,969 - 5 | 31,0 | 27,9 | 48 | 4 | 77 | 28,5 | 9,5 | 20 | 5 | 3,0 | 0,50 |
| 32 x 10R x 3,969 - 5 | 31,0 | 27,9 | 50 | 4 | 77 | 28,5 | 9,5 | 20 | 5 | 3,0 | 0,61 |
| 32 x 20R x 3,969 - 2 | 31,0 | 27,9 | 56 | 4 | 64 | 22,0 | 9,5 | 20 | 5 | 3,0 | 0,74 |
| 32 x 20R x 3,969 - 3 | 31,0 | 27,9 | 50 | 4 | 84 | 32,0 | 9,5 | 20 | 5 | 3,0 | 0,66 |
| 32 x 32R x 3,969 - 2 | 31,0 | 27,9 | 56 | 4 | 88 | 34,0 | 9,5 | 20 | 5 | 3,0 | 1,03 |
| 32 x 32R x 3,969 - 3 | 31,0 | 27,9 | 50 | 4 | 120 | 50,0 | 9,5 | 20 | 5 | 3,0 | 0,97 |
| 40 x 5R x 3,5 - 5 | 39,0 | 36,4 | 56 | 4 | 54 | 17,0 | 9,5 | 20 | 5 | 3,0 | 0,44 |
| 40 x 5R x 3,5 - 5 | 39,0 | 36,4 | 63 | 4 | 70 | 25,0 | 14,0 | 20 | 5 | 3,0 | 0,82 |
| 40 x 10R x 6 - 4 | 38,0 | 33,8 | 63 | 4 | 70 | 25,0 | 14,0 | 20 | 5 | 3,0 | 0,88 |
| 40 x 20R x 6 - 3 | 38,0 | 33,8 | 63 | 4 | 88 | 34,0 | 14,0 | 20 | 5 | 3,0 | 1,13 |
| 40 x 40R x 6 - 2 | 38,0 | 33,8 | 72 | 4 | 113 | 46,5 | 14,0 | 20 | 5 | 3,0 | 2,23 |
| 40 x 40R x 6 - 3 | 38,0 | 33,8 | 63 | 4 | 142 | 61,0 | 14,0 | 20 | 5 | 3,0 | 1,85 |
| 50 x 5R x 3,5 - 5 | 49,0 | 46,4 | 68 | 4 | 54 | 17,0 | 9,5 | 20 | 5 | 3,0 | 0,62 |
| 50 x 10R x 6 - 6 | 48,0 | 43,8 | 72 | 5 | 90 | 35,0 | 14,0 | 20 | 5 | 3,0 | 1,34 |
| 50 x 20R x 6,5 - 3 | 48,0 | 43,4 | 85 | 5 | 92 | 30,0 | 14,0 | 32 | 6 | 3,5 | 2,39 |
| 63 x 10R x 6 - 6 | 61,0 | 56,8 | 85 | 5 | 90 | 29,0 | 14,0 | 32 | 6 | 3,5 | 1,59 |

Tuercas

Tuerca simple embrizada FED-E-B c/doble hilera de bolas independientes

Serie estándar

Medidas parecidas
a DIN 69 051, parte 5
Brida tipo B

Tuerca con doble hilera de bolas independientes para una mayor capacidad de carga estática y dinámica
Las medidas corresponden a la serie estándar de Rexroth
Con juntas estándar
Con juego axial, juego axial reducido y precarga del 2%, 3%
Para husillos laminados de precisión SN-R de la clase de tolerancia T5, T7

Nota: se suministra únicamente el husillo de bolas completo con tuerca.

⚠ Durante la alineación de la unidad de lubricación adicional no se deberán realizar desplazamientos en contra de la misma.



Datos de pedido: **FED-E-B 40 x 20R x 6 - 4 x 2 1 6 T5 R 13Z400 41K300 0 1**

| Categoría | Tamaño $d_0 \times P \times D_w - i \times b$ | Referencia | Capacidades de carga | | Carga estática máxima ^{1) 2)} (kN) | Velocidad | |
|-----------|--|--------------|----------------------|-------------------------------|--|------------------|---------|
| | | | din. C (kN) | estát. C ₀ (kN) | | v _{max} | (m/min) |
| B | 40 x 20 R x 6 - 4 x 2 | R1512 470 32 | 76,4 | 171,1 | 87 | | 75 |
| B | 40 x 40 R x 6 - 3 x 2 | R1512 490 32 | 57,2 | 124,5 | 83 | | 150 |
| B | 50 x 20 R x 6,5 - 4 x 2 | R1512 570 32 | 93,2 | 228,0 | 120 | | 60 |
| B | 50 x 25 R x 6,5 - 3 x 2 | R1512 580 32 | 74,1 | 175,1 | 117 | | 75 |
| B | 50 x 40 R x 6,5 - 3 x 2 | R1512 590 32 | 71,4 | 171,5 | 119 | | 120 |
| B | 63 x 20 R x 6,5 - 4 x 2 | R1512 670 32 | 104,6 | 292,0 | 142 | | 48 |
| B | 63 x 40 R x 6,5 - 3 x 2 | R1512 690 32 | 80,0 | 217,0 | 148 | | 95 |

1) El rendimiento de los contactos de las bolas es superior a la rigidez mecánica del cuerpo de la tuerca, por ello se han puesto los valores de la carga estática máxima.

2) Para el dimensionado de los apoyos entre en contacto con su comercial correspondiente.

d_0 = diámetro nominal

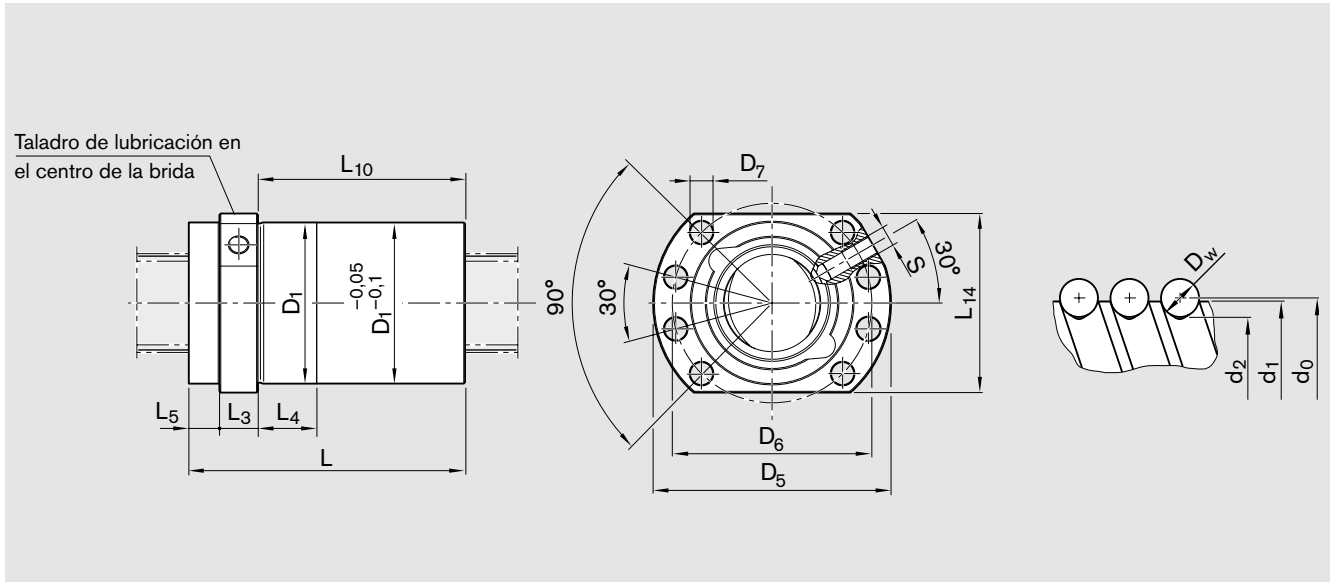
P = paso
(R = derecho, L = izquierdo)

D_w = diámetro de la bola

i = a x b

a = hileras de bolas

b = Cantidad de pistas de rodadura



| Tamaño $d_0 \times P \times D_w - i \times b$ | Medidas (mm) | | | | | | | | | | | | | Peso | |
|--|--------------|-------|-------------|-------|-------|-------|-----|-------|-------|-------|----------|----------|------|-----------|--|
| | d_1 | d_2 | D_1 g6 | D_5 | D_6 | D_7 | L | L_3 | L_4 | L_5 | L_{10} | L_{14} | S | m (kg) | |
| 40 x 20 R x 6 - 4 x 2 | 38,0 | 33,8 | 63 | 93 | 78 | 9,0 | 108 | 15 | 25 | 13,0 | 80,0 | 70 | M8x1 | 1,85 | |
| 40 x 40 R x 6 - 3 x 2 | 38,0 | 33,8 | 63 | 93 | 78 | 9,0 | 142 | 15 | 45 | 11,5 | 115,5 | 70 | M8x1 | 2,35 | |
| 50 x 20 R x 6,5 - 4 x 2 | 48,0 | 43,4 | 75 | 110 | 93 | 11,0 | 112 | 18 | 25 | 13,0 | 81,0 | 85 | M8x1 | 2,50 | |
| 50 x 25 R x 6,5 - 3 x 2 | 48,0 | 43,4 | 75 | 110 | 93 | 11,0 | 107 | 18 | 25 | 13,5 | 75,5 | 85 | M8x1 | 2,45 | |
| 50 x 40 R x 6,5 - 3 x 2 | 48,0 | 43,4 | 75 | 110 | 93 | 11,0 | 149 | 18 | 45 | 15,0 | 116,0 | 85 | M8x1 | 3,40 | |
| 63 x 20 R x 6,5 - 4 x 2 | 61,0 | 56,4 | 95 | 135 | 115 | 13,5 | 112 | 22 | 25 | 11,0 | 79,0 | 100 | M8x1 | 3,90 | |
| 63 x 40 R x 6,5 - 3 x 2 | 61,0 | 56,4 | 95 | 135 | 115 | 13,5 | 149 | 22 | 45 | 12,0 | 115,0 | 100 | M8x1 | 5,05 | |

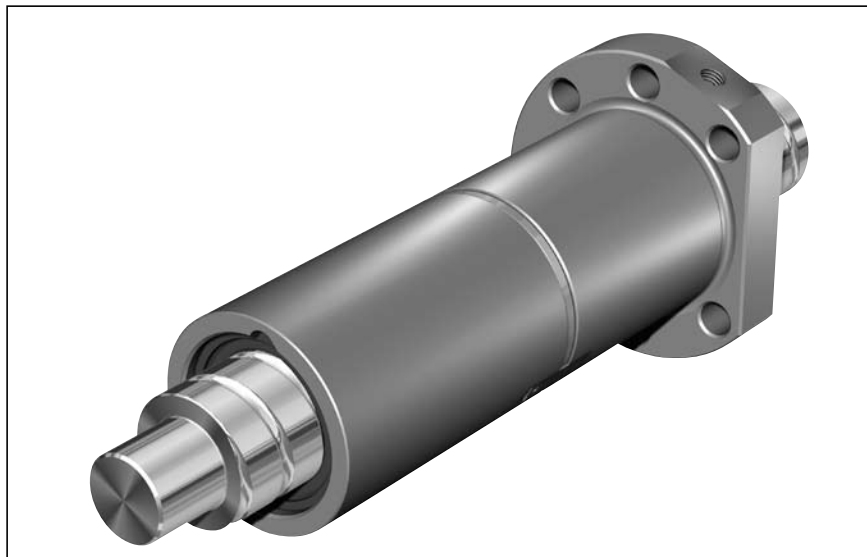
Tuercas

Tuerca doble embridada FDM-E-C

Serie estándar

Medidas según
 DIN 69 051, parte 5
 Brida tipo C

Con juntas estándar
 Para juntas reforzadas ver página 126
 Con precarga del 7% o 10%
 Para husillos laminados de precisión
 SN-R de la clase de tolerancia T5, T7

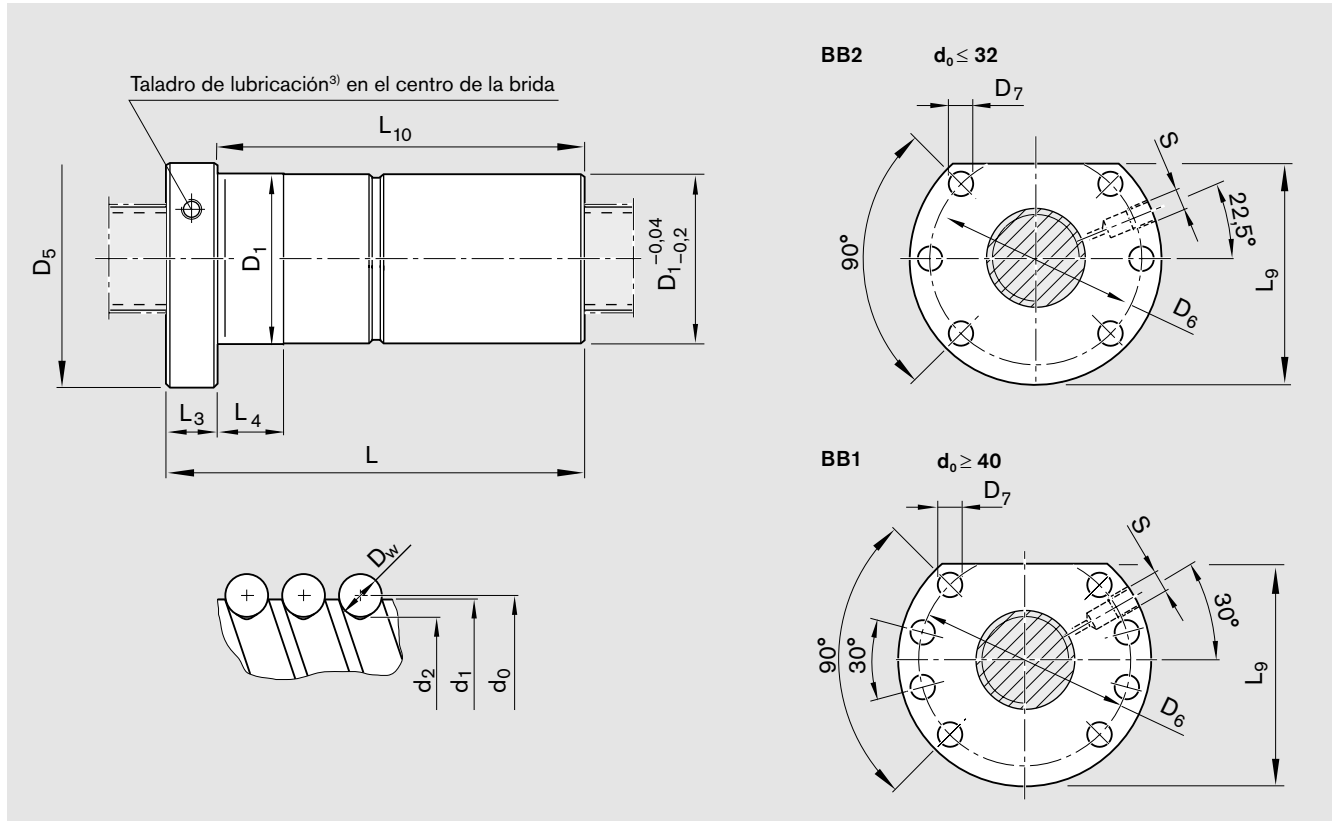

 Datos de pedido: **FDM-E-C 20 x 5R x 3-4 1 2 T7 R 82Z120 41Z120 1250 0 1**

d_o = diámetro nominal
 P = paso
 (R = derecho, L = izquierdo)
 D_w = diámetro de la bola
 i = número de hileras

| Categoría | Tamaño $d_o \times P \times D_w - i$ | Referencia | Capacidades de carga | | Velocidad ¹⁾ |
|-----------|---|--------------|----------------------|------------------------------|-------------------------|
| | | | din. C (N) | estát. C ₀ (N) | v_{max} (m/min) |
| C | 16 x 5R x 3 - 4 | R1502 010 55 | 12300 | 16100 | 30 |
| C | 20 x 5R x 3 - 4 | R1502 110 75 | 14300 | 21500 | 30 |
| C | 25 x 5R x 3 - 4 | R1502 210 75 | 15900 | 27200 | 30 |
| C | 25 x 10R x 3 - 4 | R1502 240 75 | 15700 | 27000 | 60 |
| C | 32 x 5R x 3,5 - 4 | R1502 310 75 | 21600 | 40000 | 23 |
| C | 32 x 10R x 3,969 - 5 | R1502 340 76 | 31700 | 58300 | 47 |
| C | 40 x 5R x 3,5 - 5 | R1502 410 76 | 29100 | 64100 | 19 |
| C | 40 x 10R x 6 - 4 | R1502 440 75 | 50000 | 86400 | 38 |
| C | 40 x 10R x 6 - 6 | R1502 440 76 | 72100 | 132200 | 38 |
| C | 40 x 20R x 6 - 3 | R1502 470 75 | 37900 | 62800 | 75 |
| C | 50 x 5R x 3,5 - 5 | R1502 510 76 | 32000 | 81300 | 15 |
| C | 50 x 10R x 6 - 4 | R1502 540 75 | 55400 | 109000 | 30 |
| C | 50 x 10R x 6 - 6 | R1502 540 76 | 79700 | 166500 | 30 |
| C | 50 x 20R x 6,5 - 5 | R1502 570 76 | 75700 | 149700 | 60 |
| C | 63 x 10R x 6 - 4 | R1502 640 75 | 61800 | 140500 | 24 |
| C | 63 x 10R x 6 - 6 | R1502 640 76 | 88800 | 214300 | 24 |
| C | 63 x 20R x 6,5 - 5 | R1502 670 76 | 83900 | 190300 | 48 |
| C | 80 x 10R x 6,5 - 6 | R1502 740 76 | 108400 | 291700 | 19 |
| C | 80 x 20R x 12,7 - 6 ²⁾ | R1502 770 46 | 262700 | 534200 | 30 |

 1) Ver página 115 "Coeficiente de revoluciones $d_o \cdot n$ " y página 150 "Revoluciones críticas n_{cr} "

2) Tuercas 80 x 20R x 12,7 - 6, con precarga, y con una longitud de rosca de hasta 2500 mm disponibles



| Tamaño | Medidas (mm) | | | | | | | | | | | | Peso m (kg) | | |
|---|----------------|----------------|----------------------|----------------|------------------------|----------------|----------------|-----|----------------|----------------|----------------|-----------------|-------------------|-----------------|--|
| | d ₁ | d ₂ | D ₁ g6 | D ₅ | Esquema de taladros | D ₆ | D ₇ | L | L ₃ | L ₄ | L ₉ | L ₁₀ | | S ³⁾ | |
| d ₀ x P x D _w - i | | | | | | | | | | | | | | | |
| 16 x 5R x 3 - 4 | 15,0 | 12,9 | 28 | 48 | BB2 | 38 | 5,5 | 72 | 12 | 10 | 44,0 | 60 | M6 | 0,29 | |
| 20 x 5R x 3 - 4 | 19,0 | 16,9 | 36 | 58 | BB2 | 47 | 6,6 | 82 | 12 | 10 | 51,0 | 70 | M6 | 0,53 | |
| 25 x 5R x 3 - 4 | 24,0 | 21,9 | 40 | 62 | BB2 | 51 | 6,6 | 82 | 12 | 10 | 55,0 | 70 | M6 | 0,57 | |
| 25 x 10R x 3 - 4 | 24,0 | 21,9 | 40 | 62 | BB2 | 51 | 6,6 | 120 | 12 | 16 | 55,0 | 108 | M6 | 0,77 | |
| 32 x 5R x 3,5 - 4 | 31,0 | 28,4 | 50 | 80 | BB2 | 65 | 9,0 | 88 | 13 | 10 | 71,0 | 75 | M6 | 0,96 | |
| 32 x 10R x 3,969 - 5 | 31,0 | 27,9 | 50 | 80 | BB2 | 65 | 9,0 | 146 | 13 | 16 | 71,0 | 133 | M6 | 1,34 | |
| 40 x 5R x 3,5 - 5 | 39,0 | 36,4 | 63 | 93 | BB1 | 78 | 9,0 | 100 | 15 | 10 | 81,5 | 85 | M8x1 | 1,68 | |
| 40 x 10R x 6 - 4 | 38,0 | 33,8 | 63 | 93 | BB1 | 78 | 9,0 | 140 | 15 | 16 | 81,5 | 125 | M8x1 | 2,15 | |
| 40 x 10R x 6 - 6 | 38,0 | 33,8 | 63 | 93 | BB1 | 78 | 9,0 | 180 | 15 | 16 | 81,5 | 165 | M8x1 | 2,73 | |
| 40 x 20R x 6 - 3 | 38,0 | 33,8 | 63 | 93 | BB1 | 78 | 9,0 | 175 | 15 | 25 | 81,5 | 160 | M8x1 | 2,56 | |
| 50 x 5R x 3,5 - 5 | 49,0 | 46,4 | 75 | 110 | BB1 | 93 | 11,0 | 100 | 15 | 10 | 97,5 | 85 | M8x1 | 2,25 | |
| 50 x 10R x 6 - 4 | 48,0 | 43,8 | 75 | 110 | BB1 | 93 | 11,0 | 140 | 18 | 16 | 97,5 | 122 | M8x1 | 2,97 | |
| 50 x 10R x 6 - 6 | 48,0 | 43,8 | 75 | 110 | BB1 | 93 | 11,0 | 180 | 18 | 16 | 97,5 | 162 | M8x1 | 3,73 | |
| 50 x 20R x 6,5 - 5 | 48,0 | 43,4 | 75 | 110 | BB1 | 93 | 11,0 | 255 | 18 | 25 | 97,5 | 237 | M8x1 | 4,93 | |
| 63 x 10R x 6 - 4 | 61,0 | 56,8 | 90 | 125 | BB1 | 108 | 11,0 | 140 | 22 | 16 | 110,0 | 118 | M8x1 | 4,00 | |
| 63 x 10R x 6 - 6 | 61,0 | 56,8 | 90 | 125 | BB1 | 108 | 11,0 | 180 | 22 | 16 | 110,0 | 158 | M8x1 | 4,45 | |
| 63 x 20R x 6,5 - 5 | 61,0 | 56,4 | 95 | 135 | BB1 | 115 | 13,5 | 255 | 22 | 25 | 117,5 | 233 | M8x1 | 8,21 | |
| 80 x 10R x 6,5 - 6 | 78,0 | 73,3 | 105 | 145 | BB1 | 125 | 13,5 | 190 | 22 | 16 | 127,5 | 168 | M8x1 | 5,93 | |
| 80 x 20R x 12,7 - 6 | 76,0 | 67,0 | 125 | 165 | BB1 | 145 | 13,5 | 340 | 25 | 25 | 147,5 | 315 | M8x1 | 19,40 | |

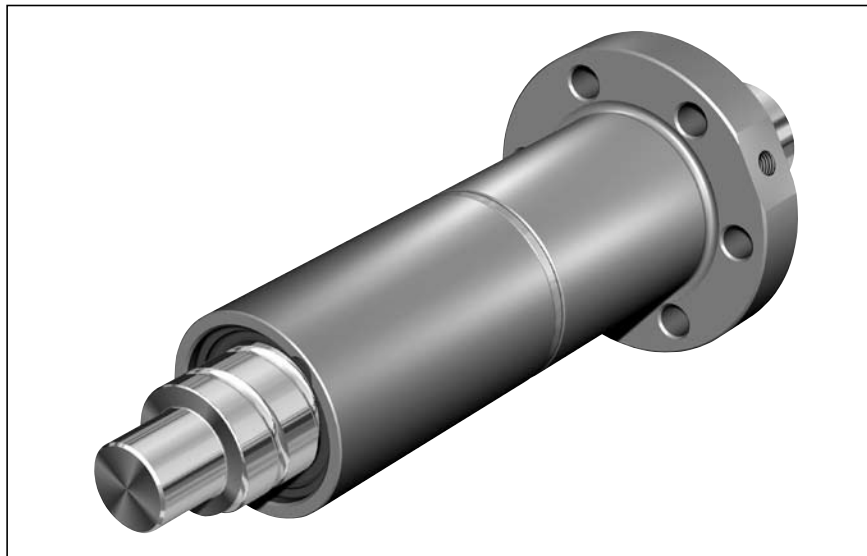
3) Ejecución con conexión de lubricación: aplanamiento L₃ ≤ 13 mm, descenso L₃ > 14 mm

Tuercas

Tuerca doble embridada FDM-E-S

Serie estándar Medidas de Rexroth

Con juntas estándar
 Para juntas reforzadas ver página 126
 Con precarga del 7% o 10%
 Para husillos laminados de precisión
 SN-R de la clase de tolerancia T5, T7

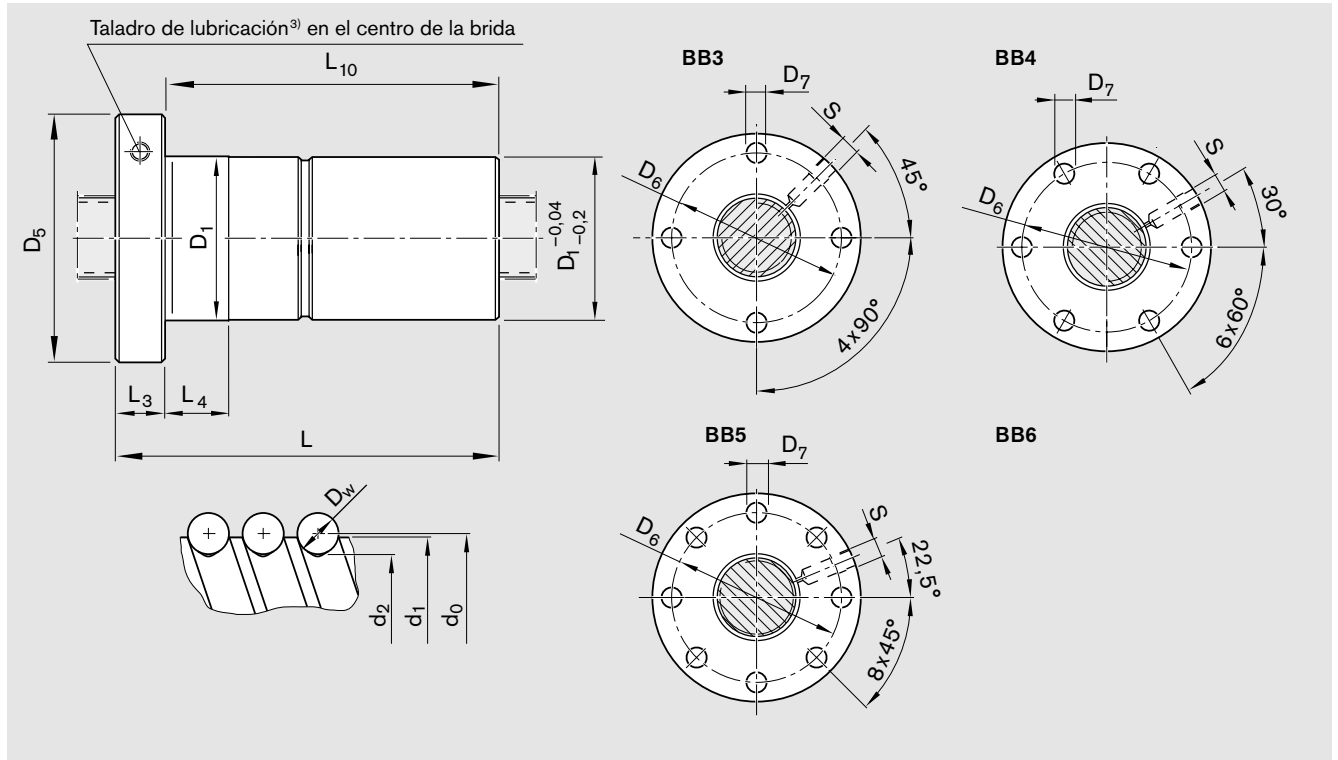

 Datos de pedido: **FDM-E-S 20 x 5R x 3-4 1 2 T7 R 82Z120 41Z120 1250 0 1**

d_0 = diámetro nominal
P = paso
 (R = derecho, L = izquierdo)
 D_w = diámetro de la bola
i = número de hileras

| Categoría | Tamaño $d_0 \times P \times D_w - i$ | Referencia | Capacidades de carga | | Velocidad ¹⁾ |
|-----------|---|--------------|----------------------|---------------------|-------------------------|
| | | | din. C (N) | estát. C_0 (N) | v_{max} (m/min) |
| C | 16 x 5R x 3 - 4 | R1502 010 23 | 12300 | 16100 | 30 |
| C | 20 x 5R x 3 - 4 | R1502 110 33 | 14300 | 21500 | 30 |
| C | 25 x 5R x 3 - 4 | R1502 210 33 | 15900 | 27200 | 30 |
| C | 25 x 10R x 3 - 4 | R1502 240 33 | 15700 | 27000 | 60 |
| C | 32 x 5R x 3,5 - 4 | R1502 310 33 | 21600 | 40000 | 23 |
| C | 32 x 10R x 3,969 - 5 | R1502 340 33 | 31700 | 58300 | 47 |
| C | 40 x 5R x 3,5 - 5 | R1502 410 33 | 29100 | 64100 | 19 |
| C | 40 x 10R x 6 - 4 | R1502 440 33 | 50000 | 86400 | 38 |
| C | 40 x 10R x 6 - 6 | R1502 440 34 | 72100 | 132200 | 38 |
| C | 40 x 20R x 6 - 3 | R1502 470 33 | 37900 | 62800 | 75 |
| C | 50 x 5R x 3,5 - 5 | R1502 510 33 | 32000 | 81300 | 15 |
| C | 50 x 10R x 6 - 4 | R1502 540 33 | 55400 | 109000 | 30 |
| C | 50 x 10R x 6 - 6 | R1502 540 34 | 79700 | 166500 | 30 |
| C | 50 x 20R x 6,5 - 5 | R1502 570 34 | 75700 | 149700 | 60 |
| C | 63 x 10R x 6 - 4 | R1502 640 33 | 61800 | 140500 | 24 |
| C | 63 x 10R x 6 - 6 | R1502 640 34 | 88800 | 214300 | 24 |
| C | 63 x 20R x 6,5 - 5 | R1502 670 34 | 83900 | 190300 | 48 |
| C | 80 x 10R x 6,5 - 6 | R1502 740 34 | 108400 | 291700 | 19 |
| C | 80 x 20R x 12,7 - 6 ²⁾ | R1502 770 04 | 262700 | 534200 | 30 |

 1) Ver página 115 "Coeficiente de revoluciones $d_0 \cdot n$ " y página 150 "Revoluciones críticas n_{cr} "

2) Tuercas 80 x 20R x 12,7 - 6, con precarga, y con una longitud de rosca de hasta 2500 mm disponibles



| Tamaño | Medidas (mm) | | | | | | | | | | | | Peso m (kg) |
|----------------------|----------------|----------------|----------------------|----------------|------------------------|----------------|----------------|-----|----------------|----------------|-----------------|-----------------|-------------------|
| | d ₁ | d ₂ | D ₁ g6 | D ₅ | Esquema de taladros | D ₆ | D ₇ | L | L ₃ | L ₄ | L ₁₀ | S ³⁾ | |
| 16 x 5R x 3 - 4 | 15,0 | 12,9 | 28 | 53 | BB3 | 40 | 6,6 | 72 | 12 | 10 | 60 | M6 | 0,33 |
| 20 x 5R x 3 - 4 | 19,0 | 16,9 | 33 | 58 | BB4 | 45 | 6,6 | 82 | 12 | 10 | 70 | M6 | 0,45 |
| 25 x 5R x 3 - 4 | 24,0 | 21,9 | 38 | 63 | BB4 | 50 | 6,6 | 82 | 12 | 10 | 70 | M6 | 0,53 |
| 25 x 10R x 3 - 4 | 24,0 | 21,9 | 38 | 63 | BB4 | 50 | 6,6 | 120 | 12 | 16 | 108 | M6 | 0,70 |
| 32 x 5R x 3,5 - 4 | 31,0 | 28,4 | 48 | 73 | BB4 | 60 | 6,6 | 88 | 13 | 10 | 75 | M6 | 0,84 |
| 32 x 10R x 3,969 - 5 | 31,0 | 27,9 | 48 | 73 | BB4 | 60 | 6,6 | 146 | 13 | 16 | 133 | M6 | 1,22 |
| 40 x 5R x 3,5 - 5 | 39,0 | 36,4 | 56 | 80 | BB4 | 68 | 6,6 | 100 | 15 | 10 | 85 | M8x1 | 1,13 |
| 40 x 10R x 6 - 4 | 38,0 | 33,8 | 63 | 95 | BB4 | 78 | 9,0 | 140 | 15 | 16 | 125 | M8x1 | 2,25 |
| 40 x 10R x 6 - 6 | 38,0 | 33,8 | 63 | 95 | BB4 | 78 | 9,0 | 180 | 15 | 16 | 165 | M8x1 | 2,83 |
| 40 x 20R x 6 - 3 | 38,0 | 33,8 | 63 | 95 | BB4 | 78 | 9,0 | 175 | 15 | 25 | 160 | M8x1 | 2,66 |
| 50 x 5R x 3,5 - 5 | 49,0 | 46,4 | 68 | 98 | BB4 | 82 | 9,0 | 100 | 15 | 10 | 85 | M8x1 | 1,60 |
| 50 x 10R x 6 - 4 | 48,0 | 43,8 | 72 | 110 | BB4 | 90 | 11,0 | 140 | 18 | 16 | 122 | M8x1 | 2,74 |
| 50 x 10R x 6 - 6 | 48,0 | 43,8 | 72 | 110 | BB4 | 90 | 11,0 | 180 | 18 | 16 | 162 | M8x1 | 3,39 |
| 50 x 20R x 6,5 - 5 | 48,0 | 43,4 | 85 | 125 | BB4 | 105 | 11,0 | 255 | 22 | 25 | 233 | M8x1 | 6,71 |
| 63 x 10R x 6 - 4 | 61,0 | 56,8 | 85 | 125 | BB4 | 105 | 11,0 | 140 | 22 | 16 | 118 | M8x1 | 3,53 |
| 63 x 10R x 6 - 6 | 61,0 | 56,8 | 85 | 125 | BB4 | 105 | 11,0 | 180 | 22 | 16 | 158 | M8x1 | 4,32 |
| 63 x 20R x 6,5 - 5 | 61,0 | 56,4 | 95 | 140 | BB4 | 118 | 14,0 | 255 | 22 | 25 | 233 | M8x1 | 8,65 |
| 80 x 10R x 6,5 - 6 | 78,0 | 73,3 | 105 | 150 | BB4 | 125 | 14,0 | 190 | 22 | 16 | 168 | M8x1 | 6,35 |
| 80 x 20R x 12,7 - 6 | 76,0 | 67,0 | 125 | 180 | BB5 | 152 | 18,0 | 340 | 25 | 25 | 315 | M8x1 | 20,20 |

3) Ejecución con conexión de lubricación: aplanamiento L₃ ≤ 13 mm, descenso L₃ > 14 mm