



EichenbergerGewinde



100% Swiss made 

Main Catalogue

Carry ball screws
Carry Speed-line high-helix ball screws
Speedy high-helix lead screws
Rondo round thread lead screws

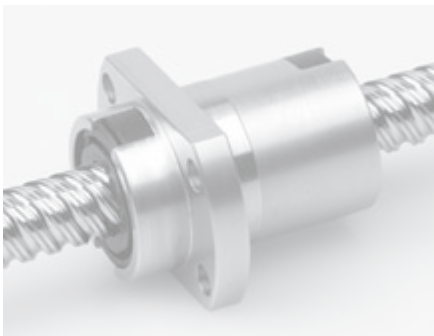


Carry ball screws

Due to their premium quality and precision, the rolled Carry ball screws are often an ideal substitute for expensive, machine-ground screws. In general, they are suitable for all linear applications where heavy loads need to be transferred with optimum efficiency.

- $\varnothing$ 4–40 mm
- p 1–40 mm
- for high loads at medium moving speeds

pages 4/5 and 6–37

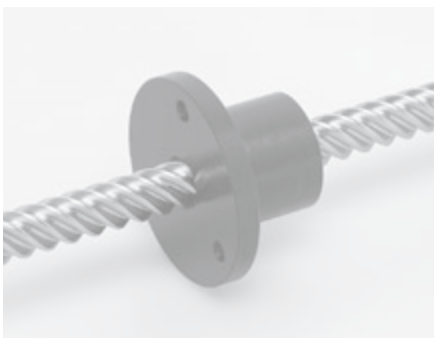


Carry Speedline high-helix ball screws

The cold-rolled, wear-resistant Carry Speedline are marked by an extremely high helix. They provide for high moving speeds and deliver an efficiency which is nothing short of impressive.

- $\varnothing$ 8–25 mm
- p 10–50 mm
- for medium loads at high moving speeds

pages 4/5 and 38–47

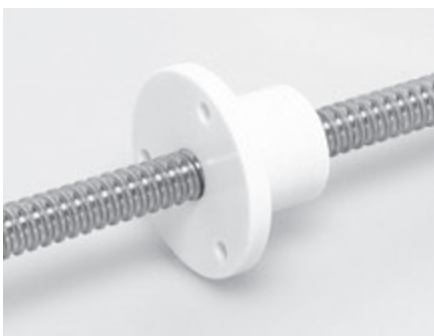


Speedy high-helix lead screws

The innovative Speedy high-helix lead screws with helix up to 6 x diameter provide for maximum moving speeds at low rotational speeds or efficient conversion of linear to rotary movements.

- $\varnothing$ 4–36 mm
- p 4–200 mm
- for low loads at high moving speeds
- slide screw unit

pages 48/49 and 50–71



Rondo round thread lead screws

The alternative to trapezoidal screws with remarkable efficiency.

- $\varnothing$ 6–16 mm
- p 2–5 mm
- for medium loads at medium moving speeds
- slide screw unit

pages 48/49 and 72–76

Contract work:

Thread rolling

pages 77/78

About the Company:

Eichenberger Gewinde AG

page 79

Slide lead screw product range



▲ = standard range

* = on request

²⁾ = also available with left-hand thread

		Speedy				Rondo	
type	pages	inch thread 66/67	fine-pitch thread 64/65	standard thread 52-63	type	pages	
d ₀ / p ₀					d ₀ / p ₀		
4 / 10	4 / 10		▲		4 / 10	4 / 10	
5 / 5	5 / 5		▲		5 / 5	5 / 5	
5 / 20	5 / 20		▲ ²⁾		5 / 20	5 / 20	
6 x 2	6 x 2				6 x 2	6 x 2	▲ ²⁾
6 / 25	6 / 25		▲		6 / 25	6 / 25	
6.35 / 6.35	6.35 / 6.35	▲			6.35 / 6.35	6.35 / 6.35	
6.35 / 12.7	6.35 / 12.7	▲			6.35 / 12.7	6.35 / 12.7	
6.35 / 25.4	6.35 / 25.4	▲			6.35 / 25.4	6.35 / 25.4	
7.5 / 7.5	7.5 / 7.5		▲		7.5 / 7.5	7.5 / 7.5	
7.94 / 12.7	7.94 / 12.7	▲			7.94 / 12.7	7.94 / 12.7	
8 x 2	8 x 2				8 x 2	8 x 2	▲ ²⁾
8 / 4	8 / 4			▲	8 / 4	8 / 4	
8 / 10	8 / 10			▲ ²⁾	8 / 10	8 / 10	
8 / 12	8 / 12			▲	8 / 12	8 / 12	
8 / 15	8 / 15			▲	8 / 15	8 / 15	
8 / 30	8 / 30		▲ ²⁾		8 / 30	8 / 30	
9 / 20	9 / 20			▲	9 / 20	9 / 20	
9.7 / 25.4	9.7 / 25.4	▲ ²⁾			9.7 / 25.4	9.7 / 25.4	
10 x 3	10 x 3				10 x 3	10 x 3	▲ ²⁾
10 / 10	10 / 10		▲		10 / 10	10 / 10	
10 / 12	10 / 12			▲ ²⁾	10 / 12	10 / 12	
10 / 15	10 / 15			▲	10 / 15	10 / 15	
10 / 35	10 / 35		▲ ²⁾		10 / 35	10 / 35	
10 / 50	10 / 50			▲ ²⁾	10 / 50	10 / 50	
11 / 40	11 / 40		▲		11 / 40	11 / 40	
11 / 60	11 / 60			▲	11 / 60	11 / 60	
11.2 / 30.5	11.2 / 30.5	▲			11.2 / 30.5	11.2 / 30.5	
12 x 3	12 x 3		▲ ²⁾		12 x 3	12 x 3	▲ ²⁾
12 x 4	12 x 4				12 x 4	12 x 4	▲ ²⁾
12 / 15	12 / 15			▲ ²⁾	12 / 15	12 / 15	
12 / 25	12 / 25			▲ ²⁾	12 / 25	12 / 25	
12 / 45	12 / 45		▲ ²⁾		12 / 45	12 / 45	
12.5 / 12.5	12.5 / 12.5		*		12.5 / 12.5	12.5 / 12.5	
12.8 / 35.6	12.8 / 35.6	▲			12.8 / 35.6	12.8 / 35.6	
13 / 20	13 / 20			▲	13 / 20	13 / 20	
13 / 70	13 / 70			▲ ²⁾	13 / 70	13 / 70	
14 x 3	14 x 3				14 x 3	14 x 3	▲ ²⁾

Speedy high-helix lead screws and Rondo round thread lead screws



14 x 4	▲ 2)				14 x 4
14 / 8				▲	14 / 8
14 / 18				▲ 2)	14 / 18
14 / 30				▲ 2)	14 / 30
14.3 / 40.6		▲ 2)			14.3 / 40.6
15 / 20				▲ 2)	15 / 20
15 / 80				▲ 2)	15 / 80
16 x 4	▲				16 x 4
16 x 5	▲ 2)				16 x 5
16 / 21				▲ 2)	16 / 21
16 / 25				▲	16 / 25
16 / 35				▲	16 / 35
16.0 / 45.7		*			16.0 / 45.7
16 / 90				▲ 2)	16 / 90
17.6 / 50.8		▲			17.6 / 50.8
18 / 16				▲	18 / 16
18 / 24				▲ 2)	18 / 24
18 / 40				▲ 2)	18 / 40
18 / 100				▲ 2)	18 / 100
19 / 30				▲	19 / 30
20 / 12				▲	20 / 12
20 / 45				▲	20 / 45
21 / 27				▲	21 / 27
21 / 35				*	21 / 35
22 / 20				▲	22 / 20
22 / 50				▲	22 / 50
23 / 30				▲ 2)	23 / 30
24 / 40				*	24 / 40
24 / 55				▲	24 / 55
25.7 / 76.2		▲ 2)			25.7 / 76.2
26 / 16				*	26 / 16
26 / 24				▲	26 / 24
26 / 60				▲	26 / 60
27 / 45				*	27 / 45
28 / 65				*	28 / 65
30 / 28				▲	30 / 28
30 / 50				▲	30 / 50
30 / 70				▲	30 / 70
32 / 20				*	32 / 20
32 / 75				*	32 / 75
32.0 / 96.5		▲ 2)			32.0 / 96.5
34 / 32				*	34 / 32
34 / 80				▲	34 / 80
36 / 200				▲	36 / 200
type	round thread 74/75	inch thread 66/67	fine-pitch thread 64/65	standard thread 52–63	type
pages					pages



Rondo round thread lead screws

- Order system Rondo 73
- Rondo with standard round thread and standard flange nut. 74/75
- Basic design / Materials / Precision 76
- Factory length / Handling / Lubrication see Speedy, page 69
- Design fundamentals
 - ...at dynamic loads: see Speedy, pages 70/71
 - critical rotational speed
 - efficiency
 - driving torque / required power
- Basic calculations: see Speedy, page 71
 - Maximum authorized load depending on speed



Visit www.gewinde.ch for the latest on existing and/or new products.

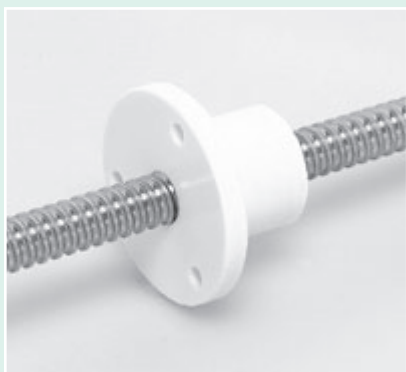


Example for complete round thread lead screw _____		RGS	10x3	RFM	RH	350	G9	E	M
Type of lead screw _____									
RGS = Round thread lead screw Rondo									
Nominal size (d₀ x p) [mm] _____									
Type of nut _____		nut only							
RFM = standard flange nut, made of EX100 white ¹⁾									
MSX = special design according to drawing									
Right-hand / left-hand thread _____									
RH = right-hand thread (standard)									
LH = left-hand thread (on request)									
Lead screw overall length [mm] _____		screw only							
standard steel quality: X20Cr13 (material N° 1.4021) ¹⁾									
Lead accuracy (class) _____		screw only							
G9 = ≤ 0.1 mm/300 mm (standard)									
GX = lead accuracy upon specification									
End machining _____		screw only							
O = no end machining (cut by grinding; screw and nut separate)									
E = end machining according to drawing									
Assembly _____									
G = screw and nut separate (standard)									
M = screw and nut assembled according to drawing/specified orientation									
¹⁾ other materials on request									
Example for screw only _____		RGS 10x3 RH 350 G9 O G							
Example for nut only _____		RGS 10x3 RFM RH G							

Rondo with standard round thread



Standard flange nut



Legend

d_0 = nominal screw diameter [mm]

d_1 = outside screw diameter [mm]

d_2 = core diameter [mm]

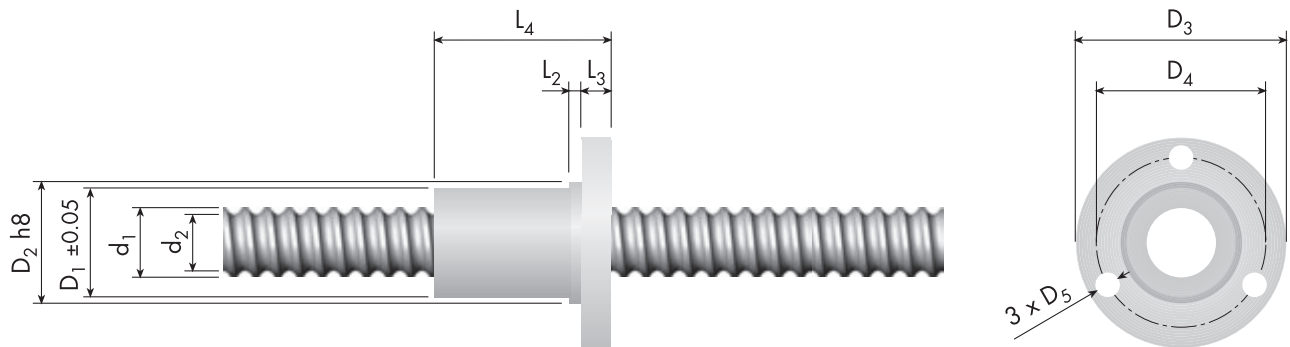
p = pitch [mm]

³⁾ = only on request

Special designs available on request.
All specifications are subject to change without notice.

Quality management ISO 9001:2008

Rondo with standard round thread



Rondo d ₀ x p mm	Dimensions										Load rates C _{stat} N
	Screw		Nut								
	d ₁ mm	d ₂	D ₁ ±0.05 mm	D ₂ h8	D ₃	D ₄ hole circle	D ₅	L ₂	L ₃	L ₄	
right-hand threads											
6 x 2	5.9	4.5	20.5	21	38	29	4.2	3	5	25	600
8 x 2	7.9	6.5	20.5	21	38	29	4.2	3	5	25	800
10 x 3	9.9	7.8	23.5	24	42	32	4.2	3	5	25	1 200
12 x 3	12.0	9.9	25.5	26	46	36	5.1	3	7	42	2 000
12 x 4	12.0	9.8	25.5	26	46	36	5.1	3	7	42	2 500
14 x 3	14.0	12.0	25.5	26	46	36	5.1	3	7	42	2 400
14 x 4	14.0	11.5	25.5	26	46	36	5.1	3	7	42	3 200
16 x 4	16.0	13.5	29.5	30	49	39	5.1	3	7	42	3 900
16 x 5	15.7	13.0	29.5	30	49	39	5.1	3	7	42	5 000
left-hand threads											
6 x 2 ³⁾	5.9	4.5	20.5	21	38	29	4.2	3	5	25	600
8 x 2	7.9	6.5	20.5	21	38	29	4.2	3	5	25	800
10 x 3	9.9	7.8	23.5	24	42	32	4.2	3	5	25	1 200
12 x 3 ³⁾	12.0	9.9	25.5	26	46	36	5.1	3	7	42	2 000
12 x 4 ³⁾	12.0	9.8	25.5	26	46	36	5.1	3	7	42	2 500
14 x 3 ³⁾	14.0	12.0	25.5	26	46	36	5.1	3	7	42	2 400
14 x 4	14.0	11.5	25.5	26	46	36	5.1	3	7	42	3 200
16 x 5	15.7	13.0	29.5	30	49	39	5.1	3	7	42	5 000

The CAD data corresponding to the types shown above are available at www.gewinde.ch



Basic design

Rondo screws are a true alternative to conventional trapezoidal screws. They deliver outstanding efficiency and quiet running due to their round thread profile.

Made of steel, the lead screws are combined with plastic flange nuts (outer dimensions equal those of standard Speedy flange nuts).

Materials

Screw

- standard: steel X20Cr13 (stainless) material N° 1.4021
- other materials on request

Nut

- standard: EX100 white
- other materials on request

Temperature range

EX100 nuts: -40 to +60 °C

Nut design

One standard nut design has been defined:



Flange nut type «RFM»

Of course, any other application-specific nut designs can be supplied on request including injection-molded solutions.

Lead accuracy

Standard

G9 = $\leq 0.1 \text{ mm}/300 \text{ mm}$
(according to DIN 69051)

On request

other lead accuracies



Duty cycle

Load rates, lubrication notice and basic calculation with load factor f_L are based on a duty cycle of 10 % for a Rondo made of standard materials.

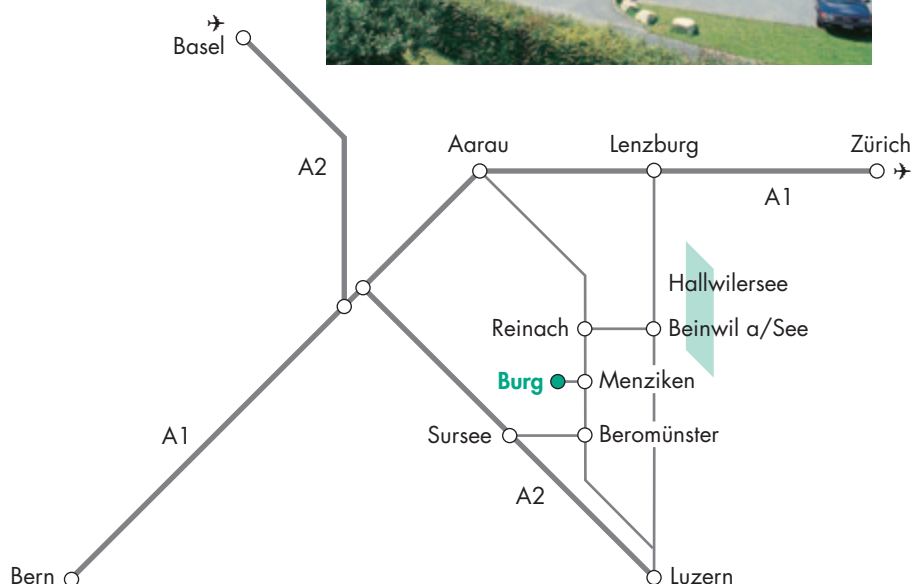
Factory length / Handling / Lubrication

See Speedy page 69.

Design fundamentals

See Speedy pages 70/71.





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