

Cage Freewheels SFB

for assembly with inner and outer ring



Issue 06/2020 • Technical details subject to change without notice.

E08.122e



Cage Freewheels SFB

for assembly with inner and outer ring
for exchange of Cage Freewheels BWX



Application as

- ▶ Backstop
- ▶ Overrunning Clutch
- ▶ Indexing Freewheel

Features

Cage Freewheels SFB are sprag freewheels to be installed between customer-supplied inner and outer rings.

Nominal torques up to 2070 Nm.

Mounting

The lateral guidance of the Cage Freewheels can be effected either by a shoulder on the outer ring or by guard rings or guard discs which are fixed in the outer ring.

Torque transmission capacity can be increased if several cages are arranged side by side. In this case please consult with RINGSPANN on transmissible torques.

Please note the technical points in catalogue „Freewheels“ regarding the sprag tracks.

Example for ordering

Freewheel size SFB 44-16 standard type:

- SFB 44-16 J

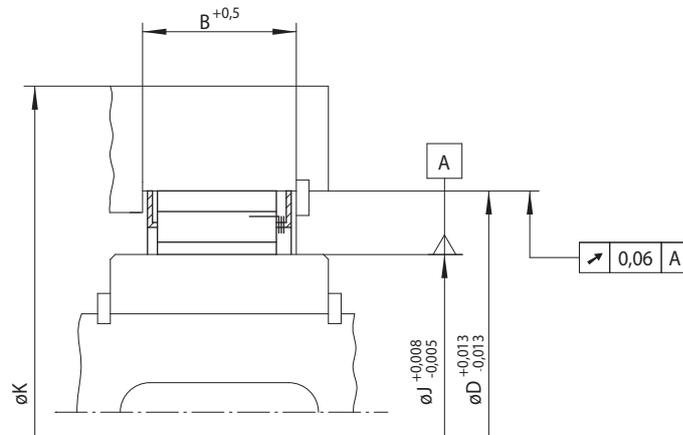
For exchange of Cage Freewheels BWX

Cage Freewheels BWX	Cage Freewheels SFB
BWX 133590A	SFB 22-10
BWX 13143A	SFB 27-13,5
BWX 133392	SFB 38-16
BWX 1310145	SFB 41-13,5
BWX 132909A	SFB 44-16
BWX 133339	SFB 49-13,5
BWX 1310003	SFB 49-13,5
BWX 137222	SFB 49-19
BWX 1310445	SFB 54-13,5
BWX 1310172	SFB 54-16
BWX 1310226	SFB 54-16
BWX 136709	SFB 54-21
BWX 1310147	SFB 54-25,4
BWX 136324	SFB 57-19
BWX 1310080	SFB 72-13,5
BWX 13168	SFB 72-21
BWX 134012	SFB 72-21
BWX 137322	SFB 79-25,4
BWX 13261A ¹	SFB 103-16

¹ With this Freewheel Size the centering flange of the inner cage is on the right hand side!

Cage Freewheels SFB

for assembly with inner and outer ring
for exchange of Cage Freewheels BWX



3-1



Freewheel Size	Type	Nominal torque M_N Nm	J	D	B	K	Sprags Quantity	Weight kg
			$+0,008$ $-0,005$ mm	$\pm 0,013$ mm	min. mm			
SFB 22-10	J	63	22,225	38,887	10,0	44,0	12	0,03
SFB 27-13,5	J	150	27,767	44,425	13,5	51,0	14	0,05
SFB 38-16	J	360	38,092	54,750	16,0	71,0	18	0,06
SFB 41-13,5	J	340	41,275	57,937	13,5	74,2	14	0,05
SFB 44-16	J	440	44,450	61,112	16,0	78,5	20	0,06
SFB 49-13,5	J	520	49,721	66,383	13,5	85,0	22	0,07
SFB 49-19	J	720	49,721	66,383	19,0	85,0	22	0,10
SFB 54-13,5	J	610	54,765	71,427	13,5	91,7	24	0,07
SFB 54-16	J	610	54,765	71,427	16,0	91,7	24	0,08
SFB 54-21	J	950	54,765	71,427	21,0	91,7	24	0,13
SFB 54-25,4	J	1 180	54,765	71,427	25,4	91,7	24	0,15
SFB 57-19	J	890	57,760	74,427	19,0	95,0	26	0,12
SFB 72-13,5	J	950	72,217	88,882	13,5	115,0	30	0,09
SFB 72-21	J	1450	72,217	88,882	21,0	115,0	30	0,15
SFB 79-25,4	J	2070	79,698	96,363	25,4	124,0	34	0,20
SFB 103-16	J	1600	103,231	119,893	16,0	154,0	40	0,13

The theoretical nominal torque applies only for ideal concentricity between the inner and outer ring.
The maximum transmissible torque is 2 times the specified nominal torque. See page 14 catalogue „Freewheels“ for determination of selection torque.

Germany

RINGSPANN GmbH

Schaberweg 30 - 38, 61348 Bad Homburg, Germany
+49 6172 2750
info@ringspann.de • www.ringspann.de

RINGSPANN RCS GmbH

Hans-Mess-Straße 7, 61440 Oberursel, Germany
+49 6172 67 68 50
info@ringspann-rcs.de • www.ringspann-rcs.de

France

SIAM - RINGSPANN S.A.

23 rue Saint-Simon, 69009 Lyon, France
+33 4 78 83 59 01
info@siam-ringspann.fr • www.ringspann.fr

Great Britain, Ireland

RINGSPANN (U.K.) LTD.

3, Napier Road, Bedford MK41 0QS, Great Britain
+44 1234 34 25 11
info@ringspann.co.uk • www.ringspann.co.uk

Italy

RINGSPANN Italia S.r.l.

Via A.D. Sacharov, 13, 20812 Limbiate (MB), Italy
+39 02 93 57 12 97
info@ringspann.it • www.ringspann.it

Netherlands, Belgium, Luxembourg

RINGSPANN Benelux B.V.

Nieuwenkampsmaten 6- 15, 7472 DE Goor,
Netherlands • +31 547 26 13 55
info@ringspann.nl • www.ringspann.nl

Austria, Hungary, Slovenia

RINGSPANN Austria GmbH

Kleegasse 9, 2624 Breitenau, Austria
+43 2635 62446
info@ringspann.at • www.ringspann.at

Poland

Radius-Radpol Wiecheć Sp.J.

ul. Kolejowa 16 b, 60-185 Skórzewo, Poland
+48 61 814 39 28 • info@radius-radpol.com.pl
www.radius-radpol.com.pl

Romania, Bulgaria, Moldova

S.C. Industrial Seals and Rolls S.R.L.

Str. Depozitelor, No. 29, 110078 Pitesti, Romania
+4 0751 22 82 28
mihai@isar.com.ro • www.isar.com.ro

Russia, Belarus, Kazakhstan

RINGSPANN Office

Pod'jermnaja Street 12, Building 1, Floor 4,
Office 426, 109052 Moscow, Russia
+7 495 911 86 48
Denis.Kalashnikov@ringspann.com
www.ringspann.com.ru

Sweden, Finland, Denmark,

Norway, Baltic states

RINGSPANN Nordic AB

Industrigatan 7, 61933 Trosa, Sweden
+46 156 190 98
info@ringspann.se • www.ringspann.se

Switzerland

RINGSPANN AG

Sumpfstrasse 7, P.O. Box 3320, 6303 Zug,
Switzerland • +41 41 748 09 00
info@ringspann.ch • www.ringspann.ch

Spain, Portugal

RINGSPANN IBERICA S.A.

C/Uzbina, 24-Nave E1, 01015 Vitoria, Spain
+34 945 22 77 50
info@ringspann.es • www.ringspann.es

Czech Republic, Slovakia

Ing. Petr Schejbal

Mezivří 1444/27, 14700 Prag, Czech Republic
+420 222 96 90 22
Petr.Schejbal@ringspann.cz • www.ringspann.com

Ukraine

"START-UP" LLC.

Saltivske Hwy, 43, letter G-3, office 101,
Kharkiv 61038, Ukraine • +38 057 717 03 04
start-up@start-up.kh.ua • www.start-up.kh.ua

Asia

Australia, New Zealand

RINGSPANN Australia Pty Ltd

Unit 5, 13A Elite Way, Carrum Downs Vic 3201,
Australia • +61 3 9069 0566
info@ringspann.com.au • www.ringspann.com.au

China, Taiwan

RINGSPANN Power Transmission (Tianjin) Co., Ltd.

No. 21 Gaoyan Rd., Binhai Science and Technology
Park, Binhai Hi-Tech Industrial, Development Area,
Tianjin, 300458, P.R. China • +86 22 5980 31 60
info.cn@ringspann.cn • www.ringspann.cn

India, Bangladesh, Nepal

RINGSPANN Power Transmission India Pvt. Ltd.

GAT No: 679/2/1, Village Kuruli, Taluka Khed, Chakan-
Alandi Road, Pune - 410501, Maharashtra, India
+91 21 35 67 75 00 • info@ringspann-india.com
www.ringspann-india.com

Singapore, ASEAN

RINGSPANN Singapore Pte. Ltd.

143 Cecil Street, #17-03 GB Building,
Singapore 069542 • +65 9633 6692
info@ringspann.sg • www.ringspann.sg

South Korea

RINGSPANN Korea Ltd.

Chungnam Cheonan-si Dongnam-gu
Mokcheon-eup Samsung 1 Ghil 15-12,
31226, South Korea • + 82 10 54961 368
info@ringspann.kr • www.ringspann.kr

America

Brazil

Antares Acoplamentos Ltda.

Rua Evaristo de Antoni, 1222, Caxias do Sul, RS,
CEP 95041-000, Brazil • +55 54 32 18 68 00
vendas@antaresacoplamentos.com.br
www.antaresacoplamentos.com.br

USA, Canada, Mexico, Chile, Peru

RINGSPANN Corporation

10550 Anderson Place, Franklin Park, IL 60131, USA
+1 847 678 35 81
info@ringspanncorp.com • www.ringspanncorp.com

Africa and Middle East

Egypt

Shofree Trading Co.

218 Emtedad Ramsis 2, 2775 Nasr City, Cairo, Egypt
+20 2 20 81 20 57
info@shofree.com • www.ringspann.com

Israel

G.G. Yarom Rolling and Conveying Ltd.

6, Hamaktesh Str., 58810 Holon, Israel
+972 3 557 01 15
noam_a@gg.co.il • www.ringspann.com

South Africa, Sub-Saharan

RINGSPANN South Africa (Pty) Ltd.

96 Plane Road Spartan, Kempton Park,
P.O. Box 8111 Edenglen 1613, South Africa
+27 11 394 18 30
info@ringspann.co.za • www.ringspann.co.za

Iran

Persia Robot Machine Co. Ltd.

4th Floor, No 71, Mansour St, Motahari Avenue,
Tehran 15957, Iran • +98 21 88 70 91 58-62
info@persiarobot.com • www.ringspann.com

Maghreb, West Africa

SIAM - RINGSPANN S.A.

23 rue Saint-Simon, 69009 Lyon, France
+33 4 78 83 59 01
info@siam-ringspann.fr • www.ringspann.fr