

# More Oil Space



## Model Number Coding

**BGC H 25 BN - 2 - - L 500 - P - Z1 - II**

Slide type :  
BGX : non-cage  
BGC : cage

Assembly height :  
H : high assembly  
S : low assembly  
X : special assembly

Size : mm

Type and flange :  
BN : no flange/standard  
BS : no flange/short  
BL : no flange/long  
BE : no flange/extra long  
FN : flange/standard  
FS : flange/short  
FL : flange/long  
FE : flange/extra long

Number of slides

Seal type:  
□ : with end & bottom seals  
UU : with end seals  
SS : with end, bottom & top seals  
DD : with double & bottom seals  
ZZ : with end, bottom seals & metal scrapers  
KK : with double, bottom seals & metal scrapers  
EE : with double, bottom & top seals  
FF : with end, bottom, top seals & metal scrapers  
GG : with double, bottom, top seals & metal scrapers

Lubrication system (LS) :  
AA : with end, bottom seals & LS  
UA : with end seals & LS  
SA : with end, bottom, top seals & LS  
DA : with double, bottom seals & LS  
ZA : with end, bottom seals, metal scrapers & LS  
KA : with double, bottom seals, metal scrapers & LS  
EA : with double, bottom, top seals & LS  
FA : with end, bottom, top seals, metal scrapers & LS  
GA : with double, bottom, top seals, metal scrapers & LS

Preload type :  
ZF : clearance  
Z0 : zero preload  
Z1 : light preload  
Z2 : medium preload  
Z3 : heavy preload

Accuracy :  
N : normal  
H : high  
P : precision  
SP : super-precision  
UP : ultra-precision

Rail length

Two rails in parallel

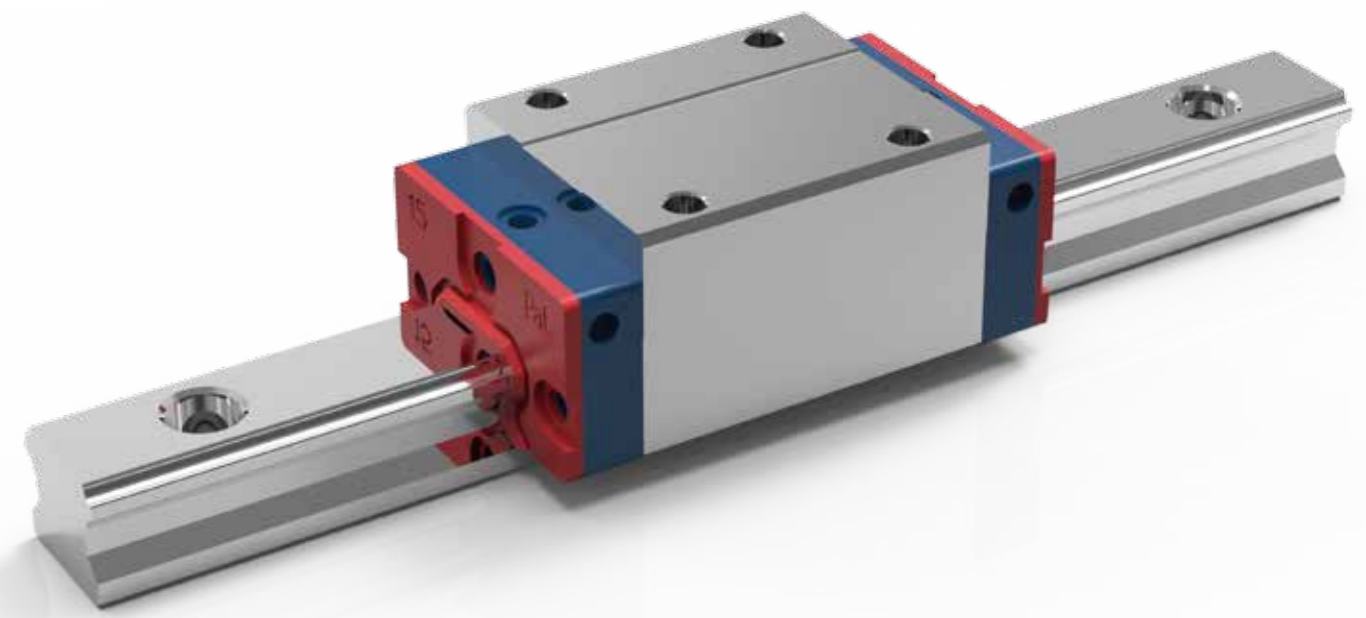
Rail type :  
L : standard  
C : bolt up from bottom



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# STAF Linear Guide

## One profile for All



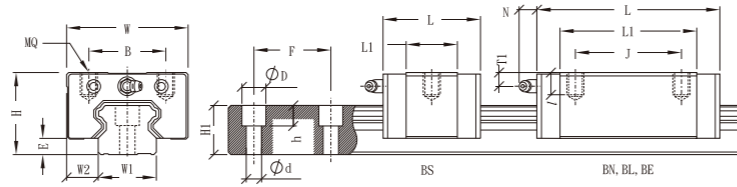
High accuracy  
Low noise  
Smooth Traveling

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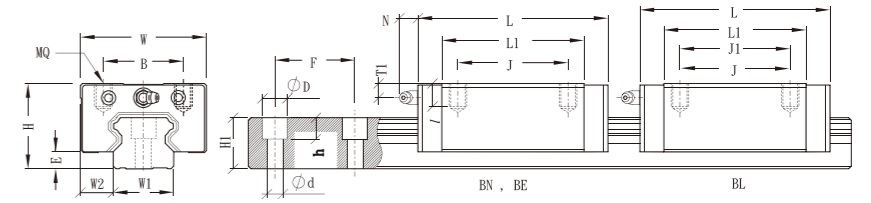
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## BGX & BGC SERIES (S-B)



Model	Assembly-mm				Block-mm								Rail-mm						Rating load-kN			Static moment - kN-m			Block	Rail	
	H	W	W2	E	L	B	J	MQ	I	L1	Oil H	T1	N	W1	H1	F	d	D	h	C-BGX	C-BGC	C0	M <sub>x</sub>	M <sub>y</sub>			M <sub>z</sub>
S15BS	24	34	9.5	3.3	40.6	26		M4	4.8	22.2	M4X0.7	5.5	(5)	15	13.0	60	4.5	7.5	6.0	4.6	5.7	9.8	0.068	0.032	0.032	0.10	1.28
S15BN	24	34	9.5	3.3	58.6	26	26	M4	4.8	40.2	M4X0.7	5.5	(5)	15	13.0	60	4.5	7.5	6.0	9.3	11.5	19.6	0.136	0.117	0.117	0.17	1.28
S15BL	24	34	9.5	3.3	66.1	26	26	M4	4.8	47.7	M4X0.7	5.5	(5)	15	13.0	60	4.5	7.5	6.0	11.3	13.9	23.7	0.164	0.169	0.169	0.18	1.28
S15BE	24	34	9.5	3.3	81.1	26	34	M4	4.8	62.7	M4X0.7	5.5	(5)	15	13.0	60	4.5	7.5	6.0	13.7	16.9	31.4	0.217	0.293	0.293	0.22	1.28
S20BS	28	42	11.0	4.5	48.3	32		M5	5.5	27.5	M6X1	5.1	(15.6)	20	16.3	60	6.0	9.5	8.5	7.4	9.1	15.7	0.146	0.064	0.064	0.17	2.15
S20BN	28	42	11.0	4.5	69.3	32	32	M5	5.5	48.5	M6X1	5.1	(15.6)	20	16.3	60	6.0	9.5	8.5	14.3	17.7	30.5	0.285	0.220	0.220	0.26	2.15
S25BS	33	48	12.5	5.8	54.0	35		M6	6.8	32.3	M6X1	7.2	(15.6)	23	19.2	60	7.0	11.0	9.0	10.3	12.7	21.0	0.225	0.101	0.101	0.21	2.88
S25BN	33	48	12.5	5.8	79.2	35	35	M6	6.8	57.5	M6X1	7.2	(15.6)	23	19.2	60	7.0	11.0	9.0	20.1	24.8	41.1	0.440	0.352	0.352	0.38	2.88
X25BN	36	48	12.5	5.8	79.2	35	35	M6	9.0	57.5	M6X1	10.2	(15.6)	23	19.2	60	7.0	11.0	9.0	20.1	24.8	41.1	0.440	0.352	0.352	0.40	2.88
X25BL	36	48	12.5	5.8	93.9	35	35	M6	9.0	72.2	M6X1	10.2	(15.6)	23	19.2	60	7.0	11.0	9.0	25.9	31.9	52.8	0.566	0.568	0.568	0.54	2.88
X25BE	36	48	12.5	5.8	108.6	35	50	M6	9.0	86.9	M6X1	10.2	(15.6)	23	19.2	60	7.0	11.0	9.0	29.2	36.0	63.3	0.679	0.819	0.819	0.67	2.88
S30BS	42	60	16.0	7.0	64.2	40		M8	10.0	37.2	M6X1	10	(15.6)	28	22.8	80	9.0	14.0	12.0	14.7	18.2	27.0	0.350	0.150	0.150	0.50	4.45
S30BN	42	60	16.0	7.0	94.8	40	40	M8	10.0	67.8	M6X1	10	(15.6)	28	22.8	80	9.0	14.0	12.0	29.7	36.7	54.6	0.706	0.551	0.551	0.80	4.45
S30BL	42	60	16.0	7.0	105.0	40	40	M8	10.0	78.0	M6X1	10	(15.6)	28	22.8	80	9.0	14.0	12.0	38.5	47.5	70.7	0.915	0.821	0.821	0.94	4.45
S30BE	42	60	16.0	7.0	130.5	40	60	M8	10.0	103.5	M6X1	10	(15.6)	28	22.8	80	9.0	14.0	12.0	42.9	52.9	86.7	1.122	1.336	1.336	1.16	4.45
S35BS	48	70	18.0	7.5	75.5	50		M8	10.0	44.5	M6X1	11.5	(15.6)	34	26.0	80	9.0	14.0	12.0	21.2	26.2	40.7	0.643	0.269	0.269	0.80	6.25
S35BN	48	70	18.0	7.5	111.5	50	50	M8	10.0	80.5	M6X1	11.5	(15.6)	34	26.0	80	9.0	14.0	12.0	42.4	52.3	81.1	1.282	0.972	0.972	1.20	6.25
S35BL	48	70	18.0	7.5	123.5	50	50	M8	10.0	92.5	M6X1	11.5	(15.6)	34	26.0	80	9.0	14.0	12.0	52.9	65.4	101.4	1.602	1.396	1.396	1.40	6.25
S35BE	48	70	18.0	7.5	153.5	50	72	M8	10.0	122.5	M6X1	11.5	(15.6)	34	26.0	80	9.0	14.0	12.0	58.3	71.9	125.3	1.981	2.286	2.286	1.84	6.25
S45BN	60	86	20.5	8.9	129.0	60	60	M10	15.5	94.0	M8X1.25	14.4	(16)	45	31.1	105	14.0	20.0	17.0	58.0	71.6	108.9	2.300	1.524	1.524	1.64	9.60
S45BL	60	86	20.5	8.9	145.0	60	60	M10	15.5	110.0	M8X1.25	14.4	(16)	45	31.1	105	14.0	20.0	17.0	69.0	85.1	129.5	2.736	2.122	2.122	1.93	9.60
S45BE	60	86	20.5	8.9	174.0	60	80	M10	15.5	139.0	M8X1.25	14.4	(16)	45	31.1	105	14.0	20.0	17.0	79.7	98.4	163.3	3.449	3.379	3.379	2.42	9.60
S55BN	70	100	23.5	12.7	155.0	75	75	M12	18.0	116.0	M8X1.25	14.0	(16)	53	38.0	120	16.0	23.0	20.0	69.8	86.2	133.4	3.303	2.304	2.304	2.67	13.80
S55BL	70	100	23.5	12.7	193.0	75	75	M12	18.0	154.0	M8X1.25	14.0	(16)	53	38.0	120	16.0	23.0	20.0	94.2	116.3	178.9	4.428	4.101	4.101	3.57	13.80
S55BE	70	100	23.5	12.7	210.0	75	95	M12	18.0	171.0	M8X1.25	14.0	(16)	53	38.0	120	16.0	23.0	20.0	127.7	157.7	253.6	6.279	6.458	6.458	3.97	13.80

## BGX & BGC SERIES (H-B)



© BL : BGX → J1 ; BGC → J

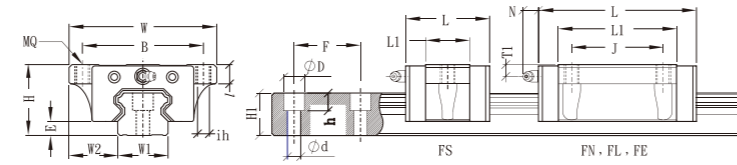
Model	Assembly-mm				Block-mm								Rail-mm						Rating load-kN			Static moment - kN-m			Block	Rail		
	H	W	W2	E	L	B	J	J1	MQ	I	L1	Oil H	T1	N	W1	H1	F	d	D	h	C-BGX	C-BGC	C0	M <sub>x</sub>			M <sub>y</sub>	M <sub>z</sub>
H15BN	28	34	9.5	3.3	58.6	26	26		M4	6.0	40.2	M4X0.7	9.5	(5)	15	13.0	60	4.5	7.5	6.0	9.3	11.5	19.6	0.136	0.117	0.117	0.19	1.28
H20BN	30	44	12.0	4.5	69.3	32	36		M5	6.5	48.5	M6X1	7.1	(15.6)	20	16.3	60	6.0	9.5	8.5	14.3	17.7	30.5	0.285	0.220	0.220	0.31	2.15
H20BL	30	44	12.0	4.5	82.1	32	36	50	M5	6.5	61.3	M6X1	7.1	(15.6)	20	16.3	60	6.0	9.5	8.5	18.6	23.0	39.5	0.369	0.361	0.361	0.36	2.15
H20BE	30	44	12.0	4.5	97.3	32	50		M5	6.5	76.5	M6X1	7.1	(15.6)	20	16.3	60	6.0	9.5	8.5	22.1	27.3	48.9	0.456	0.557	0.557	0.47	2.15
H25BN	40	48	12.5	5.8	79.2	35	35		M6	9.0	57.5	M6X1	14.2	(15.6)	23	19.2	60	7.0	11.0	9.0	20.1	24.8	41.1	0.440	0.352	0.352	0.45	2.88
H25BL	40	48	12.5	5.8	93.9	35	35	50	M6	9.0	72.2	M6X1	14.2	(15.6)	23	19.2	60	7.0	11.0	9.0	25.9	31.9	52.8	0.566	0.568	0.568	0.66	2.88
H25BE	40	48	12.5	5.8	108.6	35	50		M6	9.0	86.9	M6X1	14.2	(15.6)	23	19.2	60	7.0	11.0	9.0	29.2	36.0	63.3	0.679	0.819	0.819	0.80	2.88
H30BN	45	60	16.0	7.0	94.8	40	40		M8	12.0	67.8	M6X1	13	(15.6)	28	22.8	80	9.0	14.0	12.0	29.7	36.7	54.6	0.706	0.551	0.551	0.91	4.45
H30BL	45	60	16.0	7.0	105.0	40	40	60	M8	12.0	78.0	M6X1	13	(15.6)	28	22.8	80	9.0	14.0	12.0	38.5	47.5	70.7	0.915	0.821	0.821	1.04	4.45
H30BE	45	60	16.0	7.0	130.5	40	60		M8	12.0	103.5	M6X1	13	(15.6)	28	22.8	80	9.0	14.0	12.0	42.9	52.9	86.7	1.122	1.336	1.336	1.36	4.45
H35BN	55	70	18.0	7.5	111.5	50	50		M8	12.0	80.5	M6X1	18.5	(15.6)	34	26.0	80	9.0	14.0	12.0	42.4	52.3	81.1	1.282	0.972	0.972	1.50	6.25
H35BL	55	70	18.0	7.5	123.5	50	50	72	M8	12.0	92.5	M6X1	18.5	(15.6)	34	26.0	80	9.0	14.0	12.0	52.9	65.4	101.4	1.602	1.396	1.396	1.80	6.25
H35BE	55	70	18.0	7.5	153.5	50	72		M8	12.0	122.5	M6X1	18.5	(15.6)	34	26.0	80	9.0	14.0	12.0	58.3	71.9	125.3	1.981	2.286	2.286	2.34	6.25
H45BN	70	86	20.5	8.9	129.0	60	60		M10	18.0	94.0	M8X1.25	24.4	(16)	45	31.1	105	14.0	20.0	17.0	58.0	71.6	108.9	2.300	1.524	1.524	2.28	9.60
H45BL	70	86	20.5	8.9	145.0	60	60	80	M10	18.0	110.0	M8X1.25	24.4	(16)	45	31.1	105	14.0	20.0	17.0	69.0	85.1	129.5	2.736	2.122	2.122	2.67	9.60
H45BE	70	86	20.5	8.9	174.0	60	80		M10	18.0	139.0	M8X1.25	24.4	(16)	45	31.1	105	14.0	20.0	17.0	79.7	98.4	163.3	3.449	3.379	3.379	3.35	9.60
H55BN	80	100	23.5	12.7	155.0	75	75		M12	22.0	116.0	M8X1.25	24.0	(16)	53	38.0	120	16.0	23.0	20.0	69.8	86.2	133.4	3.303	2.304	2.304	3.42	13.80
H55BL	80	100	23.5	12.7	193.0	75	75	95	M12	22.0	154.0	M8X1.25	24.0	(16)	53	38.0	120	16.0	23.0	20.0	94.2	116.3	178.9	4.428	4.101	4.101	4.57	13.80
H55BE	80	100	23.5	12.7	210.0	75	95		M12	22.0	171.0	M8X1.25	24.0	(16)	53	38.0	120	16.0	23.0	20.0	127.7	157.7	253.6	6.279	6.458	6.458	5.08	13.80

- Equal load capacities in four directions
- High rigidity 4-row angular contact
- Integral all-round double sealing

- High seppd-low noises
- Interchangeability
- No ball drop



## BGX & BGC SERIES (H-F) (S-F)



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Model	Assembly-mm				Block-mm								Rail-mm						Rating load-kN			Static moment - kN-m			Block	Rail
	H	W	W2	E	L	B	J	MQ	ih	I	L1	Oil H	T1	N												