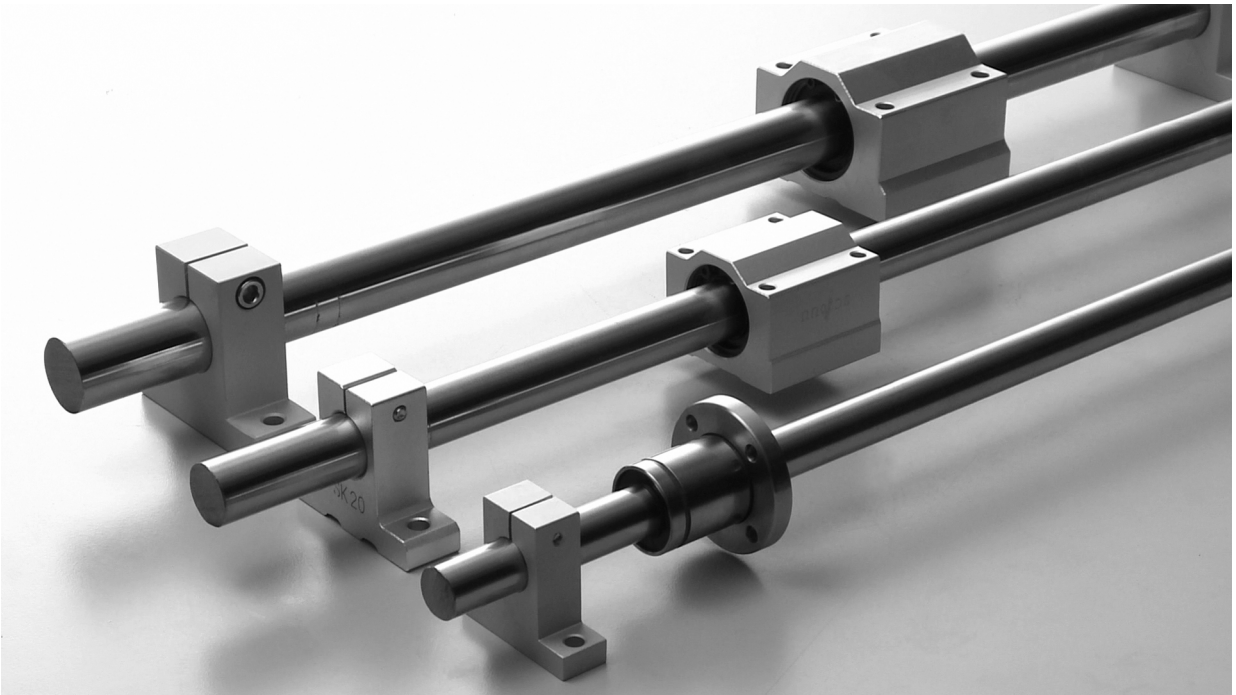
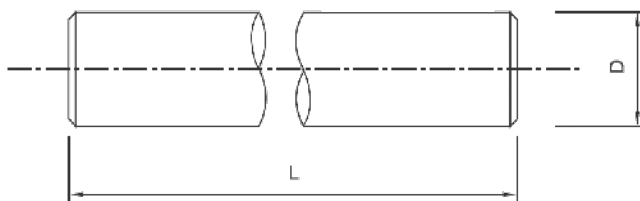
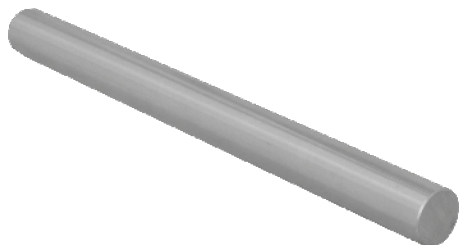


# LINEAR SHAFTS AND BALL BUSHINGS



# Linear shafts and ball bushings sizes

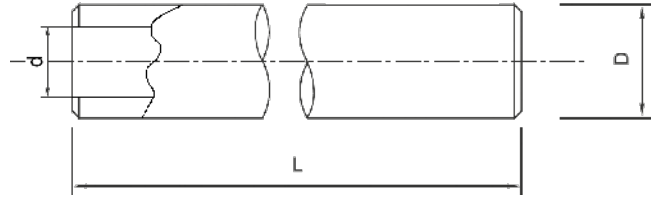
## W SHAFT



Type	D h6	Max. length L	Surface hardness depth	Roundness	Parallelism	Weight
	(mm)		(mm)	( $\mu\text{m}$ )	( $\mu\text{m}$ )	( $\mu\text{m}$ )
W 4	4	2000	0,5-0,8	3	4	0,1
W 6	6		0,5-0,8	4	6	0,23
W 8	8		0,6-0,9	4	6	0,4
W 10	10		0,7-1	4	6	0,62
W 12	12	4000	0,8-1,2	5	8	0,89
W 14	14		0,8-1,2	5	8	1,21
W 16	16		0,9-1,3	5	8	1,58
W 18	18		1,1-1,5	5	8	2
W 20	20		1,2-1,5	6	8	2,47
W 22	22		1,2-1,5	6	8	2,98
W 25	25		1,5-1,7	6	9	3,85
W 28	28		1,5-1,7	6	9	4,83
W 30	30		1,5-1,9	6	9	5,55
W 35	35		1,8-1,9	7	11	7,55
W 40	40	6000	1,9-2	7	11	9,87
W 50	50		1,6-2	7	11	15,4
W 60	60		2,2-2,6	8	13	18,64
W 70	70		2,2-2,6	8	13	22,2
W 80	80		2,2-2,6	8	13	30,2
W 90	90		2,2-3,2	8	13	49,92
W 100	100		2,2-3,2	8	13	61,62

Shaft material: C45 or CK55

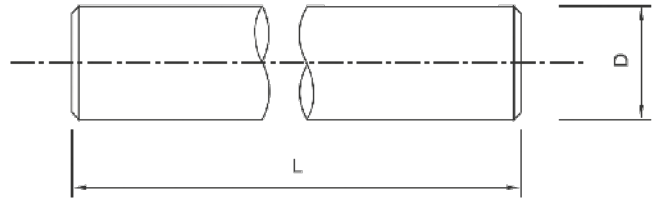
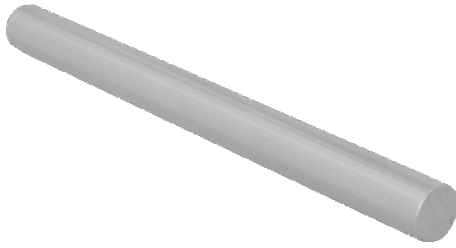
**WH HOLLOW SHAFT**



Type	D h6	d (±10%)	Max. length L	Surface hardness depth	Roundness	Parallelism	Weight
	(mm)	(mm)		(mm)	(µm)	(µm)	(µm)
WH 16	16	7	6000	1,1-1,5	8	11	1,28
WH 20	20	14		1,2-1,5	9	13	1,25
WH 25	25	15,6		1,5-1,7	9	13	2,35
WH 30	30	18,3		1,5-1,9	9	13	3,5
WH 40	40	28		1,9-2	11	16	4,99
WH 50	50	29,7		2,2-2,6	11	16	9,91
WH 60	60	36		2,2-2,6	13	13	14,2
WH 80	80	57		2,2-2,6	13	13	19,43

Shaft material: CK60

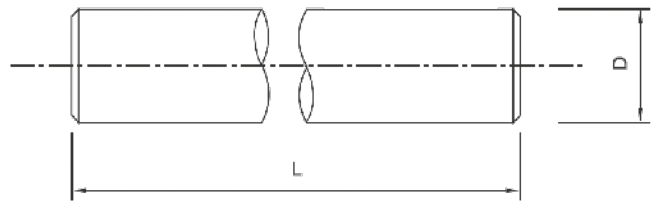
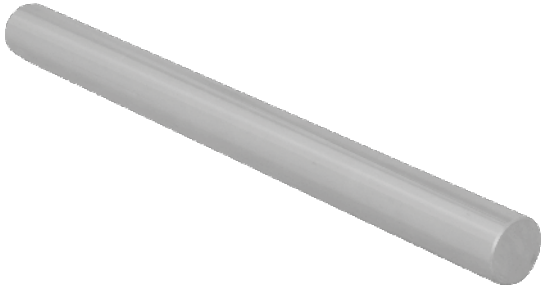
**WRA STAINLESS STEEL SHAFT**



Type	D h6	d (±10%)	Max. length L	Surface hardness depth	Roundness	Parallelism
	(mm)	(mm)	(mm)	(µm)	(µm)	(µm)
WRA 5	5	3200	0,5-0,8	4	5	0,16
WRA 6	6		0,5-0,8	4	5	1,23
WRA 8	8		0,6-0,9	4	6	0,4
WRA 10	10		0,7-1	4	6	0,62
WRA 12	12		0,8-1,2	5	8	0,89
WRA 14	14		0,9-1,3	5	8	1,21
WRA 15	15		1-1,4	5	8	1,39
WRA 16	16		1,1-1,5	5	8	1,58
WRA 20	20		1,2-1,5	6	9	2,47
WRA 25	25		1,5-1,7	6	9	3,85
WRA 30	30		1,5-1,9	6	9	5,55
WRA 40	40		1,9-2	7	11	9,87
WRA 50	50		2,2-2,6	7	11	15,4
WRA 60	60		2,2-2,6	8	13	22,2

Shaft material: X90CrMoV18 / AISI440B

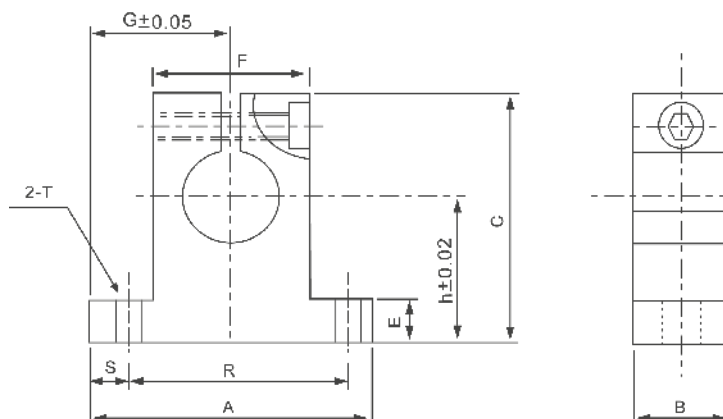
**WRB STAINLESS STEEL SHAFT /**



Type	D h6	d (±10%)	Max. length L	Surface hardness depth	Roundness	Parallelism
	(mm)	(mm)	(mm)	(µm)	(µm)	(µm)
WRB 8	8	6000	0,6-0,9	4	6	0,4
WRB 10	10		0,7-1	4	6	0,62
WRB 12	12		0,8-1,2	5	8	0,89
WRB 14	14		0,9-1,3	5	8	1,21
WRB 16	16		1,1-1,5	5	8	1,58
WRB 20	20		1,2-1,5	6	9	2,47
WRB 25	25		1,5-1,7	6	9	3,85
WRB 30	30		1,5-1,9	6	9	5,55
WRB 40	40		1,9-2	7	11	9,87
WRB 50	50		2,2-2,6	7	11	15,4

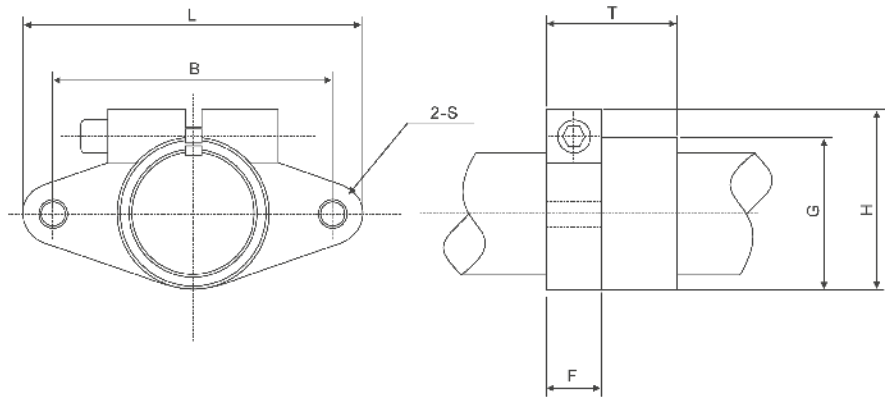
Shaft material: X46Cr13 / AISI430C

**SK SLIDE UNIT**



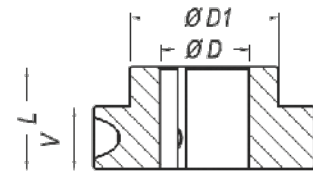
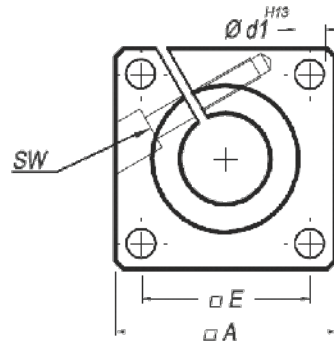
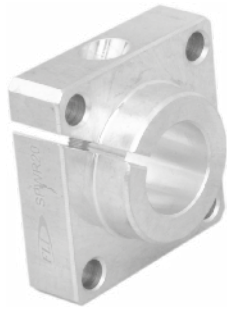
Type	Shaft Ø	h	G	A	B	C	E	F	R	S	T	Clamping bolt	Mounting bolt	Weight
		(mm)												(g)
SK-8	8	20	21	42	14	32,8	6	18	32	5	5,5	M4	M5	24
SK-10	10	20	21	42	14	32,8	6	18	32	5	5,5	M4	M5	24
SK-12	12	23	21	42	14	37,5	6	20	32	5	5,5	M4	M5	30
SK-13	13	23	21	42	14	37,5	6	20	32	5	5,5	M4	M5	30
SK-16	16	27	24	48	16	44	8	25	38	5	5,5	M4	M5	40
SK-20	20	31	30	60	20	51	10	30	45	7,5	6,6	M5	M6	70
SK-25	25	35	35	70	24	60	12	38	56	7	6,6	M6	M6	130
SK-30	30	42	42	84	28	70	12	44	64	10	9	M6	M8	180
SK-35	35	50	49	98	32	82	15	50	74	12	11	M8	M10	270
SK-40	40	60	57	114	36	96	15	60	90	12	11	M8	M10	420
SK-50	50	70	63	126	40	120	18	74	100	13	14	M12	M12	750

**SHF SLIDE UNIT**



Type	Shaft Ø	L	T	F	B	G	H	S	Clamping bolt	Mounting bolt	Weight
		(mm)									(g)
SHF-10	10	43	10	5	32	20	24	6	M5	M4	13
SHF-12	12	47	13	7	36	25	28	6	M5	M4	20
SHF-13	13	47	13	7	36	25	28	6	M5	M4	20
SHF-16	16	50	16	8	40	28	31	6	M5	M4	27
SHF-20	20	60	20	8	48	34	37	7	M6	M5	40
SHF-25	25	70	25	10	56	40	42	7	M6	M5	60
SHF-30	30	80	30	12	64	46	50	9	M8	M6	110
SHF-35	35	92	35	14	72	50	58	12	M10	M8	380
SHF-40	40	##	40	16	80	56	67	12	M10	M10	510
SHF-50	50	##	50	19	96	70	83	14	M12	M12	890

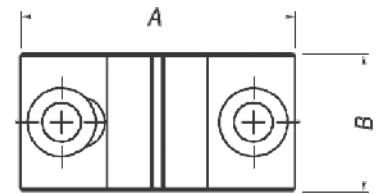
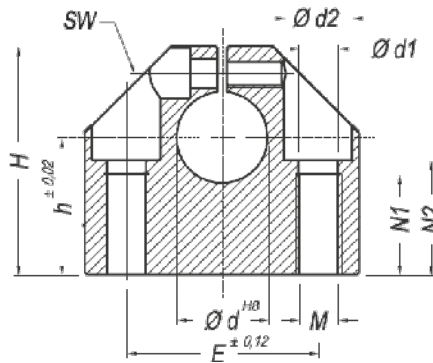
**SFWR SLIDE UNIT**



Type	D	A	L	D1	E	d1	V	SW	Weight
	(mm)								(g)
SFWR-12	12	40	20	23,5	30	5,5	12	M3	50
SFWR-16	16	50	20	27,5	35	5,5	12	M3	80
SFWR-20	20	50	23	33,5	38	6,6	14	M4	100
SFWR-25	25	60	25	42	42	6,6	16	M5	150
SFWR-30	30	70	30	49,5	54	9	19	M6	240
SFWR-40	40	100	40	65	68	11	26	M8	660
SFWR-50	50	100	50	75	75	11	36	M8	820

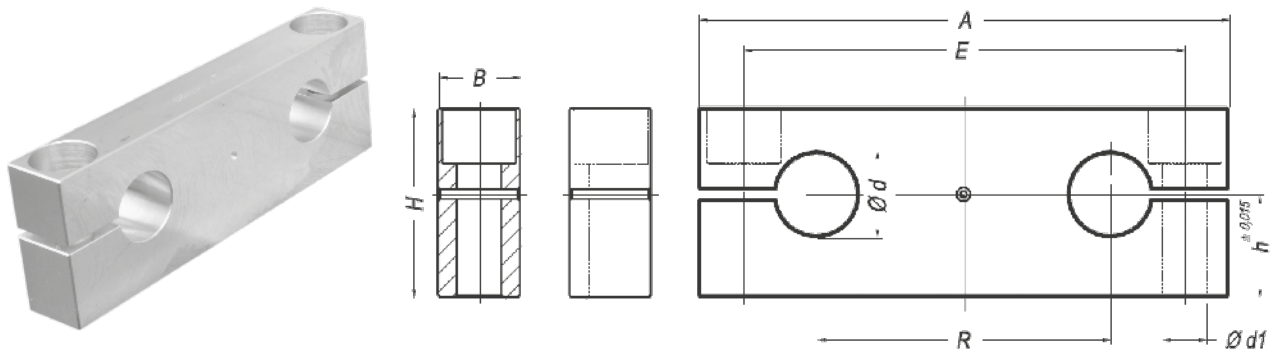


**FGWN SLIDE UNIT**



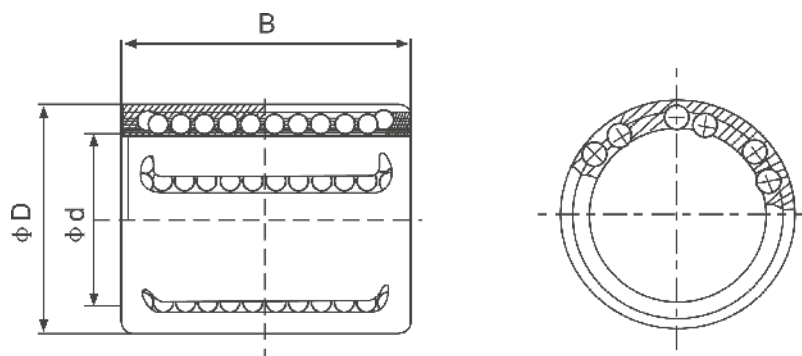
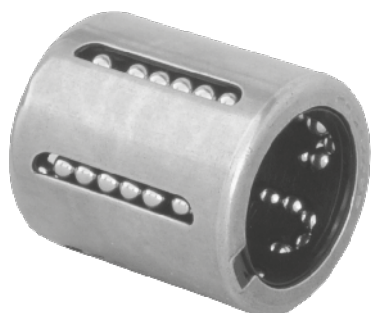
Type	d	A	B	H	h	E	d1	d2	M	N1	N2	SW	Weight
	(mm)												(g)
FGWN-8	8	32	18	28	15	22	3,3	6	M4	9	13	M3	30
FGWN-12	12	43	20	35	20	30	5,2	10	M6	13	16,5	M3	60
FGWN-16	16	53	24	42	25	38	6,8	11	M8	18	21	M4	110
FGWN-20	20	60	30	50	30	42	8,6	15	M10	22	25	M5	170
FGWN-25	25	78	38	61	35	56	10,3	18	M12	26	30	M6	360
FGWN-30	30	87	40	70	40	64	10,3	18	M12	26	34	M6	460
FGWN-40	40	108	48	90	50	82	14,25	20	M16	34	44	M8	860
FGWN-50	50	132	58	105	60	100	17,5	26	M20	43	49	M10	1450

**KTA SLIDE UNIT**



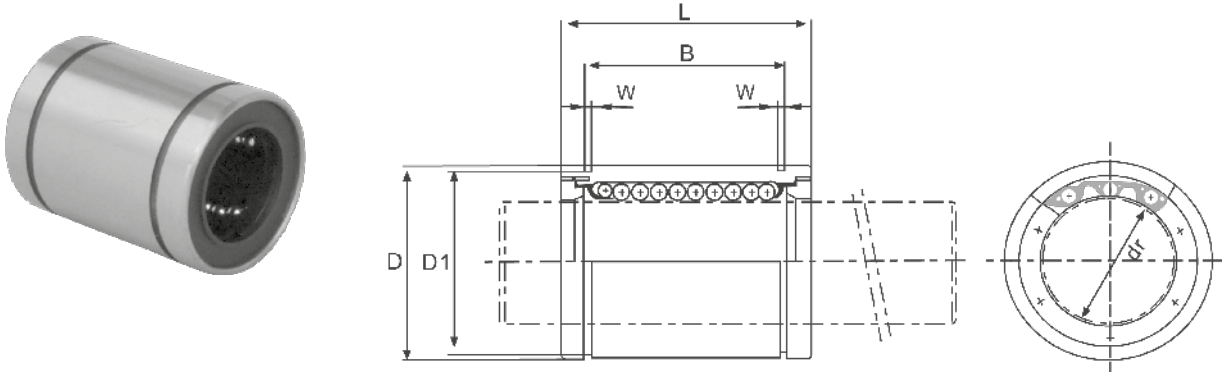
Type	d	A	B	H	h	E	R	Weight
	(mm)							
KTA-8	8	65	12	23	12,5	52	32	40
KTA-12	12	85	14	32	18	70	42	90
KTA-16	16	100	18	36	20	82	54	140
KTA-20	20	130	20	46	25	108	72	260
KTA-25	25	160	25	56	30	132	88	470
KTA-30	30	180	25	64	35	150	96	630
KTA-40	40	230	30	80	44	190	122	1100
KTA-50	50	280	30	96	52	240	152	1650

**KH SERIES**



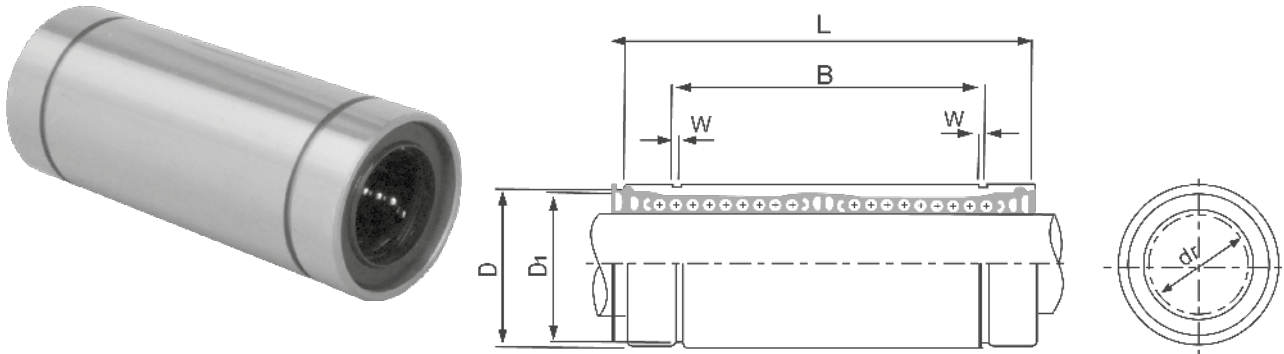
Type	d (mm)	D (mm)	B (mm)	Load		Weight (g)
				C (N)	C0 (N)	
KH-0622	6	12	22	400	239	7
KH-0824	8	15	24	435	280	12
KH-1026	10	17	26	500	370	14,5
KH-1228	12	19	28	620	510	18,5
KH-1428	14	21	28	620	520	20,5
KH-1630	16	24	30	800	620	27,5
KH-2030	20	28	30	950	790	32,5
KH-2540	25	35	40	1990	1670	66
KH-3050	30	40	50	2800	2700	95
KH-4060	40	52	60	4400	4450	182
KH-5070	50	62	70	5500	6300	252

**LME SERIES (EUROPE SERIES)**



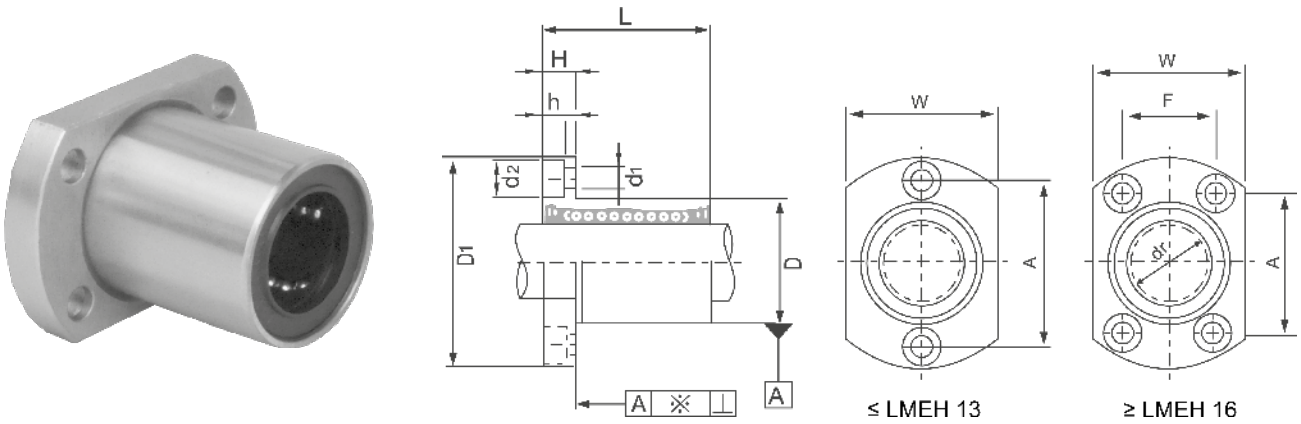
Type	Ball circuit	dr		D		L		B		D1	W	Eccentricity (max.)	Radial clearance (max.)	Load		Weight
		(mm)	(µm)	(mm)	(µm)	(mm)	(µm)	(mm)	(µm)					C	C0	
		(mm)	(µm)	(mm)	(µm)	(mm)	(µm)	(mm)	(µm)					(N)	(N)	
LME 5UU	4	5		12	0	22		14,5		11,5	1,1	12	-3	206	265	11
LME 8UU	4	8	+8 0	16	-8	25		16,5		15,2	1,1			265	402	22
LME 12UU	4	12		22	0	32	0 -200	22,9	0 -300	21	1,3	-4		510	784	45
LME 16UU	5	16	+9	26	-9	36		24,9		24,9	1,3			578	892	60
LME 20UU	5	20	+1	32		45		31,5		30,3	1,6	15	-6	862	1370	102
LME 25UU	6	25	+11	40	0 -11	58		44,1		37,5	1,85			980	1570	235
LME 30UU	6	30	-1	47		68	0	52,1		44,5	1,85	-8		1570	2740	360
LME 40UU	6	40		62	0	80	-300	60,6	0	59	2,15			2160	4020	770
LME 50UU	6	50	+13 -2	75	-13	100		77,6	-400	72	2,65	17	-8	3820	7940	1250
LME 60UU	6	60		90	0 /-15	125	0 /-400	3,15		86,5	3,15			20	-13	4700

**LME\_L SERIES (EUROPE SERIES)**



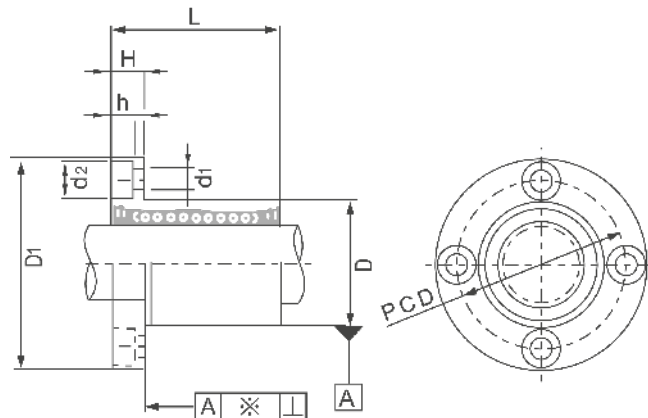
Type	Ball circuit	dr		D		L		B		D1	W	Eccentricity Excentricitate (max.)	Radial clearance (max.)		Weight
		(mm)	(µm)	(mm)	(µm)	(mm)	(µm)	(mm)	(µm)				C	C0	
		(N)	(N)	(g)											
LME8LUU	4	8	+9	16	0-9	46		33		15,2	1,1		421	804	40
LME12LUU	4	12	+1	22	0	61	0	45,8	0	21	1,3	15	813	1570	80
LME16LUU	5	16	+11	26	-11	68	-300	49,8	-400	24,9	1,3		921	1780	115
LME20LUU	5	20	-1	32		80		61		30,3	1,6		1370	2740	180
LME25LUU	6	25	+13	40	0	112		82		37,5	1,85	17	1570	3140	430
LME30LUU	6	30	-2	47	-13	123		104,2		44,5	1,85		2500	5490	615
LME40LUU	6	40		62	0	151	0	121,2	0	59	2,15	20	3430	8040	1400
LME50LUU	6	50	+16	75	-15	192	-400	155,2	-500	72	2,65		6080	15900	2320
LME60LUU	6	60	-4	90	0/-20	209		170		86,5	3,15	25	7550	20000	3900

**LMEH SERIES (EUROPE SERIES)**



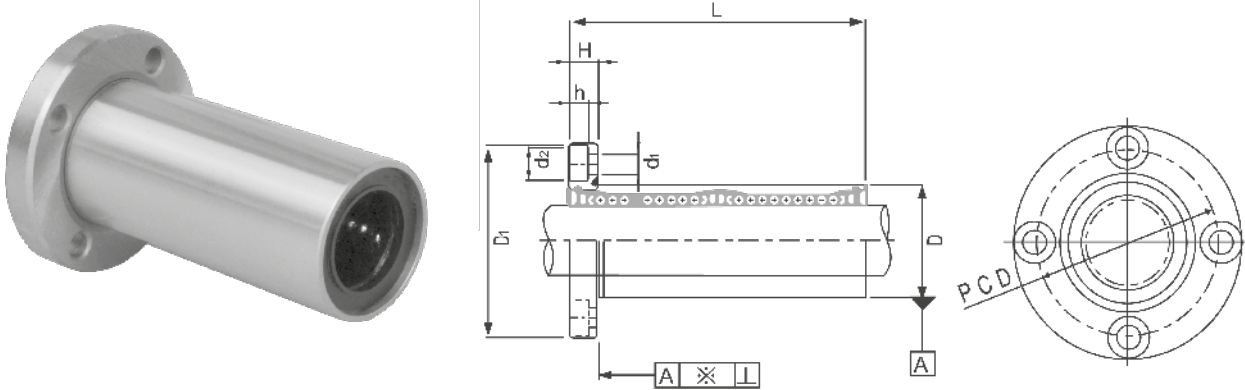
Type	Ball circuit	dr		D		L (±0,3)	D1	W	A	F	H	d1xd2xh	Eccentricity (max.)	Radial clearance (max.)	Load		Weight
		(mm)	(µm)	(mm)	(µm)										C	C0	
LMEH12UU	4	12	+8 / 0	22	0	32	42	32	32	-	6	4,5x7,5x4,1	12	-4	510	784	80
LMEH16UU	5	16	+9	26	-13	36	46	34	31	22	6	4,5x7,5x4,1	12	-4	578	892	103
LMEH20UU	5	20	+1	32	0	45	54	39	36	24	8	5,5x9x5,1	15	-6	862	1370	182
LMEH25UU	6	25	+11	40	-16	58	62	42	40	32	8	5,5x9x5,1	15	-6	980	1570	335
LMEH30UU	6	30	-1	47	0	68	76	54	49	35	10	6,6x11x6,1	15	-8	1570	2740	560

**LMEF SERIES (EUROPE SERIES)**



Type	Ball circuit	dr		D		L (±0,3)	D1	PCD	H	d1xd2xh	Eccentricity (max.)	Radial clearance (max.)	Load		Weight
		(mm)	(µm)	(mm)	(µm)								C	C0	
						(mm)	(µm)	(mm)	(µm)	(N)	(N)	(g)			
LMEF8UU	4	8	+8	16	0/-11	25	32	24	5	3,5x6x3,1		-3	265	402	41
LMEF12UU	4	12	0	22	0	32	42	32	6	4,5x7,5x4,1	12	-4	510	784	80
LMEF16UU	5	16	+9	26	-13	36	46	36	6	4,5x7,5x4,1		-6	578	892	103
LMEF20UU	5	20	+1	32		45	54	43	8	5,5x9x5,1		-6	862	1370	182
LMEF25UU	6	25	+11	40	0 -16	58	62	51	8	5,5x9x5,1	15	-8	980	1570	335
LMEF30UU	6	30	-1	47		68	76	62	10	6,6x11x6,1		-8	1570	2740	560
LMEF40UU	6	40		62	0	80	98	80	13	9x14x8,1		-13	2160	4020	1175
LMEF50UU	6	50	+13 -2	75	-19	100	112	94	13	9x14x8,1	20	-13	3820	7940	1745
LMEF60UU	6	60		90	0/-22	125	134	112	18	11x17x11,1	25	-13	4700	9800	3220

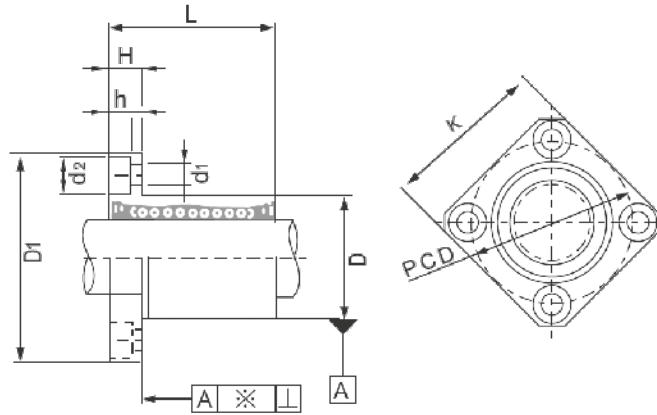
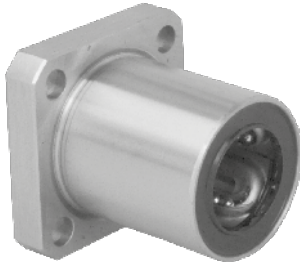
**LMEF\_L SERIES (EUROPE SERIES)**



Tipul	Ball circuit	dr		D		L (±0,3)	D1	PCD	H	d1xd2xh	Eccentricity (max.)	Radial clearance (max.)	Load		Weight
		(mm)	(µm)	(mm)	(µm)								C	C0	
LMEF8LUU	4	8	+9	16	0 / -13	46	32	24	5	3,5x6x3,1	15	-3	421	804	59
LMEF12LUU	4	12	+1	22	0	61	42	32	6	4,5x7,5x4,1		813	1570	110	
LMEF16LUU	5	16	+11	26	-16	68	46	36	6	4,5x7,5x4,1		-4	921	1780	160
LMEF20LUU	5	20	+1	32		80	54	43	8	5,5x9x5,1	17	-6	1370	2740	260
LMEF25LUU	6	25	+13	40	0 -19	112	62	51	8	5,5x9x5,1		1570	3140	540	
LMEF30LUU	6	30	-2	47		123	76	62	10	6,6x11x6,1		-8	2500	5490	815
LMEF40LUU	6	40		62	0	151	98	80	13	9x14x8,1	20		3430	8040	1805
LMEF50LUU	6	50	+16 -4	75	-22	192	112	94	13	9x14x8,1		6080	15900	2820	
LMEF60LUU	6	60		90	0 / -25	209	134	112	18	11x17x11,1		25	-13	7550	20000

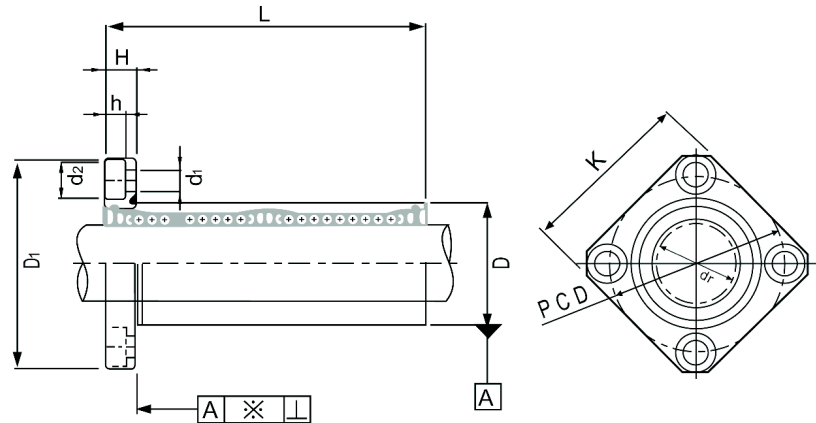


**LMEK SERIES (EUROPE SERIES)**



Type	Ball circuit	dr		D		L (±0,3)	D1	PCD	K	H	d1xd2xh	Eccentricity (max.)	Radial clearance (max.)	Load		Weight
		(mm)	(µm)	(mm)	(µm)									C	C0	
LMEK8UU	4	8	+8	16	0/-11	25	32	24	25	5	3,5x6x3,1	12	-3	265	402	41
LMEK12UU	4	12	0	22	0	32	42	32	32	6	4,5x7,5x4,1		-4	510	784	80
LMEK16UU	5	16	+9	26	-13	36	46	36	35	6	4,5x7,5x4,1	15	-6	578	892	103
LMEK20UU	5	20	+1	32		45	54	43	42	8	5,5x9x5,1		-8	862	1370	182
LMEK25UU	6	25	+11	40	0 -16	58	62	51	50	8	5,5x9x5,1	20	-8	980	1570	335
LMEK30UU	6	30	-1	47		68	76	62	60	10	6,6x11x6,1		-13	1570	2740	560
LMEK40UU	6	40		62	0	80	98	80	75	13	9x14x8,1	25		2160	4020	1175
LMEK50UU	6	50	+13 -2	75	-19	100	112	94	88	13	9x14x8,1			3820	7940	1745
LMEK60UU	6	60		90	0/-22	125	134	112	106	18	11x17x11,1			4700	9800	3220

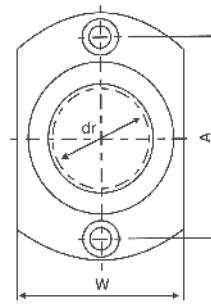
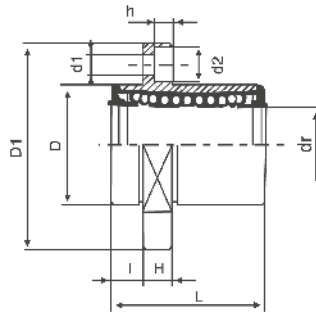
**LMEK\_L SERIES (EUROPE SERIES)**



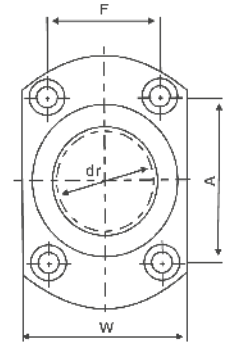
Type	Ball circuit	dr		D		L (±0,3)	D1	PCD	H	K	d1xd2xh	Eccentricity (max.)	Radial clearance (max.)	Load		Weight
		(mm)	(µm)	(mm)	(µm)									C	C0	
														(µm)	(N)	
LMEK8LUU	4	8	+9	16	0/-13	46	32	24	5	25	3,5x6x3,1	15	-3	421	804	59
LMEK12LUU	4	12	+1	22	0	61	42	32	6	32	4,5x7,5x4,1		-4	813	1570	110
LMEK16LUU	5	16	+11	26	-16	68	46	36	6	35	4,5x7,5x4,1	17	-6	921	1780	160
LMEK20LUU	5	20	+1	32	0	80	54	43	8	42	5,5x9x5,1			1370	2740	260
LMEK25LUU	6	25	+13	40	-19	112	62	51	8	50	5,5x9x5,1		1570	3140	540	
LMEK30LUU	6	30	-2	47	0	123	76	62	10	60	6,6x11x6,1	20	-8	2500	5490	815
LMEK40LUU	6	40	+16	62	0	151	98	80	13	75	9x14x8,1			3430	8040	1805
LMEK50LUU	6	50	-4	75	-22	192	112	94	13	88	9x14x8,1	25	-13	6080	15900	2820
LMEK60LUU	6	60		90	0/-25	209	134	112	18	106	11x17x11,1			7550	20000	4920



LMHP SERIES



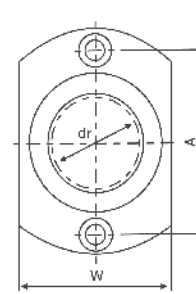
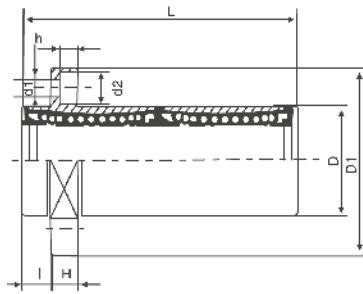
LMHP 6-13



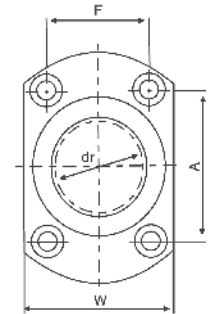
LMHP 16-30

Type	Ball circuit	dr		D		L (±0,3)	I	D1	W	H	A	F	D1xd2xh	Eccentricity (max.)	Load		Weight
		(mm)	(µm)	(mm)	(µm)										C	C0	
LMHP6UU	4	6	0 -9	12	0	19	5	28	18	5	20	-	3,5x6x3,1	12	206	265	21
LMHP8UU	4	8		15	-13	24	5	32	21	5	24	-	3,5x6x3,1		274	392	33
LMHP10UU	4	10		19	0	29	6	40	25	6	29	-	4,5x7,5x4,1		372	549	64
LMHP12UU	4	12		21	0	30	6	42	27	6	32	-	4,5x7,5x4,1		510	784	68
LMHP13UU	4	13		23	-16	32	6	43	29	6	33	-	4,5x7,5x4,1		510	784	81
LMHP16UU	5	16		28	0	37	6	48	34	6	31	22	4,5x7,5x4,1		774	1180	112
LMHP20UU	5	20	0 -10	32	0	42	8	54	38	8	36	24	5,5x9x5,1	15	882	1370	167
LMHP25UU	6	25		40	-19	59	8	62	46	8	40	32	5,5x9x5,1		980	1570	325
LMHP30UU	6	30		45	0	64	10	74	51	10	49	35	6,6x11x6,1		1570	2740	388

LMHP\_L SERIES



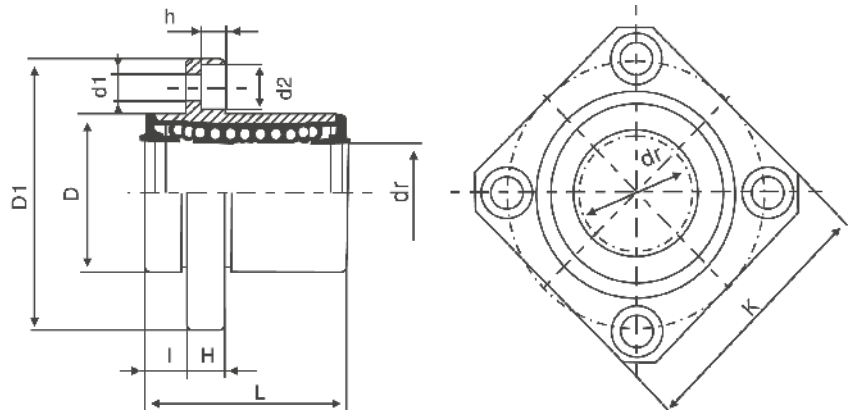
LMHP 6L - 13L



LMHP 16L - 30L

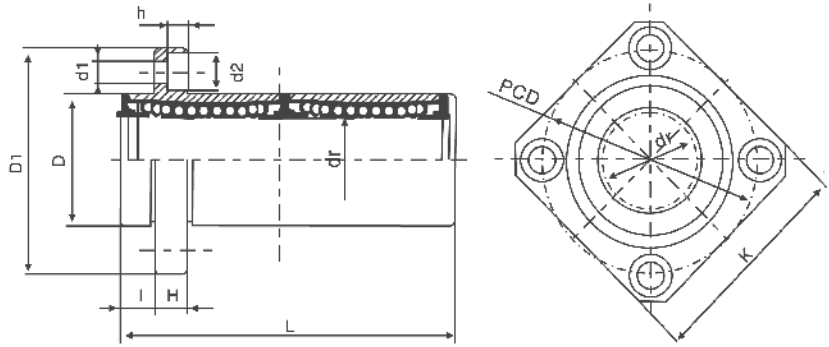
Type	Ball circuit	dr		D		L (±0,3)	I	D1	W	H	A	F	D1xd2xh (N)	Eccentricity (max.) (N)	Load		Weight (mm)
		(mm)	(µm)	(mm)	(µm)										C	C0	
															(µm)		
LMHP6LUU	4	6		12	0	35	5	28	18	5	20	-	3,5x6x3,1	15	323	529	28
LMHP8LUU	4	8		15	-13	45	5	32	21	5	24	-	3,5x6x3,1		431	784	47
LMHP10LUU	4	10	0	19		55	6	40	25	6	29	-	4,5x7,5x4,1		588	1100	90
LMHP12LUU	4	12	-10	21	0	58	6	42	27	6	32	-	4,5x7,5x4,1		813	1570	102
LMHP13LUU	4	13		23	-16	61	6	43	29	6	33	-	4,5x7,5x4,1		813	1570	123
LMHP16LUU	5	16		28		70	6	48	34	6	31	22	4,5x7,5x4,1		1230	2350	182
LMHP20LUU	5	20		32		80	8	54	38	8	36	24	5,5x9x5,1	20	1400	2740	247
LMHP25LUU	6	25	0	40	0	112	8	62	46	8	40	32	5,5x9x5,1		1560	3140	525
LMHP30LUU	6	30	-12	45	-19	123	10	74	51	10	49	35	6,6x11x6,1		2490	5490	645

**LMKP SERIES**



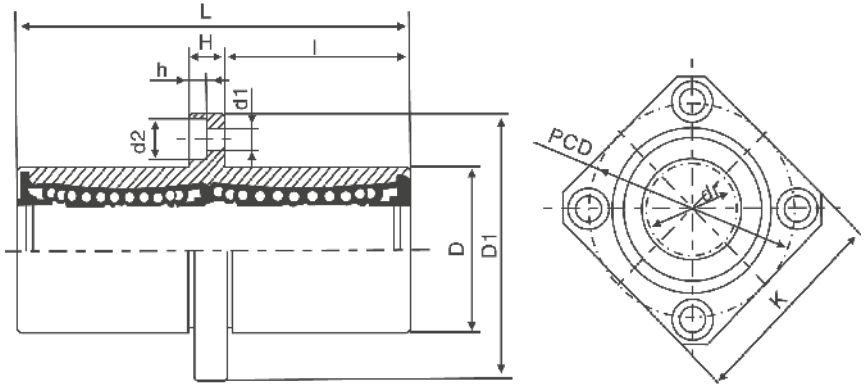
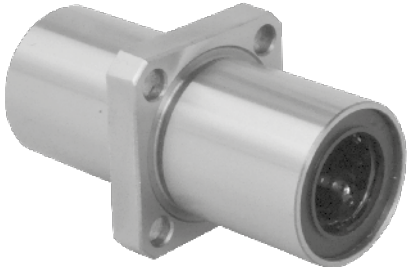
Type	Ball circuit	dr		D		L (±0,3)	I	D1	K	H	PCD	d1xd2xh	Eccentricity (max.)	Load		Weight	
		(mm)	(µm)	(mm)	(µm)									C	C0		
																	(N)
LMKP6UU	4	6		12	0	19	5	28	22	5	20	3,5x6x3,1	12	206	265	24	
LMKP8UU	4	8		15	-13	24	5	32	25	5	24	3,5x6x3,1		274	392	37	
LMKP10UU	4	10	0 -9	19	0	29	6	40	30	6	29	4,5x7,5x4,1		372	549	72	
LMKP12UU	4	12		21		30	6	42	32	6	32	4,5x7,5x4,1		510	784	76	
LMKP13UU	4	13		23		32	6	43	34	6	33	4,5x7,5x4,1		510	784	88	
LMKP16UU	5	16	28	37	6	48	37	6	38	4,5x7,5x4,1	774	1180		120			
LMKP20UU	5	20	0 -10	32	0 -19	42	8	54	42	8	43	5,5x9x5,1	15	882	1370	180	
LMKP25UU	6	25		40		59	8	62	50	8	51	5,5x9x5,1		980	1570	340	
LMKP30UU	6	30		45		64	10	74	58	10	60	6,6x11x6,1		1570	2740	470	
LMKP35UU	6	35	52	70	10	82	64	10	67	6,6x11x6,1	1670	3140		650			
LMKP40UU	6	40	0 -12	60	0 -22	80	13	96	75	13	78	9x14x8,1		20	2160	4020	1060
LMKP50UU	6	50		80		100	13	116	92	18	98	9x14x8,1			3820	7940	2200
LMKP60UU	6	60	0/-15	90	0/-25	110	18	134	106	18	112	11x17x11,1	25		4700	10000	3000

**LMKP\_L SERIES**



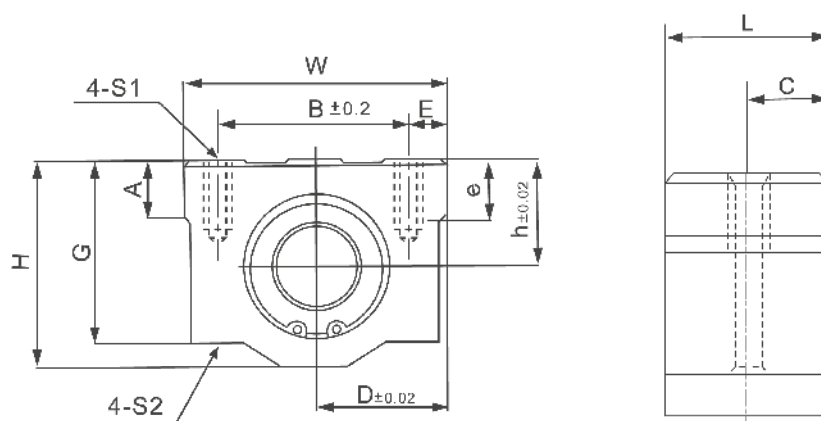
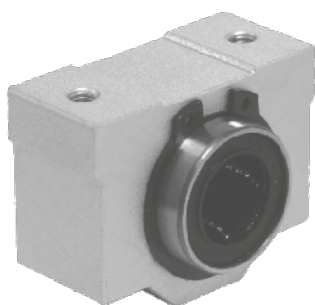
Type	Ball circuit	dr		D		L (±0,3)	I	D1	K	H	PCD	d1xd2xh	Eccentricity (max.)	Load		Weight
		(mm)	(µm)	(mm)	(µm)									C	C0	
LMKP6LUU	4	6	0	12	0	35	5	28	22	5	20	3,5x6x3,1	15	323	529	31
LMKP8LUU	4	8	-13	15	-13	45	5	32	25	5	24	3,5x6x3,1		431	784	51
LMKP10LUU	4	10	0	19	0	55	6	40	30	6	29	4,5x7,5x4,1		588	1100	98
LMKP12LUU	4	12	-10	21	-10	57	6	42	32	6	32	4,5x7,5x4,1		813	1570	110
LMKP13LUU	4	13	-16	23	-16	61	6	43	34	6	33	4,5x7,5x4,1		813	1570	130
LMKP16LUU	5	16	-16	28	-16	70	6	48	37	6	38	4,5x7,5x4,1		1230	2350	190
LMKP20LUU	5	20	0	32	0	80	8	54	42	8	43	5,5x9x5,1	20	1400	2740	260
LMKP25LUU	6	25	-12	40	-19	112	8	62	50	8	51	5,5x9x5,1		1560	3140	540
LMKP30LUU	6	30	-12	45	-19	123	10	74	58	10	60	6,6x11x6,1		2490	5490	680
LMKP35LUU	6	35	0	52	0	135	10	82	64	10	67	6,6x11x6,1	25	2650	6270	1020
LMKP40LUU	6	40	-15	60	-22	151	13	96	75	13	78	9x14x8,1		3430	8040	1570
LMKP50LUU	6	50	-15	80	-22	192	13	116	92	18	98	9x14x8,1		6080	15900	3600
LMKP60LUU	6	60	0/-20	90	0/-25	209	18	134	106	18	112	11x17x11,1		7550	20000	4500

**LMEKC SERIES**



Type	Ball circuit	dr		D		L (±0,3)	I	D1	K	H	PCD	d1xd2xh	Eccentricity (max.)	Load		Weight
		(mm)	(µm)	(mm)	(µm)									C	C0	
LMEKC8UU	4	8	+9	16	0/-13	46	20,5	32	25	5	24	3,5x6x3,1	15	431	804	59
LMEKC12UU	4	12	-1	22		61	27,5	42	32	6	32	4,5x7,5x4,1		813	1570	110
LMEKC16UU	5	16	+11	26		68	31	46	35	6	36	4,5x7,5x4,1		921	1780	160
LMEKC20UU	5	20	-1	32	0 -19	80	36	54	42	8	43	5,5x9x5,1	17	1370	2740	260
LMEKC25UU	6	25	+13	40		112	52	62	50	8	51	5,5x9x5,1		1570	3140	540
LMEKC30UU	6	30	-2	47		123	56,5	76	60	10	62	6,6x11x6,1		2500	5490	815
LMEKC40UU	6	40		62	0	151	69	98	75	13	80	9x14x8,1	20	3430	8040	1805
LMEKC50UU	6	50	+16	75	-22	192	89,5	112	88	18	94	9x14x8,1		6080	15900	2820
LMEKC60UU	6	60	-4	90	0/-25	209	95,5	134	106	18	112	11x17x11,1		25	7550	20000

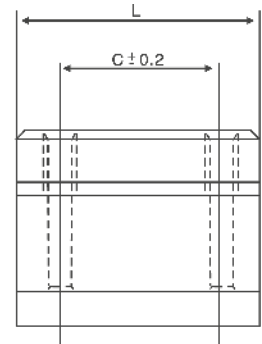
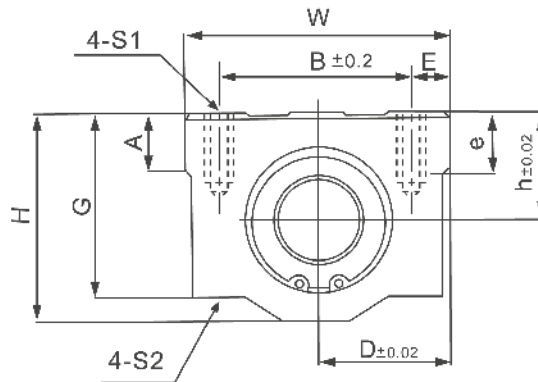
**KBA\_S SERIES (EUROPE SERIES)**



Type	h	D	W	H	G	A	B	E	S1xE	S2	C	L	Load		Weight
													C	C0	
													(N)	(N)	
KBA8SUU	11	17	34	22	18	6	24	5	M4X8	3,4	7,2	14,4	274	392	25
KBA12SUU	15	22	44	30	24,5	8	33	5,5	M5X12	4,3	10,4	20,8	510	784	65
KBA16SUU	19	25	50	38,5	32,5	9	36	7	M5X12	4,3	11,2	22,4	774	1180	100
KBA20SUU	21	27	54	41	35	11	40	7	M6X12	5,2	14,5	29	882	1370	148
KBA25SUU	26	38	76	51,5	42	12	54	11	M8X18	7	20,45	40,9	980	1570	368
KBA30SUU	30	39	78	59,5	49	15	58	10	M8X18	7	24,45	48,9	1574	2740	500
KBA40SUU	40	51	102	78	62	20	80	11	M10X25	8,7	28,2	56,4	2160	4020	1000
KBA50SUU	52	61	122	102	80	25	100	11	M10X25	8,7	36,2	72,4	3820	7940	2205

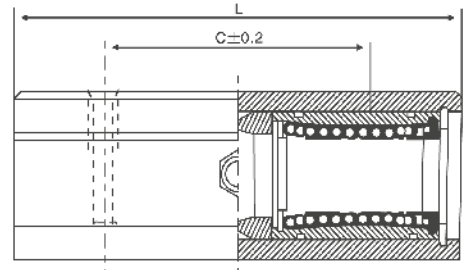
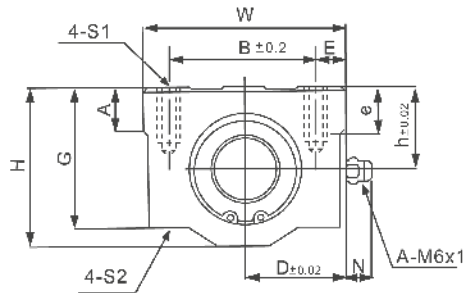


**KBA SERIES (EUROPE SERIES)**



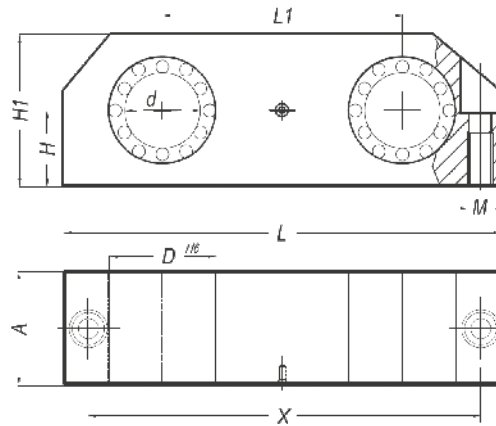
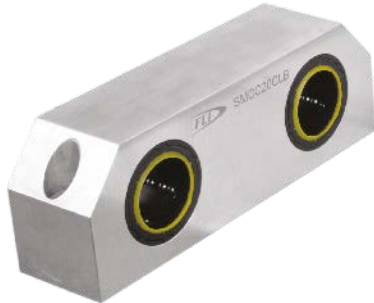
Type	Shaft Ø	h	D	W	L	F	G	T	B	C	E	S1xe	S2	Weight
	(mm)													(g)
KBA10UU	10	13	20	40	35	26	21	8	28	21	6	M5x12	4,3	92
KBA12UU	12	15	22	44	39	30	24,5	8	33	26	5,5	M5x12	4,3	120
KBA16UU	16	19	25	50	44	38,5	32,5	9	36	34	7	M5x12	4,3	200
KBA20UU	20	21	27	54	53	41	35	11	40	40	7	M6x12	5,2	270
KBA25UU	25	26	38	76	67	51,5	42	12	54	50	11	M8x18	7	600
KBA30UU	30	30	39	78	76	59,5	49	15	58	58	10	M8x18	7	776
KBA40UU	40	40	51	102	90	78	62	20	80	60	11	M10x25	8,7	1590
KBA50UU	50	52	61	122	110	102	80	25	100	80	11	M10x25	8,7	3340
KBA60UU	60	58	66	132	137	114	94	30	108	90	12	M12x25	10,7	4800

**KBA\_L SERIES (EUROPE SERIES)**



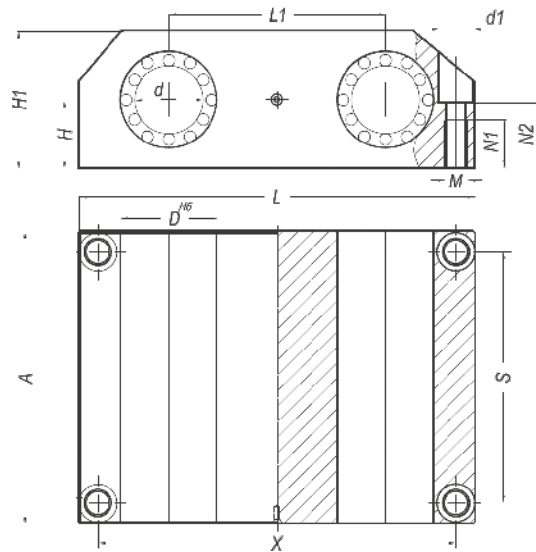
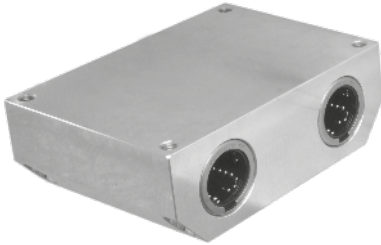
Type	Shaft Ø	h	D	W	L	F	G	T	B	C	E	S1xe	S2	Weight
	(mm)													(g)
KBA10LUU	10	13	20	40	68	26	21	8	28	46	6	M5x12	4,3	180
KBA12LUU	12	15	22	44	77	30	24,5	8	33	64	5,5	M5x12	4,3	237
KBA16LUU	16	19	25	50	89	38,5	32,5	9	36	79	7	M5x12	4,3	405
KBA20LUU	20	21	27	54	100	41	35	11	40	90	7	M6x12	5,2	510
KBA25LUU	25	26	38	76	136	51,5	42	12	54	119	11	M8x18	7	1220
KBA30LUU	30	30	39	78	154	59,5	49	15	58	132	10	M8x18	7	1580
KBA40LUU	40	40	51	102	180	78	62	20	80	150	11	M10x25	8,7	3180
KBA50LUU	50	52	61	122	230	102	80	25	100	200	11	M10x25	8,7	6990

**SMCC SERIES**



Type	Shaft Ø	A	H	H1	L	L1	M	Weight
	(mm)							(g)
SMCC12	12	28	15	30	80	40	M5	188
SMCC16	16	30	17,5	35	96	52	M5	256
SMCC20	20	30	20	40	115	63	M6	316
SMCC25	25	40	25	50	136	75	M8	632
SMCC30	30	50	28	56	146	80	M8	890
SMCC40	40	60	35	70	184	97	M10	1660
SMCC50	50	70	40	80	210	107	M12	2250

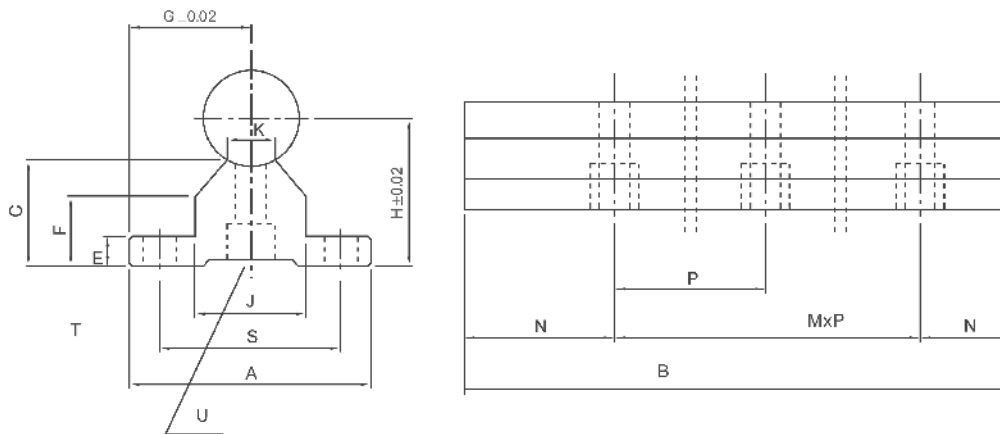
**SMLC SERIES**



Type	Shaft Ø	A	H	H1	L	L1	M	Weight
	(mm)							
SMLC12	12	70	15	30	80	40	M5	376
SMLC16	16	80	17,5	35	96	52	M5	612
SMLC20	20	85	20	40	115	63	M6	832
SMLC25	25	100	25	50	136	75	M8	1464
SMLC30	30	130	28	56	146	80	M8	2180
SMLC40	40	150	35	70	184	97	M10	3820
SMLC50	50	175	40	80	210	107	M12	5500

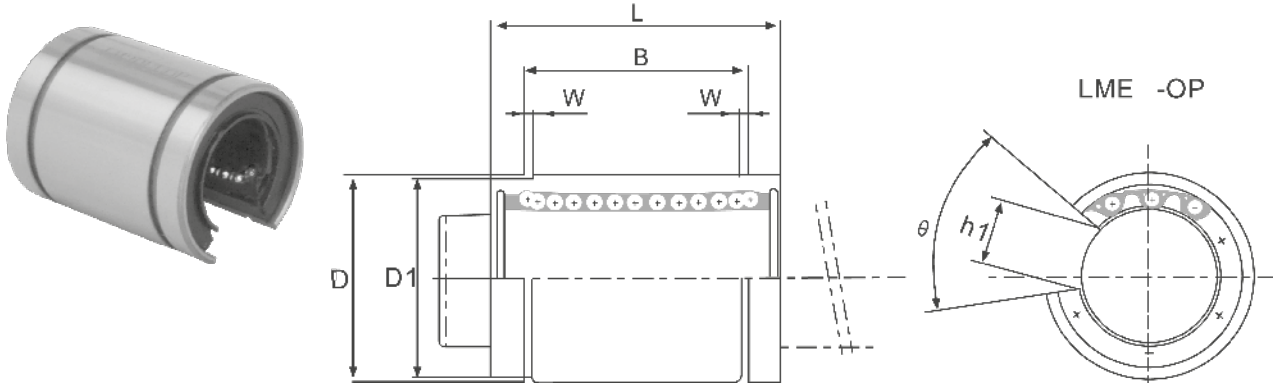
# Slide units and bushing sizes

## SA SLIDE UNIT



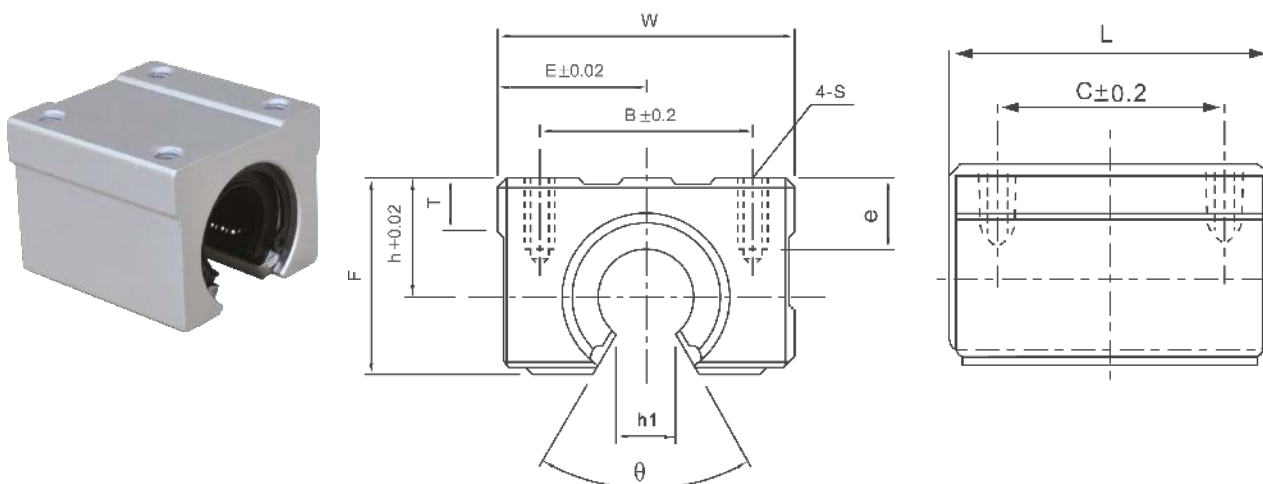
Type	Shaft Ø	H	G	A	B (max)	C	E	F	J	K	L	P	S	T	U	Weight
	(mm)															(kg/m)
SA16	16	25	20	40	4000	17,8	5	11,7	18,5	8	80°	150	30	5,5	M5	2,58
SA20	20	27	22,5	45	4000	17,7	5	10	19	8	50°	150	30	5,5	M6	3,67
SA25	25	33	27,5	55	4000	21	6	12	21,5	8	50°	200	35	6,5	M6	5,31
SA30	30	37	30	60	4000	22,8	7	13	26,5	13	50°	200	40	6,5	M8	7,39
SA35	35	43	32,5	65	4000	26,5	8	15,5	28	13	50°	200	45	9	M8	9,93

LME\_OP SERIES



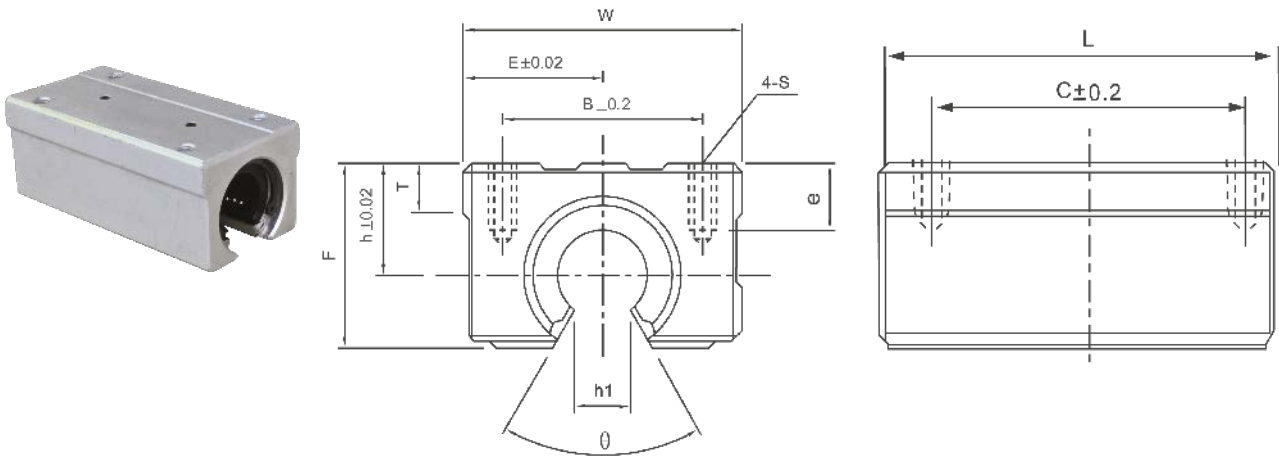
Type	Ball circuit	dr		D		L		B		D1	W	h1	Θ	Eccentricity (max.)	Radial clearance (max.)	Load		Weight
		(mm)	(μm)	(mm)	(μm)	(mm)	(μm)	(mm)	(μm)							C	C0	
		(μm)														(N)	(N)	
LME12UU-OP	3	12		22	0	32		22,9		21	1,3	7,5	78°		-4	510	784	45
LME16UU-OP	4	16	+9	26	-9	36		24,9		24,9	1,3	10	78°		-4	578	892	60
LME20UU-OP	4	20	+1	32		45		31,5		30,3	1,6	10	60°		-6	862	1370	102
LME25UU-OP	5	25	+11	40	0	58		44,1		37,5	1,85	12,5	60°	15	-6	980	1570	235
LME30UU-OP	5	30	-1	47		68	0	52,1		44,5	1,85	12,5	50°		-8	1570	2740	360
LME40UU-OP	5	40		62	0	80	-300	60,6	0	59	2,15	16,8	50°		-8	2160	4020	770
LME50UU-OP	5	50	+13	75	-13	100		77,6	-400	72	2,65	21	50°	17	-8	3820	7940	1250
LME60UU-OP	5	60	-2	90	0/-15	125	0/-400	3,15		86,5	3,15	27,2	54°	20	-13	4700	9800	2220

**SME SERIES**



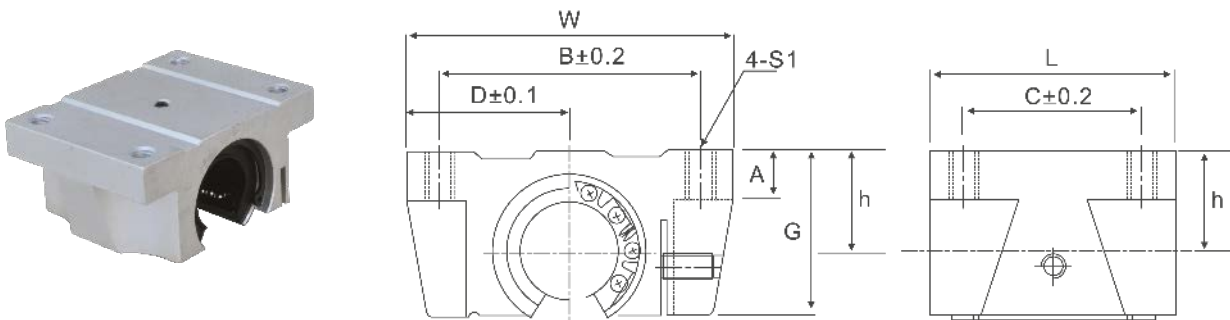
Type	h	D	W	L	F	T	h1	θ	B	C	Sxe	Bearing	Load		Weight
													C	C0	
													(N)	(N)	(g)
SME16UU	20	22,5	45	45	33	9	10	80°	32	30	M5x12	LM16UU-OP	774	1180	150
SME20UU	23	24	48	50	39	11	10	60°	35	35	M6x12	LM20UU-OP	882	1370	200
SME25UU	27	30	60	65	47	14	11,5	50°	40	40	M6x12	LM25UU-OP	980	1570	450
SME30UU	33	35	70	70	56	15	14	50°	50	50	M8x18	LM30UU-OP	1570	2740	630
SME35UU	37	40	80	80	63	18	16	50°	55	55	M8x18	LM35UU-OP	1670	3140	925
SME40UU	42	45	90	90	72	20	19	50°	65	65	M10x20	LM40UU-OP	2160	4020	1330
SME50UU	53	60	120	110	92	25	23	50°	94	80	M10x20	LM50UU-OP	3820	7940	3000

**SME\_L SERIES**



Type	h	D	W	L	F	T	h1	Θ	B	C	Sxe	Bearing	Load		Weight
													C	C0	
													(N)	(N)	
(mm)															
SME16LUU	20	22,5	45	85	33	9	10	80°	32	60	M5x12	LM16UU-OPx2	1230	2350	300
SME20LUU	23	24	48	95	39	11	10	60°	35	70	M6x12	LM20UU-OPx2	1400	2740	400
SME25LUU	27	30	60	130	47	14	11,5	50°	40	90	M6x12	LM25UU-OPx2	1560	3140	900
SME30LUU	33	35	70	140	56	15	14	50°	50	100	M8x18	LM30UU-OPx2	2490	5490	1260

**TBR SERIES**



Type	W	G	A	L	B	D	C	h	S1	Load		Weight
										C	C0	
										(N)	(N)	
(mm)												
TBR16UU	62	26	8	42	50	31	30	18	M5	392	490	180
TBR20UU	68	31	10	51	54	34	37	21	M6	784	1176	300
TBR25UU	82	41	12	65	65	41	50	28	M8	1568	2352	600
TBR30UU	91	48	12	75	75	45,5	60	33,5	M8	1764	2940	900

