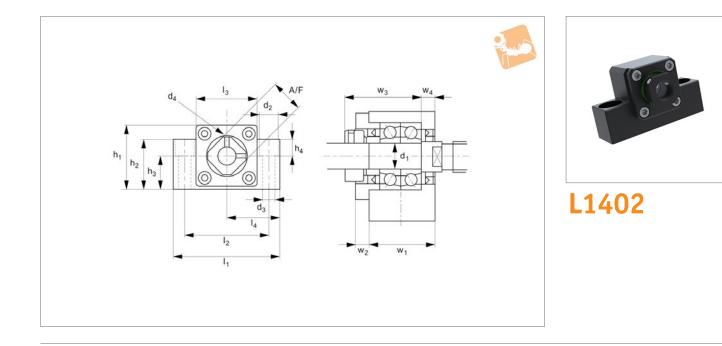
Fixed Rectangular Support Units (LK)





Material

Steel with black oxide finish. Bearings, sealed and lubricated for life.

Standard units are suitable for ball screws

Technical Notes

and lead screws to C5/C7 accuracy grade. The bearings are not preloaded and have a max. axial clearance of 0,018mm. For dimensions to machine the ends of the screws to see technical pages.

Tips

Electroless nickel plated versions of these bearing mounts are available for clean room and other applications.

Order No.	For lea	d screw o.o	d dia.	For ball so	rew o.d dia.	d ₁ tol. l	L H7	d ₂	d ₃	d ₄	h ₁	h ₂	h ₃ ±0.02	h ₄
L1402.LK08		12			10	8		14	9	M3	31	25.5	15.5	12.5
L1402.LK10	14 - 16		12		10)	14	9	МЗ	38	30.0	20.0	10.0	
L1402.LK12	18 - 20		14 - 16		12	2	14	9	M4	38	30.0	20.0	10.0	
L1402.LK15		26 - 32		:	20	15	5	17	11	M4	41	32.0	22.0	13.0
Order No.	I_1	l ₂	I ₃	I ₄	w_1	W ₂	w ₃		w ₄ 0.02	A/F	Axial load kgf max.	rpm max.	Sta	atic load kgf max.
L1402.LK08	62	46	30	31	22.5	-	26.0		3.5	14	103	40000)	280
L1402.LK10	70	52	36	35	24.0	6	29.5	(6.0	16	195	24000)	530
L1402.LK12	70	52	36	35	24.0	6	29.5		6.0	19	217	22000)	610
L1402.LK15	80	60	41	40	25.0	6	36.0	1	0.0	22	240	19000)	700





1. Install the fixed side support unit to the screw shaft.

the hexagonal socket head set screw.

Bearing supports mounting prosedure

and then install the assembly to the housing on the supported side.



Notes

When inserting the screw shaft to the support unit, take care not to let the oil seal lip turn upward.

When securing the set piece with a 3. Attach the support side bearing to the screw shaft and secure the bearing using the snap ring, hexagonal socket head set screw, apply an adhesive to the hexagonal socket head set screw before tightening it in order to

prevent the screw from loosening. If planning to use the product in a harsh environment, it is also necessary to take measures to prevent other components/parts from loosening. Contact our Technical Department for details.

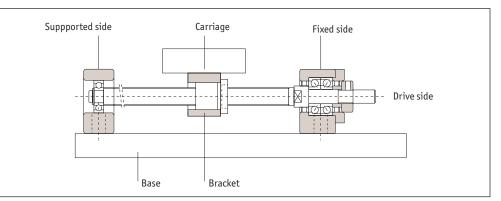
Snap Ring Set Screw Bearing Support side Fixed side

2. After inserting the fixed side support unit, secure the lock nut using the fastening set piece and

Installation onto the table and the base

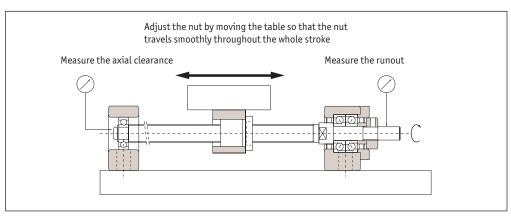
Installing the support unit

- 1. If using a bracket when mounting the ball screw nut to the carriage, insert the nut into the bracket and temporarily fasten it.
- Temporarily fasten the fixed side support unit to the base. In doing so, press the table toward the fixed side support unit to align the axial centre, and adjust the carriage so that it can travel freely.
- 3. Press the carriage toward the fixed side support unit to align the axial centre. Make the adjustment by reciprocating the table several times so that the nut travels slowly over the whole stroke, and temporarily secure the support unit to the base.



Checking the accuracy and fully fastening the support unit

1. While checking the runout of the ball screw shaft end and the axial clearance using a dial gauge, fully fasten the ball screw nut, the nut bracket, the fixed side support unit and the support side unit, in this order.



Notes

If using the fixed side support unit as the reference point, secure a clearance 2. between the ball screw nut and the table or inside the bracket when making adjustment.

If using the table as a reference point, make the adjustment either by using the shim (for a square type support unit), or securing the clearance between the outer surface of the nut and the inner surface of the mounting section (for a round type support unit).

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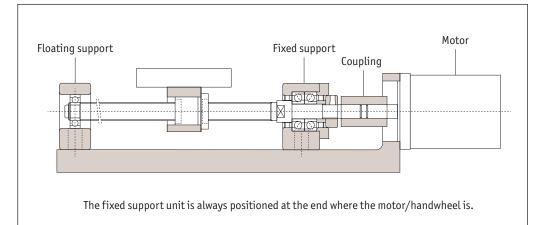


Bearing supports units assembly



Connection with motor

- 1. Mount motor bracket to the base.
- 2. Connect the motor and the ball screw using a coupling (make sure the mounting accuracy is maintained).
- 3. Mount motor bracket to the base.





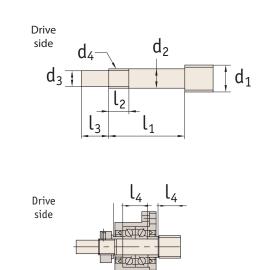




Fixed side for unit types; FK, EK, AK, FKA and LK







Type L1390.FK (Option 1) L1400.FKA

Drive side	
	All Other Types
Drive side	

 $l_4 \quad l_4$



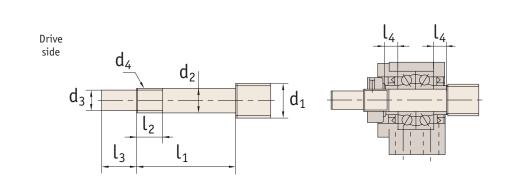
Part no.					Thread ø	Shaft support ø					For thr	ead	
FK	EK	AK	FKA	FKA LK		d₂		h ₇	l ₁	l ₃	d ₄	l ₂	l ₄
L1390.FK05	L1394.EK05	-	-	-	8	5	-0,008 5 -0,015		23	6	M5x0,5	7	3,5
L1390.FK06	L1394.EK06	-	-	-	8	6	-0,008 -0,015	4	28	8	M6x0,75	8	5,0
L1390.FK08	L1394.EK08	-	L1400.FKA08	L1402.LK08	10/12	8	-0,008 -0,015	6	32	9	M8x1,0	10	5,5
L1390.FK10	L1394.EK10	L1388.AK10	L1400.FKA10	L1402.LK08	12/14/15	10	-0,008 -0,015	8	35	15	M10x1,0	12	5,5
L1390.FK12	L1394.EK12	L1388.AK12	L1400.FKA12	L1402.LK08	14/15/16	12	-0,008 -0,015	10	35	15	M12x1,0	12	5,5
L1390.FK15	L1394.EK15	L1388.AK15	L1400.FKA15	L1402.LK08	18/20	15	-0,008 -0,017	12	48	20	M15x1,0	13	10,0
L1390.FK17	-	-	-	-	20/25	17	-0,008 -0,017	15	59	23	M17x1,0	17	10,0
L1390.FK20	L1394.EK20	L1388.AK20	L1400.FKA20	-	25/28/30	20	-0,008 -0,017	17	63	25	M20x1,0	15	11,0
L1390.FK25	-	-	-	-	30/32/36	25	-0,008 -0,017	20	76	30	M25x1,5	20	14,0
L1390.FK30	-	-	-	-	36/40	30	-0,008 -0,018	25	73	38	M30x1,5	25	9,0





Fixed side for unit type L1392.BK





Part sno.	Thread ø	Shaft support ø					Threa		
ВК	d_1	d ₂		d ₃	l ₁	l ₃	d ₄	l ₂	l ₄
L1392.BK10	12/14/15	-0,008 10 -0,015		8	36	15	M10x1,0	12	5,5
L1392.BK12	14/15/16	12	-0,008 -0,015	10	36	15	M12x1,0	12	5,5
L1392.BK15	18/20	15	-0,008 -0,017	12	40	20	M15x1,0	12	6,0
L1392.BK17	20/25	17	-0,008 -0,017	15	53	23	M17x1,0	17	7,0
L1392.BK20	25/28	20	-0,008 -0,017	17	53	25	M20x1,0	15	8,0
L1392.BK25	32/36	25	-0,008 -0,017	20	66	30	M25x1,5	20	9,0
L1392.BK30	36/40	30	-0,008 -0,018	25	73	38	M30x1,5	25	9,0
L1392.BK35	45	35	-0,008 -0,018	30	82	45	M35x1,5	26	12,0
L1392.BK40	50	40	-0,008 -0,018	35	94	50	M40x1,5	30	15,0

