


Keyless Sprockets / Sprockets 2-Rows

35B / 40B / 50B Series

Feature: The strength of shafts is not deteriorated as machining to shafts is not required. Positioning is easy.

Keyless Sprockets – 35B / 40B Series



Type	Sprockets		Bushing		
	Material	Surface Treatment	Material	Operating Temp.	
LFSP35B	LFSP40B	1045 Carbon Steel or Equivalent (Induction Hardened Teeth Tip)	Black Oxide	1045 Carbon Steel or Equivalent	-20~80°C
BLFSP35B	BLFSP40B				

Note on Installation

- Tighten the bushing screws after inserting the shaft. (Bushing may deform if the screws are tightened before inserting the shaft.)
- Use torque wrench to tighten screws.
- Do not use screws other than included.

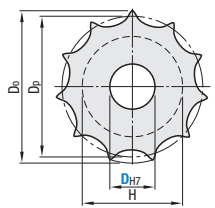
Installation

- (1) Wipe off the shaft surface and lightly apply oil or grease. (Do not use any oil or grease containing molybdenum type antifriction agent.)
- (2) Please completely wipe off sprocket and bushing contact surfaces also before lubricating with oil or grease. Please lubricate screw and seating surfaces in the same manner.
- (3) Subassemble sprocket and bushing before inserting into shaft. (Do not tighten the screws on the bushing before inserting into shaft.)
- (4) After locating, tighten the lock screws using a torque wrench in the diagonal line order, beginning lightly (approx. 1/4 of the predetermined tightening torque).
- (5) Tighten the screws further to an increased torque (approximately 1/2 specified torque).
- (6) Tighten with the predetermined tightening torque.
- (7) Finally, tighten the screws to the listed torque values in a circumferential order.

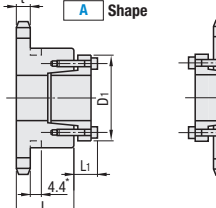
Removal

- Be sure the system is completely shut down before starting work.
- Loosen the tightening screws in circumferential order.
- Insert a screw in a screw hole for removal and tighten evenly.
- Repeat "Installation" process for re-installation.

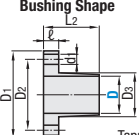
A Shape



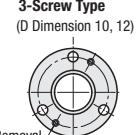
B Shape



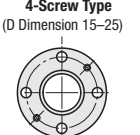
Bushing Shape



3-Screw Type
(D Dimension 10, 12)



4-Screw Type
(D Dimension 15~25)



Tapped Hole for Removal

35B Series For Chains, P.1514.

Part Number	Shaft Bore Dia. D _{H7}	Shape	Dp	Do	H	L	t
LFSP35B BLFSP35B	12	A	36.80	41	*30.5	20	4.3
	13		39.80	44	*32		
	14		42.81	47	32		
	15		45.81	51	35		
	16		48.82	54	37		
	18		54.85	60	44		
	20		60.89	66	50		

Sprockets with Number of Teeth 12 for A Shape only. Sprockets marked with * have grooves on hub O.D.

40B Series For Chains, P.1514.


Part Number	Shaft Bore Dia. D _{H7}	Shape	Dp	Do	H	L	t
LFSP40B BLFSP40B	12	A	49.07	55	*40	22	7.2
	13		53.07	59	37		
	14		57.07	63	42		
	15		61.08	67	46		
	16		65.10	71	50		
	17		69.12	76	54		
	18		73.14	80	57		
	19		77.16	84	62		
	20		81.18	88	67		
	25						

Sprockets marked with * have grooves on hub outer diameter.

Part Number Example: LFSP35B16 - 15 - A

Sprockets 2-Row

Keyless Sprockets – 40B / 50B Series



Type	Material
SP40SD	1045 Carbon Steel or Equivalent (Induction Hardened Teeth Tip)
SP50SD	

Note on Installation

- Tighten the bushing screws after inserting the shaft. (Bushing may deform if the screws are tightened before inserting the shaft.)
- Use torque wrench to tighten screws.
- Do not use screws other than included.

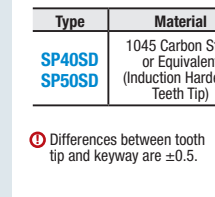
Installation

- (1) Wipe off the shaft surface and lightly apply oil or grease. (Do not use any oil or grease containing molybdenum type antifriction agent.)
- (2) Please completely wipe off sprocket and bushing contact surfaces also before lubricating with oil or grease. Please lubricate screw and seating surfaces in the same manner.
- (3) Subassemble sprocket and bushing before inserting into shaft. (Do not tighten the screws on the bushing before inserting into shaft.)
- (4) After locating, tighten the lock screws using a torque wrench in the diagonal line order, beginning lightly (approx. 1/4 of the predetermined tightening torque).
- (5) Tighten the screws further to an increased torque (approximately 1/2 specified torque).
- (6) Tighten with the predetermined tightening torque.
- (7) Finally, tighten the screws to the listed torque values in a circumferential order.

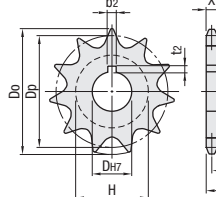
Removal

- Be sure the system is completely shut down before starting work.
- Loosen the tightening screws in circumferential order.
- Insert a screw in a screw hole for removal and tighten evenly.
- Repeat "Installation" process for re-installation.

S Shaft Bore Specs. (Pilot Bore)



N Shaft Bore Specs. (New JIS Key + Tap)



Differences between tooth tip and keyway are ±0.5.

40B Series For Chains, P.1514.

Part Number	No. of Teeth	Shaft Bore Specs.	Shaft Bore Dia.		Dp	Do	H	L	X	Y	Mass (kg)	Compliance with Standard		
			S Spec. D _{H8}	N Specification D _{H7}								S Spec.	N Spec. (In Stock)	N Spec. (Other than In Stock)
SP40SD	12	S	10	15* 18*	49.07	55	34	35	7.2	27.8	0.33	•	•	•
	13		13	18 20*	53.07	59	38					•	•	•
	14		13	18* 20*	57.07	63	42					•	•	•
	15		13	20* 25*	61.08	67	46					•	•	•
	16		13	20* 25	65.10	71	50					•	•	•
	17		13	25 28 30	69.12	76	54					•	•	•
	18		13	25* 28 30 35	73.14	80	59					•	•	•
	19		13	25* 28 30 35	77.16	84	63					•	•	•
	20		13	25* 28 30* 35	81.18	88	67					•	•	•
	21		13	25 28 30 35*	85.21	92	71					•	•	•

50B Series For Chains, P.1514.

Part Number	No. of Teeth	Shaft Bore Dia. N Specification D _{H7}	Dp	Do	Hub		X	Y	Mass (kg)	
					H	L				
SP50SD	12	18 20	61.34	69	43	40	8.7	31.3	0.63	
	13	20 25 28	66.34	74	48					0.75
	14	20 25 28 30	71.34	79	53					0.90
	15	20 25 28 30 35	76.35	84	58					1.04
	16	25 28 30 35 40	81.37	89	63					1.22
	17	25 28 30 35 40	86.39	94	68					1.41
	18	25 28 30 35 40	91.42	100	73					1.61
	19	25 28 30 35 40	96.45	105	79					1.80
	20	25 28 30 35 40	101.48	110	84					1.95
	21	28 30 35 40	106.51	115	89					2.27


Part Number Example: SP40SD16 - N - 20

Small Conveyor Sprockets / Small Conveyor Chains / Joint Links

Double Pitch Type

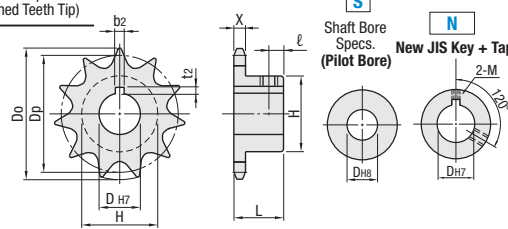
Feature: Flat plate allows workpiece to be put directly on plate for conveyance.

Small Conveyor Sprockets

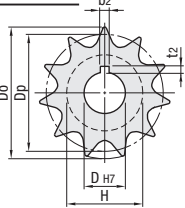


Type	Material
SP2040B	1045 Carbon Steel or Equivalent (Induction Hardened Teeth Tip)
SP2050B	

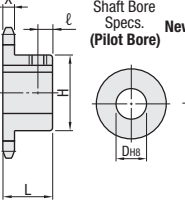
Accessories: Set Screw (Only for shaft bore specification [N])



S Shaft Bore Specs. (Pilot Bore)



N Shaft Bore Specs. (New JIS Key + Tap)




Differences between tooth tip and keyway are ±0.5.

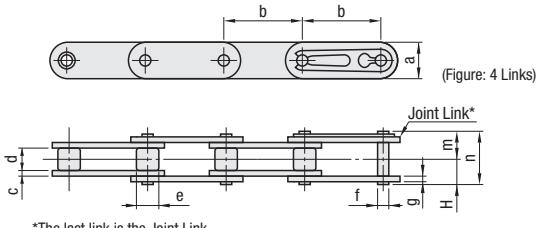
Part Number	Type	Allocated Tooth Quantity	Shaft Bore Dia. N Specification D _{H7}					No. of Operating Teeth	Dp	Do	Hub		X	ℓ	Mass (kg)
			20	25	30	35	H				L				
SP2040B		19	20	25	30	35	9	1/2	78.23	84	60	25	7.2	7	0.64
		21	20	25	30	35	10	1/2	86.17	92	69				0.93
		23	20	25	30	35	11	1/2	94.15	100	77				0.99
		25	20	25	30	35	12	1/2	102.14	108	63				1.06
SP2050B		19	20	25	30	35	9	1/2	97.78	105	73	28	8.7	8	1.10
		21	20	25	30	35	10	1/2	107.72	115					1.62
		23	20	25	30	35	11	1/2	117.68	125					1.74
		25	20	25	30	35	12	1/2	127.67	135					1.87

Part Number Example: SP2040B21 - N - 20

Small Conveyor Chains – Double Pitch Type



Type	Material
CHEW40	Steel
CHEW50	



(Figure: 4 Links)


*The last link is the Joint Link.

Part Number	No. of Links (Specify Even No.)	Max. Allowable Tension (kN)	1 Unit (No. of Links)									
			a	b	c	d	e	f	g	h	m	n
CHEW40	4+	2.75	11.7	25.4	1.5	7.95	7.95	3.97	1.5	8.02	9.53	17.55
CHEW50	4+	4.41	14.6	31.75	2	9.53	10.16	5.09	2	10.15	11.6	21.75

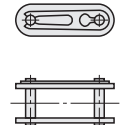
(1) Specify links by even numbers. (1 joint link included)
 (2) A roller chain longer than the unit length (number of unit links) is divided into separate packages per unit.
 Ex.) CHEW40-200, 2 separate packages: 120 links + 80 links
 (3) No cutting charge is required when 1 unit link is ordered.

Part Number Example: CHEW40 - 200

Joint Link



JNTWC



Material: Steel

Part Number	No.
JNTWC (Steel)	40
	50

Part Number Example: JNTWC40