

Keyless Sprockets


35B, 40B Series

Note that, for some of the types shown here, order might be unable to be received by the MISUMI Indonesia offices.

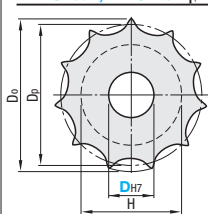
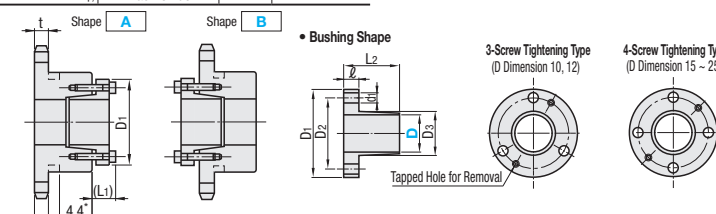
[S Type Roller] Double Pitch Chains, Sprockets, Joint Links

2040B, 2050B Series

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



Type	Sprockets		Bushings	
	Material	Surface Treatment	Material	Operating Temp.
LFSP35B, LFSP40B BLFSP35B, BLFSP40B	S45C Equivalent (Induction Hardened Teeth Tip)	Black Oxide	S45C	-20~80°C

• Bushing Shape

3-Screw Tightening Type (D Dimension 10, 12)

4-Screw Tightening Type (D Dimension 15 ~ 25)

Tapped Hole for Removal

RoHS 10

35B Series For Chains, see P.1535.

Part Number	Number of Teeth	Shaft Bore Dia. DH7	Shape	Dp	Do	H	L	t	Unit Price	
									LFSP35B	BLFSP35B
LFSP35B BLFSP35B	12	10	A	36.80	41	30.5	20	4.3		
	13	10		39.80	44	32				
	14	10 12		42.81	47	32				
	15	10 12	B	45.81	51	35				
	16	10 12 15 16		48.82	54	37				
	18	12 15 16 17		54.85	60	44				
	20	12 15 16 17 18 20 22		60.89	66	50				

For sprockets with 12 teeth, A Shape only. Sprockets marked with * have grooves on hub O.D.

40B Series For Chains, see P.1535.

Part Number	Number of Teeth	Shaft Bore Dia. DH7	Shape	Dp	Do	H	L	t	Unit Price	
									LFSP40B	BLFSP40B
LFSP40B BLFSP40B	12	12 15 16 17	A	49.07	55	40	22	7.2		
	13	12 15 16		53.07	59	37				
	14	12 15 16 17		57.07	63	42				
	15	12 15 16 17 18 20	B	61.08	67	46				
	16	15 16 17 18 20 22		65.10	71	50				
	17	15 16 17 18 20 22		69.12	76	54				
	18	15 16 17 18 20 22 25		73.14	80	57				
	19	15 16 17 18 20 22 25	77.16	84	62					
	20	15 16 17 18 20 22 25	81.18	88	67	25				

Sprockets marked with * have grooves on hub O.D.

Bushing Dimension/Performance Table

Shaft Bore Dia. D	D1	D2	D3	d1	(L-1)	L2	ℓ	Maximum Allowable Torque N·m {kgf·m}	Allowable Thrust Load kN {kgf}	Screws		Screw Tightening Torque N·m {kgf·m}	Tapped Hole for Removal
										Qty.	Size		
10	30	22	12	4.5	10.5	16.5	5	39 (4.0)	5.34 (545)	3	M4x16	4.0 (0.41)	M4x2
12	32	24	14	4.5	10.5	16.5		48 (4.9)					
15	36	28	17.6	12	22	6		78 (7.95)					
16	37	29	18.6	5.5	14	7	7	83 (8.5)	8.74 (895)	4	M5x20	8.3 (0.85)	M5x2
17	38	30	19.6					88 (9.0)					
18	43	33	20.6					154 (15.7)					
20	46	36	23.4					171 (17.4)					
22	48	38	24.6	186 (19.16)									
25	52	42	28.4	216 (21.8)									

Shaft tolerance g6 and shaft surface roughness Ra6.3 are standard.

When there is keyway machining or D cut on the installed shaft, transmitting torque is reduced by approximately 15% or more.

In the event that transmissible torque exceeds values in the above table, shaft could slip, resulting in serious danger. Make sure that it is used within the allowable torque range.



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 tightening screws other than included.



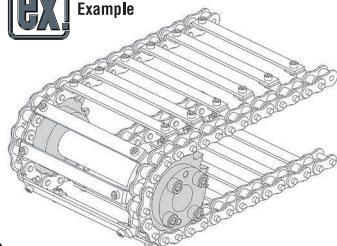
Ordering Example: Part Number - Number of Teeth - d
LFSP35B16 - 15 - A

Features

- When a keyway is added to a shaft, the position of teeth / keys is fixed. On such a shaft, however, by using Keyless Sprockets, the position of teeth can be adjusted freely and, thereby, phase matching is facilitated.



Example




Installation

- Wipe off the shaft surface and lightly apply oil or grease. (Do not use any oil or grease containing molybdenum type anti-friction agent.)
- Please completely wipe off sprockets and bushing contact surfaces also before lubricating with oil or grease. Please lubricate screw and seating surfaces in the same manner.
- Sub-assemble Sprockets and bushing before the shaft is inserted. (Do not tighten the screws on the bushing before inserting into shaft.)
- 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).
- Tighten the screws further to an increased torque (approximately 1/2 specified torque).
- Tighten with the predetermined tightening torque.
- Finally, tighten the screws to the listed torque values in a circumferential order.

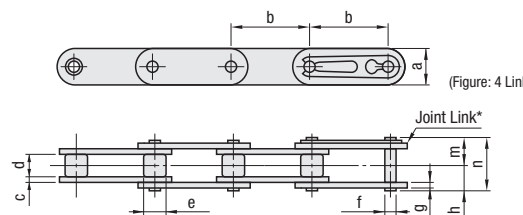
Removal

- 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.

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



Type	Material
CHEW40 CHEW50	Steel



(Figure: 4 Links)

* The last link is the Joint Link.

Part Number	Number of Links (Specify Even Number)	Max. Allowable Tension (kN)	1 Unit (Number of Links)	Unit Price	Cutting Charge
CHEW40	4~	2.75	120 (Circumference Length 3,048mm)		
CHEW50	4~	4.41	96 (Circumference Length 3,048mm)		

- Specify links by even numbers. The last link is the Joint Link.
- When the ordered number of links exceeds the given number of links per unit, the qty. of links per unit and the extra qty. of links are packaged separately. Ex.) For CHEW40-300, 3 separate packages: 120 links x 2 units + 60 links


Detailed Chain Dimension

Type	a	b	c	d	e	f	g	h	m	n
CHEW40	11.7	25.4	1.5	7.95	7.95	3.97	1.5	8.02	9.53	17.55
CHEW50	14.6	31.75	2	9.53	10.16	5.09	2	10.15	11.6	21.75



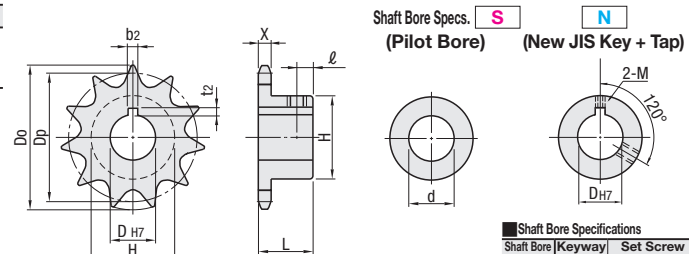
Ordering Example: Part Number - Number of Links
CHEW40 - 200

Double Pitch S Type Dedicated Sprocket



Type	Material
SP2040B SP2050B	S45C Equivalent (Induction Hardened Teeth Tip)

Accessory: Set Screw (Only for shaft bore specifications [N])



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

Offset between tooth tip and keyway is ±0.5mm.

Shaft Bore Dia. D	Keyway b x t x z	Set Screw M
20	6x2.8	6
25, 30	8x3.3	8
35	10x3.3	8

RoHS 10

For double pitch chain idlers, see P.1552.

Part Number	Type	Allocated Number of Teeth	Shaft Bore Specs.	Shaft Bore Dia. (Dhs)					Number of Operating Teeth	Dp	Do	Hub			ℓ	Mass (kg)	Unit Price		
				Specification (Dhs)	Specification (Dhs)	Specification (Dhs)	Specification (Dhs)	Specification (Dhs)				H	L	X			S Specification	N Spec. (In Stock)	N Spec. (Other than In Stock)
SP2040B	S	19	20*	25*	30	35	9	1/2	78.23	84	60	25	7.2	7	0.64				
				20	25	30	35	10	1/2	86.17	92				69	0.93			
	N	23	14	20	25	30	35	11	1/2	94.15	100	77	7.2	8	0.99				
															25	30	35	12	1/2
SP2050B	S	19	14	20	25*	30	35	9	1/2	97.78	105	73	28	8.7	1.1				
															21	20	25	30	35
	N	23	16	20	25	30	35	11	1/2	117.68	125	77	8.7	8	1.74				
															25	30	35	12	1/2



Ordering Example: Part Number - Shaft Bore Dia. - Shaft Bore Dia.
SP2040B21 - N - 20

Double Pitch S Type Dedicated Joint Link



JNTWC

RoHS 10

Material: Steel

Part Number	Unit Price	Volume Discount Rate
JNTWC (Steel)		
40		
50		



Ordering Example: Part Number
JNTWC40

For orders larger than indicated quantity, please request a quotation.