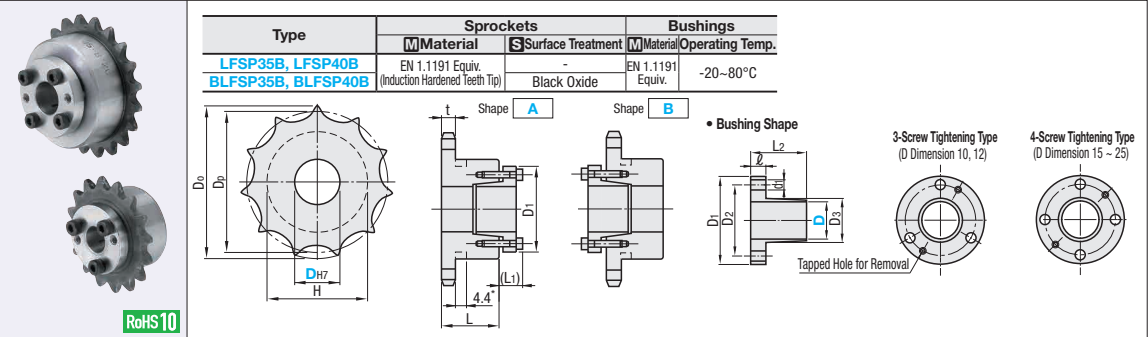


# Keyless Sprockets

35B, 40B Series

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



■ **35B Series** For Chains, see **P1535.**

Part Number		Shaft Bore Dia. DH7	Shape	Dp	Do	H	L	t	Unit Price	
Type	Number of Teeth								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 **P1535.**

Part Number		Shaft Bore Dia. DH7	Shape	Dp	Do	H	L	t	Unit Price	
Type	Number of Teeth								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				

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

## ■ Bushing Dimension/Performance Table

Shaft Bore Dia. D	D <sub>1</sub>	D <sub>2</sub>	D <sub>3</sub>	d <sub>1</sub>	(L <sub>1</sub> )	L <sub>2</sub>	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					48 (4.9)					
15	36	28	17.6					12		22	6		
16	37	29	18.6	13	23	7		83 (8.5)		4	M4x18		
17	38	30	19.6					88 (9.0)					
18	43	33	20.6	5.5	14	7		154 {15.7}	8.74 {895}	4	M5x20	8.3 (0.85)	M5x2
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.

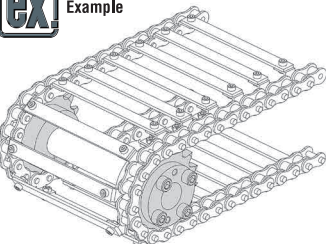


## ■ Features

• 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



## ■ 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.

## ■ Installation

- ① Wipe off the shaft surface and lightly apply oil or grease. (Do not use any oil or grease containing molybdenum type anti-friction agent.)
- ② 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.
- ③ Sub-assembly Sprockets and bushing before the shaft is inserted. (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.

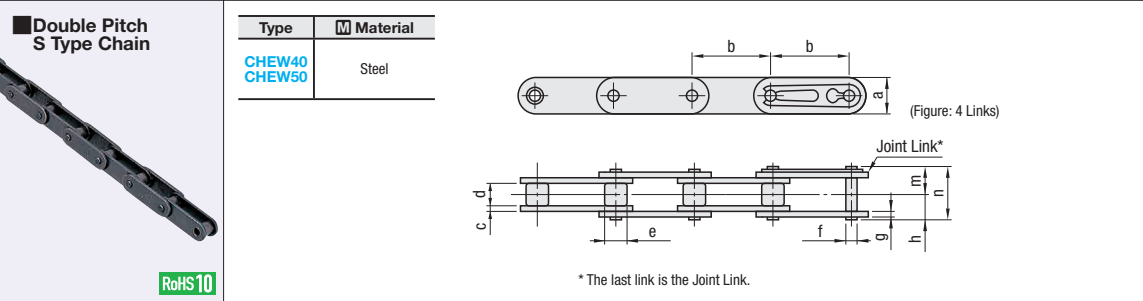


Ordering Example Part Number - Number of Teeth - d  
LFSP35B16 - 15 - A

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

2040B, 2050B Series

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



Part Number	Number of Links (Specify Even Number)	Max. Allowable Tension (kN)	1 Unit (Number of Links)	Unit Price	Cutting Charge
CHWE40	4~	2.75	120 (Circumference Length 3,048mm)		
CHWE50	4~	4.41	96 (Circumference Length 3,048mm)		

## ■ Detailed Chain Dimension

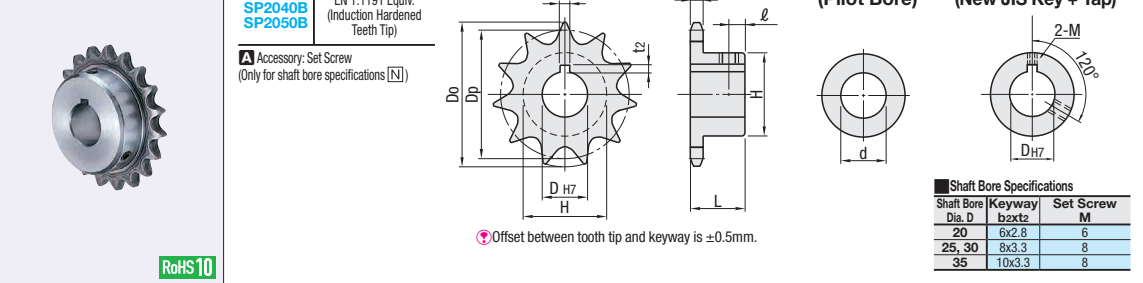
Type	a	b	c	d	e	f	g	h	m	n
CHWE40	11.7	25.4	1.5	7.95	7.95	3.97	1.5	8.02	9.53	17.55
CHWE50	14.6	31.75	2	9.53	10.16	5.09	2	10.15	11.6	21.75



Ordering Example Part Number - Number of Links  
CHWE40 - 200

- ① Specify links by even numbers. The last link is the Joint Link.
- ② 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 CHWE40-300, 3 separate packages: 120 links x 2 units + 60 links

## ■ Double Pitch S Type Dedicated Sprocket



Part Number		Shaft Bore Specs.	Shaft Bore Dia.					Number of Operating Teeth	Dp	Do	Hub		X	ℓ	Mass (kg)	Unit Price		
Type	Allocated Number of Teeth		S Specification (DHS)	N Specification (DH7)							H	L				S Specification	N Spec. (In Spec.)	N Spec. (Other than In Stock)
SP2040B	19	S	14	20*	25*	30	35	9	1/2	78.23	84	60	25	7.2	7	0.64		
	21		14	20	25	30	35	10	1/2	86.17	92	69				0.93	-	
	23	N	14	20	25	30	35	11	1/2	94.15	100	77				0.99	-	
	25		14	20*	25	30	35	12	1/2	102.14	108	63				1.06		
SP2050B	19	S	14	20	25*	30	35	9	1/2	97.78	105	73	28	8.7	8	1.1		
	21		14	20	25	30	35	10	1/2	107.72	115					1.62	-	
	23	N	16	20	25	30	35	11	1/2	117.68	125					1.74	-	
	25		16		25	30	35	12	1/2	127.67	135					1.87	-	



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

For double pitch chain idlers, see **P1552.**

## ■ Double Pitch S Type Dedicated Joint Link



Part Number		Unit Price	Volume Discount Rate
Type	No.	1 ~ 20 Link(s)	21 ~ 50 Links
JNTWC (Steel)	40		
	50		

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



Ordering Example Part Number  
JNTWC40