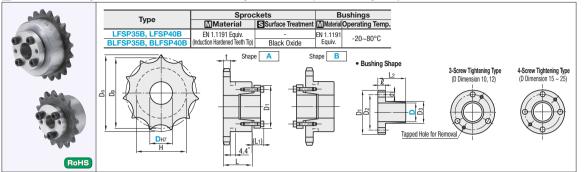
Keyless Sprockets

35B, 40B Series

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



35B Serie	35B Series For Chains, see 🗷 P.15									ee 🍱 P.1535.
Part Numl	oer	Shaft Bore Dia.	Shape	Dn	Do	н	L		Unit	Price
Туре	Number of Teeth	D н7	Snape	Dp	БО	П	_	١.	LFSP35B	BLFSP35B
	12	10		36.80	41	*30.5				
	13	10		39.80	44	*32				
LECDOED	14	10 12	Α	42.81	47	32				
LFSP35B BLFSP35B	15	10 12]	45.81	51	35	20	4.3		
DEI OF OOD	16	10 12 15 16	В	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 0.D.

40B Serie	■40B Series For Chains, see 🖙 P.15									
Part Numb	oer	Shaft Bore Dia, DH7	Ch	D	D-	н			Unit	Price
Туре	Number of Teeth	Snaπ Bore Dia. DH7	Shape	Dp	Do	п		t	LFSP40B	BLFSP40B
	12	12 15 16 17		49.07	55	*40				
	13	12 15 16		53.07	59	37				
	14	12 15 16 17		57.07	63	42				
I ECD40D	15	12 15 16 17 18 20	Α	61.08	67	46	22			
LFSP40B BLFSP40B	16	15 16 17 18 20 22]	65.10	71	50	22	7.2		
DEI OF 40D	17	15 16 17 18 20 22	В	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 0.D.

Bushing Dimension/Performance Table

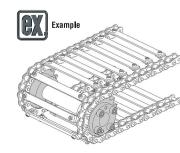
Shaft Bore	D ₁	D ₂	Dз	d1	(L ₁)	L2	e.	Maximum Allowable		Scr	ews	Screw Tightening	Tapped Hole
Dia. D	וט	D2	D3	u1	(L1)	L2	L L	Torque N·m {kgf·m}	Load kN (kgf)	Qty.	Size	Torque N·m {kgf·m}	for Removal
10	30	22	12	4.5	4.5 10.5 16.5 39 (4.0)		3	M4x16					
12	32	24	14	4.5	10.5	16.5	48 {4.9}			3	IVI4X16		
15	36	28	17.6	12	22	6		78 {7.95}	5.34 {545}			4.0 (0.41)	M4x2
16	37	29	18.6	13	23			83 {8.5}	(0.0)		M4x18		
17	38	30	19.6	13	23		5	88 {9.0}		4			
18	43	33	20.6			7		154 {15.7}				20 8.3 {0.85}	
20	46	36	23.4	5.5	14	_ ′		171 {17.4}	8.74		M5x20		M5x2
22	48	38	24.6	5.5	14			186 {19.16}	{895}		WISKZU		ZXGIVI
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.



• 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



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

Part Number

■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.

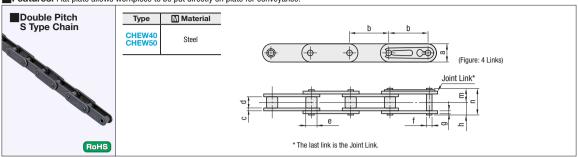
- $\widehat{\ \ }$)Wipe off the shaft surface and lightly apply oil or grease. (Do not use any oil or grease containing molybdenum type
- antifriction agent.) 2 Please completely wipe off sprockets and bushing contact surfaces also before lubricating with oil or grease. Please lubricate
- screw and seating surfaces in the same manner. (3) Sub-assemble Sprockets and husbing 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).
- ⑥Tighten with the predetermined tightening torque.
- 7) Finally, tighten the screws to the listed torque values in a

- •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 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
CHEW40	4~	2.75	120 (Circumference Length 3,048mm)		
CHEW50	4~	4.41	96 (Circumference Length 3 (M8mm)		

1) Specify links by even numbers. The last link is the Joint Link

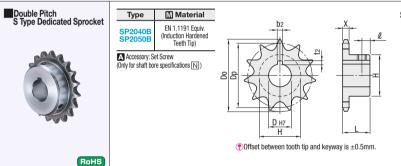
(2) When the ordered number of links exceeds the given number of links per unit, the qty, of links per unit and the extra qty, of links are packaged separately. Ex.) For CHEW40-300, 3 separate packages: 120 links x 2 units + 60 links

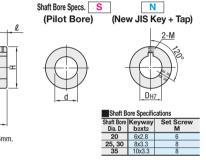
· Detailed Chain Dimension

Type	а	b	С	d	е	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







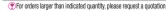


Part Numb	er	Shaft Bore	SI	naft B	ore Dia	۱.		Num	ber of			Hu	ıb			Mass		Unit Price		
Туре	Allocated Number of Teeth	Specs.	S Specification (DH8)	N	Spec (D	ificatio нт)	on		Operating Dp I Teeth		Do	н	L	Х	l	(kg)	S Specification	N Spec. (In Stock)	N Spec. (Other than In Stock)	
	19	s	14	20*	25*	30	35	9	1/2	78.23	84	60				0.64				
SP2040B	21	3	14	20	25	30	35	10	1/2	86.17	92	69	25	7.2	7	0.93		-		
3P2U4UB	23	NI.	14	20	25	30	35	11	1/2	94.15	100	77	20	1.2	1.2	'	0.99		-	
	25	IN	14	20*	25	30	35	12	1/2	102.14	108	63					1.06			
	19	s	14	20	25*	30	35	9	1/2	97.78	105			8.7 8		1.1				
SP2050B	21	3	14	20	25	30	35	10	1/2	107.72	115	73	20		0	1.62		-		
3F2U3UB	23	NI.	16	20	25	30	35	11	1/2	117.68	125	13	28		8.7 8	ď	1.74		-	
	25	IN	16		25	30	35	12	1/2	127.67	135					1.87		-		





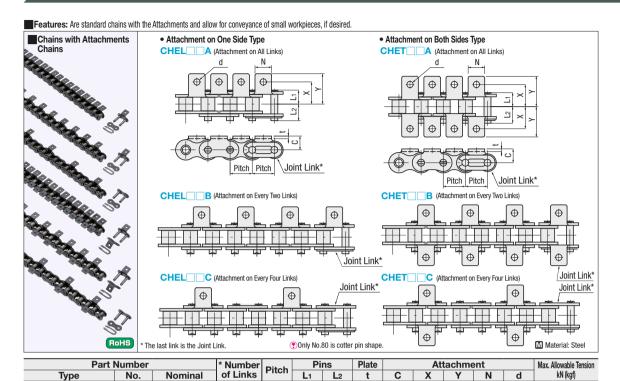
Part Numb	er	Unit Price	Volume Discount Rate					
Туре	No.	1 ~ 20 Link(s)	21 ~ 50 Links					
JNTWC	40							
(Steel)	50							





Chains with Attachments, Joint Links

40, 50, 60, 80 Series



80 4- 25.4 16.15 19.25 3.2 15.9 25.4 35.2 19.1 6.8 10.69 (1090)

* Use 2's multiples for "attachment on every link" and "attachment on every 2 links". Use 4's multiples for "attachment on every 4 links".

A (All Links)

B (Every Two Links)

C (Every Four Links)

50

60

			Unit	Price			
No.	Atta	chment on One Side	Туре	Attac	hment on Both Sides	Туре	Cutting
	CHEL A	CHEL B	CHEL C	CHET A	CHET B	CHET C	Charge
Specified Number of Links	Multiple of 2	Multiple of 2	Multiple of 4	Multiple of 2	Multiple of 2	Multiple of 4	
40							
50							1
60							1
80							1

15.875 10.17 11.63

19.05 12.7 14.2

8.07 9.48 1.5

CHEL (One Side Type)

CHET (Both Sides Type)

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 CHEL50A-300, 2 separate packages: 192 links x 1 unit + 108 links

7.9 12.7

2.4 11.9 19.05 27.2

2 10.3 15.9

17.4

22.3

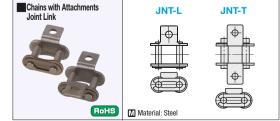
9.5 3.6 2.75 (280)

12.7 5.2 4.41 (450)

15.9 5.2



Part Num	ber	JNT-L	JNT-T
T	NI-	Unit Price	Unit Price
Type	No.	1 ~ 20 Links	1 ~ 20 Links
JNT-L	40		
(One Side Type)	50		
JNT-T	60		
(Both Sides Type)	80		

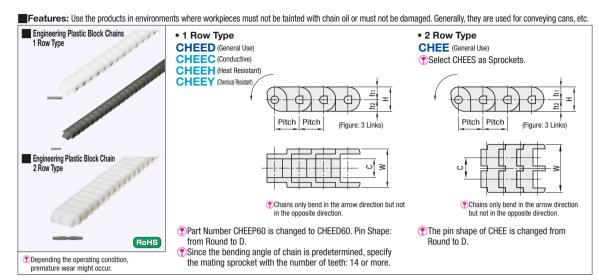


For orders larger than indicated quantity, please request a quotation

Ordering Part Number Example JNT-L40

Engineered Plastic Block Chains / Dedicated Sprockets

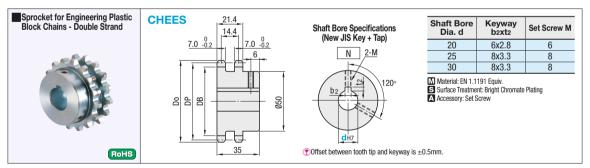
1 Row Type, 2 Row Type



Part Nu TYPE	mber	Number	Number	Usage	Color	Allowable	Allowable Chain	Coefficient of Sliding Friction	Reference Mass (kg/m)	Operating Temp.	Pitch	С	w	Н	h ₁	h ₂	Number of Links per Unit	Unit Price 1 Link Unit Price x Number of Links
TIFE		OI LIIIKS	ULLIONS				opcou (mirmin)	п.		(9							1	I DIN OUR FIRE Y MAILING OF DINS
CHEED	40			General	White	441	60	0.25	0.32	-5~65	12.7	7.95	20	12.7	6.7	6	240 (Circumference Length 3,048mm)	
CHEED	60			Use	Wille	882	00	0.23	0.72	-5~05	19.05	12.7	30	17.3	8.8	8.5	160 (Circumference Length 3,048mm)	
CHEEC		4~	Single	Conductive	Black	340	60	0.25	0.36	-20~80	12.7	7.95	20	12.7	6.7	6	240 (Circumference Length 3,048mm)	
CHEEH	40	4~		Heat Resistant	Black	440	100	0.25	0.36	-20~150	12.7	7.95	20	12.7	6.7	6	240 (Circumference Length 3,048mm)	
CHEEY	40			Chemical Resistant	White	250	60	0.25	0.36	-20~80	12.7	7.95	20	12.7	6.7	6	240 (Circumference Length 3,048mm)	
CHE	E	1	2 Rows	General Use	White	1270	60	0.25	0.55	-5~65	12.7	14.4	32	12.7	6.4	6.3	240 (Circumference Length 3.048mm)	

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 CHEE-300, 2 separate packages: 240 links x 1 unit + 60 links





Part Nun	nber	Do	Dp	Root	INumber	Reference Mass	Unit Price	
Туре	dH7		Ър	Dia. DB	of Teeth	(kg)	OIIILFIICE	E
	20							
CHEES	25	68	65 1	57 15	16	0.6		



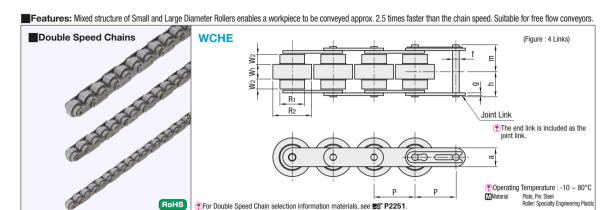
Resistance Against Chemicals and Oils										
	Spec. for General Use / Conductive Type	Spec. for Chemical Resistant Type								
Chemical Name	CHEED	CHEEY								
Acetone	0	×								
Oil (Vegetable, Mineral)	0	0								
Alcohol	0	0								
Ammonia Water	0	0								
Sodium Chloride	0	0								
Hydrochloric Acid (2%)	×	×								
Seawater	Δ	Δ								
Oxygenated Water	×	0								
Sorium Hydroxide (Sorium Hydroxide (25%)	0	0								

	Spec. for General Use / Conductive Type	Spec. for Chemical Resistant Type
Chemical Name	CHEED	CHEEY
Chromic Acid	×	Δ
Acetic Acid	×	0
Carbon Tetrachloride	0	0
odium Hypochlorite	×	×
litric Acid (5%)	×	0
otassium Hydrate	0	0
Soap Solution	0	0
actic Acid	0	0
Paraffin	0	0
Benzene	0	0
odine	×	×
Sulfuric Acid	×	×
Phosphoric Acid (10%)	×	\triangle

Resistance Against Foods										
		Spec. for Chemical Resistant Type								
Chemical Name	CHEED CHEEC	CHEEY								
Whiskey	0	0								
Milk	0	0								
Vinegar	Δ	Δ								
Soft Drinks	0	0								
Beer	0	0								
Fruit Juice	0	0								
Water	0	0								
Vegetable Juice	0	0								
Wine	0	0								

• CHEEH is intended for use in dry environments and cannot be used in wet environments where water is splashed.

Double Speed Chains & Sprockets / Aluminum Extrusions / Return Guides



Part Number Number of Links Specification		Pitch		Ro	ler		Plate Pins			Max. Allowable Tension	Speed	ApproxMass	Unit Number			
Туре	Nominal	(Specify Even Number)	Р	R ₁	R ₂	W ₁	W ₂	а	g	f	h	m	(kN)	Multiplier	kg/m	of Links
(Chain)	3	4~550	19.05	11.91	18.3	7.0	4.1	8.8	1.2	3.28	11.2	12.95	0.55	2.54	0.4	160 (Circumference Length 3,048mm)
(Chain) WCHE	4	4~410	25.40	15.88	24.6	9.0	6.0	11.7	1.5	3.97	15.2	16.75	0.88	2.55	0.8	120 (Circumference Length 3,048mm)
WOILE	-5	4~350	31 75	19 05	30.0	11 4	7.0	14.6	2.0	5.08	19 45	20.90	1.37	2.57	1.3	96 (Circumference Length 3.048mm)

Part Nun		Unit Price 1 ~ 2 pc(s). Cutting	
Type	Nominal	Number of Links less than 1 Unit Number of Links 1 Unit or More (+ Unit	Price)
(Chain) WCHE	3	120 x Number of Links 100 x Number of Links	
	4	120 x Number of Links 100 x Number of Links	
	5	150 v Number of Linke 130 v Number of Linke	

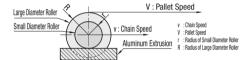
No cutting charge when placing orders by Unit Number of Links.







■Principle of the Double Speed Chains



• kgf=Nx0.101972

When a chain runs at v speed, circumferential velocity of the small diameter roller is v At this time circumferential velocity of the large diameter roller becomes (R/r) • v due to ratio

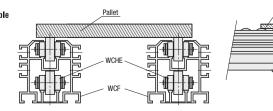
Therefore, Pallet Speed V becomes a value that chain speed V and (R/r) • v are combined.

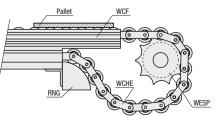
Since the ratio of radius of the large diameter roller and the small diameter roller is

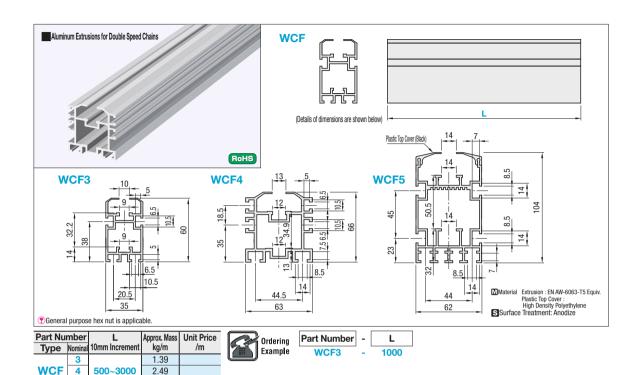
■Double Speed Sprockets	WESP	- -	Shaft Bore Specs. S (Pilot Bore)	Shaft Bore Specs. H (Round Bore	
		88	DH8	DH7	2-M DH7
	<u>DH7</u>	A L	Shaft Bore Dia. D Keyway Hole b2xt2	Set Screw M	For Nominal 3 - 9 teeth, Set Screw is M5.
4 4 4	 		15 5x2.3 20 6x2.8		MMaterial: EN 1.1191 Equiv.
RoHS			25·30 8x3.3	8	AAccessory: Set Screw Only for shaft bore specification N)

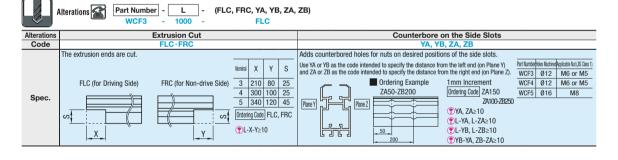
Part Number		Number	Shaft Bore Dia.			Dp Do	т	ш		0		Unit Price 1 ~ 10 pc(s).				
Туре	Nominal	of Teeth	S Specification (DH8)	H Specification (D _{H7})	N Specification (Dн7)	ър	DO	•		-	·	Α	Shaft Bore Spec. S	Shaft Bore Spec. H	Shaft Bore Specification N	
(Sprocket) 3	2	9	14	15 20	15 20	55.70	63	3	33	22	4	15.3				
	3	3	3	10	14	15 20	15 20	61.65	68	3	37	25	5	15.3		
WESP	4	10	19	20 25	20 25	82.20	93	4	52	40	8	21.5				
	5	10	24	25 30	25 30	102.75	117	5	66	45	9	27.0				

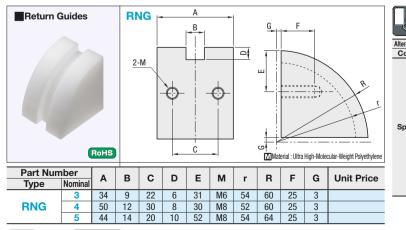




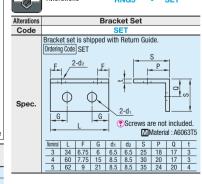








3.17



Part Number -

(SET)

