

- Please use it for linkage of the roller chain with a machine or device.
- For linkage with a roller chain, a roller chain joint link or offset link is required.

● Material/Finish RoHS Compliant

	<b>SRF</b> Made of Steel	<b>SRFS</b> Made of Stainless Steel
Main body	S45C (hardness: 35 - 45 HRC) Ferroferric Oxide Film (Black)	SUS303

**⚠ Precautions for Use**

- If a roller chain nut is used for a suspension device, implement safety measures to keep people off from beneath the device.
- Roller chain nuts are consumables. Regular inspection and replacement are necessary.
- The max. loads indicated in the dimension table are tensile values.

Unit : mm

Part Number Steel	Max. load (N)	Part Number Stainless steel	Max. load (N)	Applicable Roller Chain Nominal Number	M (Coarse)	Lf	L	F	d	B <sub>1</sub>	B <sub>2</sub>	Mass (g)
<b>SRF-35</b>	1960	<b>SRFS-35</b>	1570	35	M6	10	24	4.5	3.7	7.4	10	12
<b>SRF-40</b>	3530	<b>SRFS-40</b>	2840	40	M8	14	30	6	4	11.2	13	25
<b>SRF-50</b>	5680	<b>SRFS-50</b>	4510	50	M10	15	38	7.5	5.2	13.8	17	54
<b>SRF-60</b>	8230	<b>SRFS-60</b>	6570	60	M12	18	42	9	6	17.8	19	75
<b>SRF-80</b>	15400	<b>SRFS-80</b>	12300	80	M16	20	52	12	8	22.6	24	148
<b>SRF-100</b>	23900			100	M20	25	65	15	9.6	27.5	30	292

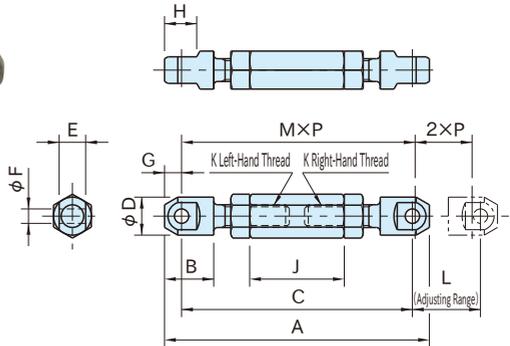
- Part number specification

**SRFS-35**



Cleanroom Wash & Packaging → P.792	Screw Length Adjustment → P.796	Vibration Resistant → P.795	Laser Marking → P.806
S.S. only/ Add'l charge	Not Available	Not Available	Not Available

# CBD1 CHAIN BOLTS, Double-End



Bolt	Long Hex. Nut	Nut
Steel (SCM435) Black oxide finish Heat treated to Rc33-39	Steel (S45C) Black oxide finish Heat treated to Rc33-39	Steel

Part Number	Chain No.	A	B	C	D	E	F	G	H	J
<b>CBD1- 25</b>	25	74	10	68	7	4.8	2.4	3	6.5	40
<b>CBD1- 35</b>	35	94	15	85	10	7.4	3.7	4.5	10.5	45
<b>CBD1- 40</b>	40	124	20	112	14	11.2	4	6	13	60
<b>CBD1- 50</b>	50	154	25	139	17	13.8	5.2	7.5	16.5	75
<b>CBD1- 60</b>	60	183	30	165	21	17.8	6	9	19.5	90
<b>CBD1- 80</b>	80	244	40	220	27	22.6	8	12	26	120
<b>CBD1-100</b>	100	304	50	274	33	27.5	9.6	15	32	150

Part Number	K	L	M	P	Weight (g)
<b>CBD1- 25</b>	M 5×0.8	16	9	6.35	25
<b>CBD1- 35</b>	M 6×1	24		9.525	50
<b>CBD1- 40</b>	M 8×1.25	32		12.7	120
<b>CBD1- 50</b>	M10×1.5	42		15.875	250
<b>CBD1- 60</b>	M12×1.75	52		19.05	405
<b>CBD1- 80</b>	M16×2	68		25.4	885
<b>CBD1-100</b>	M20×2.5	80		31.75	1,850

- Allows adjusting chain tension.
- Ensure that nobody stands under a lifting device where chain bolts are used.
- When Chain Bolts or chains are broken and serious damage is consequently conceivable, set a safety device to avoid danger.
- Chain Bolts must be inspected periodically and be replaced if necessary.

# CBD2

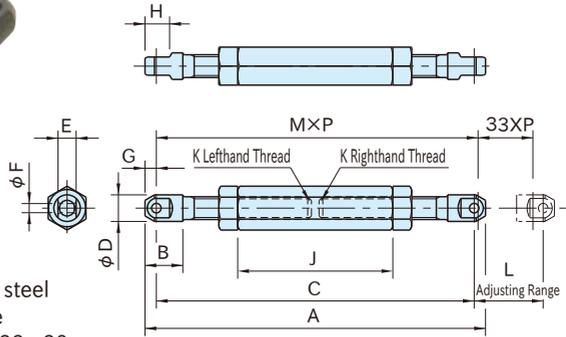
# CHAIN BOLTS, DOUBLE-END



[Bolt]  
 Material : SCM435 steel  
 Finish : Black oxide  
 Heat treated to Rc 33 - 39

[Long Hex Nut]  
 Material : S45C steel  
 Finish : Black oxide  
 Heat treated to Rc 33 - 39

[Nut]  
 Material : Steel



Part Number	Chain No.	A	B	C	D	E	F	G	H	J
<b>CBD2- 25</b>	25	98	10	92	7	4.8	2.4	3	6.5	45
<b>CBD2- 35</b>	35	141	15	132	10	7.4	3.7	4.5	10.5	60
<b>CBD2- 40</b>	40	185	20	173	14	11.2	4	6	13	75
<b>CBD2- 50</b>	50	228	25	213	17	13.8	5.2	7.5	16.5	90
<b>CBD2- 60</b>	60	276	30	258	21	17.8	6	9	19.5	120
<b>CBD2- 80</b>	80	364	40	340	27	22.6	8	12	26	150
<b>CBD2-100</b>	100	454	50	424	33	27.5	9.6	15	32	200

Part Number	K	L	M	P	Weight (g)
<b>CBD2- 25</b>	M 6x1	25	15	6.35	40
<b>CBD2- 35</b>	M 8x1.25	33	14	9.525	100
<b>CBD2- 40</b>	M10x1.5	40		12.7	220
<b>CBD2- 50</b>	M12x1.75	50		15.875	370
<b>CBD2- 60</b>	M16x2	68		19.05	760
<b>CBD2- 80</b>	M20x2.5	86		25.4	1,490
<b>CBD2-100</b>	M24x3	118		31.75	2,900

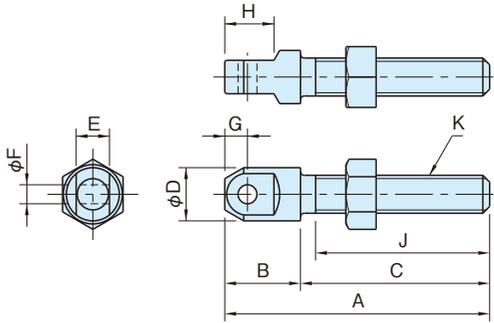
### Features:

Allows adjusting chain tension.  
 Provides wider adjusting range.

### Notes:

Ensure that nobody stands under a lifting device where Chain Bolts are used.  
 When Chain Bolts or chains are broken and serious damage is consequently conceivable, set a safety device to avoid danger.  
 Chain Bolts must be inspected periodically and be replaced if necessary.

# CBS1 CHAIN BOLTS, Single-End

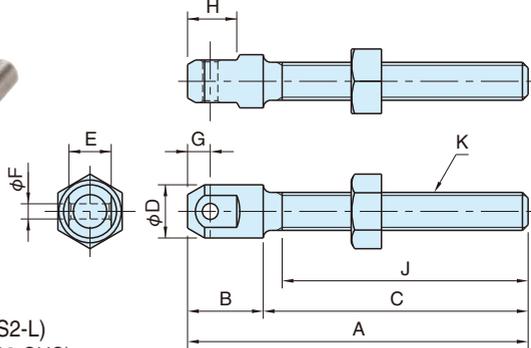


Type	Bolt	Nut
<b>CBS1</b>	Steel (SCM435) Black oxide finish	Steel
<b>CBS1-L</b>	Heat treated to Rc33-39	
<b>CBS1-SUS</b>	Stainless steel (SUS304)	Stainless steel

Type / Size	Chain No.	A	B	C	D	E	F	G	H	J	K	Weight (g)	
<b>CBS1</b>	<b>25</b>	25	35	10	25	7	4.8	2.4	3	6.5	23	M 5×0.8	6
	<b>35</b>	35	45	15	30	10	7.4	3.7	4.5	10.5	27	M 6×1	15
<b>CBS1-L</b>	<b>40</b>	40	60	20	40	14	11.2	4	6	13	36	M 8×1.25	37
<b>CBS1-L</b>	<b>50</b>	50	75	25	50	17	13.8	5.2	7.5	16.5	45	M10×1.5	72
<b>CBS1-SUS</b>	<b>60</b>	60	90	30	60	21	17.8	6	9	19.5	55	M12×1.75	127
	<b>80</b>	80	120	40	80	27	22.6	8	12	26	74	M16×2	288
	<b>100</b>	100	150	50	100	33	27.5	9.6	15	32	92	M20×2.5	650

Steel				Stainless Steel	
Right-Hand Thread		Left-Hand Thread		Right-Hand Thread	
Part Number	Load Capacity (N)	Part Number	Load Capacity (N)	Part Number	Load Capacity (N)
<b>CBS1- 25</b>	950	<b>CBS1- 25-L</b>	950	<b>CBS1- 25-SUS</b>	530
<b>CBS1- 35</b>	2000	<b>CBS1- 35-L</b>	2000	<b>CBS1- 35-SUS</b>	1100
<b>CBS1- 40</b>	4100	<b>CBS1- 40-L</b>	4100	<b>CBS1- 40-SUS</b>	2200
<b>CBS1- 50</b>	6500	<b>CBS1- 50-L</b>	6500	<b>CBS1- 50-SUS</b>	3600
<b>CBS1- 60</b>	9500	<b>CBS1- 60-L</b>	9500	<b>CBS1- 60-SUS</b>	5300
<b>CBS1- 80</b>	17400	<b>CBS1- 80-L</b>	17400	<b>CBS1- 80-SUS</b>	9700
<b>CBS1-100</b>	26400	<b>CBS1-100-L</b>	26400	<b>CBS1-100-SUS</b>	14700

- Stainless steel Chain Bolts are available in right-hand thread only.
- Ensure that nobody stands under a lifting device where chain bolts are used.
- When Chain Bolts or chains are broken and serious damage is consequently conceivable, set a safety device to avoid danger.
- Chain Bolts must be inspected periodically and be replaced if necessary.
- The stated load capacity applies to tensile loads only.

**CBS2****CHAIN BOLTS, SINGLE-END****ROHS** **SUS**

[Bolt]

Material : SCM435 steel (CBS2 & CBS2-L)  
SU304 Stainless steel (CBS2-SUS)

Finish : Black oxide (CBS2 &amp; CBS2-L)

Heat treated to Rc 33 - 39 (CBS2 &amp; CBS2-L)

[Nut]

Material : Steel (CBS2 & CBS2-L)  
Stainless steel (CBS2-SUS)

Type / Size	Chain No.	A	B	C	D	E	F	G	H	J	K	Weight (g)
CBS2 CBS2-L CBS2-SUS	25	25	48	10	38	7	4.8	2.4	3	6.5	M 6x1	10
	35	35	69	15	54	10	7.4	3.7	4.5	10.5	M 8x1.25	27
	40	40	90	20	70	14	11.2	4	6	13	M10x1.5	56
	50	50	112	25	87	17	13.8	5.2	7.5	16.5	M12x1.75	110
	60	60	136	30	106	21	17.8	6	9	19.5	M16x2	224
	80	80	180	40	140	27	22.6	8	12	26	M20x2.5	472
100	100	222	50	172	33	27.5	9.6	15	32	163	M24x3	955

Steel				Stainless Steel	
Righthand Thread		Lefthand Thread		Righthand Thread	
Part Number	Load Capacity (N)	Part Number	Load Capacity (N)	Part Number	Load Capacity (N)
CBS2- 25	950	CBS2- 25-L	950	CBS2- 25-SUS	530
CBS2- 35	2,000	CBS2- 35-L	2,000	CBS2- 35-SUS	1,100
CBS2- 40	4,100	CBS2- 40-L	4,100	CBS2- 40-SUS	2,200
CBS2- 50	6,500	CBS2- 50-L	6,500	CBS2- 50-SUS	3,600
CBS2- 60	9,500	CBS2- 60-L	9,500	CBS2- 60-SUS	5,300
CBS2- 80	17,400	CBS2- 80-L	17,400	CBS2- 80-SUS	9,700
CBS2- 100	26,400	CBS2- 100-L	26,400	CBS2-100-SUS	14,700

**Feature:**

Provides wider adjusting range.

**Notes:**

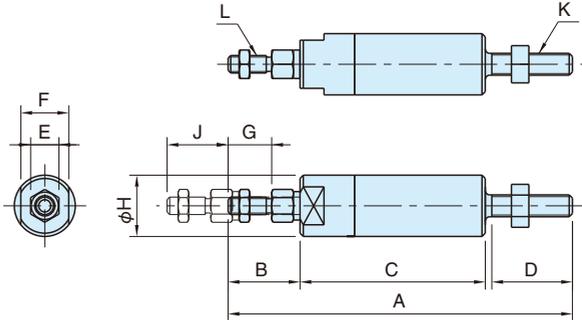
Stainless-steel version is available only with righthand thread.

Ensure that nobody stands under a lifting device where Chain Bolts are used.

When Chain Bolts or chains are broken and serious damage is consequently conceivable, set a safety device to avoid danger.

Chain Bolts must be inspected periodically and be replaced if necessary.

The stated load capacity applies only to tensile loads.

**CBS3****CHAIN BOLTS, DOUBLE-END****NEW** **ROHS**

[Body]

Material : S45C steel

Finish : Black oxide

Heat treated to Rc33 - 39

[Nut]

Material : Steel

Part Number	A	B	C	D	E	F	G	H	J
<b>CBS3-1008</b>	158	33	85	37	13	22	20	28	28
<b>CBS3-1010</b>	168	43			17		24		
<b>CBS3-1612</b>	251	56	135	55	22	36	33	42	42
<b>CBS3-1616</b>	262	67			27		40		45

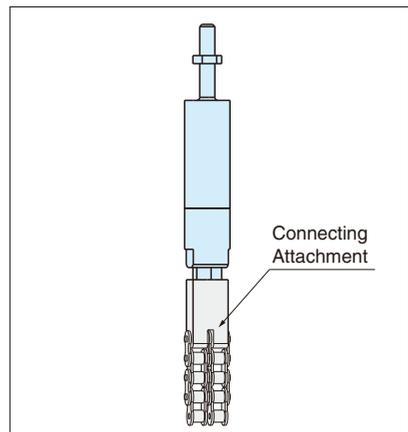
Part Number	K	L	Tension	Weight (g)
<b>CBS3-1008</b>	M10x1.5	M 8x1.25	10- 40N	355
<b>CBS3-1010</b>		M10x1.5	20- 80N	400
<b>CBS3-1612</b>	M16x2	M12x1.75	40-150N	1330
<b>CBS3-1616</b>		M16x2	50-200N	1510

**Features:**

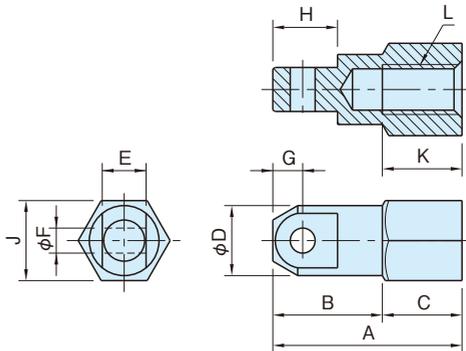
Built-in spring works to eliminate the slack of chain and prevent the chain from skipping teeth of the sprocket gear. Both threaded ends accept connecting attachments (connecting attachments are prepared by you).

**Notes:**

Ensure that nobody stands under a lifting device where Chain Bolts are used. When Chain Bolts or chains are broken and serious damage is consequently conceivable, set a safety device to avoid danger. Chain Bolts must be inspected periodically and be replaced if necessary.



# CNS1 CHAIN NUTS



Body
Steel (S45C)
Black oxide finish
Heat treated to Rc33-39

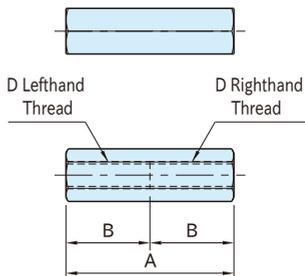
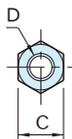
Part Number	Chain No.	A	B	C	D	E	F	G	H
<b>CNS1- 25</b>	25	19	11	8	7	4.8	2.4	3	6.5
<b>CNS1- 35</b>	35	24.5	14.5	10	10	7.4	3.7	4.5	10.5
<b>CNS1- 40</b>	40	31	18	13	14	11.2	4	6	13
<b>CNS1- 50</b>	50	38.5	23.5	15	17	13.8	5.2	7.5	16.5
<b>CNS1- 60</b>	60	44	26	18	21	17.8	6	9	19.5
<b>CNS1- 80</b>	80	54	34	20	27	22.6	8	12	26
<b>CNS1-100</b>	100	67	42	25	33	27.5	9.6	15	32

Part Number	J	K	L	Load Capacity (N)	Weight (g)
<b>CNS1- 25</b>	8	8	M 5×0.8	700	5
<b>CNS1- 35</b>	10	10	M 6×1	1450	10
<b>CNS1- 40</b>	14	13	M 8×1.25	3000	30
<b>CNS1- 50</b>	17	15	M10×1.5	4800	50
<b>CNS1- 60</b>	22	18	M12×1.75	7000	95
<b>CNS1- 80</b>	27	20	M16×2	12800	180
<b>CNS1-100</b>	36	25	M20×2.5	19500	370

- Ensure that nobody stands under a lifting device where chain bolts are used.
- When Chain Bolts or chains are broken and serious damage is consequently conceivable, set a safety device to avoid danger.
- Chain Bolts must be inspected periodically and be replaced if necessary.
- The stated load capacity applies to tensile loads only.

# LHN1

# LONG HEX NUTS



Material : S45C steel  
Finish : Black oxide  
Heat treated to Rc33 - 39

Part Number	A	B	C	D	Weight (g)
<b>LHN1- 25</b>	40	20	8	M 5x0.8	12
<b>LHN1- 35</b>	45	22.5	10	M 6x1	20
<b>LHN1- 40</b>	60	30	13	M 8x1.25	46
<b>LHN1- 50</b>	75	37.5	17	M10x1.5	105
<b>LHN1- 60</b>	90	45	19	M12x1.75	150
<b>LHN1- 80</b>	120	60	24	M16x2	310
<b>LHN1-100</b>	150	75	30	M20x2.5	550
<b>LHN1-120</b>	200	100	36	M24x3	1,000

# TBS1

# TURN BUCKLES

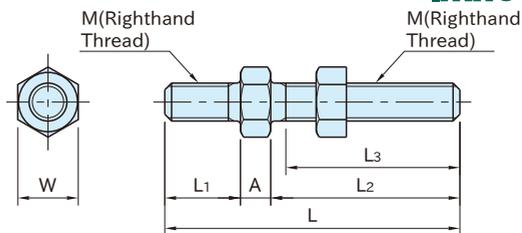


**TBS1**

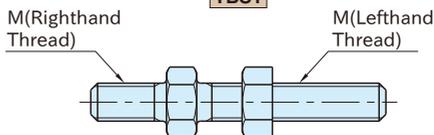
Righthand Thread

**TBS1-L**

Lefthand Thread



**TBS1**



**TBS1-L**

Bolt	Hex Nut
Steel(S45C) Black oxide finish Heat treated to Rc33 - 39	Steel

Righthand Thread	Lefthand Thread	M	L <sub>1</sub>	L <sub>3</sub>	W	L	L <sub>2</sub>	A	Weight (g)
Part Number	Part Number								
<b>TBS1-M 5</b>	<b>TBS1-M 5-L</b>	M 5×0.8	10	23	8	39	25	4	7
<b>TBS1-M 6</b>	<b>TBS1-M 6-L</b>	M 6×1	12	27	10	47	30	5	13
<b>TBS1-M 8</b>	<b>TBS1-M 8-L</b>	M 8×1.25	16	36	13	62.5	40	6.5	30
<b>TBS1-M10</b>	<b>TBS1-M10-L</b>	M10×1.5	20	45	17	78	50	8	60
<b>TBS1-M12</b>	<b>TBS1-M12-L</b>	M12×1.75	24	55	19	94	60	10	100
<b>TBS1-M16</b>	<b>TBS1-M16-L</b>	M16×2	32	74	24	125	80	13	225
<b>TBS1-M20</b>	<b>TBS1-M20-L</b>	M20×2.5	40	92	30	156	100	16	440

## How To Use

Use to adjust the position of slides or rod ends.

# Turnbuckles

Standard / Long / Threaded

■ **Features:** By coupling this turn buckle with the end of a chain, tension can be adjusted or a workpiece can be hung.

Type			Parts	Material	Surface Treatment	Hardness
Standard	Long	Threaded				
STRT	LSTRT	STBT	Joint Mount Clevis Nut	SUM22L S45C SS400	Black Oxide	- 35-40HRC
STRTS	-	-	Joint Mount Clevis Nut	SUS303 Equivalent SUS304 Equivalent	-	-

• Standard  
• Long

• Threaded

RoHS

Part Number	Type	Applicable Roller Chain Nominal	Lmin	Pmin	A	B1	B2	C	L1	D	Mass (g)	Unit Price	
												STRT	STRTS
11		40	36.4	4	2.4	5	1.8	20	1.7	6.6	-	-	
15		46	41.6	5	3.4	6	2.2	22	1.7	9.6	-	-	
*25		62	56	7.5	4.8	7	3	33	2.4	18	-	-	
*35		85	76	10	7.4	10	4.5	43	3.7	44	-	-	
*40		110	98	13	11.2	13	6	55	4	105	-	-	
*50		135	120	16	13.8	17	7.5	67	5.2	215	-	-	
60		161	143	20	17.8	19	9	81	6	330	-	-	
80		201	177	21	22.6	24	12	95	8	680	-	-	

STRTS is available for sizes marked with \* only.

Part Number	Type	Applicable Roller Chain Nominal	Lmin	Pmin	A	B1	B2	C	L1	D	Mass (g)	Unit Price	
												LSTRT	STRT
25		102.6	96.6	22.4	4.8	7	3	69	2.4	57	-	-	
35		143	134	33	7.4	10	4.5	95	3.7	134	-	-	
40		175	163	39	11.2	13	6	115	4	283	-	-	
50		200	185	40	13.8	17	7.5	126	5.2	411	-	-	
60		275	257	66	17.8	19	9	185	6	918	-	-	
80		341	317	80	22.6	24	12	225	8	1741	-	-	

Part Number	Type	M (Coarse)	Lmin	E	A	L1	Mass (g)	Unit Price
4	64	8	7.5	33	16	-		
6	89	12	10	43	40	-		
8	116	16	13	55	115	-		
10	143	20	16	67	185	-		
12	171	24	20	81	290	-		
16	217	32	21	95	600	-		

Ordering Example  
Part Number  
STRT40

**Example**

For adjusting tension for a chain for repetitive motion rather than in rotary motion. • Refer to P.1562 for ordering turnbuckle parts in single unit.

For being used as the mechanism intended to open/close a door hung up.

(Left handed thread) SRC-L, SRC-L, SRC-L  
(Right handed thread) SRC-R, SRC-R, SRC-R

(Left handed thread) HSB-L  
(Right handed thread) HSB-R

# Turnbuckle Components

■ **Features:** Turnbuckle Components can be purchased as separate items.

Type			Parts	Material	Surface Treatment	Hardness
Standard	Long	Threaded				
SRC-R	SRC-L	LSRC-R	Main Body Nut	S45C SS400	Black Oxide	35-40HRC
SRCS-R	SRCS-L	-	Main Body Nut	SUS303 Equivalent SUS304 Equivalent	-	-

RoHS

Part Number	Type	Applicable Roller Chain Nominal	M (Coarse)	L1	L2	L	C	D	B1	B2	H	Max. Load (kN)		Mass (g)	Unit Price	
												SRC-R, L	SRCS-R, L		SRC-R, L	SRCS-R, L
15		3	10	12	20.6	2.2	1.7	3.4	6	1.8	0.44	-	2.8	-	-	
*25		4	16.5	18	28.2	3	2.4	4.8	7	2.4	0.78	0.68	5	-	-	
*35		6	23.5	25	40	4.5	3.7	7.4	10	3.6	1.96	1.57	12	-	-	
*40		8	31	33	52.5	6	4	11.2	13	5	3.53	2.84	30	-	-	
*50		10	39	41	65	7.5	5.2	13.8	17	6	5.68	4.51	60	-	-	
60		12	47	49	78	9	6	17.8	19	7	8.23	6.57	100	-	-	
80		16	57	60	98	12	8	22.6	24	10	15.4	12.3	210	-	-	

\*15 is not available for SRCS-R. SRCS-L is available for sizes marked with \* only.

Please check the Allowable Tension of the paired Chains.

Part Number	Type	Applicable Roller Chain Nominal	M (Coarse)	L1	L2	L	C	D	B1	B2	H	Max. Load (kN)	Mass (g)	Unit Price	
														LSRC-R	SRCS-R, L
25		6	35	38	48.2	3	2.4	4.8	7	3.6	0.78	11	-	-	
35		8	50	54	69	4.5	3.7	7.4	10	5	1.96	27	-	-	
40		10	60	64.5	84	6	4	11.2	13	6	3.53	56	-	-	
50		12	65	71	95	7.5	5.2	13.8	17	7	5.68	94	-	-	
60		16	100	106	135	9	6	17.8	19	10	8.23	218	-	-	
80		20	119	127	165	12	8	22.6	24	12	15.4	414	-	-	

Type			Parts	Material	Surface Treatment	Hardness
Right-Hand Thread	Left-Hand Thread	Threaded				
HSB-R	HSB-L		Main Body Nut	S45C SS400	Black Oxide	35-40HRC

RoHS

Part Number	Type	M (Coarse)	L1	E1	M2	E2	H	H1	L	B	Mass (g)	Unit Price	
												HSB-R	HSB-L
4		16.5	18	M 4	8	3.2	2.4	29.2	7	4	-	-	
6		23.5	25	M 6	12	5	3.6	42	10	10	-	-	
8		31	33	M 8	16	6.5	5	55.5	13	25	-	-	
10		39	41	M10	20	8	6	69	17	45	-	-	
12		47	49	M12	24	10	7	83	19	80	-	-	
16		57	60	M16	32	13	10	105	24	170	-	-	

Type	Material	Surface Treatment
SJN	SUM22L	Black Oxide
SJNS	SUS303	-

RoHS

Part Number	Type	M (Coarse)	L	L1	B	Mass (g)	Unit Price	
							SJN	SJNS
3		22	9	6	4	-	-	
4		33	14	7	8	-	-	
*6		43	19	10	20	-	-	
*8		55	25	13	45	-	-	
*10		67	31	17	95	-	-	
12		81	38	19	130	-	-	
16		95	45	24	260	-	-	

SJNS is available for sizes marked with \* only.

Ordering Example  
Part Number  
SRC-R40  
HSB-R8  
SJN10