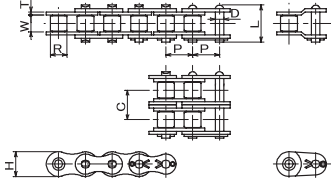


NEW**HKK SBR-PLUS Roller Chains (Long-life Chains)****SBR-PLUS Type**

● **Order No. Example**
HKK80-SBR RP 240 Links
 Chain No. Pin Type Unit
10ft
3m





Strength is improved with an oval type JL plate (* 1) on the overlap side.



Chain No.	No. of Rows	Pin Type	Pitch P	Roller Outer Diameter R	Inner Link Inner Width W	Link Plate		Pin		Horizontal Pitch C	Approx. Weight kg/m
						Thickness T	Width H	Diameter D	Length L		
80SBR	1	RP	25.40	15.88	15.88	3.2	23.4	7.94	35.40	-	2.5
	2	CP							64.30	29.3	5.1
100SBR	1	RP	31.75	19.05	19.05	4.0	29.3	9.54	42.80	-	3.9
	2	CP							78.60	35.8	7.7
120SBR	1	CP	38.10	22.23	25.40	4.8	35.1	11.11	53.20	-	5.6
140SBR			44.45	25.40	25.40	5.6	40.9	12.71	58.10	-	7.4
160SBR			50.80	28.58	31.75	6.4	46.7	14.29	68.65	-	10.0
180SBR			57.15	35.70	35.70	7.1	52.5	17.46	78.10	-	13.5
200SBR			63.50	39.68	38.10	8.0	59.6	19.85	86.80	-	16.9
240SBR			76.20	47.63	47.63	9.5	70.3	23.81	103.80	-	23.6

Chain No.	No. of Rows	Pin Type	Average Tensile Strength kN (kgf)	Maximum Allowable Tension kN (kgf)	Unit			JL & OL		
					No. of Links	m	No. in Box (Quantity)	¥		No. in Box (Quantity)
								JL	OL	
80SBR	1	RP	78.5 (8,000)	19.1 (1,950)	120L	3	4			10
	2	CP	156.9 (16,000)	25.0 (2,550)			2			
100SBR	1	RP	117.7 (12,000)	29.4 (3,000)	96L	1				5
	2	CP	235.4 (24,000)	38.3 (3,910)						
120SBR	1	CP	166.7 (17,000)	39.5 (4,030)	80L	3	1			2
140SBR			215.7 (22,000)	52.3 (5,340)	68L					
160SBR			274.6 (28,000)	69.0 (7,040)	60L					
180SBR			353.0 (36,000)	79.0 (8,060)	54L					
200SBR			451.1 (46,000)	93.0 (9,490)	48L					
240SBR			676.7 (69,000)	129.0 (13,150)	40L					

SBR = Solid Bushing and Solid Roller: Uses seamless solid bushings

Features

Although seamed rolled bushings  are normally used for roller chain bushings (see P66), the center part gently swells to a barrel shape  with force applied to the seams when the chains are assembled.

As a result, the contact surface with the pin partially differs, which leads to stretch due to abrasion. SBR-PLUS uses seamless solid bushings  which do not swell when assembled and keep an almost perfect circle shape in order to keep the contact surface with the pin  uniform and reduce stretch due to abrasion.

As a result, the product life is improved and the maximum allowable weight is increased by 30% compared to the current roller chains.



- With the maximum allowable weight increased by 30% compared to conventional roller chains, they can be used to improve the safety factor; chains can also be reduced one size depending on conditions
- They improve oil and grease survivability with gapless bushings to prevent oil from escaping. They have a product life approximately 2 to 3 times longer than that of chains using rolled bushings. Long-term stable driving is possible.



Chain No. Pin Type Unit and Quantity



* With Sagawa Express/Yamato Transport, products for which the weight of a single item exceeds 30kg cannot be shipped at any time.



Same-day shipping (Unit Only)

* Products with dimensional cutting are shipped in 5 working days. (Please note that delivery may take more time depending on the quantity.)



* Dimensional cutting products will be charged as a combination of product price with chain cutting fee included.

Strong and Durable**World-famous Super-powered Roller Chain****HKKChain****SBR-PLUS****has been released!**

Maximum Allowable Weight

World's First 30% UP
Maximum Allowable
Weight

- Can be used to improve safety factor
- Chains can also be reduced one size depending on conditions
- High cost performance

ANSI Standard: Maximum Allowable Weight (kN)

(kN)		(kN)
Chain No.	Competitor	Superior Capacity Plus SBR
HKK 80	14.7	19.1
HKK 100	22.6	29.4
HKK 120	30.4	39.5
HKK 140	40.2	52.3
HKK 160	53.0	69.0
HKK 180	60.8	79.0
HKK 200	71.6	93.0
HKK 240	99.0	129.0

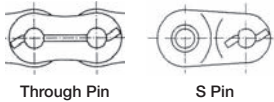
30% UP

New-model Joint (Patent Pending)

Generally, the maximum allowable tension of joint links is considered to be reduced by approximately 20 to 30% compared to that of body chains. However, the performance of joints has to be equal to meet the many performance requirements of the "HKK Chain". Therefore, the SBR-PLUS new-model joint link has been extensively modified.

- (1) The connecting plate on the overlap side is designed in an oval shape.
- (2) Special machining is implemented on the holes of the connecting plate.
- (3) Connecting parts can be clearly recognized.
- (4) Same "clearance fit" as conventional products means handling is easy

HKK200/240 has "through pins".
Offset links have "S pins".



Through Pin

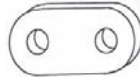
S Pin

Long-life

Solid Bushing and Solid Roller

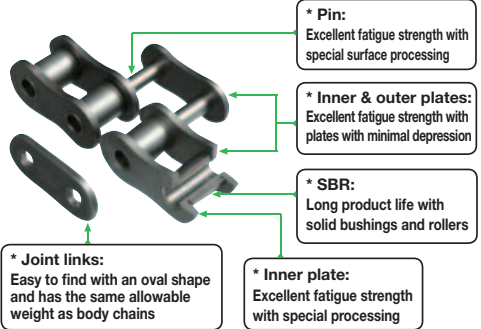
Seamless perfect circle solid bushings provide long product life.
Wear life is increased by 30% or more compared to our conventional chains.

<Patented in> US, Europe, Australia, Canada

New-model Joint/Link (Oval Shape)
(Same Strength as Body Chain)**Standards of Rupture Strength and Fatigue Strength**

Parts	Ratio	Maximum Tensile Strength (Rupture Strength)	Maximum Allowable Weight (Fatigue Strength)
Chain Body		1.0	1.0
New-model Joint		1.0	1.0

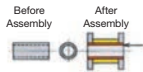
* Generally, the strength of offset links is less than those in the above table and therefore it is recommended to use an even number of links.

**SBR-PLUS Chains**

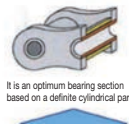
Solid Bushing & Roller



Circularity measurement results



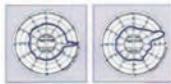
The Solid Bushing is parallel and stable between pin and bushing post-assembly as well.



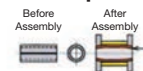
It is an optimum bearing section based on a definite cylindrical part.

Conventional Standard Products of Other Companies

Wound Bushing & Roller



Circularity measurement results



The wound bushing post-assembly is barrel-shaped with unstable contact between the pin and bushing.



The barrel shape of the wound bushing is the cause of wear stretch.