

**P**roduct  
**G**uide





ENUMA CHAIN (EK) was established in 1941 as a roller chain manufacturer. Since then, EK has devoted to advance of the technology and engineering, and made significant investments to modernize the production facilities to adapt to rapidly changing market demands. With 70 years of our dedication to research and development activities, and focus on quality, EK is a trusted brand known worldwide. Our continuous efforts on improvement of the engineering and technology, quality and manufacturing processes have enabled EK to offer wide range of products, such as micro pitch chains, a broad line of power transmission roller chains, high strength chains for construction machineries and special application chains.

Utilizing the engineering and technology acquired from development of oil-sealed motorcycle drive chains, we now offer both power transmission and stainless steel oil-sealed roller chains. We are committed to comply with customer needs. Customer satisfaction is our number one priority.

ISO 9001



JQA-1865

JISD9417



JAB  
QS Accreditation  
R009

JISB1801

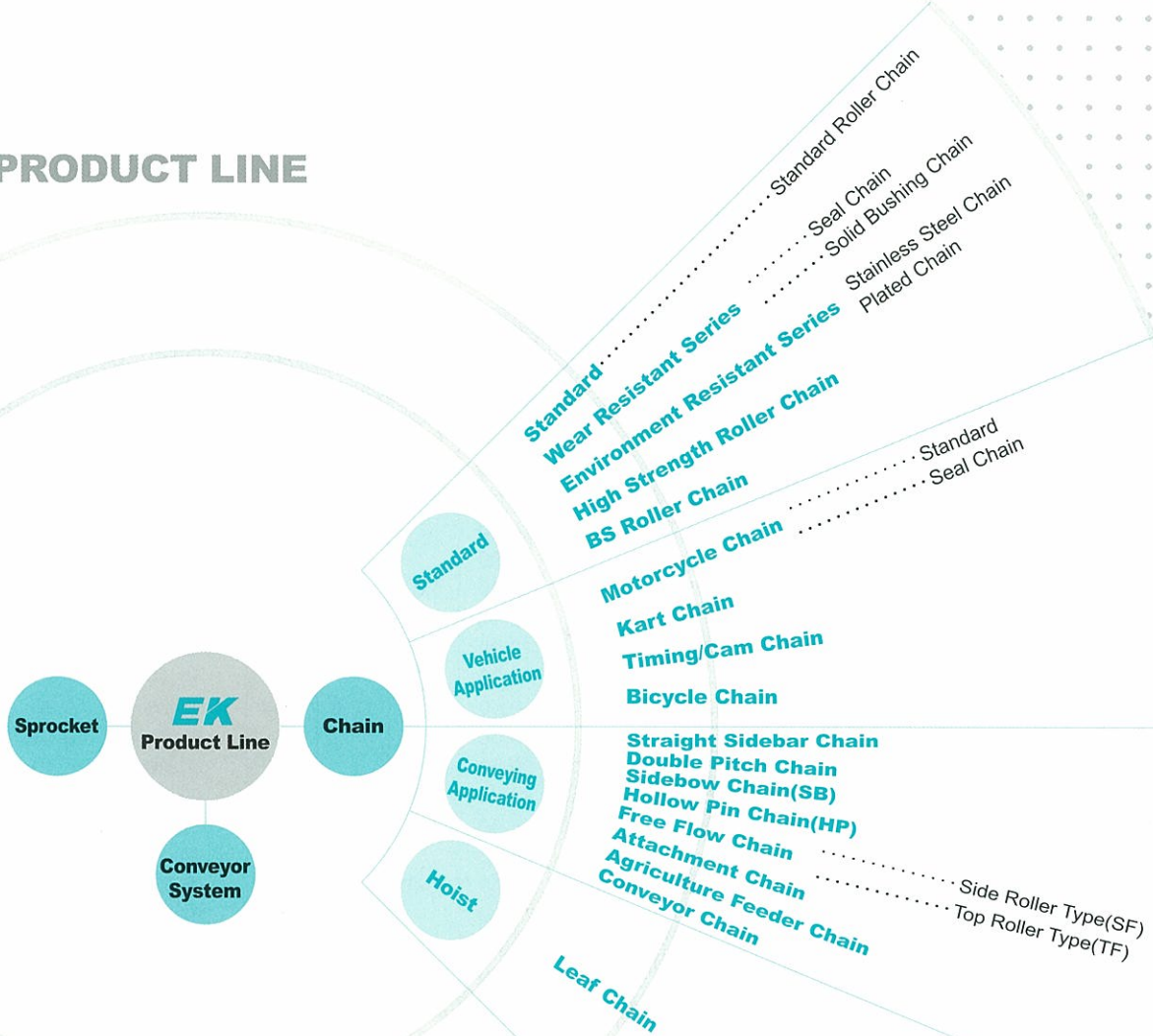


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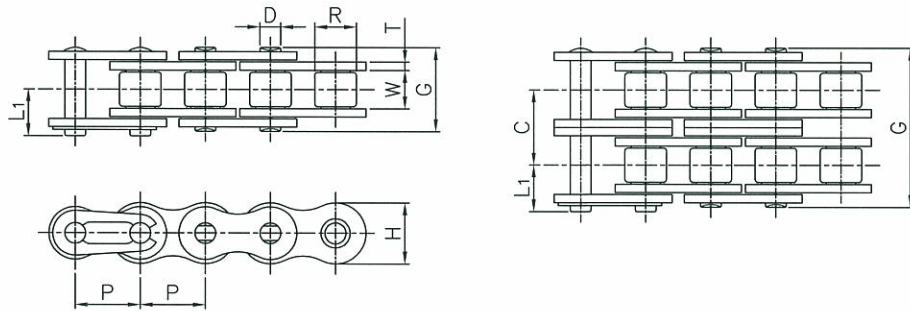
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**PRODUCT LINE**



# EK Standard Roller Chain



(mm)

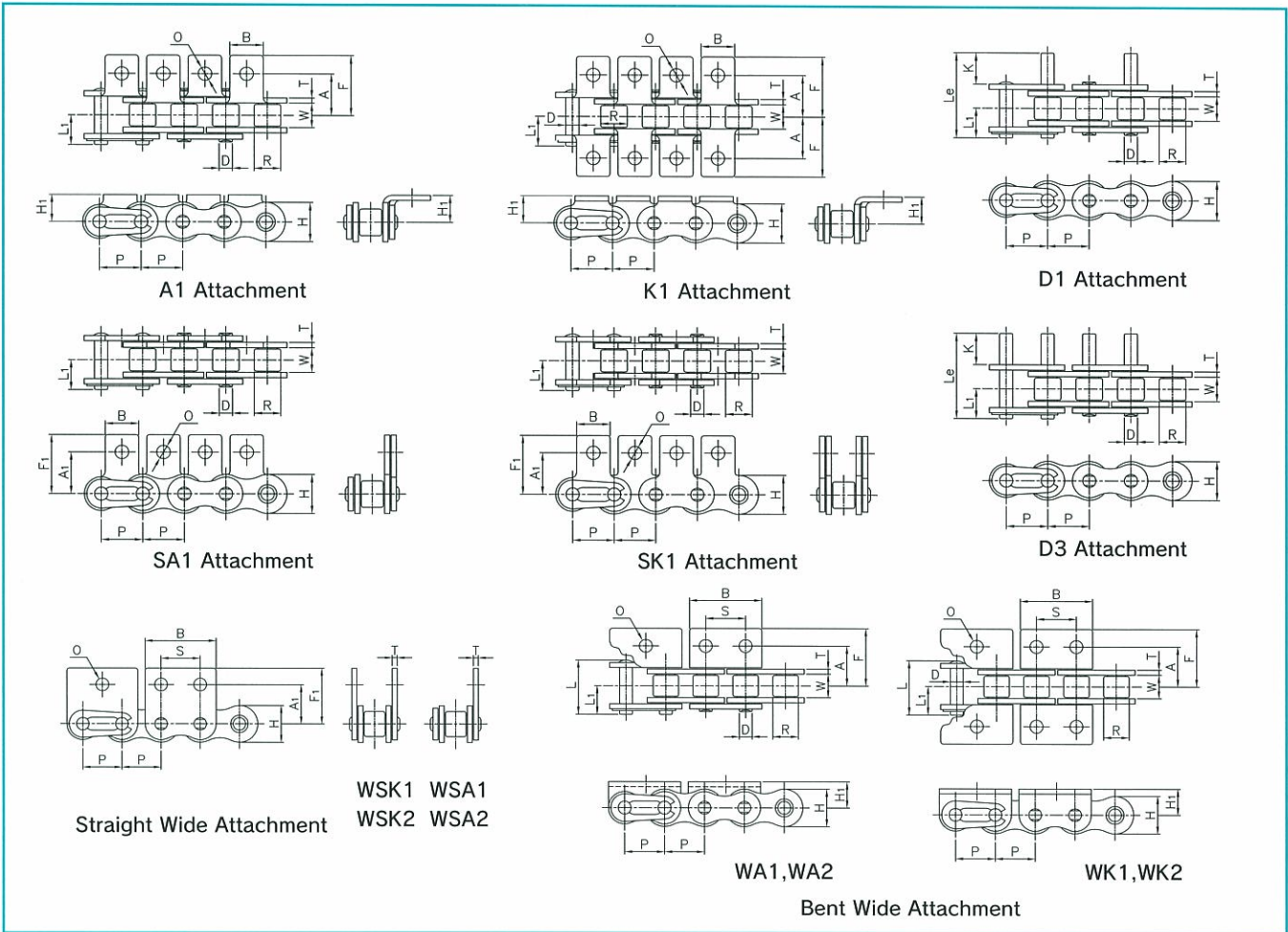
EK Chain No.	Number of Strand	Pitch P	Roller Dia. R	Roller Link Width W(min.)	Pin Dia. D	Pin Length		Link Plate		Transverse Pitch C	Average Tensile Strength kN	Maximum Allowable Load kN	Approx. Weight Kg/Meter
						L 1	G	Thickness T	Height H(max.)				
EK 015	1	4.7625	*2.48	2.38	1.65	3.95	5.90	0.55	4.4	-	2.40	0.31	0.09
EK 25	1						7.60				4.10	0.74	0.13
EK 25-2	2	6.350	*3.30	3.10	2.30	4.70	14.00	0.75	6.0	6.4	8.20	1.20	0.26
EK 25-3	3						20.40				12.40	1.80	0.39
EK 35	1						11.80				11.30	2.10	0.34
EK 35-2	2	9.525	*5.08	4.68	3.58	7.00	21.90	1.27	9.0	10.1	22.60	3.60	0.66
EK 35-3	3						32.10				33.80	5.40	0.99
EK 41	1	12.700	7.77	6.25	3.58	8.00	13.60	1.27	9.6	-	12.70	2.20	0.40
EK 40	1						16.30				19.10	3.60	0.63
EK 40-2	2	12.700	7.92	7.85	3.96	9.35	30.60	1.50	12.0	14.4	38.20	6.20	1.25
EK 40-3	3						45.00				57.40	9.10	1.87
EK 50	1						20.50				31.40	6.40	1.05
EK 50-2	2	15.875	10.16	9.40	5.08	11.35	38.20	2.00	15.0	18.1	62.80	10.80	2.08
EK 50-3	3						56.00				94.10	16.00	3.10
EK 60	1						25.85				44.10	8.80	1.54
EK 60-2	2	19.050	11.91	12.57	5.95	14.10	48.40	2.40	18.1	22.8	88.30	15.00	3.05
EK 60-3	3						71.20				132.40	22.10	4.56
EK 80	1						32.50				84.24	14.70	2.59
EK 80-2	2	25.400	15.88	15.75	7.93	18.45	61.80	3.20	24.1	29.3	164.80	25.00	5.12
EK 80-3	3						91.00				247.10	36.80	7.66
EK 100	1						40.30				117.70	22.60	4.09
EK 100-2	2	31.750	19.05	18.90	9.53	22.20	76.00	4.00	30.1	35.8	235.40	38.30	8.10
EK 100-3	3						112.00				353.00	56.40	12.12
EK 120	1						49.80				166.70	30.40	5.82
EK 120-2	2	38.100	22.23	25.22	11.10	27.50	95.20	4.80	36.2	45.4	333.40	51.70	11.56
EK 140	1						53.80				215.70	40.20	7.21
EK 140-2	2	44.450	25.40	25.22	12.70	30.80	102.70	5.60	42.2	48.9	431.50	68.40	14.31
EK 160	1						83.70				279.50	53.00	9.68
EK 160-2	2	50.800	28.58	31.55	14.28	35.75	132.20	6.40	48.2	58.5	559.00	90.00	19.22
EK 180	1						71.20				353.00	60.80	13.50
EK 180-2	2	57.150	35.71	35.48	17.46	41.70	137.00	7.20	54.2	65.8	706.00	103.00	26.55
EK 200	1						78.00				470.70	71.60	15.80
EK 200-2	2	63.500	39.68	37.85	19.84	45.60	149.60	8.00	60.3	71.6	941.40	121.70	31.28
EK 240	1						94.40				677.00	99.00	25.60
EK 240-2	2	76.200	47.63	47.35	23.81	54.80	182.20	9.50	72.4	87.8	1353.00	168.00	51.06

NOTE:

- 1) \* denotes bushing chain. Dimension shown is bushing diameter.
- 2) Cotter pin type connecting link is standard for EK80 and larger.
- 3) EK50 and smaller are furnished with riveted pins. EK60 and larger are furnished with either riveted or cotter pins.
- 4) Other multiple strand is available upon request.
- 5) Dimensions above are identical to stainless steel and plated standard roller chains.



## Standard Roller Chain Attachment



(mm)

EK Chain No.	Attachment									Additional Weight g/Att.		
	A1,K1			A1,K1,SA1,SK1				D1,D3		A,SA	K,SK	D-1
	A	F	H1	A1	F1	O	B	Le	K			
EK 25	7.10	10.70	4.80	7.95	11.7	2.8	5.60	13.90	6.00	0.3	0.6	0.2
EK 35	9.50	14.30	6.40	9.50	14.7	2.8	7.90	21.60	9.52	0.8	1.6	0.8
EK 41	11.90	17.50	7.10	12.30	17.8	3.2	9.50	23.40	9.52	1.0	2.0	0.7
EK 40	12.70	18.00	7.90	12.70	17.6	3.6	9.60	25.80	9.52	2.0	4.0	1.0
EK 50	15.90	22.90	10.30	15.90	22.6	5.2	12.80	32.30	11.91	3.0	6.0	2.0
EK 60	19.00	27.70	11.90	18.30	26.4	5.2	16.10	40.00	14.27	7.0	14.0	3.0
EK 80	25.40	35.20	15.90	24.60	34.1	6.8	19.00	52.35	19.05	13.0	26.0	7.0
EK 100	31.80	44.40	19.80	31.70	43.4	8.7	25.40	64.00	23.83	26.0	52.0	12.0
EK 120	38.10	54.90	23.00	36.50	51.6	10.5	28.60	79.10	28.58	44.0	88.0	20.0
EK 140	44.50	61.50	28.60	44.50	61.9	12.7	34.90	88.80	33.32	71.0	142.0	30.0
EK 160	50.80	71.40	31.80	50.80	69.9	14.3	38.10	103.20	38.10	97.0	194.0	44.0

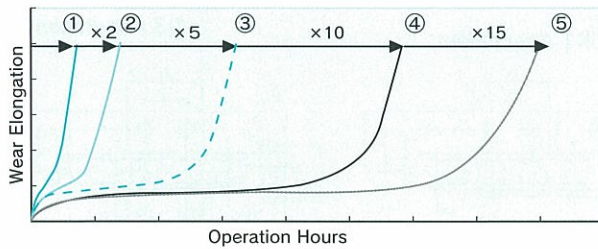
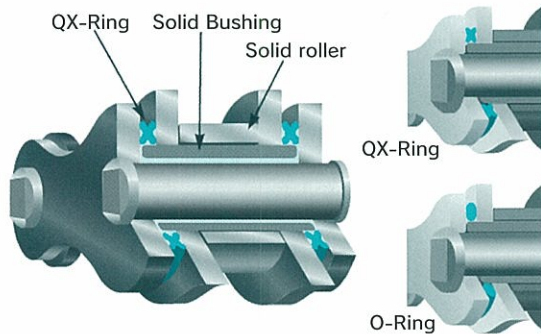
(mm)

EK Chain No.	Attachment									Additional Weight g/Att.	
	WA,WK			WSA,WSK		WA,WK,WSA,WSK				WA,WSA	WK,WSK
	A	F	H1	A1	F1	O	S	B			
EK 40	12.70	17.50	7.90	12.70	17.5	3.6	12.700	24.20		5.7	11.4
EK 50	15.90	22.60	10.30	15.90	22.6	5.2	15.875	30.20		12.4	24.8
EK 60	19.05	27.00	11.90	18.30	26.2	5.2	19.050	36.10		21.1	42.2
EK 80	25.40	35.30	15.90	24.60	34.1	6.8	25.400	48.00		49.6	99.2

NOTE:

- Other chain dimensions than the above are identical to EK standard roller chain.
- Dimensions shown above are identical to EK steel, stainless steel and plated chain.

# EK Power Transmission Seal Chain(QX-Ring, O-Ring)



- ① Conventional Chain (Curled Bushing Chain)
- ② Conventional Chain (Solid Bushing Chain)
- ③ Conventional Chain (Sintered Bushing Chain)
- ④ O-Ring Chain
- ⑤ QX-Ring Chain

Seal chains extend wear life 10 to 15 times longer than standard chains and 2 to 3 times than sintered bushing chains.

O-ring or QX-ring seal chains reduce the noise level by 2-3dB compared to EK standard roller chain.

### Application:

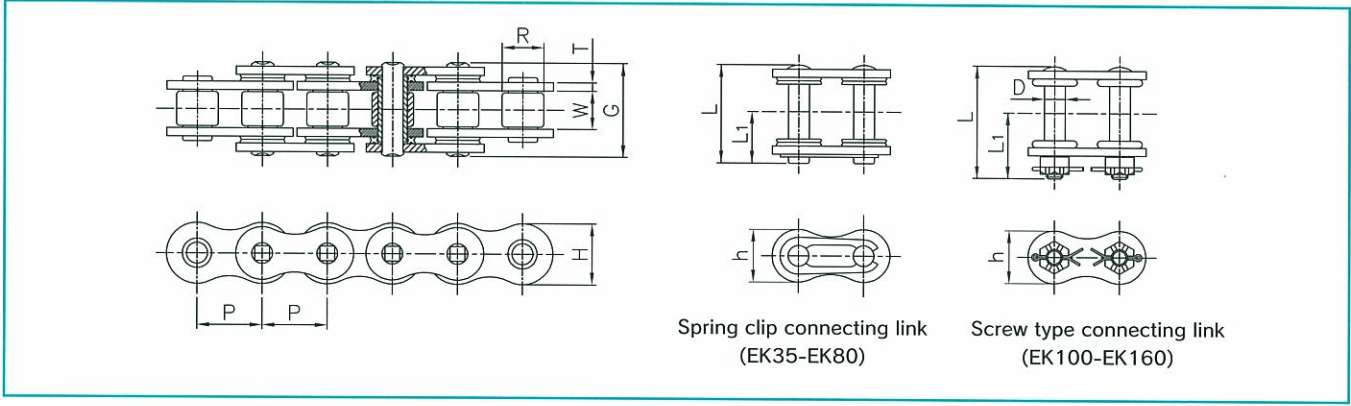
- Seal chains are not recommended in applications where the following chemicals and solvents are used. Contact with the following chemicals and solvents will damage O-ring and QX-ring made of NBR.

Gasoline, Light Oil, Benzene, Toluene, Ether, Ketone, Ethyl Acetate, Phosphoric, Acid, Esters  
Operating Oil, Organic Acid, Heavily Polluted Mineral Acid

- Allowable operating temperature for standard O/QX-ring is  $-10^{\circ}\text{C}$  to  $+80^{\circ}\text{C}$  ( $14^{\circ}\text{F}$  to  $176^{\circ}\text{F}$ ). Special heat resistant O/QX-ring chains are also available.
- Standard sprockets can be used for seal chains. Considerations of wider chain width than standard chains should be taken in design and installation.
- Periodical lubrication maintenance extends wear life. Seal chains have a little less flexibility due to friction between plates and seal rings, but the loss of power transmission is negligible since the friction loss between pin and bushings is greater.



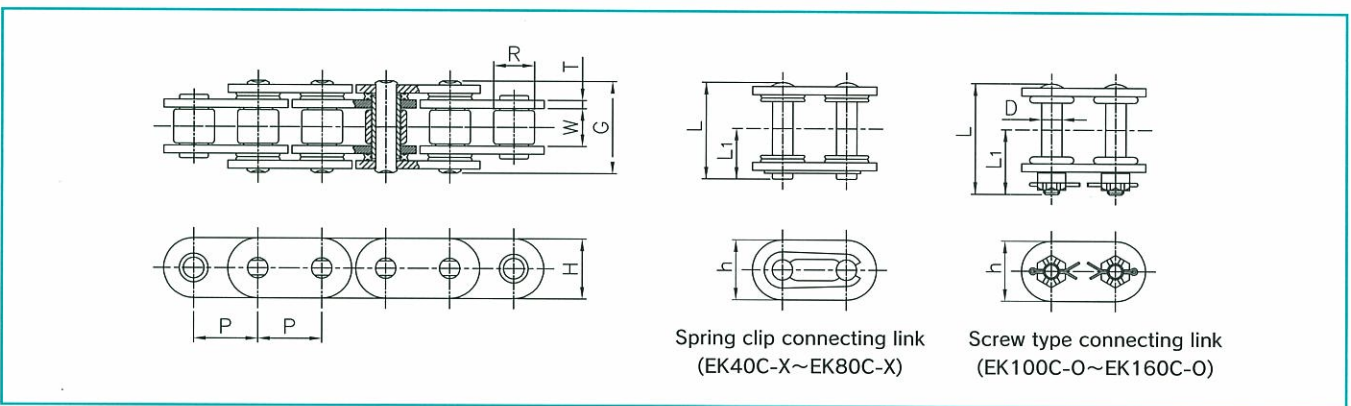
### ANSI Type Seal Chain



EK Chain No.	Pitch P	Roller Dia. R	Roller Link Width W(min.)	Pin				Link Plate			Average Tensile Strength		Maximum Allowable Load		Approx. Weight Kg/Meter
				Dia. D	G	L	L1	Thickness T	Height H(max.)	Height h(max.)	kN	kgf	kN	kgf	
EK 35-O	9.525	*5.08	4.68	3.58	14.50	15.50	8.20	1.27	9.0	7.8	10.8	1,000	2.1	220	0.36
EK 40-X	12.70	7.92	7.85	3.96	19.00	20.10	10.60	1.50	12.0	10.4	19.1	1,950	3.6	370	0.67
EK 50-X	15.875	10.16	9.40	5.08	23.80	24.40	12.50	2.00	15.0	13.0	32.0	3,250	6.3	650	1.10
EK 60-X	19.05	11.91	12.57	5.95	28.50	30.00	15.60	2.40	18.1	15.6	44.1	4,500	8.8	900	1.63
EK 80-X	25.40	15.88	15.75	7.93	35.80	37.00	19.10	3.20	24.1	20.8	78.6	8,000	14.7	1,500	2.75
EK 100-O	31.75	19.05	18.90	9.53	45.00	48.90	26.40	4.00	30.1	26.0	118.0	12,000	22.6	2,300	4.34
EK 120-O	38.10	22.23	25.22	11.10	54.30	64.00	36.85	4.80	36.2	31.2	171.0	17,500	30.4	3,100	6.17
EK 140-O	44.45	25.40	25.22	12.70	58.15	69.00	39.90	5.60	42.2	36.4	216.0	22,000	40.2	4,100	7.64
EK 160-O	50.80	28.58	31.55	14.28	68.60	85.00	50.70	6.40	48.2	41.6	270.0	27,500	52.9	5,400	10.26

\* denotes bushing chain. Dimension shown is bush diameter.

### Straight Sidebar Type Sealed Chain



EK Chain No.	Pitch P	Roller Dia. R	Roller Link Width W(min.)	Pin				Link Plate			Average Tensile Strength		Maximum Allowable Load		Approx. Weight Kg/Meter
				Dia. D	G	L	L1	Thickness T	Height H(max.)	Height h(max.)	kN	kgf	kN	kgf	
EK 40C-X	12.70	7.92	7.85	3.96	19.00	20.10	10.60	1.50	12.0	12.0	19.1	1,950	4.2	430	0.74
EK 50C-X	15.875	10.16	9.40	5.08	23.80	24.40	12.50	2.00	15.0	15.0	32.0	3,250	6.6	680	1.31
EK 60C-X	19.05	11.91	12.57	5.95	28.50	30.00	15.60	2.40	18.1	18.1	44.1	4,500	9.3	950	1.83
EK 80C-X	25.40	15.88	15.75	7.93	35.80	37.00	19.10	3.20	24.1	24.1	78.6	8,000	19.6	2,000	3.29
EK 100C-O	31.75	19.05	18.90	9.53	45.00	48.90	26.40	4.00	30.1	30.1	118.0	12,000	24.5	2,500	5.17
EK 120C-O	38.10	22.23	25.22	11.10	54.30	64.00	36.85	4.60	36.2	36.2	171.0	17,500	46.5	4,750	7.36
EK 140C-O	44.45	25.40	25.22	12.70	58.15	69.00	39.90	5.60	42.2	42.2	216.0	22,000	49.0	5,000	10.18
EK 160C-O	50.80	28.58	31.55	14.28	68.60	85.00	50.70	6.40	51.6	51.6	314.0	34,000	68.6	7,000	12.73

NOTE:  
 1) EK140C-O: Pin diameter and plate thickness are different from standard seal chain 140-O.  
 2) EK160C-O: Pin diameter is different from standard seal chain 160-O.



# EK Environment Resistant Chain

## Stainless Steel Roller Chain

EK Stainless Steel Roller Chains are designed and developed to resist corrosion, where chains are exposed to chemicals, water and/or seawater, and also resist heat, where chains are exposed to heat in applications such as heat treatment equipments and drying ovens.

EK stainless steel roller chain series offer 300SS, 600SS, 316SS and 400SS type to suit particular hostile corrosive environments.

### 300 SS Series

All components: 304SS

1. Most common corrosion resistant chain.
2. Corrosion Resistance: Water, general acid and alkali.
3. Temperature Resistance: -20°C to +400°C



Magnetic Property: Slightly magnetic due to cold rolling process of parts.

### 600 SS Series

Pin Bushing and Roller: Precipitation hardened 600SS Link Plate: 304SS

1. High Load Capacity: 1.5 times higher maximum allowable load than 300SS series.
2. Less corrosion resistance than 300SS series for certain environmental conditions.



Magnetic Property: Magnetic

### 316 SS Series

All components: 316SS

1. Withstanding long-time direct contact with corrosive substances.
2. Load capacity is equal to 300SS series.
3. Highest heat resistance.



Magnetic Property: No Magnetic

### 400 SS Series

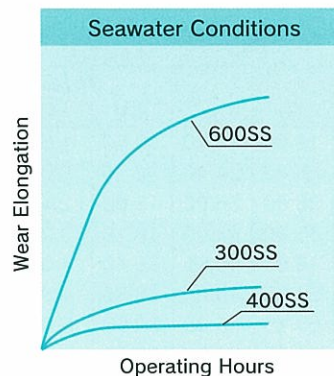
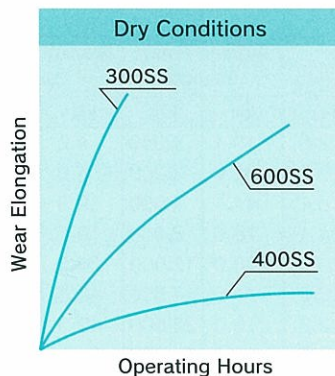
Bushing and Roller: 410SS Pin: 431SS Link Plate: 304SS

1. Excellent wear resistance in water, dry and humid environmental conditions.
2. Slightly less corrosion resistance than 300SS and 600SS series.



Magnetic property: Magnetic

## Anti-Wear Performance



Non-magnetic 300SS stainless steel roller chain is available. Please refer to the EK Stainless Steel Roller Chain Catalog.



## Stainless Steel Roller Chain

Table of Tensile Strength and Load Capacity

EK Chain No.	304SS		600SS		EK Chain No.		304SS		600SS	
	Average Tensile Strength kN	Maximum Allowable Load kN	Average Tensile Strength kN	Maximum Allowable Load kN	Standard Roller	Large Roller	Average Tensile Strength kN	Maximum Allowable Load kN	Average Tensile Strength kN	Maximum Allowable Load kN
EK 25	3.33	0.12	3.33	0.18	EK C2040	EK C2042	13.30	0.44	13.30	0.69
EK 35	7.50	0.26	7.50	0.39	EK C2050	EK C2052	20.80	0.69	20.80	1.03
EK 41	8.40	0.30	8.40	0.45	EK C2060H	EK C2062H	31.20	1.03	31.20	1.57
EK 40	13.30	0.44	13.30	0.64	EK C2080H	EK C2082H	55.90	1.77	55.90	2.65
EK 50	20.80	0.69	20.80	1.03	EK C2100H	EK C2102H	85.30	2.55	85.30	3.82
EK 60	30.00	1.03	30.00	1.52						
EK 80	53.40	1.77	53.40	2.65						
EK 100	82.20	2.55	82.20	3.82						
EK 120	120.00	3.82	120.00	5.88						

NOTE:

- 1) The large roller of 600SS series is made of 304SS.
- 2) Chain dimensions are identical to EK standard roller chain.

## Plated Roller Chain · Coated Roller Chain

Table of EK Plated Roller Chain Series

Series	Tensile Strength	Corrosion Resistance		Cost	Note
		Rain	Seawater		
NP	◎	○	×	○	Used mostly indoors or outdoors in mildly corrosive environments.
ZS	○	◎	○	△	Alloy plating. Strong anti-corrosion. Good for where cosmetic appearance is important.
ZC	○	◎	◎	△	Excellent anti-corrosion performances. Very strong with seawater and salty environments.

EK plated roller chains NP, ZS series are assembled from chain components plated before assembly. This ensures that all components surfaces are fully plated, resulting in better anti-corrosion performance. ZC chains are coated after assembly. However corrosion resistance performance is superior to NP and ZS in water and salty environment.

Unless otherwise specified, these series chains are supplied with rust preventive oil.

The plated chain with translucent grease having rust-preventive and lubricant function is available if so specified. These chains are used for the area where requires better lubrication and rust prevention.

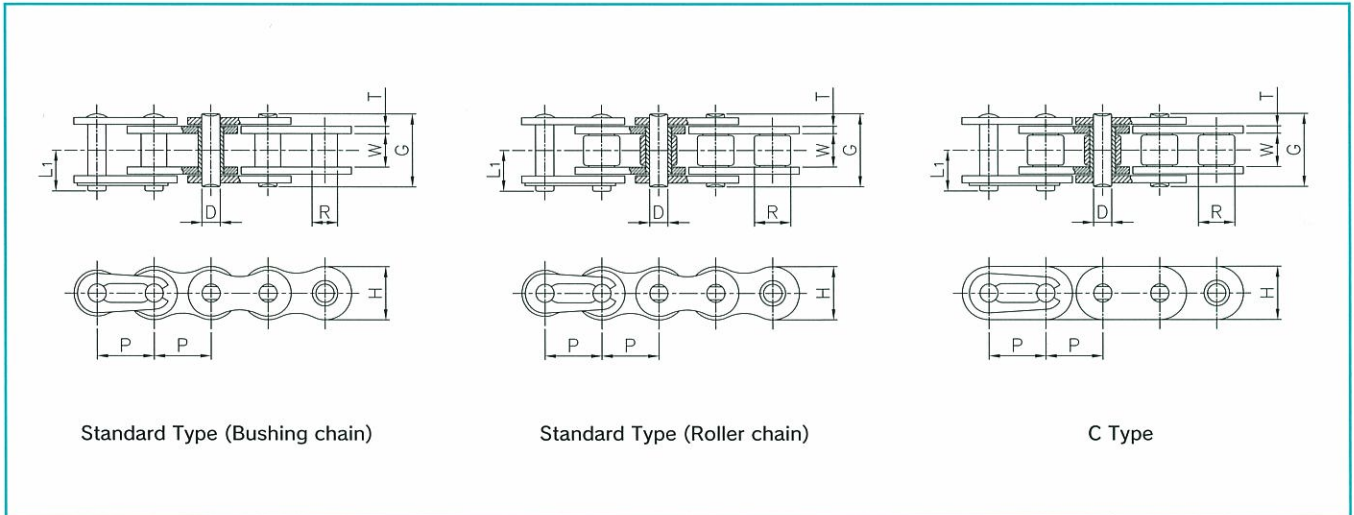
The chains with translucent grease are available upon request.

Chains with heat resistant coating and poly-seal coating are available to suit particular hostile corrosive environments.



The plating of ZS and ZC chain may peel off, and therefore these chains are not recommended for applications where the chains come in direct contact with food or the plating contamination comes in food.

# EK Non Standard Heavy Series Roller Chain



(mm)

EK Chain No.	Pitch P	Roller Dia. R	Roller Link Width W(min.)	Pin Dia. D	Pin Length		Link Plate		Average Tensile Strength kN	Maximum Allowable Load kN	Approx. Weight Kg/Meter
					L1	G	Thickness T	Height H(max.)			
EK 25H	6.350	*3.300	3.10	2.30	5.20	8.60	1.00	6.0	5.40	0.98	0.16
EK 29H	7.774	*4.585	4.60	3.16	7.15	11.90	1.40	7.5	9.80	1.80	0.32
EK 29HR	7.774	*4.585	4.60	3.16	7.45	12.40	1.40	7.5	9.80	1.80	0.33
EK 29HR-D	7.774	*4.585	4.60	3.16	7.45	12.40	1.40	7.5	9.80	1.80	0.33
EK 35R	9.525	5.080	4.68	3.58	7.80	13.60	1.27	9.0	11.70	2.10	0.36
EK C415M	12.700	7.770	4.68	3.62	6.70	11.80	1.10	9.6	11.70	1.30	0.34
EK 415S	12.700	7.770	4.68	3.96	7.70	13.00	1.50	10.4	14.70	2.60	0.44
EK 415SH	12.700	7.770	4.68	3.96	7.70	13.00	1.50	12.0	18.60	3.60	0.54
EK 415SH-R	12.700	7.770	4.68	3.96	8.55	14.70	1.50	12.0	18.60	3.60	0.56
EK 420SH	12.700	7.770	6.25	3.96	9.95	17.30	2.00	12.0	23.50	4.60	0.69
EK 40C	12.700	7.950	7.85	3.96	9.35	16.30	1.50	12.0	20.50	4.20	0.70
EK 40S-C	12.700	7.920	7.85	3.96	9.35	16.30	1.50	12.0	20.50	4.20	0.70
EK 40SH-C	12.700	7.920	7.85	3.96	9.75	17.30	2.00	12.0	23.50	5.20	0.80
EK 40SH-CS	12.700	7.920	7.85	3.96	-	19.00	2.00	12.0	23.50	5.50	0.89
EK 428H	12.700	8.510	7.85	4.50	10.50	17.80	1.80	12.0	23.50	3.50	0.73
EK 4285H	12.700	8.510	7.85	4.50	10.20	18.60	2.00	12.0	25.00	3.92	0.78
EK 4285SH-C	12.700	8.510	7.85	4.50	10.20	18.60	2.00	12.0	26.50	5.00	0.90
EK 428SK-C	12.700	8.510	7.85	4.50	-	19.60	2.40	12.0	27.40	6.80	0.91
EK 520S	15.875	10.160	6.25	5.08	9.75	17.30	2.00	15.0	34.30	6.30	0.93
EK 520SH	15.875	10.160	6.25	5.08	10.75	18.90	2.40	15.0	36.20	7.20	1.06
EK 525SH	15.875	10.160	7.85	5.08	11.55	20.50	2.40	15.0	36.20	7.20	1.10
EK 525SH-CP	15.875	10.700	7.85	5.08	-	22.30	3.20	15.0	36.20	11.20	1.46
EK 525SHK-C	15.875	10.700	7.85	5.04	-	22.30	3.20	15.0	44.10	11.70	1.75

NOTE:

- 1) Suffix code "C" denotes chains having straight sidebar.
- 2) Chain with suffix code "R" has longer bushing and therefore the standard connecting link can not be used.
- 3) \* denotes bushing chain. Dimension shown is bushing diameter.



(mm)

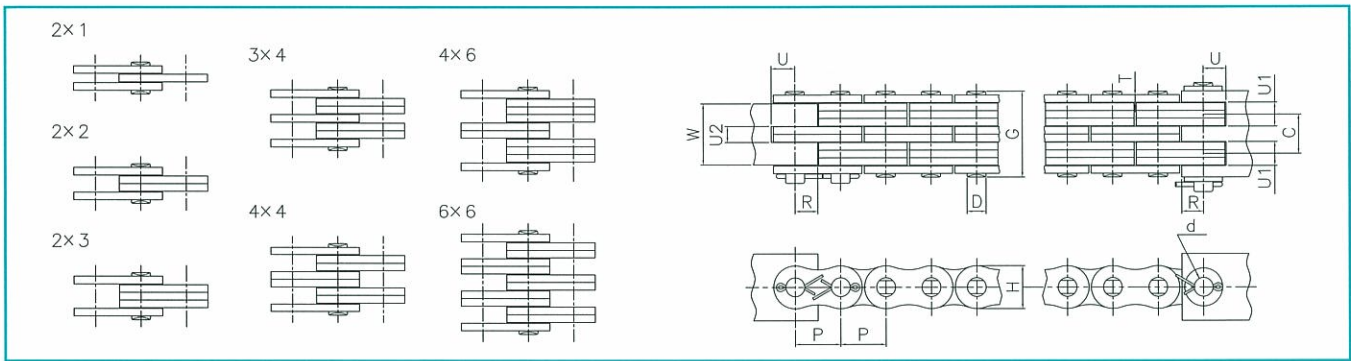
EK Chain No.	Pitch P	Roller Dia. R	Roller Link Width W(min.)	Pin Dia. D	Pin Length		Link Plate		Average Tensile Strength kN	Maximum Allowable Load kN	Approx. Weight Kg/Meter
					L 1	G	Thickness T	Height H(max.)			
EK 50S	15.875	10.16	9.40	5.08	11.35	20.50	2.00	15.0	34.30	6.30	4.05
EK 50H	15.875	10.16	9.40	5.08	12.45	22.10	2.40	15.0	32.30	7.20	1.14
EK 50SH	15.875	10.16	9.40	5.08	12.45	22.10	2.40	15.0	36.20	7.20	1.14
EK 50SH-C	15.875	10.16	9.40	5.08	12.45	22.10	2.40	15.0	39.20	8.40	1.32
EK 630S	19.050	11.91	9.40	5.95	12.50	22.65	2.40	17.00	45.10	8.80	1.35
EK 630S-C	19.050	11.91	9.40	5.95	12.50	22.65	2.40	17.00	48.00	9.20	1.52
EK 630SH	19.050	11.91	9.40	5.95	14.10	25.15	3.20	18.10	52.90	12.70	1.63
EK 630SHK-CP#	19.050	14.28	9.40	6.74	15.15	27.70	4.00	19.50	65.20	17.90	2.38
EK 60C	19.050	11.91	12.57	5.95	14.10	25.15	2.40	17.00	48.00	9.20	1.66
EK 60S	19.050	11.91	12.57	5.95	14.10	25.15	2.40	17.00	45.10	8.80	1.54
EK 60S-C	19.050	11.91	12.57	5.95	14.10	25.15	2.40	17.00	48.00	9.20	1.66
EK 60H	19.050	11.91	12.57	5.95	15.65	29.30	3.20	17.00	44.10	10.70	1.76
EK 60SH	19.050	11.91	12.57	5.95	15.65	29.30	3.20	18.10	52.90	12.70	1.76
EK 60SH-B	19.050	11.91	12.57	7.50	17.50	31.00	4.00	20.00	70.60	15.60	2.40
EK 745SSHK-C	22.225	15.60	14.30	7.93	21.30	35.80	4.80	23.50	88.20	22.50	3.57
EK 745U#	22.225	15.60	14.30	7.93	-	35.80	4.80	23.50	88.20	28.40	3.53
EK 845SHK-C	25.400	19.05	14.30	9.53	22.95	43.50	6.40	25.50	122.50	40.20	4.95
EK 845U#	25.400	19.05	14.30	9.53	-	43.50	6.40	25.50	122.50	44.10	4.90
EK 80C	25.400	15.88	15.75	7.93	18.45	32.50	3.20	24.20	78.40	19.60	3.10
EK 80H	25.400	15.88	15.75	7.93	20.10	35.80	4.00	24.10	82.30	14.70	2.97
EK 80SH	25.400	15.88	15.75	7.93	20.10	35.80	4.00	24.10	93.10	20.50	3.19
EK 80HS.P.R	25.400	15.88	15.75	7.93	-	35.80	4.00	25.50	95.10	23.50	3.45
EK 955SHK-C	28.575	21.30	17.46	-	-	48.60	6.40	28.50	147.00	42.10	6.25
EK 955U	28.575	21.30	17.46	-	-	48.60	6.40	28.50	147.00	46.10	6.20
EK 100C	31.750	19.05	18.90	9.54	21.20	40.30	4.00	28.00	117.60	24.00	4.30
EK 100H	31.750	19.05	18.90	9.53	23.85	43.50	4.80	30.10	127.40	25.40	4.36
EK 100SH-B#	31.750	19.05	18.90	11.10	25.90	46.00	5.60	31.00	156.90	40.20	5.53
EK 100S.P.R#	31.750	19.05	18.90	9.53	-	40.30	4.00	31.00	127.40	29.40	4.39
EK 100SHS-C#	31.750	19.05	18.90	10.40	-	45.60	5.60	31.00	156.90	45.10	5.45
EK 120H	38.100	22.23	25.22	11.10	29.10	53.20	5.60	36.20	171.60	34.30	6.20
EK 1275HS.P.R#	38.100	22.23	23.80	11.10	-	50.00	5.60	36.20	176.50	46.50	6.94
EK 140U	44.450	25.40	25.22	14.10	-	60.00	6.40	42.20	313.80	49.00	9.60
EK 160H	50.800	28.58	31.55	14.29	35.40	67.00	7.10	47.30	275.00	58.80	10.09
EK 160MG	50.800	28.58	31.55	14.28	36.60	63.80	6.40	47.30	269.60	63.70	9.80
EK 160S.P.R#	50.800	28.58	31.55	15.08	-	66.30	6.40	50.80	333.40	68.60	12.01

## NOTE:

- 1) Suffix code "C" denotes chains having straight sidebar.
- 2) Suffix code "R" denotes bushing chain. Dimension shown is bushing diameter.
- 3) Unless specified, chains marked with # are furnished with endless type.  
Light press fit connecting link is also available.



# EK Leaf Chain



(mm)

EK Chain No.	Pitch P	Link Plate	Link Plate		Pin		Minimum Tensile Strength		Fating Strength		Approx. Weight kg/m	Clevis						
			Height max.H	Thickness T	Dia. D	Over All Riveted G	kN	kgf	kN	kgf		d (Hole Dia.) (min)	R (max)	U (min)	C	U1 (min)	W (max)	U2 (min)
EK BL- 421		2 x 1				8.40	11.7	1,200	1.5	160	0.44				-	2.2	2.0	-
EK BL- 422		2 x 2				10.80	23.5	2,400	3.1	320	0.58				-	4.3	4.1	-
EK BL- 423		2 x 3				12.95	23.5	2,400	4.4	450	0.72				-	6.4	6.2	-
EK BL- 434	12.700	3 x 4	12.0	2.0	5.06	17.30	37.2	3,800	5.0	510	0.99	5.12	6.3	6.3	6.2	4.3	10.5	2.2
EK BL- 444		4 x 4				18.90	49.0	5,000	5.2	540	1.13				8.2	4.3	12.1	4.3
EK BL- 446		4 x 6				23.60	49.0	5,000	5.8	600	1.41				10.3	6.4	16.8	4.3
EK BL- 466		6 x 6				27.40	73.5	7,500	6.1	630	1.68				8.2	4.3	20.5	4.3
EK BL- 521		2 x 1				10.00	19.6	2,000	2.6	270	0.70				-	2.7	2.4	-
EK BL- 522		2 x 2				12.90	39.2	4,000	5.1	530	0.92				-	5.1	4.9	-
EK BL- 523		2 x 3				15.20	39.2	4,000	7.4	760	1.15				-	7.6	7.4	-
EK BL- 534	15.875	3 x 4	15.0	2.4	5.92	20.10	58.8	6,000	8.5	870	1.58	6.00	7.9	7.9	7.4	5.1	12.2	2.7
EK BL- 544		4 x 4				22.65	78.4	8,000	9.0	920	1.81				9.8	5.1	14.7	5.1
EK BL- 546		4 x 6				27.50	78.4	8,000	9.9	1010	2.25				12.3	7.6	19.6	5.1
EK BL- 566		6 x 6				32.50	117.6	12,000	10.3	1060	2.69				9.8	5.1	24.6	5.1
EK BL- 622		2 x 2				16.40	68.6	7,000	7.6	780	1.39				-	6.8	6.5	-
EK BL- 623		2 x 3				19.90	68.6	7,000	10.8	1110	1.72				-	10.2	9.8	-
EK BL- 634	19.050	3 x 4	18.1	3.2	7.93	26.40	102.9	10,500	12.4	1270	2.38	8.00	9.5	9.5	9.9	6.8	16.5	3.5
EK BL- 644		4 x 4				29.60	137.2	14,000	13.2	1350	2.70				13.2	6.8	19.7	6.8
EK BL- 646		4 x 6				36.50	137.2	14,000	14.4	1470	3.36				18.5	10.2	26.6	6.8
EK BL- 666		6 x 6				42.80	205.9	21,000	15.2	1550	4.01				13.2	6.8	32.9	6.8
EK BL- 822		2 x 2				20.50	102.9	10,500	13.2	1350	2.30				-	8.5	8.1	-
EK BL- 823		2 x 3				24.60	102.9	10,500	19.8	2020	2.84				-	12.7	12.2	-
EK BL- 834	25.400	3 x 4	24.1	4.0	9.53	32.70	154.9	15,800	22.5	2300	3.94	9.60	12.7	12.7	12.3	8.5	20.4	4.5
EK BL- 844		4 x 4				36.80	205.9	21,000	23.9	2440	4.49				16.4	8.5	24.5	8.5
EK BL- 846		4 x 6				44.90	205.9	21,000	26.2	2680	5.58				20.5	12.7	32.6	8.5
EK BL- 866		6 x 6				53.30	308.9	31,500	27.5	2810	6.68				16.4	8.5	41.0	8.5
EK BL-1022		2 x 2				24.40	151.0	15,400	20.3	2080	3.45				-	10.1	9.7	-
EK BL-1023		2 x 3				29.30	151.0	15,400	32.1	3280	4.29				-	15.1	14.6	-
EK BL-1034	31.750	3 x 4	30.0	4.8	11.10	39.20	225.5	23,000	36.6	3740	5.97	11.15	15.8	15.8	14.6	10.1	24.5	5.5
EK BL-1044		4 x 4				43.90	282.4	28,800	38.9	3970	6.80				19.4	10.1	29.2	10.1
EK BL-1046		4 x 6				53.60	282.4	28,800	42.6	4350	8.47				24.3	15.1	38.9	10.1
EK BL-1066		6 x 6				63.30	421.6	43,000	44.8	4570	10.14				19.4	10.1	48.5	10.1
EK BL-1223		2 x 3				33.50	196.1	20,000	49.6	5060	5.53				-	17.5	17.0	-
EK BL-1234		3 x 4				45.10	313.8	32,000	56.5	5770	7.69				17.2	11.9	28.6	6.0
EK BL-1244	38.10	4 x 4	36.2	5.6	12.70	51.50	392.2	40,000	60.6	6120	8.79	12.75	19.0	19.0	22.9	11.9	34.8	11.9
EK BL-1246		4 x 6				62.20	392.2	40,000	65.7	6700	10.93				28.7	17.5	45.7	11.9
EK BL-1266		6 x 6				73.00	588.3	60,000	69.1	7050	13.11				22.9	11.9	57.3	11.9
EK BL-1423		2 x 3				38.50	235.3	24,000	65.3	6660	8.15				-	20.1	19.4	-
EK BL-1434		3 x 4				52.00	387.3	39,500	71.5	7300	11.34				19.5	13.5	32.9	7.0
EK BL-1444	44.450	4 x 4	42.2	6.4	14.28	58.50	470.7	48,000	74.5	7600	12.93	14.35	22.2	22.2	26.0	13.5	39.4	13.5
EK BL-1446		4 x 6				71.00	470.7	48,000	86.4	8820	16.09				32.6	20.1	51.9	13.5
EK BL-1466		6 x 6				84.40	706.0	72,000	90.9	9270	19.28				26.0	13.5	65.1	13.5
EK BL-1623		2 x 3				44.50	357.9	36,500	77.2	7880	10.51				-	22.8	21.9	-
EK BL-1634		3 x 4				59.50	559.9	57,100	85.3	8700	14.61				22.3	15.5	36.9	8.0
EK BL-1644	50.800	4 x 4	48.2	7.2	17.45	67.00	715.8	73,000	91.2	9300	16.65	17.55	25.4	25.4	29.8	15.5	43.9	15.5
EK BL-1646		4 x 6				82.00	715.8	73,000	107.8	11000	20.76				37.2	22.8	59.4	15.5
EK BL-1666		6 x 6				97.00	1,073.8	109,500	113.7	11600	24.86				29.8	15.5	74.4	15.5

NOTE:

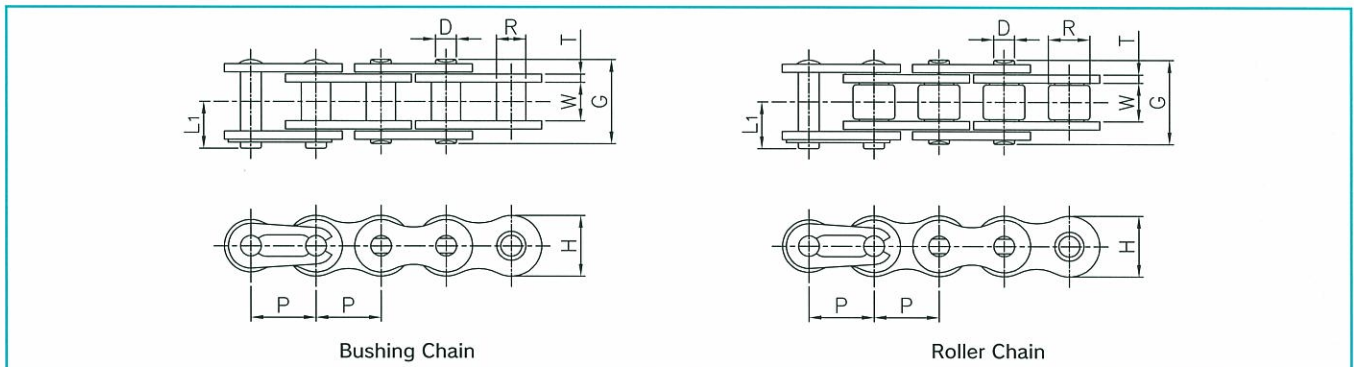
1) Minimum ultimate tensile strength is not the working load capacity of the chain. The safety factor must be applied, with regard to severity or application and experience of user designing an application.



(mm)

EK Chain No.	Pitch P	Link Plate	Link Plate		Pin		Minimum Tensile Strength		Fating Strength		Approx. Weight kg/m	Clevis						
			Height max.H	Thickness T	Dia. D	Over All Riveted G	kN	kgf	kN	kgf		d (Hole Dia.) (min)	R (max)	U (min)	C	U1 (min)	W (max)	U2 (min)
EK AL- 322	9.525	2 x 2	7.5	1.27	3.58	6.80	7.8	800	0.8	85	0.22	3.63	4.7	4.2	-	2.7	2.7	-
EK AL- 422		2 x 2				8.30	16.6	1,700	1.8	190	0.36						3.0	
EK AL- 444	12.700	4 x 4	10.4	1.50	3.94	14.70	33.3	3,400	3.5	360	0.72	4.00	6.3	6.0	6.3	3.2	9.4	3.2
EK AL- 466		6 x 6				20.80	50.0	5,100	4.1	420	1.07						15.9	
EK AL- 522		2 x 2				10.80	27.4	2,800	3.0	310	0.62						4.0	
EK AL- 544	15.875	4 x 4	13.0	2.00	5.06	18.90	54.9	5,600	6.3	650	1.23	5.12	7.9	7.5	8.3	4.3	12.5	4.3
EK AL- 566		6 x 6				27.40	82.3	8,400	6.7	690	1.83						20.9	
EK AL- 622		2 x 2				12.90	38.2	3,900	4.3	440	0.87						4.8	
EK AL- 644	19.050	4 x 4	15.6	2.40	5.92	22.65	76.4	7,800	8.2	840	1.71	6.00	9.5	8.5	9.9	5.1	14.7	5.1
EK AL- 666		6 x 6				32.50	114.7	11,700	9.5	970	2.55						24.6	
EK AL- 822		2 x 2				16.40	64.7	6,600	7.9	810	1.54						6.4	
EK AL- 844	25.400	4 x 4	20.8	3.20	7.90	29.60	132.5	13,520	14.7	1,500	3.03	8.00	12.7	11.5	13.0	6.8	19.8	6.8
EK AL- 866		6 x 6				42.80	194.1	19,800	17.5	1,790	4.51						33.0	
EK AL-1022		2 x 2				20.50	98.0	10,000	12.9	1,320	2.51						8.0	
EK AL-1044	31.750	4 x 4	26.0	4.00	9.50	36.80	196.1	20,000	24.8	2,530	4.94	9.60	15.8	14.5	16.2	8.5	24.4	8.5
EK AL-1066		6 x 6				53.30	294.1	30,000	28.6	2,920	7.36						41.0	
EK AL-1222		2 x 2				24.40	138.2	14,100	18.7	1,910	3.48						9.6	
EK AL-1244	38.100	4 x 4	31.0	4.80	11.07	43.90	247.1	25,200	35.9	3,670	6.87	11.15	19.0	17.5	19.4	10.1	29.2	10.1
EK AL-1266		6 x 6				63.30	414.8	42,300	41.3	4,220	10.24						49.0	
EK AL-1422		2 x 2				27.90	178.4	18,200	22.5	2,300	4.38						11.2	
EK AL-1444	44.450	4 x 4	36.0	5.60	12.67	51.50	356.9	36,400	43.3	4,420	8.64	12.75	22.2	20.0	22.6	11.9	34.4	11.9
EK AL-1466		6 x 6				73.50	535.4	54,600	49.8	5,080	12.88						57.5	
EK AL-1622		2 x 2				32.00	230.4	23,500	30.2	3,080	5.75						12.8	
EK AL-1644	50.800	4 x 4	41.0	6.40	14.25	58.10	460.9	47,000	57.9	5,910	11.33	14.35	25.4	22.5	26.2	13.5	39.0	13.5
EK AL-1666		6 x 6				84.40	691.3	70,500	66.7	6,810	16.92						65.4	

## EK Cam, Starter, Race Kart Chains



(mm)

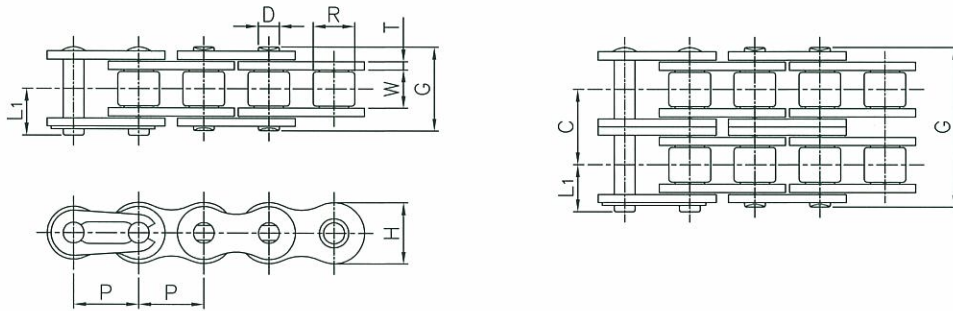
EK Chain No.	Pitch P	Roller Dia. R	Roller Link Width W(min.)	Pin Dia. D	Pin Length		Link Plate		Average Tensile Strength kN	Application	Approx. Weight Kg/Meter
					L1	G	Thickness T	Height H(max.)			
EK 25	6.350	3.300	3.10	2.30	4.70	7.60	0.75	6.00	4.40	Cam	0.13
EK 25H	6.350	3.300	3.10	2.30	5.20	8.60	1.00	6.00	5.50	Cam	0.16
EK 29H	7.774	4.585	4.60	3.16	7.15	11.90	1.40	7.50	9.80	Cam, Starter	0.32
EK 06B	9.525	*6.350	5.72	3.25	7.45	12.30	1.30	8.10	10.30	Cam	0.39
EK 06B-2	9.525	*6.350	5.72	3.25	7.45	23.00	1.30	8.10	21.10	Cam	0.77
EK 06BE	9.525	*6.350	5.72	3.25	-	13.60	1.35	8.30	12.40	Cam	0.45
EK 05E	8.000	5.650	4.60	3.16	-	11.70	1.30	7.80	10.30	Cam	0.36
EK 05T-D	8.000	*4.700	4.60	3.16	-	11.50	1.30	7.80	8.50	Cam	0.42
EK 05T-M	8.000	*4.700	4.60	3.16	-	11.50	1.30	7.80	8.20	Oil Pump	0.42
EK 29HR	7.774	4.585	4.60	3.16	-	12.40	1.40	7.50	9.80	Race Kart	0.30
EK 29HRD	7.774	4.585	4.60	3.16	-	12.40	1.40	7.50	9.80	Race Kart	0.33
EK 35R	9.525	5.080	4.68	3.58	7.80	13.60	1.27	9.00	11.70	Race Kart	0.36

NOTE:

- 1) \* denotes bushing chain. Dimension shown is bushing diameter.
- 2) Chain with suffix code "R" has longer bushing and therefore the standard connecting link can not be used.
- 3) EK06BE is furnished with solid bushing and chromed pin.
- 4) EK05T-D is furnished with solid bushing.



# EK BS Roller Chain



(mm)

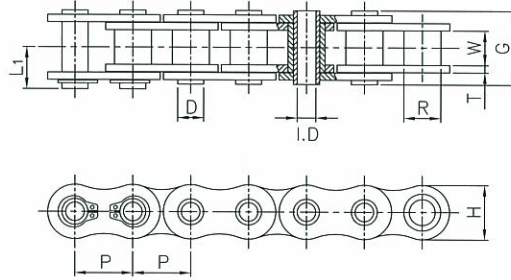
Chain No.		No. of Strand	Pitch P	Roller Dia. R	Roller Link Width W(min.)	Pin Dia. D	Pin Length		Link Plate		Transverse Pitch C	Tensile Strength		Approx. Weight Kg/Meter
EK	ISO "B"						L1	G	Thickness T	Height H(max.)		ISO "B" kN	EK (min.) kN	
REC 04		1	6.000	4.00	2.80	1.85	4.30	6.50	0.60	5.00	-	-	2.90	0.12
EK 05B		1						7.60				4.4	4.5	0.18
EK 05B-2	05B	2	8.000	5.00	3.00	2.30	4.70	13.30	0.75	7.10	5.64	7.8	7.8	0.35
EK 05B-3		3						18.90				11.1	11.1	0.53
EK 06B		1						12.30				8.9	8.9	0.39
EK 06B-2	06B	2	9.525	6.35	5.72	3.25	7.75	23.00	1.30	8.10	10.24	16.9	16.9	0.75
EK 06B-3		3						33.10				24.9	24.9	1.1
EK 08B		1						16.30				17.8	17.8	0.64
EK 08B-2	08B	2	12.700	8.51	7.75	4.44	9.36	30.60	1.50	11.80	13.92	31.1	31.1	1.32
EK 08B-3		3						45.00				44.5	44.5	1.98
EK 10B		1						18.90				22.2	22.2	0.89
EK 10B-2	10B	2	15.875	10.16	9.65	5.08	10.55	35.20	1.50	14.70	16.59	44.5	44.5	1.76
EK 10B-3		3						51.80				66.7	66.7	2.63
EK 12B		1						22.30				28.9	28.9	1.21
EK 12B-2	12B	2	19.050	12.07	11.68	5.70	12.45	41.70	1.80	16.10	19.46	57.8	57.8	2.39
EK 12B-3		3						61.20				86.7	86.7	3.57
EK 16B		1						36.20				60.0	63.7	2.65
EK 16B-2	16B	2	25.400	15.88	17.02	8.27	18.60	67.90	4.00	21.00	31.88	106.0	121.6	5.27
EK 16B-3		3						99.80				160.0	181.4	7.88
EK 20B		1						40.18				64.5	98	3.76
EK 20B-2	20B	2	31.750	19.05	19.56	10.16	23.42	76.71	4.50	26.00	36.45	129.0	164.7	7.26
EK 20B-3		3						113.44				193.5	266.7	10.86
EK 24B		1						53.34				97.8	166.7	7.29
EK 24B-2	24B	2	38.100	25.40	25.40	14.63	31.04	101.85	5.90	33.40	48.36	195.7	315.7	14.53
EK 24B-3		3						150.22				293.6	475.6	21.76
EK 28B		1						65.10				129.0	196.1	9.26
EK 28B-2	28B	2	44.450	27.94	30.99	15.88	38.74	124.69	7.40	36.50	59.56	258.1	368.7	18.45
EK 28B-3		3						184.30				387.1	556	27.65
EK 32B		1						65.20				169.0	237.3	9.92
EK 32B-2	32B	2	50.800	29.21	30.99	17.81	39.37	124.00	6.90	41.60	58.55	338.1	484.4	19.76
EK 32B-3		3						182.63				507.1	728.6	29.61

NOTE:

- 1) EK06B: The chain is furnished with straight sidebar. The multiple strand chain is furnished with a single center link plate.
- 2) EK05B: Offset link is available with two pitch type only and not available for multiple strand.
- 3) BS stainless steel and plated chains are available.



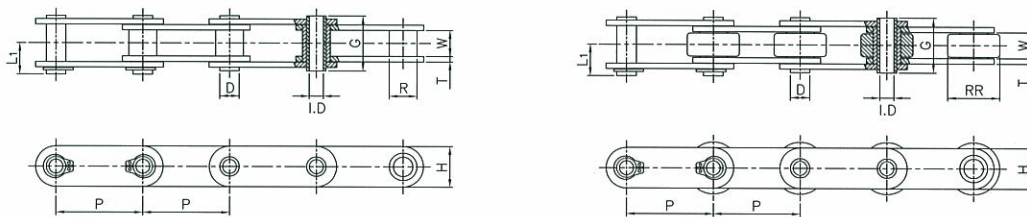
# EK Hollow Pin Chain



(mm)

EK Chain No.	Pitch P	Roller Dia. R	Roller Link Width W(min.)	Pin Dia. D	Pin I.D. (min.)	Pin Length		Link Plate		Average Tensile Strength kN	Maximum Allowable Load kN	Approx. Weight Kg/Meter
						L1	G	Thickness T	Height H(max.)			
EK 40HP	12.700	7.94	7.85	5.61	4.01	9.10	16.60	1.50	12.0	10.7	1.70	0.56
EK 50HP	15.875	10.16	9.40	7.15	5.13	11.40	20.10	2.00	15.0	19.6	3.10	0.96
EK 60HP	19.050	11.91	12.57	8.41	5.97	14.10	25.00	2.40	18.1	26.4	4.20	1.32
EK 80HP	25.400	15.88	15.75	11.35	7.97	17.90	31.00	3.20	24.1	55.8	8.90	2.07

## Double Pitch Type



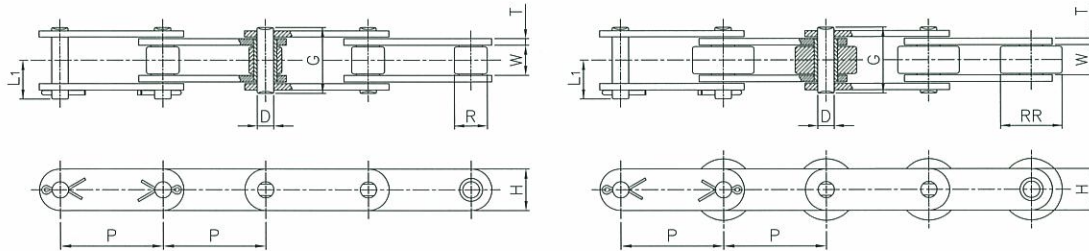
(mm)

EK Chain No.		Pitch P	Roller Link Width W(min.)	Roller Diameter		Pin Dia. D	Pin I.D. (min.)	Pin Length		Plate		Average Tensile Strength kN	Maximum Allowable Load kN	Approx. Weight	
Standard Roller	Large Roller			Standard Roller R	Large Roller RR			L1	G	Thickness T	Height H(max.)			Standard Roller Kg/Meter	Large Roller Kg/Meter
EKC2040HP	EKC2042HP	25.40	7.85	7.94	15.88	5.61	4.01	9.1	16.6	1.5	11.7	10.7	1.7	0.44	0.76
EKC2050HP	EKC2052HP	31.75	9.40	10.16	19.05	7.15	5.13	11.4	20.1	2.0	14.9	19.6	3.1	0.72	1.15
EKC2060HP	EKC2062HP	38.10	12.57	11.91	22.23	8.41	5.97	14.1	25.0	2.4	17.0	26.4	4.2	0.99	1.68
EKC2080HP	EKC2082HP	50.80	15.75	15.88	28.58	11.35	7.97	17.9	31.0	3.2	23.0	55.8	8.9	1.67	2.50

NOTE:

- 1) Heavy link plate for EK C2060HP(3.2mm) and EKC2080HP(4.0mm) is available.
- 2) Nickel plated and stainless steel chain is available.

# EK Double Pitch Roller Chain



Standard Roller

Large Roller

(mm)

EK Chain No.		Pitch P	Roller Link Width W(min.)	Roller Diameter		Pin Dia. D	Pin Length	
Standard Roller	Large Roller			Standard Roller R	Large Roller RR		L1	G
EK C2040	EK C2042	25.40	7.85	7.92	15.88	3.96	9.55	16.30
EK C2050	EK C2052	31.75	9.40	10.16	19.05	5.08	11.75	20.50
EK C2060	EK C2062	38.10	12.57	11.91	22.23	5.95	15.00	25.85
EK C2060H	EK C2062H						16.85	29.30
EK C2080	EK C2082	50.80	15.75	15.88	28.58	7.93	18.45	32.50
EK C2080H	EK C2082H						20.10	35.80
EK C2100	EK C2102	63.50	18.90	19.05	39.68	9.53	22.20	40.30
EK C2100H	EK C2102H						23.85	43.50
EK C2120	EK C2122	76.20	25.22	22.23	44.45	11.10	27.50	50.00
EK C2120H	EK C2122H						29.10	53.20

(mm)

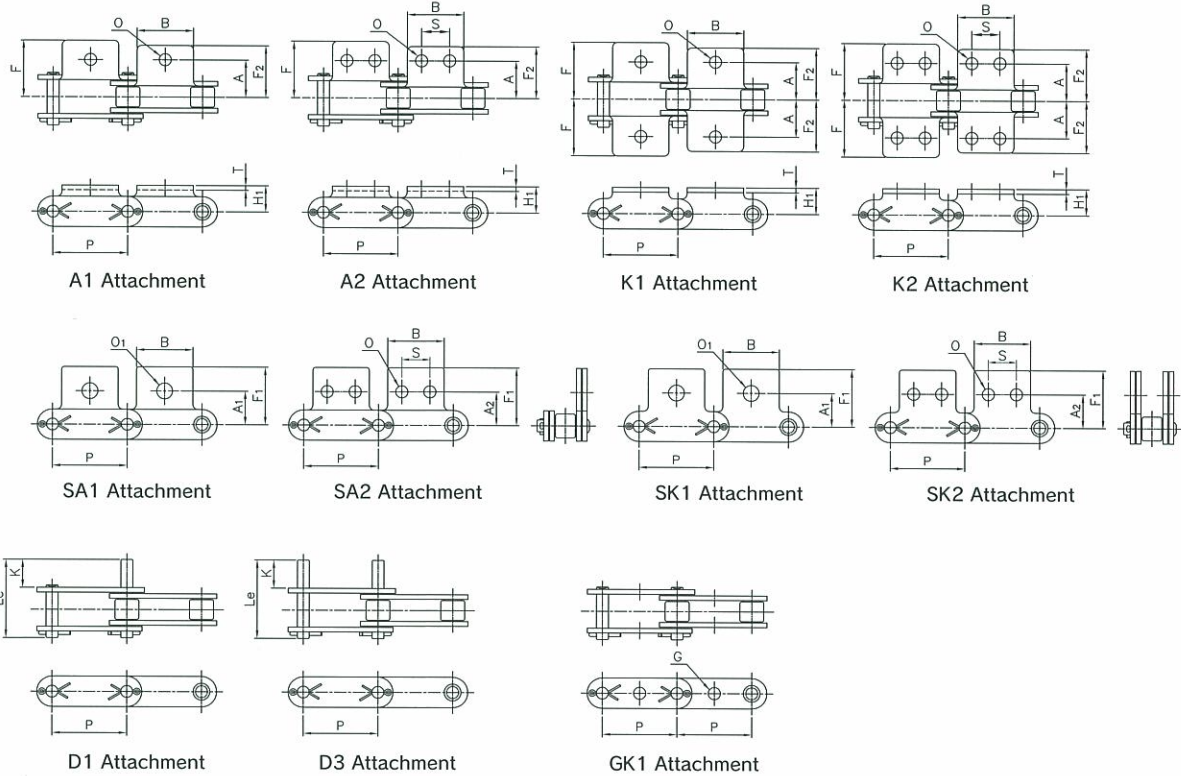
EK Chain No.		Link Plate		Average Tensile Strength kN	Maximum Allowable Load kN	Approx. Weight	
Standard Roller	Large Roller	Thickness T	Height H(max.)			Standard Roller Kg/Meter	Large Roller Kg/Meter
EK C2040	EK C2042	1.5	11.7	19.1	3.6	0.49	0.84
EK C2050	EK C2052	2.0	14.9	31.3	6.3	0.81	1.28
EK C2060	EK C2062	2.4	17.0	44.1	8.8	1.14	1.85
EK C2060H	EK C2062H	3.2				1.43	2.14
EK C2080	EK C2082	3.2	23.0	78.4	14.7	2.03	3.09
EK C2080H	EK C2082H	4.0				2.46	3.51
EK C2100	EK C2102	4.0	28.8	117.6	22.5	3.22	5.43
EK C2100H	EK C2102H	4.8				3.84	6.03
EK C2120	EK C2122	4.8	35.5	166.7	30.4	4.50	7.50
EK C2120H	EK C2122H	5.6				5.65	8.18

NOTE:

- 1) Cotter pin type connecting link is standard. Clip type connecting link is available for EKC2040, 2050 and 2060(H), if so specified.
- 2) Offset link is available.
- 3) Heat treated large roller is standard. Non-heat treatment is available if so specified.
- 4) We offer plastic and rubber roller in addition to standard steel roller.



## Double Pitch Roller Chain Attachment



(mm)

EK Chain No.		Attachment							
Standard Roller	Large Roller	A and K Type				SK and SA Type			
		A	F	F2	H1	A1	O1	A2	F1
EK C2040	EK C2042	12.70	19.0	17.4	9.10	11.10	5.2	13.5	19.8
EK C2050	EK C2052	15.88	24.1	22.0	11.10	14.30	6.8	15.9	24.6
EK C2060	EK C2062	21.43	29.2	26.7	14.70	17.50	8.7	19.1	30.6
EK C2060H	EK C2062H		31.4	28.1					
EK C2080	EK C2082	27.78	39.5	36.1	19.10	22.20	10.3	25.4	41.4
EK C2080H	EK C2082H		41.7	37.5					
EK C2100	EK C2102	33.34	50.0	45.9	23.80	28.60	14.3	31.8	53.0
EK C2100H	EK C2102H		52.2	47.3					
EK C2120	EK C2122	39.69	60.7	55.4	27.80	33.30	16.0	37.3	60.0
EK C2120H	EK C2122H		60.7	54.4					

(mm)

EK Chain No.		Attachment						Additional Weight		
Standard Roller	Large Roller	A, K, SK and SA Type			GK1 Type	D1 and D3 Type		g/Att.		
		O	S	B	G	Le	K	A, SA	K, SK	D1
EK C2040	EK C2042	3.6	9.53	19.3	4.2	26.40	9.52	3.0	6.0	1.0
EK C2050	EK C2052	5.2	11.91	24.0	5.2	32.80	11.91	6.0	12.0	2.0
EK C2060	EK C2062	5.2	14.30	28.8	-	40.80	14.27	13.0	26.0	3.0
EK C2060H	EK C2062H				6.2	44.50		17.0	34.0	
EK C2080	EK C2082	6.8	19.05	38.1	-	52.35	19.05	30.0	60.0	7.0
EK C2080H	EK C2082H				8.2	55.45		37.0	74.0	
EK C2100	EK C2102	8.4	23.81	47.6	-	63.80	23.83	56.0	112.0	12.0
EK C2100H	EK C2102H				10.2	67.05		67.0	134.0	
EK C2120	EK C2122	9.9	25.58	57.2	-	78.30	28.58	86.0	172.0	20.0
EK C2120H	EK C2122H					81.50		100.0	200.0	

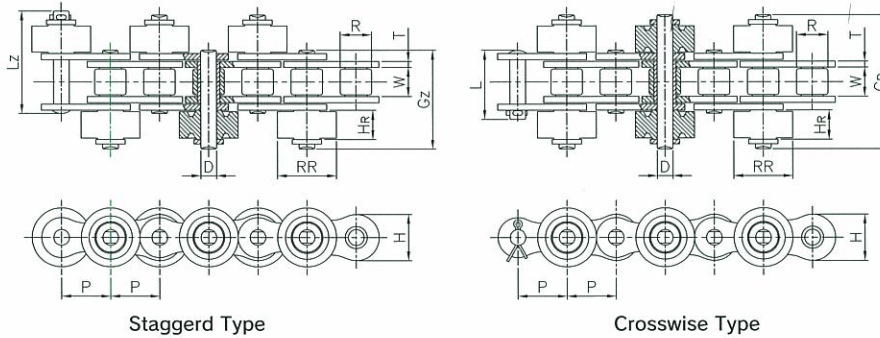
Note:

1) G1 attachment is furnished with a hole on one side.



# EK Free Flow Chain

## Side Roller Series



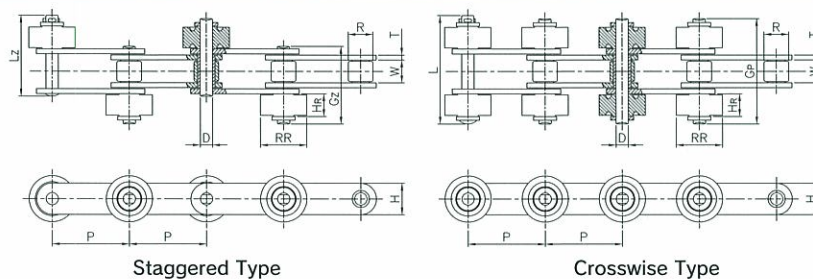
(mm)

EK Chain No.	Pitch P	Roller Dia. R	Roller Link Width W(min.)	Pin Dia. D	Link Plate	
					Thickness T	Height H(max.)
EK 40SF	12.700	7.92	7.85	3.96	1.5	12.0
EK 50SF	15.875	10.16	9.40	5.08	2.0	15.0
EK 60SF	19.050	11.91	12.57	5.95	2.4	18.1

(mm)

EK Chain No.	Pin Length				Side Roller		Average Tensile Strength(kN)	Maximum Allowable Load(kN)	Approx. Weight Kg/Meter
	Staggered Type		Crosswise Type		O.D. RR	Width HR			
	GZ	LZ	L	GP					
EK 40SF	26.10	27.30	17.70	35.8	15.88	7.80	19.10	3.63	1.63
EK 50SF	31.80	33.30	22.50	43.1	19.05	9.40	31.30	6.30	2.44
EK 60SF	40.80	42.60	27.90	55.8	22.23	12.60	44.10	8.80	3.66

## Double Pitch Type



(mm)

EK Chain No.	Pitch P	Roller Dia. R	Roller Link Width W(min.)	Pin Dia. D	Link Plate	
					Thickness T	Height H(max.)
EK C2040SF	25.40	7.92	7.85	3.96	1.5	11.7
EK C2050SF	31.75	10.16	9.40	5.08	2.0	14.9
EK C2060HSF	38.10	11.91	12.57	5.95	3.2	17.0

(mm)

EK Chain No.	Pin Length				Side Roller		Average Tensile Strength(kN)	Maximum Allowable Load(kN)	Approx. Weight Kg/Meter
	Staggered Type		Crosswise Type		O.D. RR	Width HR			
	GZ	LZ	L	GP					
EK C2040SF	26.1	27.3	36.8	35.8	15.88	7.8	19.1	3.6	1.34
EK C2050SF	31.8	33.3	44.4	43.1	19.05	9.4	31.3	6.3	1.98
EK C2060HSF	44.0	45.8	60.6	59.0	22.23	12.6	44.1	8.8	3.20

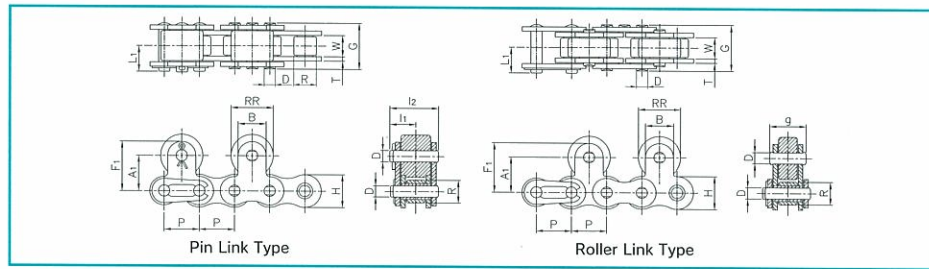
NOTE:

1) Carbon steel and plastic roller is available.



# EK Free Flow Chain

## Top Roller Series



(mm)

EK Chain No.	Pitch P	Roller Dia. R	Roller Link Width W(min.)	Pin Dia. D	Pin Length		Link Plate		Average Tensile Strength(kN)	Maximum Allowable Load(kN)
					L1	G	Thickness T	Height H(max.)		
EK 40TF	12.700	7.92	7.85	3.96	9.35	16.30	1.5	12.0	19.1	3.6
EK 50TF	15.875	10.16	9.40	5.08	11.35	20.50	2.0	15.0	31.4	6.4
EK 60TF	19.050	11.91	12.57	5.95	14.10	25.85	2.4	18.1	44.1	8.8
EK 80TF	25.400	15.88	15.75	7.93	18.45	32.50	3.2	24.1	78.5	14.7
EK 100TF	31.750	19.05	18.90	9.53	22.20	40.30	4.0	30.1	117.7	22.6

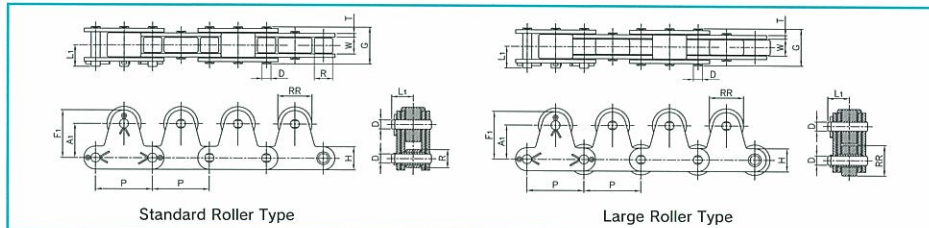
(mm)

EK Chain No.	Attachment							Approx. Weight Kg/Meter
	RR	A1	F1	B	I1	I2	g	
EK 40TF	15.88	12.7	17.45	9.5	9.55	17.70	13.3	1.5
EK 50TF	19.05	15.9	22.25	12.7	11.75	22.20	16.5	2.2
EK 60TF	22.23	18.3	26.25	15.9	15.00	27.90	21.0	3.3
EK 80TF	28.58	24.6	34.15	19.1	18.45	34.70	26.1	5.4
EK 100TF	39.68	31.7	44.40	25.4	22.20	42.35	32.3	9.1

NOTE:

- 1) Carbon steel and plastic roller is available.
- 2) Cotter pin type connecting link is furnished for EK80 and larger.
- 3) Weight shown is based on the chain with top rollers on pin links.
- 4) Specify whether top roller is on pin link or roller link when ordering.

## Double Pitch Type



(mm)

EK Chain No.		Pitch P	Roller Link Width W(min.)	Roller Diameter		Pin Dia. D	Pin Length	
Standard Roller	Large Roller			Standard Roller R	Large Roller RR		L1	G
EK C2040TF	EK C2042TF	25.40	7.85	7.92	15.88	3.96	9.55	16.3
EK C2050TF	EK C2052TF	31.75	9.40	10.16	19.05	5.08	11.75	20.5
EK C2060HTF	EK C2062HTF	38.10	12.57	11.91	22.23	5.95	16.85	29.3
EK C2080HTF	EK C2082HTF	50.80	15.75	15.88	28.58	7.93	20.10	35.8
EK C2100HTF	EK C2102HTF	63.50	18.90	19.05	39.68	9.53	23.85	43.5

(mm)

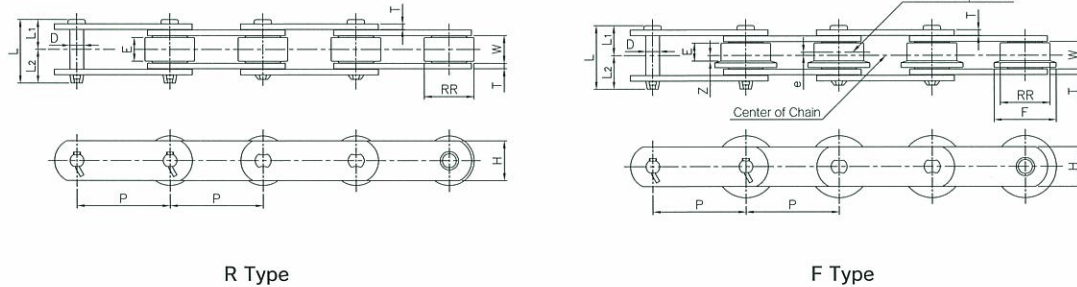
EK Chain No.		Link Plate		Average Tensile Strength kN	Maximum Allowable Load kN	Attachment		Approx. Weight Kg/Meter	
Standard Roller	Large Roller	Thickness T	Height H(max.)			A1	F1	Standard Roller Kg/Meter	Large Roller Kg/Meter
EK C2040TF	EK C2042TF	1.5	11.7	19.1	3.6	15.0	21.0	1.33	1.69
EK C2050TF	EK C2052TF	2.0	14.9	31.3	6.3	19.0	26.5	2.04	2.50
EK C2060HTF	EK C2062HTF	3.2	17.0	44.1	8.8	23.0	31.6	3.68	4.36
EK C2080HTF	EK C2082HTF	4.0	23.0	78.4	14.7	29.0	40.5	5.65	6.76
EK C2100HTF	EK C2102HTF	4.8	28.8	117.6	22.5	35.4	49.7	9.11	11.37

NOTE:

- 1) Carbon steel and plastic roller is available.
- 2) Weight shown is based on the chain having top roller every link.



# EK Standard Conveyor Chain



R Type

F Type

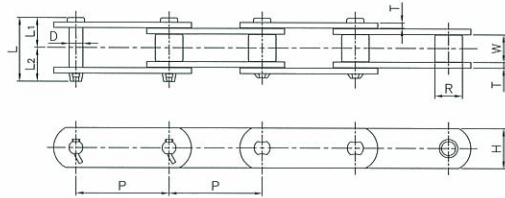
(mm)

	Chain No.		Average Tensile Strength kN[kgf]			Pitch P	Roller Dimensions													
	Chain Size	Roller Type	Standard	High Strength	Stainless		R Type		F Type											
							RR	E	RR	F	E	e	Z							
Metric Series	EK 3- 75	R/F/S	29.41	60.78	29.41	75.0	30 (31.8)	15.5	30 (31.8)	38 (42)	12.0	2.0 (1.8)	4.0 (4.3)							
	EK 3-100		{3,000}	{6,200}	{3,000}	100.0														
	EK 3-125					125.0														
	EK 3-150					150.0														
	EK 5- 75					75.0														
	EK 5-100	R/F/S	68.68	138.24	68.67	100.0	40	19.0	40	50	14.0	2.5	4.5							
	EK 5-125		{7,000}	{14,100}	{7,000}	125.0														
	EK 5-150					150.0														
	EK 7-100					100.0														
	EK 7-125					125.0														
	EK 7-150	R/F/S	84.31	171.75	73.55	150.0	45	21.5	45	60	16.0	3.0	5.0							
	EK 7-175		{8,600}	{17,500}	{7,500}	175.0														
	EK 7-200					200.0														
	EK 10-100					100.0														
	EK 10-125					125.0														
	EK 10-150	R/F/S/M	112.75	225.49	102.96	125.0	50	26.5	50	65	20.0	3.5	6.5							
	EK 10-200		{11,500}	{23,000}	{10,500}	150.0														
	EK 12-200					200.0														
	EK 12-250					250.0														
	EK 17-200					200.0														
	EK 17-250	R/F/S/M	245.10	392.16	186.32	250.0	80	45.8	80	105	34.0	5.0	12.0							
	EK 17-300		{25,000}	{40,000}	{19,000}	300.0														
	EK 20-200					200.0														
	EK 20-250					250.0														
	EK 26-250					250.0														
	EK 26-300	R/F/S/M	279.41	529.41	-	300.0	100	50.0	100	130	38.0	6.0	13.0							
EK 26-450	{28,500}		{54,000}		450.0															
EK 36-250					250.0															
EK 36-300					300.0															
EK 36-450					450.0															
EK 36-600	R/F/S/M	475.49	686.27	-	600.0	125	56.0	125	160	42.0	7.0	14.0								
EK 52-450					450.0															
EK 52-600					600.0															
EK 3- 04		R/F/S	53.92{5,500}	98.04{10,000}	44.12{4,500}								101.6	38.10	18.7	38.10	50	13.0	2.5	4.0
EK 5- 04		R/F/S	83.33	132.35	68.64								101.6	44.45	23.5	44.45	60	21.5	2.3	8.5
EK 5- 06	R/F/S/M	{8,500}	{13,500}	{7,000}	152.4	50.80	26.5	50.80	65	20.0	3.0	7.0								
EK 9- 04	R/F/S/M	137.75{14,000}	274.51{28,000}	122.58{12,500}	101.6	44.45	27.5	44.45	60	19.5	3.8	6.0								
EK 12- 06	R/F/S/M	186.27{19,000}	277.45{28,000}	132.38{13,500}	152.4	57.20	31.5	57.20	75	25.0	3.5	9.0								
EK 17- 06	R/F/S/M	205.88{21,000}	392.16{40,000}	186.32{19,000}	152.4	69.90	31.5	69.90	90	23.5	3.8	8.0								

NOTE:

- 1) EK5 and smaller is furnished with cotter pins as standard. Rivet type is also available. EK7 and larger is furnished with cotter pins.
- 2) EK3 uses the prong type cotter pin, and EK5 and larger use T type cotter pin.
- 3) \* denotes dimensions of stainless steel chain.
- 4) EK3 chain is also available with different dimensions show in parenthesis. The chain number with that dimension is EKT 3.





S and M Type

■ Chain Number Identification

EK 5-100 R □ - 2P A2

Chain Size Roller Type

Blank: Standard  
H: High Strength  
SUS:Stainless Steel

Attachment Spacing

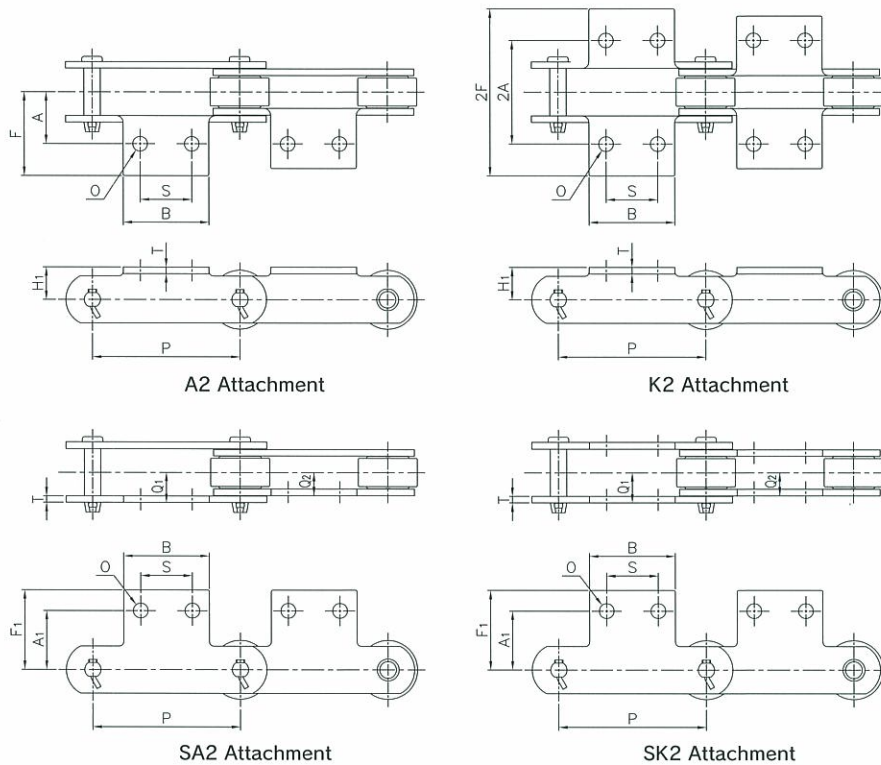
Type of Attachment

(mm)

Roller Dimensions		Roller Link	Link Plate		Pin			Approx. Weight (Kg/Meter)				Chain Size	
S Type R	M Type R	Width W	Height H	Thickness T	Dia. D	L	L1	L2	R Type	F Type	S Type		M Type
19.05 (15.9)	-	18.0 (16.1)	22.0	3.2 *(3.0)	7.94	38.0 (36.4)	18.0 (17.1)	20.0 (19.3)	2.5 2.2 2.0 1.9 5.6	2.7 2.3 2.1 2.0 5.8	2.0 1.8 1.6 1.4 5.4	-	EK 3- 75 EK 3-100 EK 3-125 EK 3-150 EK 5- 75
22.20	-	22.2	32.0	4.5	11.11	51.0	24.0	27.0	5.0 4.5 4.1 6.8	5.2 4.7 4.3 7.2	4.8 4.3 3.9 6.0	-	EK 5-100 EK 5-125 EK 5-150 EK 7-100
27.00	-	25.0	32.0	6.0	12.70	61.5	29.0	32.5	6.1 5.5 5.0 4.5 10.0	6.5 5.8 5.4 4.9 10.2	5.5 5.0 4.5 4.0 9.4	9.8	EK 7-125 EK 7-150 EK 7-175 EK 7-200 EK 10-100
30.00	31.80	30.0	38.0	6.3 *(6.0)	14.29	68.0	32.0	36.0	8.7 7.5 6.5	8.9 7.7 6.7	8.1 6.9 5.9	8.5 7.2 6.2	EK 10-125 EK 10-150 EK 10-200
34.93	38.10	36.5	45.0	7.9 *(8.0)	15.88	85.5	39.5	46.0	11.6 10.4 19.7	12.2 10.9 20.7	8.4 7.8 12.0	8.7 8.0 13.0	EK 12-200 EK 12-250 EK 17-200
40.08	44.50	50.8	50.8	9.5 *(9.0)	19.05	110.5	51.0	59.5	17.2 15.8 16.8	18.2 16.6 17.8	11.1 10.5 -	12.2 11.5 -	EK 17-250 EK 17-300 EK 20-200
-	-	45.0	50.8	9.5	20.64	103.0	47.5	55.5	14.8 26.2	15.7 27.8	- 14.7	- 16.0	EK 20-250 EK 26-250
44.45	50.80	56.6	63.5	9.5	22.23	116.0	54.0	62.0	23.4 18.7 45.7	24.7 19.6 47.6	13.8 12.4 24.0	15.0 14.5 25.0	EK 26-300 EK 26-450 EK 36-250
50.80	57.20	66.0	76.2	12.7	25.40	141.0	65.5	75.5	40.4 31.8 27.8 45.8	42.0 33.3 29.0 48.0	22.9 20.2 19.0 26.2	24.0 21.0 20.0 -	EK 36-300 EK 36-450 EK 36-600 EK 52-450
57.10	-	76.0	90.0	16.0	32.00	169.0	79.0	90.0	39.8	41.8	24.2	-	EK 52-600
20.10	-	22.2	25.4	4.8*(4.5)	9.53	51.0	24.0	27.0	4.3	4.7	3.0	-	EK 3- 04
22.20	-	27.0	28.6	6.3	11.11	63.0	30.0	33.0	6.7	6.9	4.6	-	EK 5- 04
25.80	31.75	30.0	38.0	6.3*(6.0)	11.11	66.0	31.5	34.5	7.8	8.1	5.0	-	EK 5- 06
31.75	34.90	31.0	38.0	7.9*(8.0)	15.88	78.5	37.0	41.5	10.4	10.7	8.7	9.1	EK 9- 04
34.93	38.10	36.5	45.0	7.9*(8.0)	15.88	86.0	40.0	46.0	12.1	12.4	9.3	9.6	EK 12- 06
40.08	44.40	36.5	50.8	9.5*(9.0)	19.05	94.0	43.5	50.5	17.1	17.6	12.6	13.0	EK 17- 06



# EK Standard Conveyor Chain Attachment



(mm)

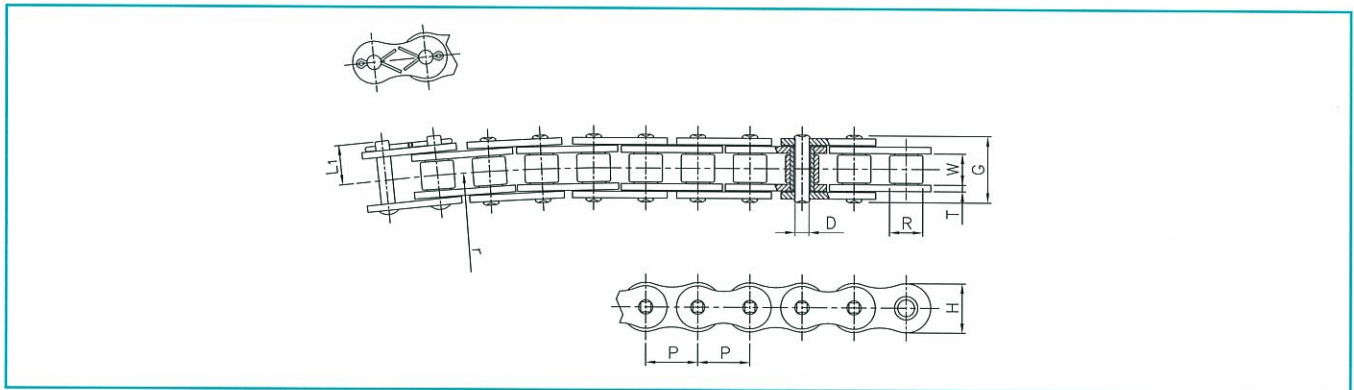
Chain No.		Pitch P	Link Plate Thickness T	A2 Attachment				K2 Attachment		SA2 & SK2 Attachment				Additional Weight Kg/Att.			
Chain Size	Roller Type			B	O	S	A	H1	F	2A	2F	A1	F1	Q1	Q2	A2	K2
EK 3- 75	R/F/S	75.0		60(55)		35(30)									0.05	0.10	
EK 3-100	R/F/S	100.0		65		40									0.06	0.12	
EK 3-125	R/F/S	125.0	3.2	75	10	50	30	15	46.0	60	92	30	42.0	15.8	12.2	0.06	0.12
EK 3-150	R/F/S	150.0		85		60		(20)								0.07	0.14
EK 5- 75	R/F/S	75.0		58		35										0.07	0.14
EK 5-100	R/F/S	100.0		65		40										0.08	0.16
EK 5-125	R/F/S	125.0	4.5	75	10	50	35	22	56.5	70	113	40	54.0	20.5	15.6	0.09	0.18
EK 5-150	R/F/S	150.0		85		60										0.10	0.20
EK 7-100	R/F/S	100.0		70		40										0.20	0.40
EK 7-125	R/F/S	125.0		80		50										0.22	0.44
EK 7-150	R/F/S	150.0	6.0	90	12	60	40	25	63.0	80	126	45	58.0	24.9	18.5	0.25	0.50
EK 7-175	R/F/S	175.0		100		70										0.28	0.56
EK 10-100	R/F/S/M	100.0		70		40										0.18	0.36
EK 10-125	R/F/S/M	125.0		80		50										0.23	0.46
EK 10-150	R/F/S/M	150.0	6.3	90	12	60	50	28	74.0	100	148	50	69.0	28.1	21.3	0.28	0.56
EK 10-200	R/F/S/M	200.0		120		80										0.37	0.74
EK 12-200	R/F/S/M	200.0		120		80										0.42	0.84
EK 12-250	R/F/S/M	250.0	7.9	165	15	125	60	38	85.0	120	170	60	82.5	34.7	26.2	0.58	1.16
EK 17-200	R/F/S/M	200.0		120		80										0.80	1.60
EK 17-250	R/F/S/M	250.0	9.5	165	15	125	75	45	108.0	150	216	70	100.6	45.2	34.9	1.11	2.22
EK 26-250	R/F/S/M	250.0	9.5	165	15	125	80	55	111.5	160	223	80	111.3	48.1	37.8	1.17	2.34
EK 3- 04	R/F/S	101.6	4.8	70	11	40	40	22	59.0	80	118	40	55.3	21.0	15.9	0.15	0.30
EK 5- 04	R/F/S	101.6	6.3	70	11	40	50	28	74.0	100	148	50	70.7	26.5	19.8	0.20	0.40
EK 5- 06	R/F/S/M	152.4	6.3	90	11	60	50	32	72.0	100	144	50	71.0	28.1	21.3	0.25	0.50
EK 9- 04	R/F/S/M	101.6	7.9	80	15	40	55	35	84.0	110	168	60	81.0	31.8	23.4	0.30	0.60
EK 12- 06	R/F/S/M	152.4	7.9	100	15	60	60	38	85.0	120	170	60	82.5	34.7	26.2	0.40	0.80
EK 17- 06	R/F/S/M	152.4	9.5	100	15	60	65	45	94.5	130	189	70	94.6	38.0	27.8	0.55	1.10

NOTE:

- 1) EK5 and smaller is furnished with cotter pins as standard. Rivet type is also available. EK7 and larger is furnished with cottered pins.
- 2) EK3 uses the prong type cottered pin, and EK5 and larger use T type cottered pin.
- 3) EK3 chain is also available with different dimensions show in parenthesis. The chain number with that dimension is EKT3.



# EK Sidebow Chain



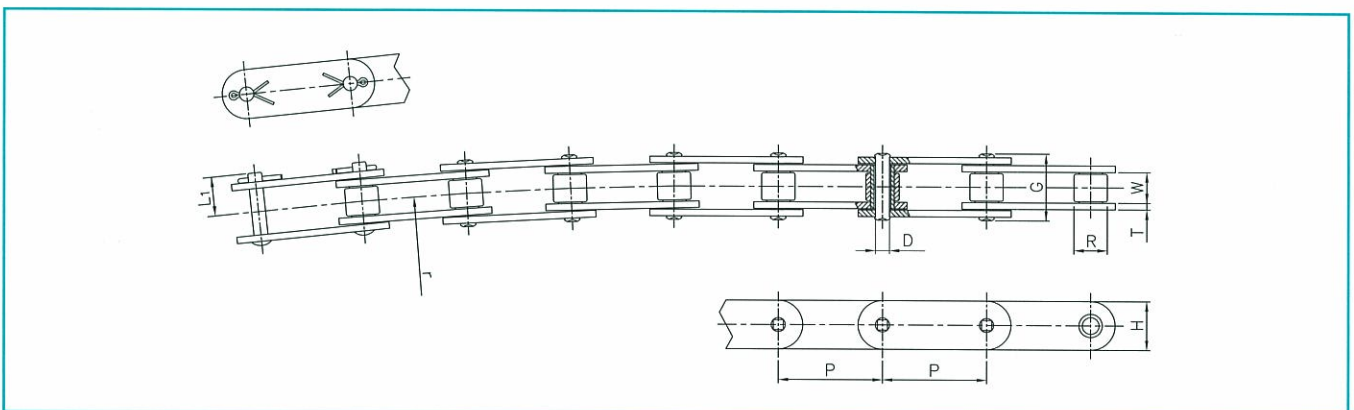
(mm)

EK Chain No.	Pitch P	Roller Dia. R	Roller Link Width W(min.)	Pin Dia. D	Pin Length		Link Plate		Minimum Radius r	Average Tensile Strength kN	Approx. Weight Kg/Meter
					L1	G	Thickness T	Height H(max.)			
EK 35SB	9.525	*5.08	4.68	3.17	7.6	11.9	1.27	9.0	254	8.0	0.31
EK 40SB	12.700	7.92	7.85	3.45	10.6	16.6	1.50	12.0	335	10.7	0.62
EK 50SB	15.875	10.16	9.40	4.37	11.9	20.4	2.00	15.0	405	20.5	1.01
EK 60SB	19.050	11.91	12.57	5.08	15.5	25.8	2.40	18.1	500	27.4	1.44
EK 80SB	25.400	15.88	15.75	7.14	19.8	33.4	3.20	24.1	915	55.8	2.54

NOTE:

- 1) \* denotes bushing chain. Dimension shown is bushing diameter.
- 2) EK sidebow chain offers attachments.
- 3) Nickel plated and stainless steel chain is available.

## Double Pitch Type



(mm)

EK Chain No.	Pitch P	Roller Dia. R	Roller Link Width W(min.)	Pin Dia. D	Pin Length		Link Plate		Minimum Radius r	Average Tensile Strength kN	Approx. Weight Kg/Meter
					L1	G	Thickness T	Height H(max.)			
EK C2040SB	25.40	7.92	7.85	3.45	9.70	16.6	1.5	11.7	675	10.7	0.50
EK C2050SB	31.75	10.16	9.40	4.37	12.10	20.4	2.0	14.9	760	20.5	0.83
EK C2060SB	38.10	11.91	12.57	5.08	15.40	25.8	2.4	17.0	1,065	27.4	1.20
EK C2080SB	50.80	15.88	15.75	7.14	18.90	33.4	3.2	23.0	1,740	55.8	2.09

NOTE:

- 1) Heavy link plate for EK C2060SB(3.2mm) and EKC2080SB(4.0mm) is available.
- 2) The chain offers attachments.
- 3) Nickel plated and stainless steel chain is available.



# EK Roller Chain Connecting Links

## ●Spring Clip Type(SPJ)

SPJ type is for EK60 and smaller. The cover plate is designed for a slip fit on the pins. It is easily held in place by a spring clip, split at one end to allow installation in grooves at the end of each pin.



## ●Spring Clip Type(SKJ)

SKJ type is designed for motorcycle drive chains with 15.875mm pitch. The cover spring plate is light press fit, resulting in a stronger fatigue strength.



## ●Cotter Pin Type(SCJ, DCJ)

SCJ and DCJ type is for EK80 and larger. SCJ is of the single pin type and DCJ is of the two pins type. The cover plate is either slip fit or press fit on the pins. Press fit type is recommended for heavy duty applications.



## ●Offset Link(OFJ, 2LO)

Offset links are used for the chain having odd pitches. Single-pitch(OFJ) and two-pitch(2LO) type are available. The single-pitch type is furnished with slip fit pin unassembled. The flat on one end of the pin prevents it from turning in the plate. The two-pitch type consists of an offset link and a roller link assembled together. The pin is press fit in the offset link plates and riveted, resulting in a longer durability. Using of offset links may lower the fatigue strength.



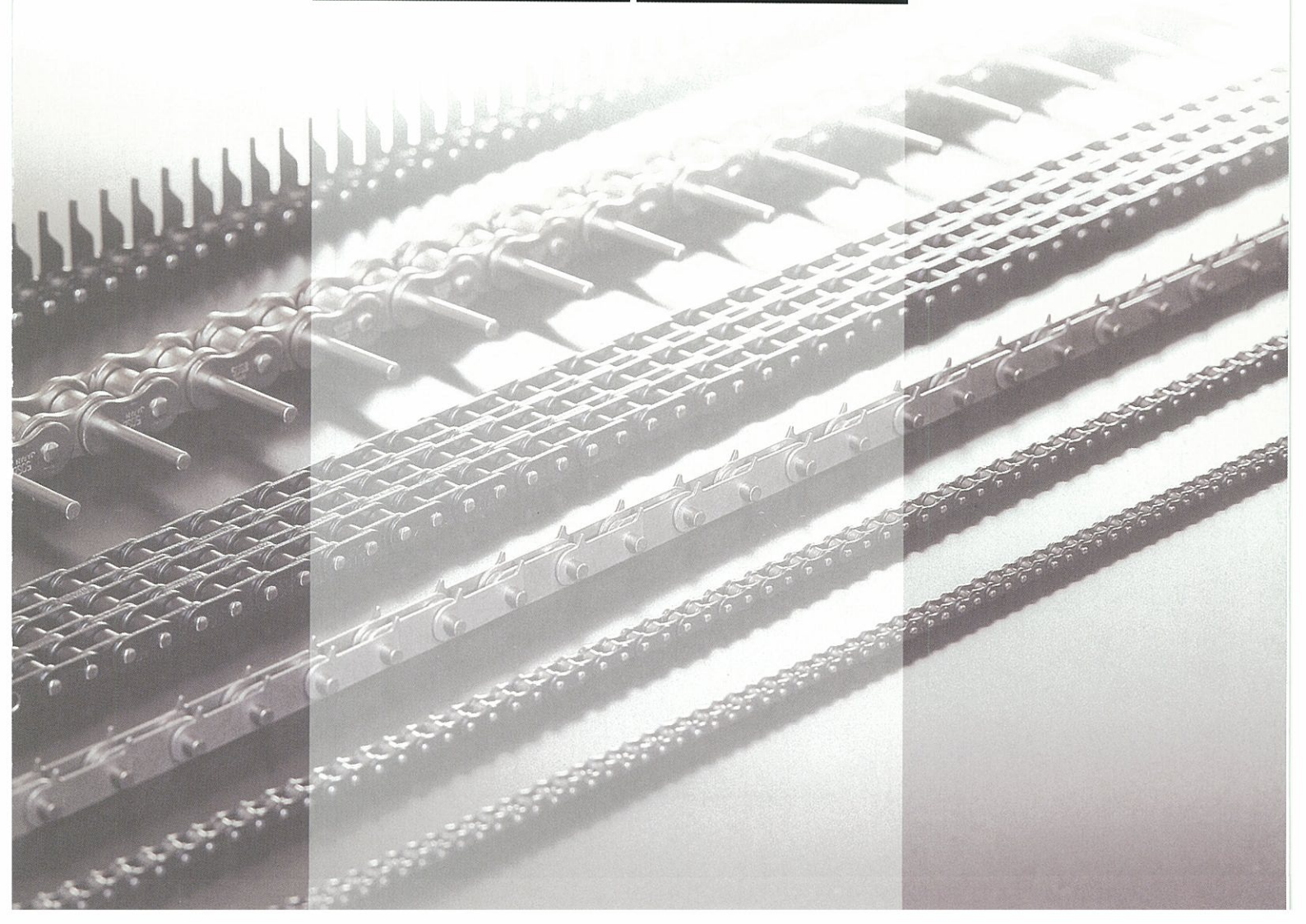


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