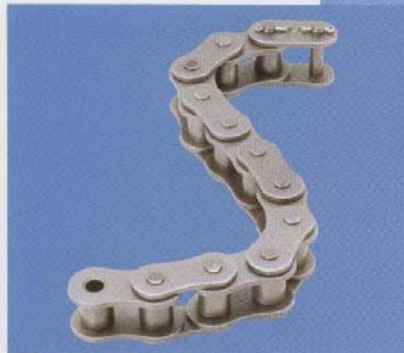


THE CHAINS

SOLID BUSHING & ROLLER

GREATEST
SBR®
QUALITY

Roller Chain & Oil Field Roller Chain



Long Life
Wear Resistance
Fatigue Resistance
High Loads
Shock Resistance



Licensed under
Spec. 7F-0025



ISO 9001
JQA-QMS873



UKAS
QUALITY
MANAGEMENT
091-A

For USA API 7F Oil Field Roller Chain

HKK Chain Manufacturing Company,
a global leader in roller chain is the only
company in the world that supplies all of
its economical standard chains with
seamless solid bushings and solid rollers.

Our oil field chains approved by the American
Petroleum Institute are high quality,
reliable and long trouble-free service life products.
HKK chains are used in oil-field drilling and
production operations, including hoisting,
pumping and draw works.



Special Features of Oil-Field Chain

SBR (Solid Bushing and Solid Roller) for long life

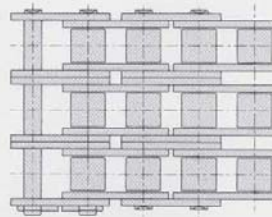
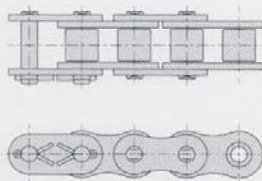
- All HKK chains consist of seamless components of solid bushings and rollers.
- Longer life than that of curled bushing and rollers due to the higher resistance to elongation.




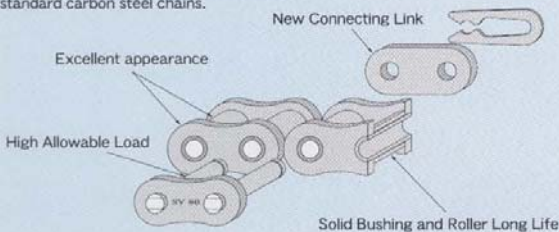
High Fatigue Strength

























- The chain is made with a special silver-color surface treatment.
- HKK's ANSI type simplex & duplex silver SBR chains both offer fatigue strength of up to 25% higher than competitor's standard chains.
- The carburized pins have an excellent wear-resistance.
- Bushed center connecting links and press-fitted center plates give strength, stability and reliability.
- The improved full-strength connecting link allows for full maximum loads by equalling the fatigue strength of the chain itself.

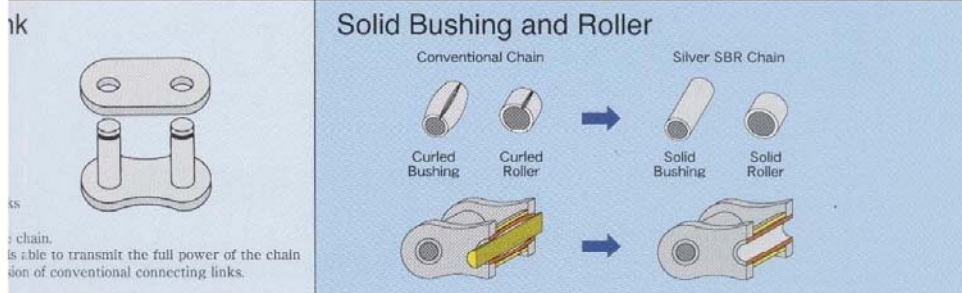
Precision Made

- Assembled by machines specifically designed to manufacture oil field chain.
- Assembled without any twist.



 <p>THE CHAINS</p> <p>Chains Series</p>	<p>Silver SBR Standard</p>  <p>GREATEST QUALITY IN ROLLER CHAIN</p>	<p>AP Aqua Proof</p> 	
	<ul style="list-style-type: none"> ○ Solid Bushing Roller ○ Long Life ○ Wear Resistance ○ High Fatigue Strength ○ Excellent appearance <p>○ Patent pending</p>	<ul style="list-style-type: none"> ○ Solid Bushing and Roller ○ Long Life ○ Wear Resistance ○ High Fatigue Strength ○ Corrosion Resistance (Water and sea water) ○ Special coated all parts. ○ Treated before assembly ○ Rustless chain 	
<p>Function</p>	Water	X	○
	Salt Water	X	○
	Chemical Corrosion	X	△
	Use Temperature	-10 to 70°C	-10 to 70°C
	Allowable Load	100%	100%
	Non Magnetic	X	X
	Maintenance Free	X	X
<p>○ EXCELLENT ○ GOOD △ FAIR × NOT RECOMMENDED</p>			
<p>Silver SBR We offer Solid bushings as standard on all our standard carbon steel chains.</p> 		<p>New Connecting Link Patent pending</p> <p>☆ HKK's full strength connecting links (slip fit type) have the same working load as the chain</p> <p>☆ This full strength connecting link is 10% compared to 80% power transmission c</p>	

NP Nickel Plated	SS Stainless Steel	MF Maintenance Free
		
<ul style="list-style-type: none"> ○ Solid Bushing & Roller ○ Nickel plated chain ○ Corrosion Resistance ○ Plated before assembly ○ Rustless chain 	<ul style="list-style-type: none"> ○ SUS 304 (Austenitic Steel) ○ The best resistance to corrosion and heat, and can be used for all chemical plants, food machines and water treatment machines, etc. ○ Rustless chain ○ Patent pending 	<ul style="list-style-type: none"> ○ Solid Bushing and Roller ○ Long Life ○ Wear Resistance ○ High Fatigue Strength ○ It is designed to hold lubricant between the pin and bushing with seals. ○ Maintenance free ○ Patent pending
 △	 ○	 △
 △	 ○	 △
 ×	 ○	 ×
 -10 to 70°C	 -40 to 400°C	 -20 to 170°C
 90%	 15%	 100%
 ×	 ○	 ×
 ×	 ×	 ○



SL Self Lube		SLR Self Lube		E Oil-field Series	
<ul style="list-style-type: none"> Oil impregnated sintered steel bushing Rollerless chain Self-lubricating chain 		<ul style="list-style-type: none"> Oil impregnated sintered steel bushing Roller reduces friction Special coated pin & plate Self-lubricating chain 		<ul style="list-style-type: none"> Solid Bushing and Roller For USA AP 7F Oil-field Roller Chain. Long life High Fatigue Strength Shock resistance 	
	X		△		X
	X		△		X
	X		X		X
	-10 to 70°C		-10 to 70°C		-10 to 70°C
	70%		80%		108%
	X		X		X
	○		○		X

Long Life
Wear resistance

- ☆ HKK's solid bushing and roller are cold forged from steel rods.
- ☆ This cold forming process produces totally cylindrical inside diameter even after being assembled into the roller link plates.
- ☆ The results in complete pin and bushing contact, which minimizes elongation from friction and uneven wear.
- ☆ Wear life is more than 2 time (by our test)

The graph plots Elongation (Y-axis, 0 to 0.4) against Hours (X-axis, 0 to 300). Two curves are shown: a green curve for 'Conventional Chains' and a yellow curve for 'Silver SBR Chains'. The green curve rises steeply, reaching an elongation of 0.3 at approximately 100 hours. The yellow curve rises more gradually, reaching an elongation of 0.3 at approximately 300 hours. This indicates that Silver SBR chains have a significantly longer wear life compared to conventional chains.

Super Super Series	DC Double Capacity	LL, AL, BL Leaf Chains
<ul style="list-style-type: none"> ○ Solid Bushing and Roller ○ Superior quality ○ Long life ○ High Fatigue Strength ○ High load ○ Shock resistance 	<ul style="list-style-type: none"> ○ Solid Bushing and Roller ○ High load ○ Shock resistance ○ Single strand chain that offers the same tensile strength as double strand chain ○ 50% Cost Savings ○ Patent pending 	<ul style="list-style-type: none"> ○ Fork lift truck ○ Container Carrier ○ Counter weight chain
X	X	X
X	X	X
X	X	X
-10 to 70°C	-10 to 70°C	-10 to 70°C
135%	170%	Case by case
X	X	X
X	X	X

◎ EXCELLENT ○ GOOD △ FAIR × NOT RECOMMENDED

High Fatigue Strength

Maximum Allowable Load

- ☆ Specially treated pins provide much higher fatigue strength.
- ☆ Working load improvement
 - 15% Size under # 50
 - 25% Size # 60 through # 160
 - 22% Size # 180
 - 15% Size # 200 and # 240

