

Cereals Processing and Feed Milling Chains.



Material Processing Solutions Since 1926.



Get in Touch With Us

John King Chains Limited

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ReV.Zb.UZ.ZUZ4
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From Survey to Drawing to Production to Installation Your integrated supply partner.

The special considerations in maintaining plant and equipment in the food production environment are well understood. There is an ongoing requirement to ensure cleanliness, avoid contamination and respect the special demands of working in hygiene critical environments. John King Chains group capabilities and expertise are uniquely equipped to serve the industry with a full spectrum of essential off and onsite engineering services ensuring customers equipment is in the best condition to maintain essential processes.





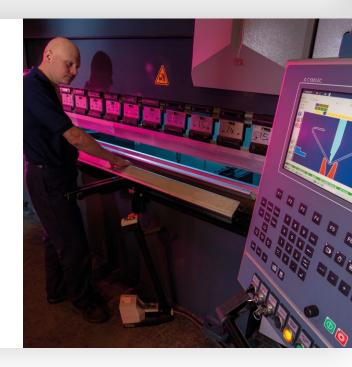
Inspection, Survey and Consultation.

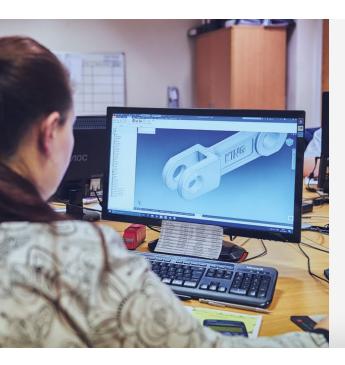
As part of the supply package qualified engineers will come to site and inspect items of plant and equipment to establish and report on the condition. Subsequent consultation generally includes means for improvement such as: materials employed, design, construction, implementation, additional operation and maintenance advice.



Industry Leading Steel Processors.

With decades of in-house experience in metal processing and fabrication, we use the latest technology and techniques to deliver quality, bespoke solutions for our clients. From laser cutting to punching, bending and welding our skilled team will deliver a high quality solution that is both on time and in budget.







Design and Drawing Service.

Design and technical drawing is part of our service. We create the technical drawing directly from our site survey or work with you to create a full design brief to meet your fabrication needs. We will support you in developing and improving the plant and equipment.



Fully Integrated Installation.

Our site service team comprising experienced mechanical fitters and fabricators will install all types of mechanical handling equipment, metal fabrications and equipment at your premises in the agreed timescale with a high degree of competence whilst operating under strict safety protocol.



The Undisputed Kings of Laser Profiling and Fabrication.



FROM SURVEY TO DRAWING TO PRODUCTION – THE ONE STOP SHOP

John King Laser was established in 2007 primarily to service the mechanical handling division. It was well understood that the available capacity surpassed that of in-house requirements and the business model from the outset was to sell laser cut, formed and fabricated parts to a wide variety of customers producing a wide range of machinery and equipment.

More recently John King Laser has been able to support the groups site service division where bespoke fabrications have been required.

The laser division has remained autonomous from the start whilst critically benefitting as part of the Group structure in investing in new technology to give the division a distinct advantage in efficiency and quality of products produced. The recent installation of the newest and probably best laser capacity in the country is testament to this.

Manufacturing Capabilities.

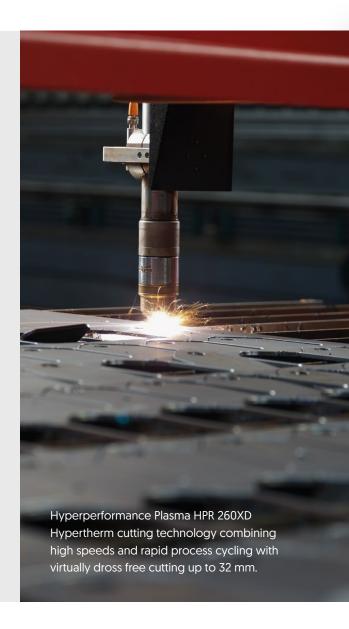
The 2020s business is a lean enterprise working from a modern manufacturing facility employing best production techniques including fibre laser technology, plasma for thicker material sections, CNC machining and robotics. Group structure provides the internal resource to implement production management systems that ensures highest quality, consistent and competitive products produced in a safe environment. All manufacturing is conducted within the dictates of ISO 9001 to the latest 2015 standard to ensure quality objectives are monitored and maintained.

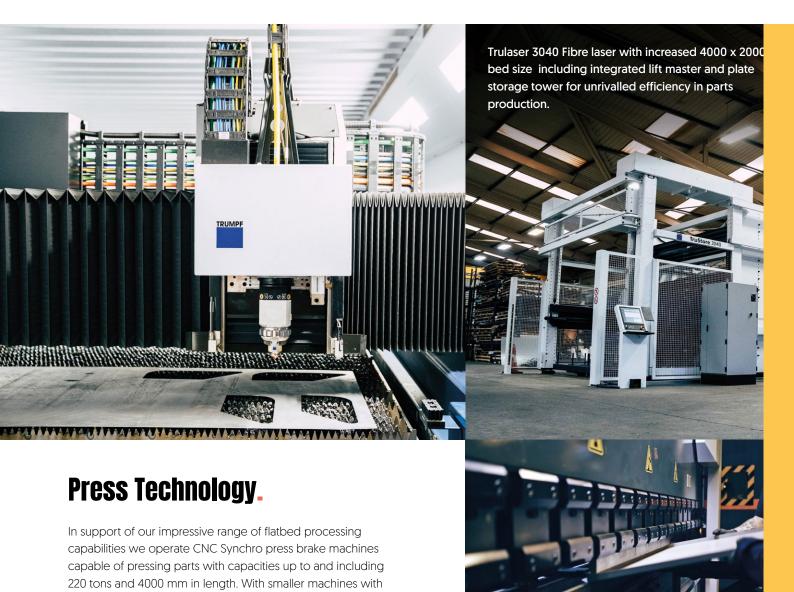
LASER CUTTING CAPABILITIES

- Mild and carbon steel up to 25 mm.
- Stainless steel up to 15 mm.
- Aluminium up to 12 mm.

FLAME CUTTING AND PLASMA CUTTING CAPABILITIES

- Machine bed size of 4 m x 2.5 m.
- Flame cutting up to 110 mm.
- Plasma cutting up to 30 mm.





Welding and Fabrication.

volume production.

2000 mm gap and 100 mm stroke for smaller parts in higher

Our welding and fabrication capacity includes a high level of skill in both internal and external projects. This enables John King's laser and fabrication division to offer an all-encompassing manufacturing service. The site service division will thereafter take charge of the installation as required.



A new precipitator dust

Site Services The Complete Supply Package.



Bulk handling experts you can rely on.

The John King Site Service Division employ a highly skilled team of engineers solely dedicated to the service and maintenance of bulk material handling equipment which includes – installing, servicing and maintaining all aspects of mechanical handling equipment and related plant and machinery.

The market demands high quality chains and expert installation. John King Chains uniquely offer both. Make the most of it.

- Secure optimum reliability of your equipment through best quality chains and conveyor component spares.
- Take advantage of the quickest deliveries of conveyor spares of any manufacturer in the market.
- Let the conveyor specialist look after your equipment to ensure optimum performance and service life.
- Allow us to highlight technical improvement to enhance performance of your existing equipment.
- Enter into a professional partnership to develop a service strategy tailored to suit your needs.





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Site Services Scope of Supply.

- Inspection and maintenance of all mechanical handling equipment by specialist engineers
- Trouble shooting and problem solving within mechanical handling equipment.
- Supply of high quality conveyor chain and related conveyor spares.
- Specialist in supply of heat resistant components.
- In house laboratory for material and heat treatment analysis with full metallurgical support.
- Manufacture and installation of all types of fabrications from pre-hardened plate, stainless steels or standard materials.
- Replacement of sections or full conveyors and elevators including manufacture and installation.
- Design and construction of complete bulk handling equipment including installation service.
- Repair and maintenance of all related plant and equipment.

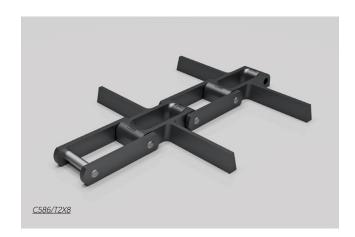
Safety at Work.

We are committed to providing and maintaining a healthy and safe environment for all employees and to protect the safety of contractors, customers, visitors and all other persons affected by our operations.

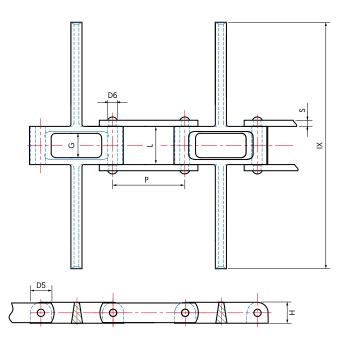
This is achieved by assessing all significant risks, designing safe systems of work and eliminating hazards where reasonably practicable. **This being encapsulated within the company HSE** policy and enshrined in the everyday culture of our business.

Cast Combination Trough Scraper Chains.





John King have been the principal producer of cast combination chains for many years. This includes the flighted version typically employed in grain conveyors with a cast integral flight. Their experience is essential in material selection which combines strength and wear resistance as well as ductility. An additional version is available on C664 and C762 where an injection moulded plastic flight is riveted to the outer link. For corrosion resistance chains can be produced with stainless steel pins, a typical example being green malt conveying.



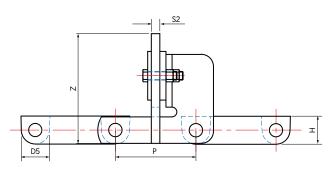
Cast Combination Trough Scraper Chains										
		Barrel	Pin	Daturaan		Side	bars			
Chain Number	Pitch	Outside Diameter	Diameter	Between Sidebars	Gearing	Thickness	Height	Overall Width	Working Load	Average Weight
Number	P	D5	D6	L	G	S	Н	IX		
				m	ım				lbs	kg/m
C586/T2X5	58.6	17	8	32	20	5	16	124	6,000	2.89
C586/T2X8	58.6	17	8	32	20	5	16	200	6,000	3.37
C586/T4X8	58.6	17	8	32	20	5	16	200	6,000	2.87
C664/T2X8	66.4	23	11	37	25	5	20	200	12,000	5.24
C664/P2X8 *	66.4	23	8	37	20	5	16	200	12,000	3.89
C664/T2X9	66.4	23	11	37	25	5	20	220	12,000	5.90
C762/T2X12	76.2	32	14	43	26	6	30	290	24,000	10.86
C762/P2X12 *	76.2	32	14	43	26	6	30	290	24,000	7.86
C762/T2X15	76.2	32	14	55	35	6	30	370	24,000	11.80

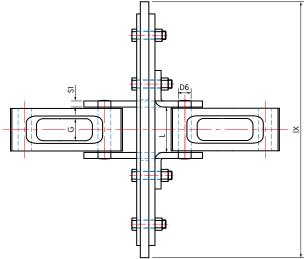
Combination Eleveyor Chains.





For grain eleveyors where the product is transported from the horizontal up a "swan neck" this is commonly seen to employ the cast combination chain with an F attachment. To the attachment a wiper blade is fixed which acts as the conveying medium. Three standards are typical as OEM replacements, but a variety of widths can be produced if so required.

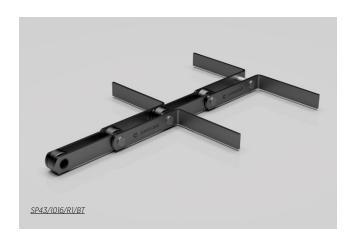




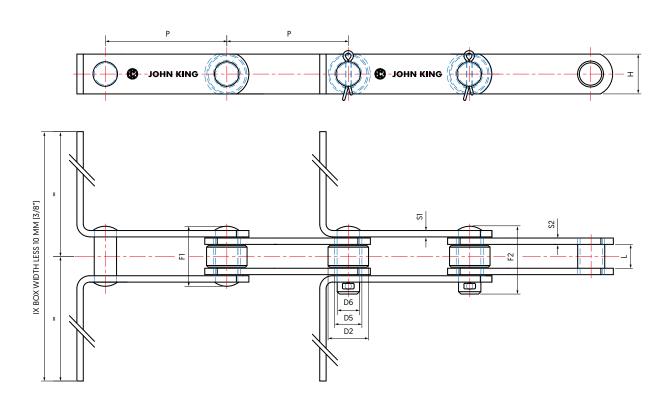
	Combination Eleveyor Chains											
		Barrel	Pin	Between			Sidebars		Overall	Overall		
Chain Number	Pitch	Outside Diameter	Diameter	Sidebars	Gearing	Thick	ness	Height	Width	Flight Height	Breaking Load	Average Weight
	Р	D5	D6	L	G	S1	S2	Н	IX	Z		
					m	m					lbs	kg/m
C664/F4X190	66.4	23	11	37	25	5	8	20	190	90	12,000	6.98
C664/F4X210	66.4	23	11	37	25	5	8	20	210	90	12,000	7.12
C762/F4X280	76.2	32	14	43	30	6	10	30	280	115	24,000	12.8

Flush Roller Box Scraper Chains.





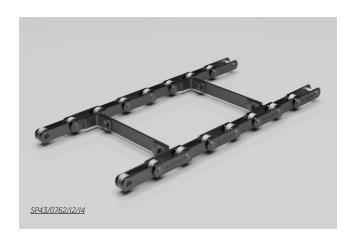
This series conforms to the British standard BS 4116 in all areas apart from D roller diameter. In this case the chain employs a flush style roller which is equivalent in diameter to the link plates height. This flush roller is not therefore a carrier style but will allow for improved sprocket gearing action as compared to a bush style chain. Flights are normally BT style being bent integral, but WT the welded version are also an option. OEM standards follow fixed IX dimensions being the overall flight width. Other options are available on request.



Flush Roller Box Scraper Chains														
	Pitch	Rollers	Bushings	Pins	Over All B	in & Cotter	Between		Sidebars		Overall			_
Chain	FILCII	Outside	Diameter	Diameter	Over-All P	iii & Cotter	Sidebars	Thicl	kness	Height	Width	Breakir	ng Load	Average Weight
Number	P	D2	D5	D6	F1	F2	L	S1	S2	Н	IX			TTO.g.n.
		mm										kN	kN*	kg/m
SP43/0762/R1/BT	76.2	25.4	17	14	37	42	15	4	4	25	TBA**	43	70	TBA
SP43/1016/R1/BT	101.6	25.4	17	14	37	42	15	4	4	25	TBA**	43	70	TBA
SP75/1016/R1.5/BT	101.6	38.1	23.6	19	43	50	19	5	4	40	TBA**	75	125	TBA
SP75/1524/R1.5/BT	152.4	38.1	23.6	19	43	50	19	5	4	40	TBA**	75	125	TBA

Twin Trace Roller Chains.



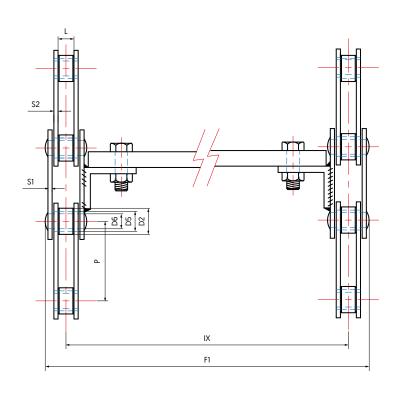


This format is a popular choice in milling applications. Chains conform to British standard BS 4116 and operating in twin strand format with strands made common with a flight bar bolted to a welded angle iron L style attachment. Often described as shrouded chain it is encapsulated within a channel form as part of the conveyor panel profile and as such is separated from the material. Clearly the UTS is double that of single strand. The real advantage is an open discharge area which is beneficial for sticky materials and reduction in carry over.

John King's relieved plate



John King's unique relieved plate allows for maximum integrity flush weld with minimum weld projection beyond the angle. This ensures flatness and ensures the weld is not exposed to wear and premature failure.



		Rollers	Bushings	Pins				S	Sidebars			_	
Chain	Pitch		Diameter	Diameter	Overal	l Width	Between Sidebars	Thicl	kness	Height		ng Load Strand	Averag Weigh
Number	P	D2	D5	D6	IX	F1	L	S1	S2	Н			
					m	m					kN	kN*	kg/m
SP43/0762/I2/I4	76.2	31.75	17	14	TBA**	IX + 37	15	4	4	25	43	70	TBA*
SP43/1016/12/14	101.6	31.75	17	14	TBA**	IX + 37	15	4	4	25	43	70	TBA*
SP75/0762/12/14	76.2	47.6	23.6	19	TBA**	IX + 43	19	5	4	40	75	125	TBA*
SP75/1016/12/14	101.6	47.6	23.6	19	TBA**	IX + 43	19	5	4	40	75	125	TBA*
SP135/1016/I2/I4	101.6	66.7	33	26.9	TBA**	IX + 56	25.4	7	5	50	135	200	TBA*
SP135/1524/12/14	152.4	66.7	33	26.9	TBA**	IX + 56	25.4	7	5	50	135	200	TBA*

* Weight per metre based on dimension IX therefore to be advised.

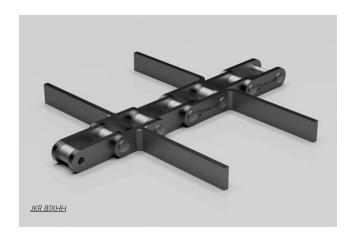
12 Flight every outer link. 14 Flight every second outer link.

** Flight width IX to suit customer requirements.

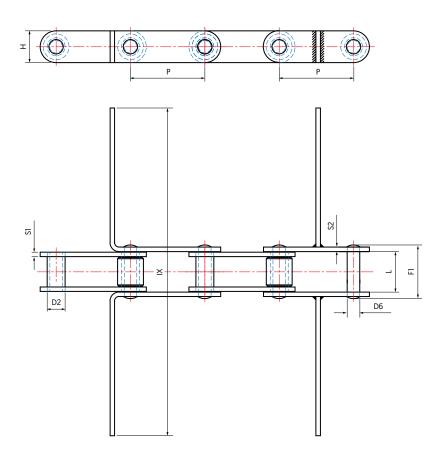
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81X Chains 'The Grain Chain'.





Worldwide the most common running gear encountered is the American Series Roller Chain 81X. This we therefore describe as the GRAIN CHAIN. It is always 2.609" pitch [66.27 mm]. As operational duty has increased with it has the demand for a heavy duty version. This has been achieved by increasing the height and thickness of the side plates, although maintaining the same gearing details. Where necessary therefore the heavier versions can be used to upgrade existing equipment. Flights are normally WT the welded version, but John King uniquely offer BT style being bent integral produced to customer standards.

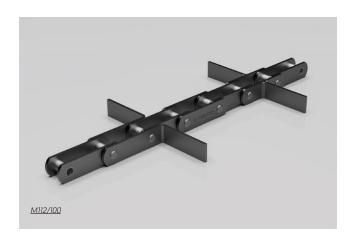


	81X Chains 'The Grain Chain'										
		Rollers	Pin		Daturan		Sidebars				
Chain Number	Pitch	Outside Diameter	Diameter	Over-All Pin	Between Sidebars	Thick	rness	Height	Overall Width	Tensile Strength	
Number	P	D2	D6	F1	L	S1	S2	н	IX		
	mm				m	ım				kN	
JKR 81X	66.27	23	11.11	47.2	27	4	4	28.58	TBA*	111	
JKR 81XH	66.27	23	11.11	58.2	27	7.94	5.56	31.75	TBA*	176	
JKR 81XHH	66.27	23	11.11	63.5	27	7.94	7.94	31.75	TBA*	186	

M SERIES DIN 8167

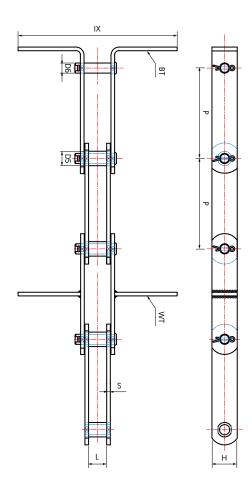
Metric Trough Scraper Chains.





Throughout Europe metric standard chain is used in trough conveyors for grain transport. M series according to DIN 8167 is the most typical of the two main ranges that are predominant. The chains are exactly as the standard but in bush form without roller. The flights are normally BT style being bent integral and these are normally produced to customer preference, but WT the welded version allows for quick supply from stock plain chain. As these chains are produced in larger volumes they generally prove to be an economic option.

	M	letric (Convey	or Ch	ains IS	O 1977	, DIN 8	3167 (M	1 Series	;]
		Pitch	Bushings	Pins	Between	Side	bars	Overall	Brea	
	Chain		Diam	neter	Sidebars	Thickness	Height	Width	Lo	
	Number	Р	D5	D6	L	S	Н	IX	DIN standard	John King**
					mm				kl	N
	M56	63	15	10	24	4	30	TBA*	56	85
	M56	80	15	10	24	4	30	TBA*	56	85
	M56	100	15	10	24	4	30	TBA*	56	85
	M56	125	15	10	24	4	30	TBA*	56	85
	M56	160	15	10	24	4	30	TBA*	56	85
	M80	80	18	12	28	5	35	TBA*	80	125
	M80	100	18	12	28	5	35	TBA*	80	125
;	M80	125	18	12	28	5	35	TBA*	80	125
Š	M80	160	18	12	28	5	35	TBA*	80	125
3	M80	200	18	12	28	5	35	TBA*	80	125
5	M112	80	21	15	32	6	40	TBA*	112	175
5	M112	100	21	15	32	6	40	TBA*	112	175
-	M112	125	21	15	32	6	40	TBA*	112	175
FORG WILL LICE	M112	160	21	15	32	6	40	TBA*	112	175
	M112	200	21	15	32	6	40	TBA*	112	175
5	M160	100	25	18	37	7	50	TBA*	160	260
DI CONTING	M160	125	25	18	37	7	50	TBA*	160	260
נ	M160	160	25	18	37	7	50	TBA*	160	260
5	M160	200	25	18	37	7	50	TBA*	160	260
	M160	250	25	18	37	7	50	TBA*	160	260
5	M224	125	30	21	43	8	60	TBA*	224	340
2	M224	160	30	21	43	8	60	TBA*	224	340
ascoller.	M224	200	30	21	43	8	60	TBA*	224	340
2000	M224	250	30	21	43	8	60	TBA*	224	340
Ĭ,	M224	315	30	21	43	8	60	TBA*	224	340
9	M315	160	36	25	48	10	70	TBA*	315	520
	M315	200	36	25	48	10	70	TBA*	315	520
2	M135	250	36	25	48	10	70	TBA*	315	520
5	M315	315	36	25	48	10	70	TBA*	315	520
-	M315	400	36	25	48	10	70	TBA*	315	520

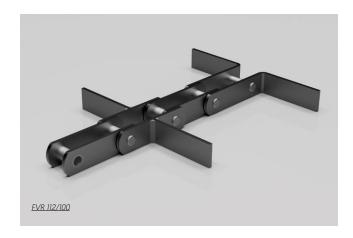


Chains can be supplied riveted or cottered on both sides. Flight Options: **WT** denotes flight bent integral with linkplate. Flight Options: **WT** denotes flight welded to side plate mid pitch, **BT** denotes flight bent integral with linkplate. Flight width IX to suit customer requirements. ** Breaking Load with heat treated Plates.

FV SERIES DIN 8165

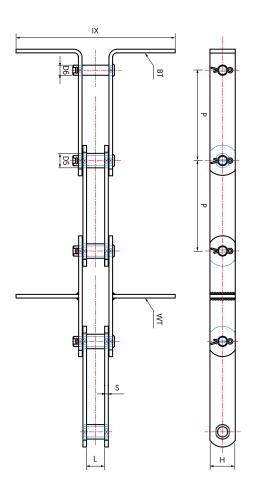
Metric Trough Scraper Chains.





As with M series, FV chains are predominant. FV chains conform to DIN 8165 and as with M series are a good commercial option. The reference can be easily followed with prefix denoting the breaking strength in kilo newtons and the suffix being the pitch. The flights are normally BT style being bent integral and these are normally produced at widths to suit customer preference. WT the welded version allows for quick supply from stock plain chain.

	Metric Conveyor Chains DIN 8165 (FV Series)										
Ch also	Pitch	Bushings Diam	Pins neter	Between Sidebars	Side Thickness	bars Height	Overall Width		king ad		
Chain Number	Р	D5	D6	L	S	н	IX	DIN standard	John King**		
				mm				k	N		
FV40	40	15	10	18	3	25	TBA*	40	47		
FV40	63	15	10	18	3	25	TBA*	40	47		
FV40	80	15	10	18	3	25	TBA*	40	47		
FV40	100	15	10	18	3	25	TBA*	40	47		
FV63	63	18	12	22	4	30	TBA*	64	75		
FV63	80	18	12	22	4	30	TBA*	64	75		
FV63	100	18	12	22	4	30	TBA*	64	75		
FV63	125	18	12	22	4	30	TBA*	64	75		
FV63	160	18	12	22	4	30	TBA*	64	75		
FV90	80	20	14	25	5	35	TBA*	100	115		
FV90	100	20	14	25	5	35	TBA*	100	115		
FV90	125	20	14	25	5	35	TBA*	100	115		
FV90	160	20	14	25	5	35	TBA*	100	115		
FV90	200	20	14	25	5	35	TBA*	100	115		
FV112	100	22	16	30	6	40	TBA*	120	170		
FV112	125	22	16	30	6	40	TBA*	120	170		
FV112	160	22	16	30	6	40	TBA*	120	170		
FV112	200	22	16	30	6	40	TBA*	120	170		
FV112	250	22	16	30	6	40	TBA*	120	170		
FV140	100	26	18	35	6	45	TBA*	145	180		
FV140	125	26	18	35	6	45	TBA*	145	180		
FV140	160	26	18	35	6	45	TBA*	145	180		
FV140	200	26	18	35	6	45	TBA*	145	180		
FV140	250	26	18	35	6	45	TBA*	145	180		
FV180	125	30	20	45	8	50	TBA*	190	250		
FV180	160	30	20	45	8	50	TBA*	190	250		
FV180	200	30	20	45	8	50	TBA*	190	250		
FV180	250	30	20	45	8	50	TBA*	190	250		
FV250	125	36	26	55	8	60	TBA*	275	300		
FV250	160	36	26	55	8	60	TBA*	275	300		
FV250	200	36	26	55	8	60	TBA*	275	300		
FV250	250	36	26	55	8	60	TBA*	275	300		
FV315	160	42	30	65	10	70	TBA*	370	480		
FV315	200	42	30	65	10	70	TBA*	370	480		
FV315	250	42	30	65	10	70	TBA*	370	480		
FV315	315	42	30	65	10	70	TBA*	370	480		



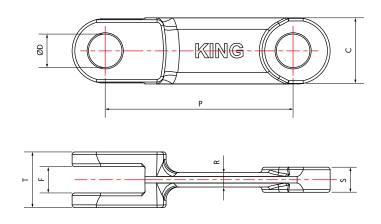
Chains can be supplied riveted or cottered on both sides. Flight Options: **WT** denotes flight bent integral with linkplate. * Flight Options: **WT** denotes flight welded to side plate mid pitch, **BT** denotes flight bent integral with linkplate. * Flight width IX to suit customer requirements. ** Breaking Load with heat treated Plates.

Forged Link Standard Series.





This series represents the leading product within the John King programme. Forged fork link chain has proven to be one of the most reliable conveying mediums offering a combination of versality, strength and abrasion resistance. These chains, originally of european origin, are now established worldwide. With a wide variety of materials, heat treatments and flight formats the chain is successful in both drag and enmasse handling.



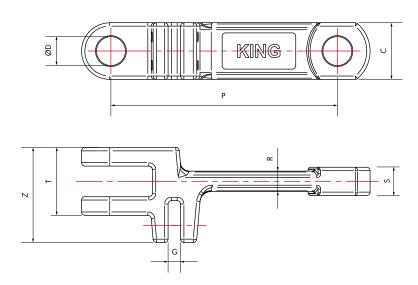
Forged Link Standard Series											
Chain	P	T	С	S	F	R	Bolt Hole Diameter		Breaking Loads		Weight
Number							D	TN*	CN*	CD*	
				mm					kN		kg/m
JKF 10160	101.6	24	36	8	10	6	14	110	120	210	3.50
JKF 10160R	101.6	30	36	13	14	9	14	180	195	330	4.80
JKF 12514	125	30	36	13	14	10	16	163	175	290	4.40
JKF 14214	142	30	40	13	14	9	18	180	195	330	4.90
JKF 14218	142	42	50	19	20	11	25	290	320	550	9.40
JKF 14222	142	54	50	25	27	16	25	370	400	655	12.20
JKF 14226	142	62	50	28	30	15	25	440	470	790	13.60
JKF 16018	160	46	46	22	24	15	22	320	342	560	9.30
JKF 16025	160	50	53	23	25	13	25	370	400	655	10.80
JKF 20025	200	60	50	25	27	18	25	380	410	670	11.30
JKF 20028	200	66	60	30	32	20	30	500	540	900	16.70
JKF 21640	216	64	72	26	28	20	35	585	630	1035	20.10
JKF 22040	220	64	72	26	28	20	35	585	630	1035	20.30
JKF 22050	220	58	75	28	30	25	32	710	760	1260	19.10
JKF 22060	220	71	75	31	33	21	35	735	790	1300	22.90
JKF 25040	250	70	75	32	34	18	32	735	860	1430	18.80
JKF 26035	260	65	75	31	33	20	32	840	900	1480	19.80
JKF 26040	260	70	75	31	33	20	32	840	900	1480	21.00
JKF 26045	260	78	75	35	37	20	32	930	1000	1650	21.80

Forged Link Double Series.





For double strand assemblies John King have a range of links following the standard format but with a forged "double clevis" into which a scraper can be mounted. The flight blade can be retained by either a U bolt or standard fasteners. The chain allows for some built in clearance between strands which obviates any potential problems that may be associated with mismatch. Double strand allows for improved discharge particularly relevant in conveying sticky materials.



Forged Link Double Series											
Chain	P	т	С	s	z	G	Bolt Hole Diameter		Breaking Loads		Weight
Number							D	TN*	CN*	CD*	
				mm					kN		kg/m
JKF 142182	142	42	50	19	70	13	25	290	320	550	11.80
JKF 142262	142	62	50	28	87	13	25	440	470	790	16.70
JKF 160252	160	50	53	23	82	13	25	370	400	655	13.60
JKF 175402	175	72	60	30	95	16	30	540	580	955	20.30
JKF 200252	200	60	50	25	81	12	25	380	410	670	13.00
JKF 200402	200	70	60	30	95	13	30	540	580	955	19.30
JKF 250252	250	60	50	25	81	12	25	380	410	670	12.00
JKF 250402	250	70	60	30	95	13	30	540	580	955	17.70
JKF 250602	250	100	70	45	140	21	35	975	1050	1720	35.20

Forged conveyor chain.

King manufacture an unrivalled range of high quality forged chains. The standard is for an alloy steel forging and pin case hardened for wear resistance. Specifications can be varied dependent on the operating environment.

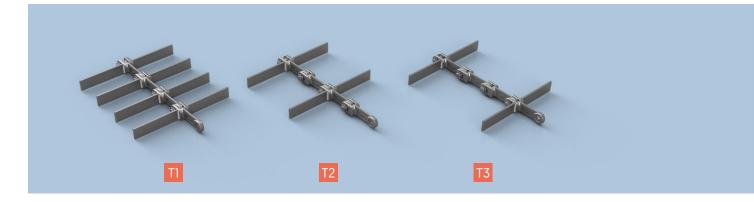
Standard Hardening Disciplation Designation Design	Standard			ged chain links	prop lorg			
	hardening	Standard hardening	Treatment	Standard Hardening			JK Reference	Material reference
20C/m/nTn	depth	value	Designation		AISI	DIN		CTANDARD CHALITIFS
18MmCrB5	0010	50.00 UDG		CASE LIABBERING		10401	T11	
20MnCr5	0,8-1,0 mn				A29/A29M			
2 INICIMO4	0,8-1,0 mr				-			
C45	0,8-1,0 mr							
### ACCIMONAL CD 1,7225 4140 HARDENING AND TEMPERING TH 1100-1300 N/mm² CORROSION AND ACID RESISTANT MATERIAL SSCINI 18-10 V 2 A SS304 1,4301 304 SS316 1,4571 316 SS 420 1,4034 420 HARDENING AND TEMPERING TH 50-52 HRC	0,8-1,0 mr		-					
X5CrNi 18-10 [V 2 A] SS304 1.4301 304 X6CrNi 18-10 [V 2 A] SS316 1.4571 316 X46CrNi 18-10 [V 2 A] SS316 1.4571 316 X46CrNi 18-10 [V 2 A] SS316 1.4571 316 X46CrNi 3 SS 420 1.4034 420 HARDENING AND TEMPERING TH 50-52 HRC								
X5CrNi		1100-1300 N/mm²	TH	HARDENING AND TEMPERING	4140	1.7225		
X6CrNiMoTi 17-12 2 [V 4 A] SS316 1.4571 316 X46Cr13 SS 420 1.4034 420 HARDENING AND TEMPERING TH 50-52 HRC								
X46Cr13								
					316	1.4571	SS316	X6CrNiMoTi 17-12 2 (V 4 A)
Naterial reference		50-52 HRC	TH	HARDENING AND TEMPERING	420	1.4034	SS 420	X46Cr13
X10CrAISI7								HEAT – RESISTANT MATERIAL
XI5CrNiSi 20-12				HEAT RESISTANCE IN AIR				
Material reference		420-620 N/mm²		800° C MAX		1.4713	JK HK	X10CrAlSi7
Material reference		500-750 N/mm²		1000°C MAX	309	1.4828	JK HH	X15CrNiSi 20-12
DIN AISI Designation Value	Standard hardenin	Standard hardening				Mate	IV Reference	Material reference
16MnCr5 590M17 1.7131 5115 CASE HARDENING CH 58-62 HRC	depth	value		Standard Hardening	AISI	DIN	JK Reference	Material reference
15NiCr13 633M13 1.5752 3310 CASE HARDENING CH 58-62 HRC 18CrNi8 1.592 CASE HARDENING CH 58-62 HRC C45 080M46 1.0503 1045 INDUCTION HARDENING IH 52-56 HRC HARDENING AND TEMPERING TH 45-50 HRC 42CrMo4 708M40 1.7225 4140 INDUCTION HARDENING IH 56-60 HRC HARDENING AND TEMPERING TH 56-60HRC CORROSION AND ACID RESISTANT MATERIAL X46Cr13 420S29 1.4034 420 HARDENING AND TEMPERING TH 50-52 HRC							BS970 1991	STANDARD QUALITIES
18CrNi8 1.592 CASE HARDENING CH 58-62 HRC C45 080M46 1.0503 1045 INDUCTION HARDENING IH 52-56 HRC HARDENING AND TEMPERING TH 45-50 HRC 1.7225 4140 INDUCTION HARDENING IH 56-60 HRC HARDENING AND TEMPERING TH 56-60HRC 1.7225 1.4034 420 HARDENING AND TEMPERING TH 50-52 HRC	0,8-1,0 mr	58-62 HRC	CH	CASE HARDENING	5115	1.7131	590M17	16MnCr5
C45 080M46 1.0503 1045 INDUCTION HARDENING IH 52-56 HRC HARDENING AND TEMPERING TH 45-50 HRC 42CrMo4 708M40 1.7225 4140 INDUCTION HARDENING IH 56-60 HRC HARDENING AND TEMPERING TH 56-60 HRC CORROSION AND ACID RESISTANT MATERIAL X46Cr13 420S29 1.4034 420 HARDENING AND TEMPERING TH 50-52 HRC	0,8-1,0 mr	58-62 HRC	CH	CASE HARDENING	3310	1.5752	633M13	15NiCr13
HARDENING AND TEMPERING TH 45-50 HRC 42CrMo4 708M40 1.7225 4140 INDUCTION HARDENING IH 56-60 HRC HARDENING AND TEMPERING TH 56-60 HRC CORROSION AND ACID RESISTANT MATERIAL X46Cr13 420S29 1.4034 420 HARDENING AND TEMPERING TH 50-52 HRC	0,0 ,0 1111	58-62 HRC	CH	CASE HARDENING		1.500		
42CrMo4 708M40 1.7225 4140 INDUCTION HARDENING IH 56-60 HRC HARDENING AND TEMPERING TH 56-60 HRC CORROSION AND ACID RESISTANT MATERIAL X46Cr13 420S29 1.4034 420 HARDENING AND TEMPERING TH 50-52 HRC	0,8-1,0 mn		IH			1.592		18CrNi8
HARDENING AND TEMPERING TH 56-60HRC CORROSION AND ACID RESISTANT MATERIAL X46Cr13 420S29 1.4034 420 HARDENING AND TEMPERING TH 50-52 HRC	0,8-1,0 mr	52-56 HRC		INDUCTION HARDENING	1045		080M46	
CORROSION AND ACID RESISTANT MATERIAL X46Cr13 420S29 1.4034 420 HARDENING AND TEMPERING TH 50-52 HRC					1045		080M46	
X46Cr13 420S29 1.4034 420 HARDENING AND TEMPERING TH 50-52 HRC	0,8-1,0 mr 1,5-2,0 mr	45-50 HRC	TH	HARDENING AND TEMPERING		1.0503		C45
	0,8-1,0 mr	45-50 HRC 56-60 HRC	TH IH	HARDENING AND TEMPERING INDUCTION HARDENING		1.0503		C45
	0,8-1,0 mr 1,5-2,0 mr	45-50 HRC 56-60 HRC	TH IH	HARDENING AND TEMPERING INDUCTION HARDENING		1.0503	708M40	C45 42CrMo4
	0,8-1,0 mr 1,5-2,0 mr	45-50 HRC 56-60 HRC 56-60HRC	TH IH TH	HARDENING AND TEMPERING INDUCTION HARDENING HARDENING AND TEMPERING	4140	1.0503	708M40	C45 42CrMo4 CORROSION AND ACID RESISTANT MA
	0,8-1,0 mr 1,5-2,0 mr	45-50 HRC 56-60 HRC 56-60HRC 50-52 HRC	TH IH TH	HARDENING AND TEMPERING INDUCTION HARDENING HARDENING AND TEMPERING HARDENING AND TEMPERING	4140	1.0503 1.7225 1.4034	708M40 TERIAL 420S29	C45 42CrMo4 CORROSION AND ACID RESISTANT MA X46Cr13
Circlips	0,8-1,0 mr 1,5-2,0 mr	45-50 HRC 56-60 HRC 56-60HRC 50-52 HRC	TH IH TH	HARDENING AND TEMPERING INDUCTION HARDENING HARDENING AND TEMPERING HARDENING AND TEMPERING HARDENING AND TEMPERING	4140 420 440	1.0503 1.7225 1.4034	708M40 TERIAL 420S29	C45 42CrMo4 CORROSION AND ACID RESISTANT MA X46Cr13
Material No JK Heat Standard hardenin	0,8-1,0 mr 1,5-2,0 mr	45-50 HRC 56-60 HRC 56-60HRC 50-52 HRC	TH IH TH	HARDENING AND TEMPERING INDUCTION HARDENING HARDENING AND TEMPERING HARDENING AND TEMPERING HARDENING AND TEMPERING	4140 420 440	1.0503 1.7225 1.4034	708M40 TERIAL 420S29	C45 42CrMo4 CORROSION AND ACID RESISTANT MA X46Cr13
Material reference JK Reference DIN AISI Standard Hardening Treatment Designation value	0,8-1,0 mr 1,5-2,0 mr 1,5-2,0 mr	45-50 HRC 56-60 HRC 56-60HRC 50-52 HRC 50-55 HRC	TH IH TH TH TH TH TH	HARDENING AND TEMPERING INDUCTION HARDENING HARDENING AND TEMPERING HARDENING AND TEMPERING HARDENING AND TEMPERING irclips	4140 420 440	1.0503 1.7225 1.4034 1.4125	708M40 ITERIAL 420S29 440S49	C45 42CrMo4 CORROSION AND ACID RESISTANT MA X46Crl3 X105CrMo17
	0,8-1,0 mr 1,5-2,0 mr 1,5-2,0 mr Standarc hardenin	45-50 HRC 56-60 HRC 56-60HRC 50-52 HRC 50-55 HRC	TH IH TH TH TH JK Heat Treatment	HARDENING AND TEMPERING INDUCTION HARDENING HARDENING AND TEMPERING HARDENING AND TEMPERING HARDENING AND TEMPERING	4140 420 440 C	1.0503 1.7225 1.4034 1.4125	708M40 TERIAL 420S29	C45 42CrMo4 CORROSION AND ACID RESISTANT MA X46Crl3
	0,8-1,0 mr 1,5-2,0 mr	45-50 HRC 56-60 HRC 56-60HRC 50-52 HRC 50-55 HRC	TH IH TH TH TH JK Heat Treatment	HARDENING AND TEMPERING INDUCTION HARDENING HARDENING AND TEMPERING HARDENING AND TEMPERING HARDENING AND TEMPERING irclips	4140 420 440 C	1.0503 1.7225 1.4034 1.4125	708M40 ITERIAL 420S29 440S49	C45 42CrMo4 CORROSION AND ACID RESISTANT MA X46Crl3 X105CrMo17 Material reference
Ferritic – Cromweld 3Cr12 SS410 1.4003 410	0,8-1,0 mr 1,5-2,0 mr 1,5-2,0 mr Standarc hardenin	45-50 HRC 56-60 HRC 56-60HRC 50-52 HRC 50-55 HRC	TH IH TH TH TH JK Heat Treatment	HARDENING AND TEMPERING INDUCTION HARDENING HARDENING AND TEMPERING HARDENING AND TEMPERING HARDENING AND TEMPERING irclips	4140 420 440 Crial No AlSI	1.0503 1.7225 1.4034 1.4125 Mate	708M40 TERIAL 420S29 440S49 JK Reference	C45 42CrMo4 CORROSION AND ACID RESISTANT MA X46Crl3 X105CrMo17 Material reference
Austenitic SS304 1.4301 303	0,8-1,0 mr 1,5-2,0 mr 1,5-2,0 mr Standard	45-50 HRC 56-60 HRC 56-60HRC 50-52 HRC 50-55 HRC	TH IH TH TH TH JK Heat Treatment	HARDENING AND TEMPERING INDUCTION HARDENING HARDENING AND TEMPERING HARDENING AND TEMPERING HARDENING AND TEMPERING irclips	4140 420 440 Crial No AISI	1.0503 1.7225 1.4034 1.4125 Mate DIN	708M40 VERIAL 420S29 440S49 JK Reference	C45 42CrMo4 CORROSION AND ACID RESISTANT MA X46Cr13 X105CrMo17 Material reference STANDARD QUALITIES DD12

Flights are robotically welded in one of three manufacturing facilities in the UK, Poland and the USA. The integrity of the welding is fundamental to best performance.

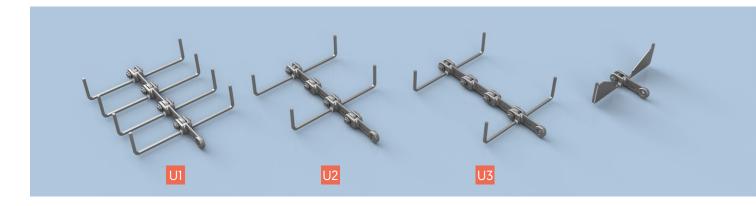
The configuration will vary dependent on the style of machine.

Flight attachment options to Forged Chains.

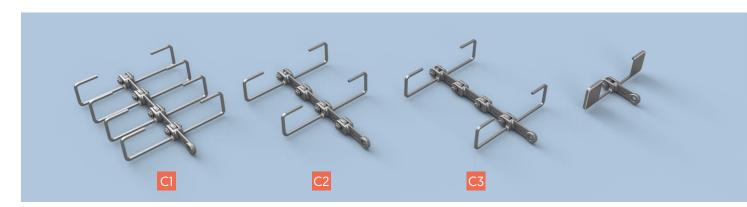
T Type Attachments for Horizontal and Slightly Inclined Conveying



U Type Attachments for Horizontal and Inclined Conveying (with or without blanking plate)



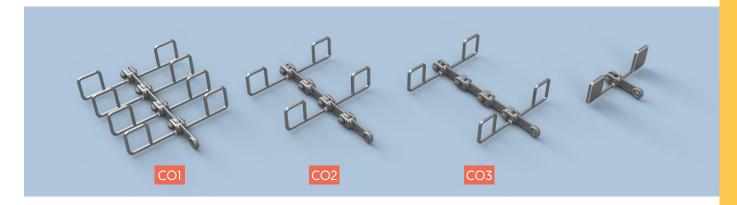
C Type Attachments for Horizontal, Inclined and Vertical Conveying (with or without blanking plate)



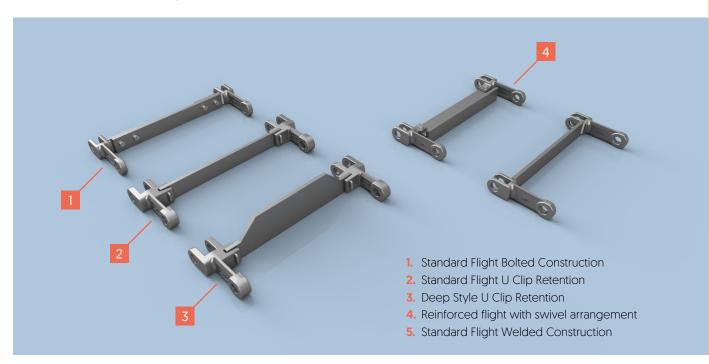
OO Type Attachments for Horizontal and Inclined Conveying (with or without blanking plate)



CO Type Attachments for Horizontal and Inclined Conveying (with or without blanking plate)



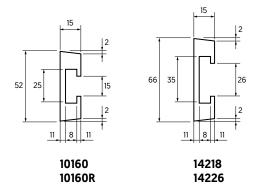
Double Series Flight Options I Format



Plastic Sleeves for Standard Forged Chains

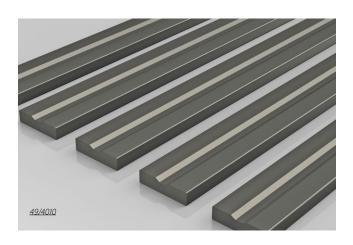


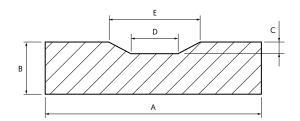




All measurements in mm.

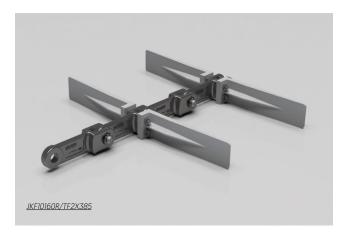
High Manganese Wear Rail

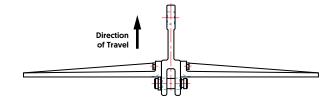




High Manganese Wear Rail									
John King	Α	В	С	D	E	Weight			
References			mm			kg/m			
49/40X10	40.0	10.0	2.0	5.0	12.0	3.01			
49/50X10	50.0	10.0	2.0	5.0	12.0	3.82			
49/60X10	60.0	10.0	2.5	6.0	16.0	4.45			
49/60X12	60.0	12.0	2.5	6.0	16.0	5.50			
49/60X20	60.0	20.0	3.0	6.0	16.0	9.15			

Engineering Plastic Flight - TUFFLEX® with Unique Mounting Arrangement (Patent Pending)



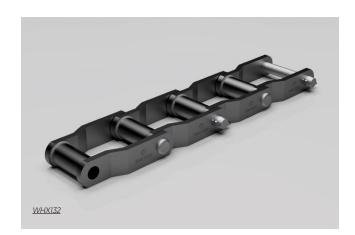


Engineerir	Engineering Plastic Flight – TUFFLEX®									
Flimbs mumbers	Max.	Width								
Flight number	inches	mm								
10160R	15.50	395								
14218	29	740								
14226	30	760								

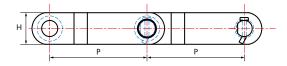
Flight Material: High Impact Resistant Engineering Plastic (For options refer to our technicians).

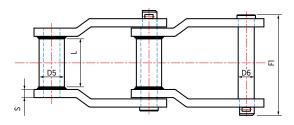
Offset Sidebar Welded Steel Chains.





JOHN KING Welded Steel Chains have become a preferred choice in many high duty grain handling applications. The series employs an offset side plate, a bush circumferentially welded to the side plate with a pin subject to heavy interderence fit of normally cottered construction. The side bar crank profile includes a "long landing" to allow maximum area for welding. The standard KING chain has heat treated parts, including an induction hardened pin and bush for optimum performance in high duty applications. The chain is generally utilised with polyethylene flights of various forms bolted to steel backing plates which in turn are welded to the chain.

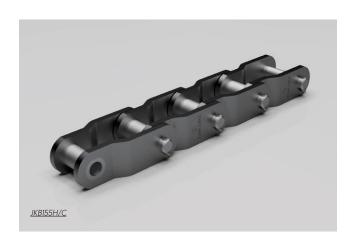




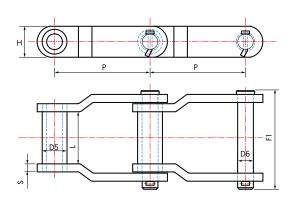
Offset Sidebar Welded Steel Chains											
Chain Number	Pitch	Bushings	Rivets	Over-All Pin & Cotter	Between Sidebars	Length of Bearing	Sidebars				
		Outside Diameter	Diameter				Thickness	Height	Breaking Load	Average Weight	
	Р	D5	D6	F1	L		S	Н			
	inches								lbs	lbs/ft	
WHX78/C	2.609	0.84	0.50	3.00	1.00	2.00	0.25	1.25	33,000	4.30	
WHX82/C	3.075	1.00	0.56	3.38	1.13	2.25	0.25	1.25	36,000	4.70	
WHX124/C	4.000	1.25	0.75	4.25	1.50	2.75	0.38	1.50	57,000	7.80	
WHX111/C	4.760	1.25	0.75	4.81	1.75	3.38	0.38	1.75	60,000	8.60	
WHX110/C	6.000	1.25	0.75	4.00	1.88	3.00	0.38	1.50	50,500	7.00	
WHX106/C	6.000	1.25	0.75	4.25	1.50	2.75	0.38	1.50	60,000	6.20	
WHX132/C	6.050	1.75	1.00	6.38	2.75	4.41	0.50	2.00	122,000	14.10	
WHX150/C	6.050	1.75	1.00	6.50	2.75	4.41	0.50	2.50	122,000	16.30	
WHX155/C	6.050	1.75	1.13	6.41	2.75	4.44	0.56	2.50	175,000	19.00	
WHX157/C	6.050	1.75	1.13	6.75	2.75	4.63	0.63	2.50	175,000	20.00	
WHX159/C	6.125	2.00	1.25	6.75	2.75	4.63	0.63	3.00	210,000	26.00	
WHX200/C	6.125	2.00	1.25	6.75	2.75	4.63	0.63	2.50	190,000	22.10	

Offset Sidebar Heavy Duty Bush Chains.





This series has developed in the US grain industry as an alternative to Welded steel chain in high capacity grain handling equipment. The chain construction is as KING JKB style with a pressed bush and pin. The link plates maintain the crank link form. There are five main standards within the series which loosely follow the Welded steel range. Other varieties can be offered (request details of John King works standard MX series chains). The flight formats will be as welded steel chain [P.21] with polyethylene flights in various forms bolted to steel backing plates which in turn are welded to the chain.



Offset Sidebar Heavy Duty Bush Chains												
Chain Number	Pitch	Bushings Pins		Over-All Pin	Between	Sidebars						
		Outside Diameter	Diameter	& Cotter F1	Sidebars L	Thickness	Height	Breaking Load	Average Weight			
	Р	D5	D6			S	Н					
		lbs	lbs/ft									
JKB82H/C	3.00	1.125	0.56	2.94	1.19	0.313	1.50	41,000	6.20			
JKB124H/C	4.00	1.125	0.63	4.00	1.94	0.38	2.00	60,000	9.50			
JKB106H/C	6.00	1.125	0.63	4.00	1.94	0.38	2.00	60,000	9.50			
JKB132H/C	6.00	1.50	0.875	4.80	2.125	0.50	2.50	105,000	13.80			
JKB155H/C	6.00	1.75	1.13	5.56	2.50	0.56	3.00	148,000	20.00			















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