JOHN KING

APPLIED Industrial Technologies

Conveyor Chains & Sprockets Worldwide

Sugar Industry Chains (cane and beet).

Material Processing Solutions Since 1926.

Get in Touch With Us

John King Chains Limited
Lancaster Close, Sherburn-in-Elmet, LS25 6NS, UK
ENGLAND

or **Call Us** by Phone
+44 1977 681 910

Chains | Sprockets | Wear Rails | Valves | Conveyors | Lubrication | Design & Feasibility | Precision Engineering | Laser Cutting & Fabrication | Site Service

From Survey to Drawing to Production to Installation Your integrated supply partner.

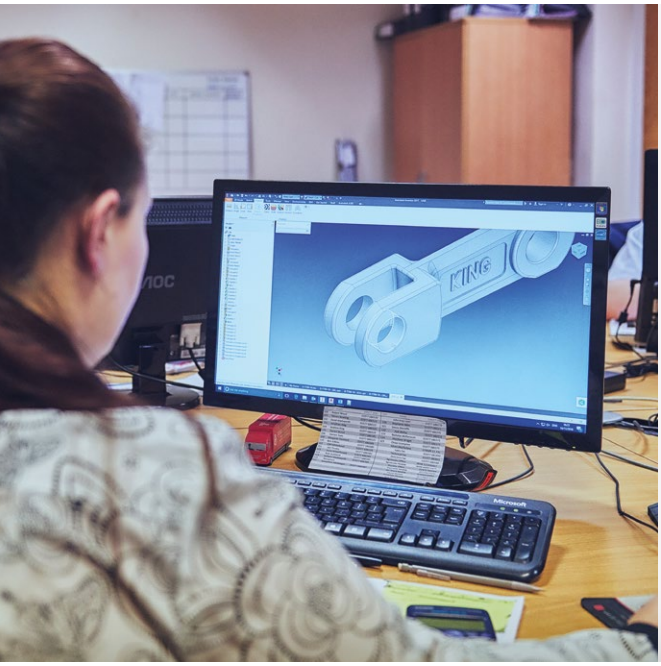
In the aggressive environment of sugar production there is an ongoing requirement for refurbishment and replacement of plants and equipment in all areas of the process. John King Group is a combined business uniquely equipped to serve the industry with a full spectrum of essential engineering services to ensure 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 within budget.

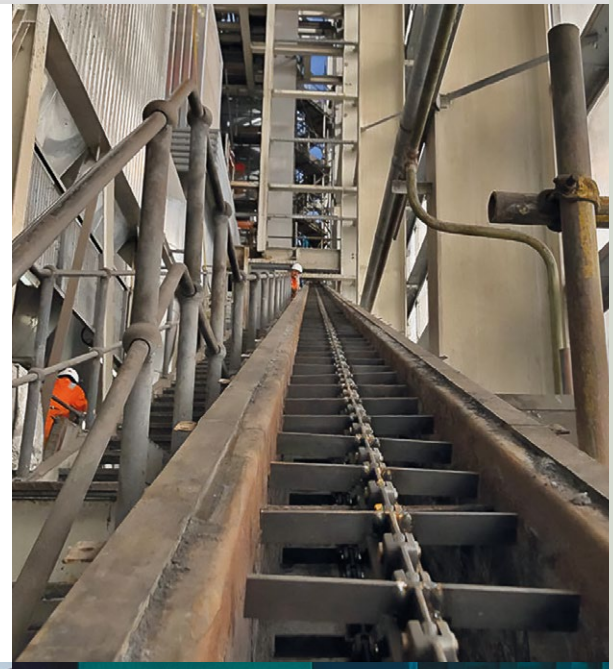


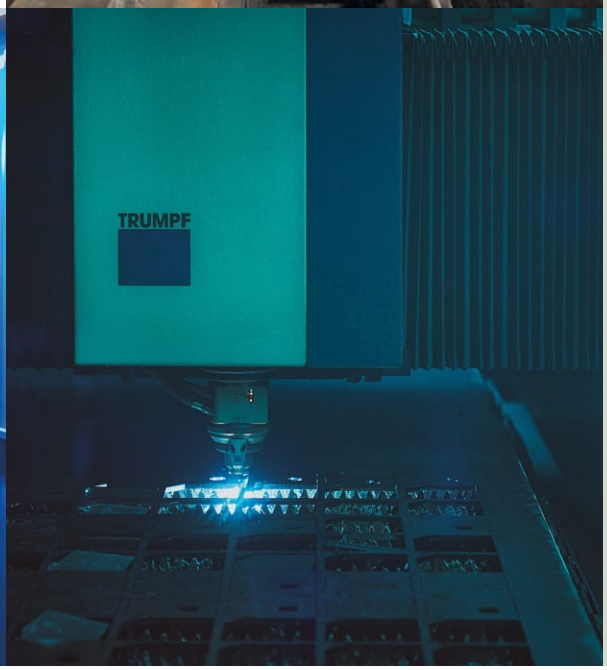
Design and Drawing Service.

Design and technical drawing are part of our service. We create the technical drawing directly from our site survey or work with you to create a complete 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 while operating under strict safety protocols.





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 while critically benefitting as part of the Group structure in investing in new technology to give the division a distinct advantage in product efficiency and quality. The recent installation of the latest and probably best laser capacity in the country is a testament to this.

Manufacturing Capabilities.

The 2020s business is a lean enterprise working from a modern manufacturing facility employing the best production techniques including fiber laser technology, plasma for thicker material sections, CNC machining and robotics. Group structure provides the internal resources to implement production management systems that ensure the 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.

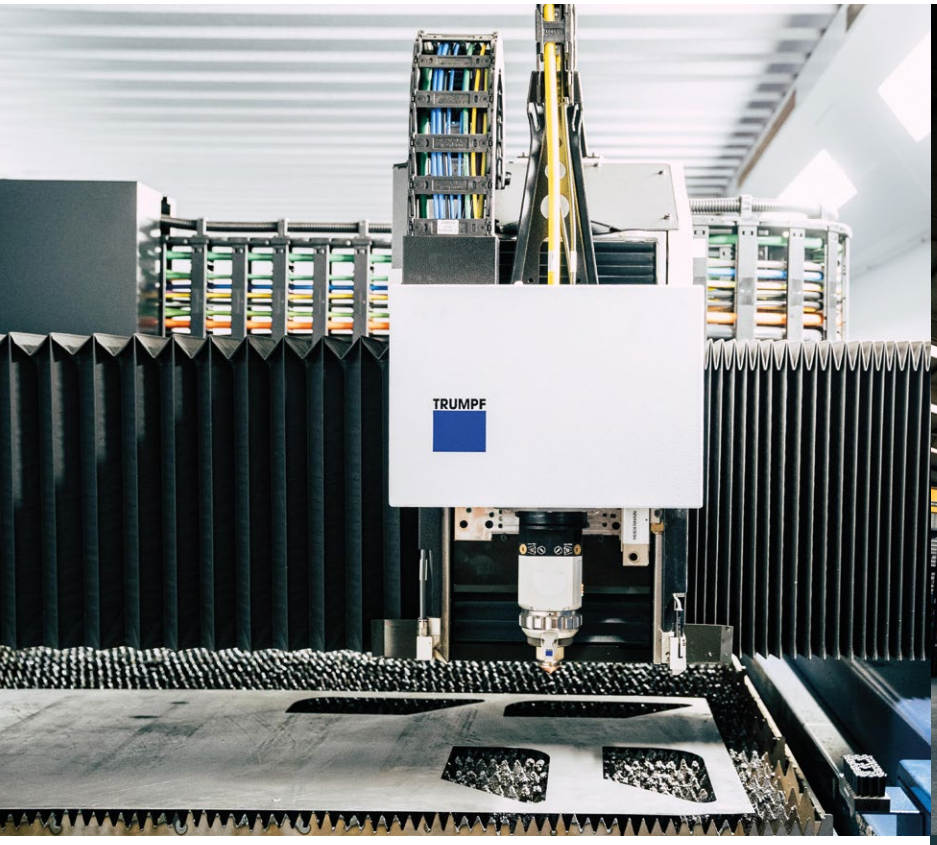
LASER CUTTING CAPABILITIES

- **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.**

Hyperperformance Plasma HPR 260XD Hypertherm cutting technology combining high speeds and rapid process cycling with virtually dross free cutting up to 32 mm.



Trulaser 3040 Fibre laser with increased 4000 x 2000 bed size including integrated lift master and plate storage tower for unrivalled efficiency in parts production.

Press Technology.

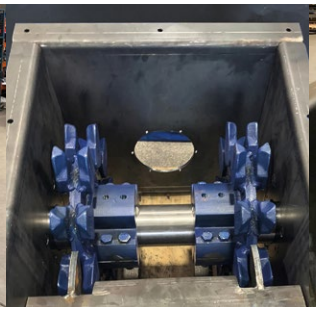
In support of our impressive range of flatbed processing capabilities, we operate CNC Synchro press brake machines capable of pressing parts with capacities up to and including 220 tons and 4000 mm in length. With smaller machines with 2000 mm gap and 100 mm stroke for smaller parts in higher volume production.

Welding and Fabrication.

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.

Ash hopper during fabrication as a direct replacement to an existing unit.

Replacement conveyor sections reproduced on a like for like basis.



A new precipitator dust conveyor during manufacture and prior to entering the paint shop.

Chute sections to make up a full arrangement ready for site service installation.

Site Services
The Complete Supply Package.

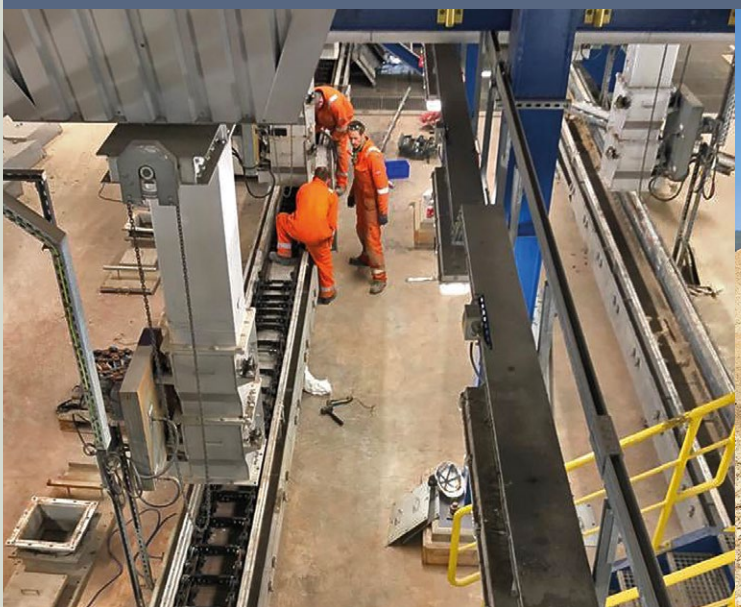
Bulk handling experts you can rely on.

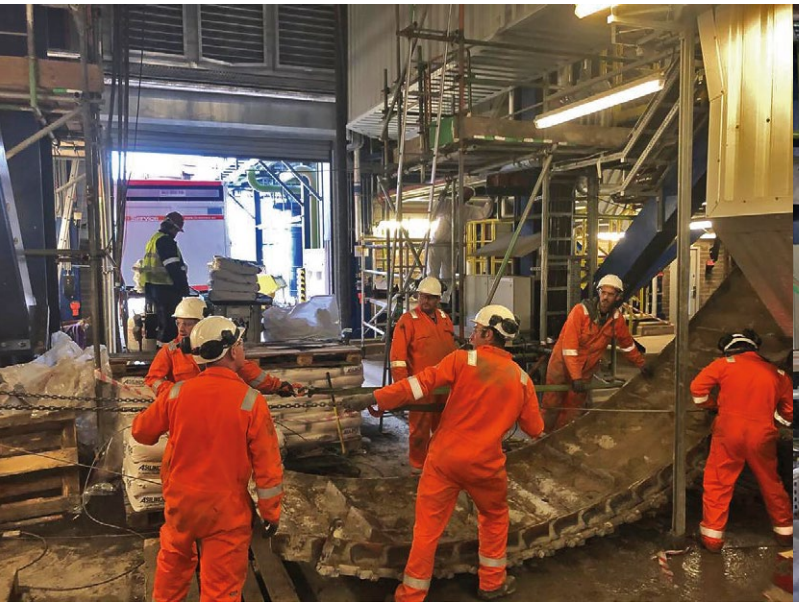
The John King Site Service Division employs a highly skilled team of engineers solely dedicated to the **service and maintenance of bulk material handling equipment,** which includes – installing, servicing and maintaining all aspects of mechanical handling equipment and related plant and machinery.

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

- **Secure optimum equipment reliability** 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 improvements **to enhance the performance of your existing equipment.**
- Enter into **a professional partnership** to develop a service strategy tailored to your needs.

SafeContractor APPROVED www.alcumusgroup.com





Site Services Scope of Supply.

- **Inspection and maintenance** of all mechanical handling equipment by specialist engineers
- **Troubleshooting** and problem-solving within mechanical handling equipment.
- **Supply of high-quality conveyor chains** and related conveyor spares.
- **Specialist in the 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 complete 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 protecting the safety of contractors, customers, visitors and all other persons affected by our operations.

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

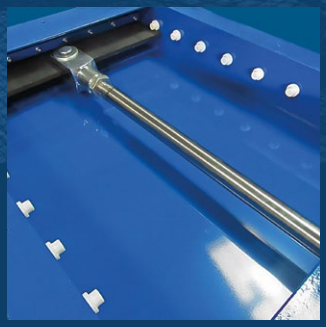
DABValves

A DIVISION OF JOHN KING CHAINS LIMITED

Controlling the flow of your material, with **guaranteed quality** and **assurance.**

Leading the way in British designed, engineered and manufactured Valves for the materials and solids bulk handling industry. With over 40 years' industry expertise, and a global customer base of prestigious clients in a multiple of industry segments, covering a vast array of applications.



Guaranteed Quality
BS ISO 9001:2015 accredited and in-house British design and manufacture.

Application and Industry Expertise
Over 40 years of industry expertise.

Unrivalled Global Support Network
Localised global technical support within the John King Group.

Multitude of Valves
Wide selection of Valve sizes and types including: Slide Valves, Butterfly Valves, Dampers, Gravity Flap Diverter Valves, Airline Conveying Diverters, Double-Dump Valves, Rod Gates and Core Slides.

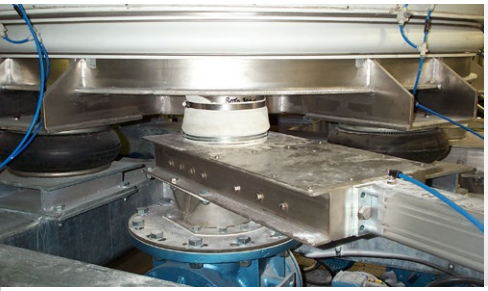
Uprated Construction
Uprated materials for peace of mind in the toughest of environments.

Designed for Application
Customised for your application, offering unlimited flexibility.

Minimising Housekeeping
Unique sealing to negate material leakages and removal of costly housekeeping.

Safety
Unique dust tight sealing, with optional ATEX certification, to negate the risks associated with potentially explosive dusty atmospheres.

Negating Material Build Up
Innovative 'slide plate short-stop' to ensure material build up is removed and the associated hygiene issues.



DAB Slide Valves

Ensuring good shut-off and control of your material flow, whether for operational use or for maintenance purposes.

DAB Gravity Flap Diverter Valves

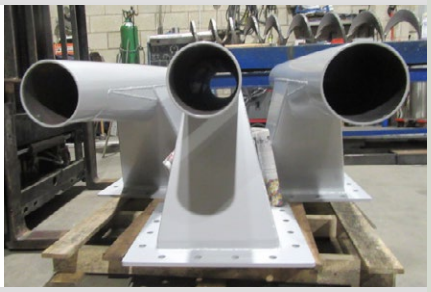
Extensive range of Gravity Flap Diverter Valves to meet the requirements of re-routing material from one discharge point to another. DAB Valves design and engineering expertise is perfectly placed to deliver a customised solution to suit the application.

DAB Butterfly Valves

The perfect solution for regulating your material flow. A disc in the centre of the valve, positioned perpendicular to the flow in the closed position. To be fully opened it is rotated one quarter of a turn, to become parallel to the flow.

DAB Drop Out Boxes

Flanged or plain ended drop out boxes, introducing the material to the blowing line efficiently without the risk of degradation or contamination.



DAB Airline Conveying Diverter Valves

Expertly designed to divert the flow of materials in a conveying line, from one inlet to two or more outlets.

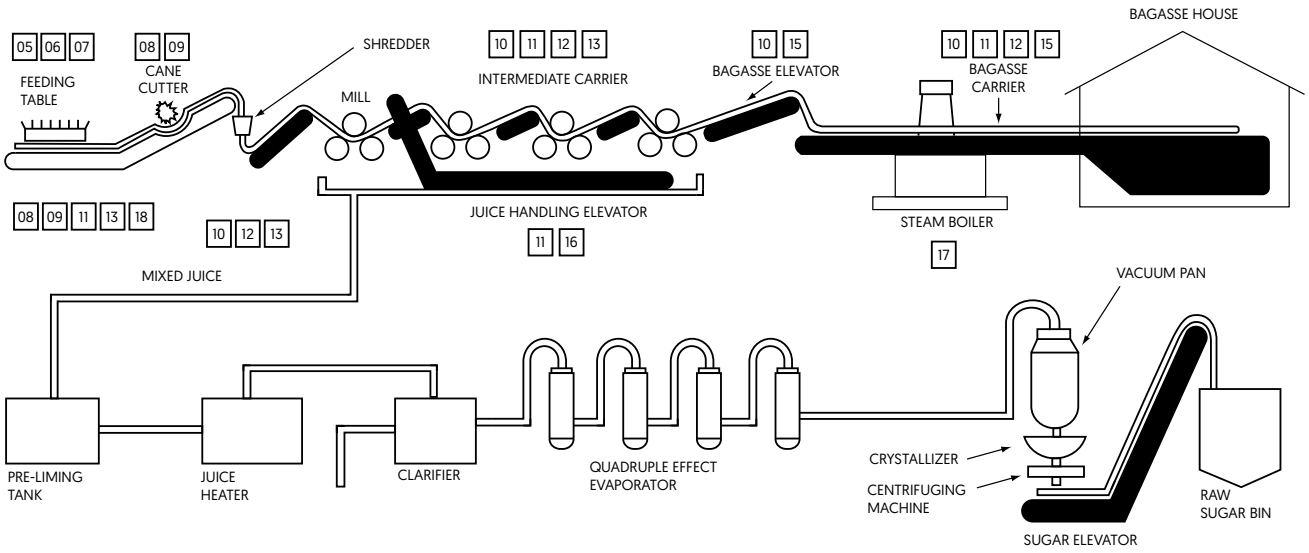
DAB Core Slides

Using counter rotating quadrant plates, The DAB Core Slide is the robust answer for controlling and centralising the discharge of difficult materials.

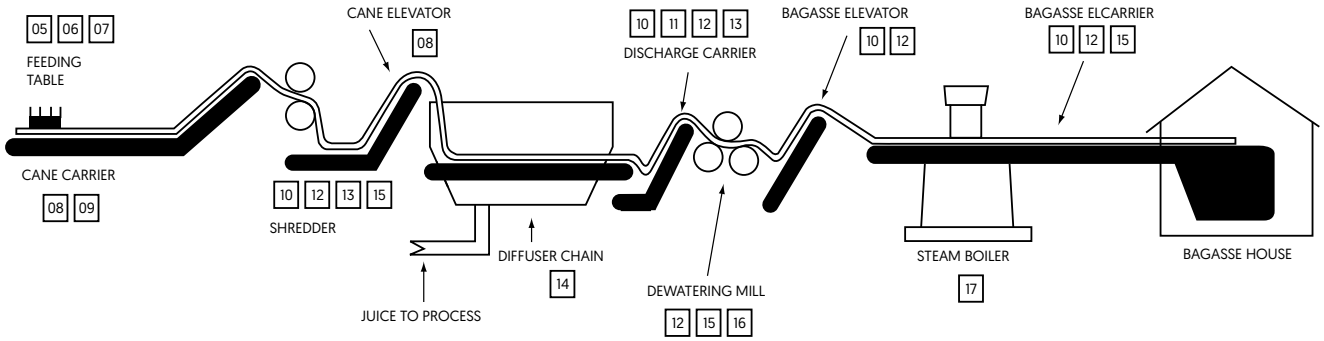
DAB Dampers

The DAB Damper is ideal for the control and shut-off of blown clean or dust laden gases at high or low temperatures.

Typical Process Layout for Roll Mill-Type System.



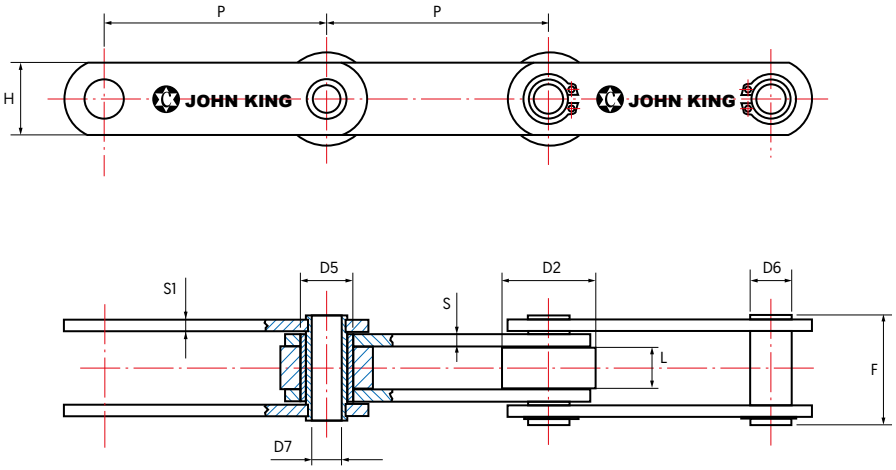
Typical Process Layout for a Diffuser System.



Cane Harvester Chains.

HP27/0508/P

Climax harvester chains come from the British standard BS4116 but include heat treated sidebars for 'double strength' and case carborised pins, bushes and rollers for optimum abrasion resistance. Chains are HP series denoting hollow bearing pin to allow cross rods or bolts to be fitted throught the chain strands.



Cane Harvester Chains

Chain Number	Units	Pitch	Rollers	Bushings	Pins	Hollow Pins	Overall Width	Between Sidebars	Sidebars			Breaking Load	Weight
			Diameter						Thickness		Height		
		P	D2	D5	D6	D7	F	L	S	S1	H		
HP27/0508/P	mm	50.80	31.80	18.03	13.97	10.16	44.00	15.00	4.00	4.00	25.00	2,700 kg	4.00 kg/m
	in	2.00	1.25	0.71	0.55	0.40	1.73	0.59	0.16	0.16	0.98	6,000 lb	2.68 lb/ft
HP27/0508/R1.5	mm	50.80	38.10	18.03	13.97	10.16	44.00	15.00	4.00	4.00	25.00	2,700 kg	4.20 kg/m
	in	2.00	1.25	0.71	0.55	0.40	1.73	0.59	0.16	0.16	0.98	6,000 lb	2.86 lb/ft
HP55/0635/P	mm	63.50	47.63	23.62	19.05	13.20	51.80	19.05	5.00	4.00	40.00	5,500 kg	3.80 kg/m
	in	2.50	1.87	0.93	0.75	0.52	2.01	0.75	0.20	0.16	1.57	12,000 lb	2.20 lb/ft

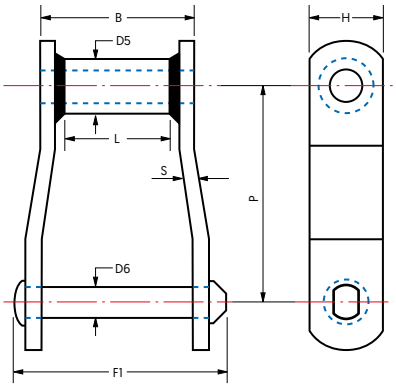
Welded Steel Chains for Feed and Washing Tables.

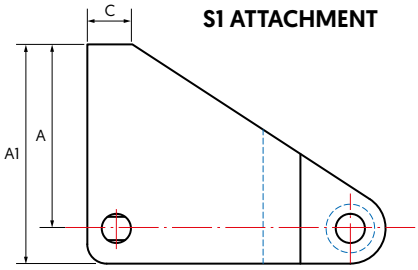
WH132R/S1

King Welded Steel Chain is exclusively manufactured in the WH fully heat treated specification to ensure maximum performance in high duty sugar mill applications.

Generally employed on feed and washing tables the chain utilises an S1 pusher although other attachments can be employed.

John King uniquely offer an up-rated IBR specification utilising induction hardened pin and bush for best performance.

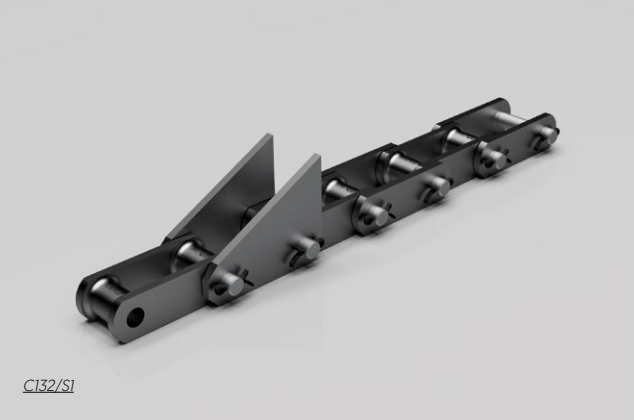




Welded Steel Chains for Feed and Washing Tables

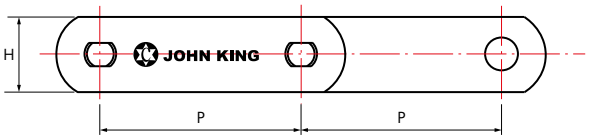
Chain Number	Units	Pitch	Bushings	Pins	Overall Width	Bearing Width	Between Sidebars	Sidebars		S1 Attachment Dimensions			Working Load	Breaking Load	Weight
			Diameter					Thickness	Height						
		P	D5	D6	F1	B	L	S	H	C	A	A1			
WH78R	mm	66.30	22.20	12.70	78.20	50.80	25.40	6.40	31.80	12.70	88.90	101.60	1,350 kg	15,000 kg	5.70 kg/m
	in	2.61	0.88	0.50	3.00	2.00	1.00	0.25	1.25	0.50	3.50	4.00	3,000 lb	33,000 lb	3.80 lb/ft
WH82R	mm	78.10	27.00	14.30	84.10	57.20	34.90	6.40	31.80	12.70	85.60	101.60	2,000 kg	16,400 kg	6.00 kg/m
	in	3.08	1.06	0.56	3.31	2.25	1.38	0.25	1.25	0.50	3.37	4.00	4,400 lb	36,000 lb	4.00 lb/ft
WH124R	mm	101.60	31.80	19.10	108.00	74.40	38.10	9.50	88.10	24.50	95.30	114.30	3,350 kg	26,000 kg	11.70 kg/m
	in	4.00	1.25	0.75	4.25	2.81	1.50	0.38	1.50	1.00	3.75	4.50	7,350 lb	57,000 lb	8.50 lb/ft
WH124XDR	mm	103.20	41.10	25.40	120.60	76.20	41.10	12.70	50.80	25.40	95.30	120.70	4,773 kg	45,455 kg	21.90 kg/m
	in	4.06	1.62	1.00	4.75	3.00	1.62	0.50	2.00	1.00	3.75	4.75	10,500 lb	100,000 lb	14.70 lb/ft
WH111R	mm	120.90	31.80	19.10	104.80	122.20	47.60	9.50	88.10	25.40	107.90	127.00	3,800 kg	27,000 kg	14.20 kg/m
	in	4.76	1.25	0.75	4.81	4.81	1.88	0.38	1.50	1.00	4.25	5.00	8,850 lb	60,000 lb	9.50 lb/ft
WH106R	mm	152.40	31.80	19.10	108.00	71.40	38.10	9.50	88.10	25.40	95.30	114.30	3,350 kg	27,000 kg	10.40 kg/m
	in	6.00	1.25	0.75	4.25	2.81	1.50	0.38	1.50	1.00	3.75	4.50	7,350 lb	60,000 lb	7.00 lb/ft
WH110R	mm	152.40	31.70	19.05	117.30	76.20	47.70	9.65	31.70	25.40	95.30	114.30	3,580 kg	31,360 kg	10.70 kg/m
	in	6.00	1.25	0.75	4.62	3.00	1.88	0.38	1.25	1.00	3.75	4.50	7,875 lb	69,000 lb	7.20 lb/ft
WH106XHDR	mm	153.60	41.10	25.40	123.90	76.20	41.10	12.70	50.80	25.40	95.30	120.70	4,770 kg	52,270 kg	17.60 kg/m
	in	6.05	1.62	1.00	4.88	3.00	1.62	0.50	2.00	1.00	3.75	4.75	10,500 lb	111,000 lb	11.80 lb/ft
WH132R	mm	153.70	44.50	25.40	158.80	112.30	73.00	12.70	50.80	25.40	127.00	152.40	6,800 kg	55,400 kg	21.20 kg/m
	in	6.05	1.75	1.00	6.25	4.42	2.88	0.50	2.00	1.00	5.00	6.00	15,000 lb	122,000 lb	14.20 lb/ft
WH150R	mm	153.67	41.10	25.40	158.70	111.20	76.20	12.70	63.50	29.50	133.40	165.10	6,950 kg	52,700 kg	25.10 kg/m
	in	6.05	1.62	1.00	6.25	4.38	3.00	0.50	2.50	1.16	5.25	6.50	15,300 lb	116,000 lb	16.80 lb/ft
WH155R	mm	153.67	41.10	28.40	158.70	111.20	73.20	12.70	63.50	38.10	133.40	165.10	8,270 kg	68,640 kg	29.40 kg/m
	in	6.05	1.62	1.12	6.25	4.38	2.88	0.50	2.50	1.50	5.25	6.50	18,200 lb	151,000 lb	19.70 lb/ft
WH150XHDR	mm	153.67	41.10	28.40	171.40	117.30	76.20	15.70	63.50	25.40	139.30	171.40	8,270 kg	73,182 kg	29.40 kg/m
	in	6.05	1.62	1.12	6.75	4.62	3.00	0.62	2.50	1.00	5.50	6.75	18,200 lb	161,000 lb	19.70 lb/ft

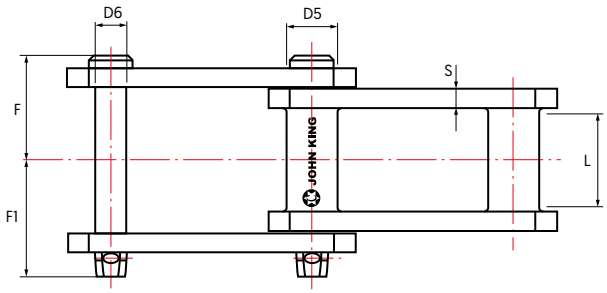
Combination Chains for Feed and Washing Tables.



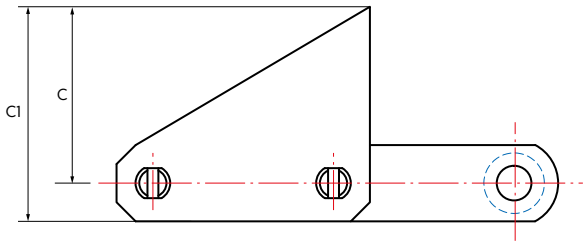
C132/S1

This series employs a cast block with steel sidebars. Blocks are available in King JK/WR1 grade or stainless steel to special order. The one piece construction of the block makes the combination chain an ideal choice to counter impact and abrasion.





S1 ATTACHMENT



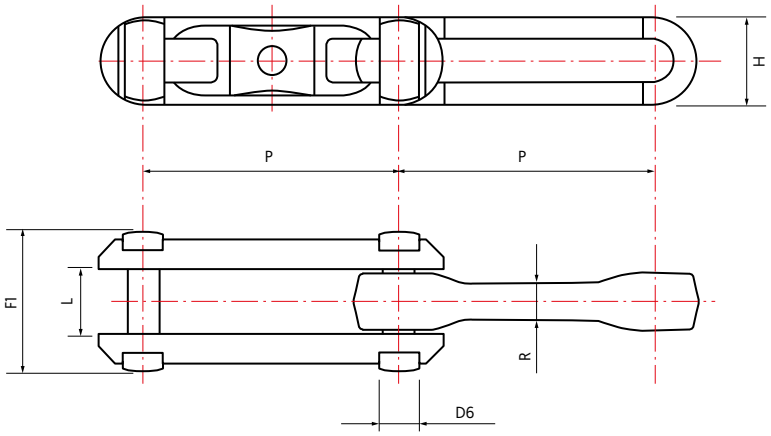
Combination Chains for Feed and Washing Tables

Chain Number	Units	Pitch	Bushings	Pins	Overall Width	Bearing Width	Between Sidebars	Sidebars		S1 Attachment Dimensions		Breaking Load	Weight
			Diameter					Thickness	Height				
		P	D5	D6	F	F1	L	S	H	C	C1		
C188	mm	66.27	22.22	12.70	31.75	41.90	23.88	6.00	28.70	–	–	6,400 kg	5.22 kg/m
	in	2.61	0.88	0.50	1.25	1.63	0.94	0.25	1.13	–	–	14,000 lb	3.50 lb/ft
C131	mm	78.10	31.75	15.90	49.20	42.90	28.60	9.50	38.10	82.55	101.60	11,900 kg	10.00 kg/m
	in	3.08	1.25	0.63	1.94	1.69	1.13	0.38	1.50	3.25	4.00	24,000 lb	6.70 lb/ft
C102	mm	101.60	25.40	15.90	57.20	54.00	47.60	9.50	38.10	95.25	114.30	11,900 kg	11.15 kg/m
	in	4.00	1.00	0.63	2.25	2.13	1.88	0.38	1.50	3.75	4.50	24,000 lb	7.48 lb/ft
C111	mm	121.90	36.58	19.10	66.70	60.30	54.00	9.50	44.50	111.25	133.35	16,400 kg	13.87 kg/m
	in	4.76	1.44	0.75	2.63	2.38	2.13	0.38	1.75	4.28	5.25	36,000 lb	9.30 lb/ft
C110	mm	152.40	31.75	15.90	55.60	52.40	47.60	9.50	38.10	107.95	127.50	11,900 kg	8.79 kg/m
	in	6.00	1.25	0.63	2.19	2.06	1.88	0.38	1.50	4.25	5.00	24,000 lb	5.90 lb/ft
C132	mm	153.90	43.69	25.40	82.60	81.00	79.40	12.70	50.80	127.00	152.40	22,700 kg	19.52 kg/m
	in	6.06	1.72	1.00	3.25	3.19	3.13	0.50	2.00	5.00	6.00	50,000 lb	13.09 lb/ft
C132	mm	153.90	43.69	25.40	82.60	81.00	79.40	12.70	50.80	203.20	228.60	22,700 kg	19.52 kg/m
	in	6.06	1.72	1.00	3.25	3.19	3.13	0.50	2.00	8.00	9.00	50,000 lb	13.09 lb/ft
C132	mm	153.90	43.69	25.40	82.60	81.00	79.40	12.70	50.80	254.00	279.40	22,700 kg	19.52 kg/m
	in	6.06	1.72	1.00	3.25	3.19	3.13	0.50	2.00	10.00	11.00	50,000 lb	13.09 lb/ft

Drop Forged Chains for Feed and Washing Tables.

X678

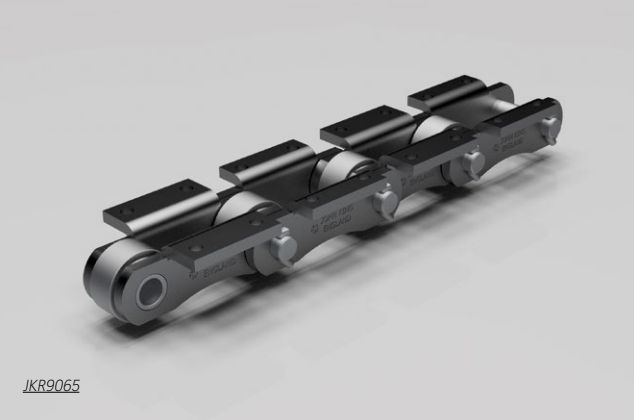
This chain is of robust and simple construction makes it most suitable in cane infeed conveyors. The chain can be turned to provide new sliding surfaces and pin rotated 180 degrees allowing unworn diameter to contact with inner link, thus increasing the effective life of the chain. Normally components are from heat treated high alloy steel and sold under the John King MAXITUFF brand.



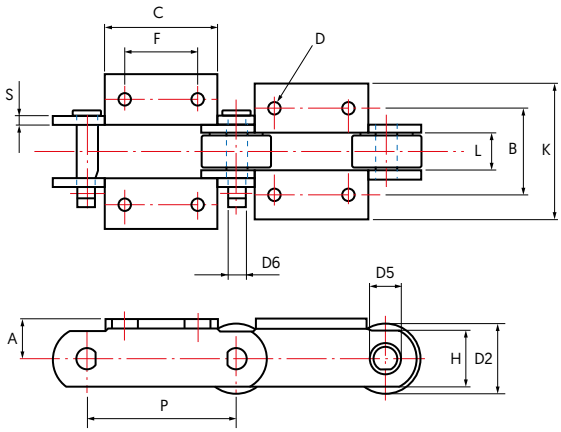
Drop Forged Chains for Feed and Washing Tables

Chain Number	Units	Pitch	Pins Diameter	Overall Width	Between Sidebars	Sidebars Height	Inner Link Thickness	Breaking Load	Weight
		P	D6	F1	L	H	R		
X348	mm	76.60	12.70	44.50	19.10	27.00	12.70	10,100 kg	3.28 kg/m
	in	3.02	0.50	1.75	0.75	1.06	0.50	24,000 lb	2.20 lb/ft
X458	mm	102.40	15.90	57.20	26.20	34.90	15.90	21,800 kg	4.80 kg/m
	in	4.03	0.63	2.25	1.03	1.38	0.63	48,000 lb	3.21 lb/ft
X678	mm	153.20	22.20	76.20	33.30	50.10	22.20	56,800 kg	9.98 kg/m
	in	6.03	0.88	3.00	1.31	2.00	0.88	125,000 lb	6.69 lb/ft
698	mm	153.20	28.58	95.30	39.70	68.30	25.40	80,000 kg	17.00 kg/m
	in	6.03	1.125	3.75	1.56	2.69	1.00	175,000 lb	11.40 lb/ft
998	mm	229.40	28.58	95.30	39.70	68.30	68.30	68,000 kg	13.40 kg/m
	in	9.03	1.125	3.75	1.56	2.69	2.69	150,000 lb	8.99 lb/ft

Main Cane and Auxilliary Carrier Chains.



JKR9065



King cane carrier chains are fabricated engineering class chains designed to meet the most demanding service requrements in sugar mills. Experience allows King to select optimum materials and heat treatment conditions to maximise reliability and service life. "Climax" calibration during manufacture ensures accurate matching of strands for duplex or triplex operation.

Main Cane and Auxilliary Carrier Conveyors

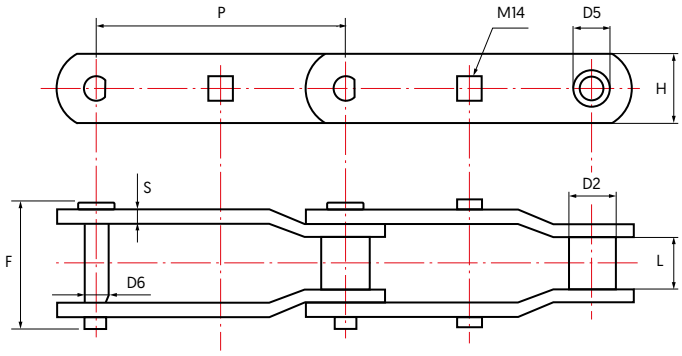
Chain Number	Units	Pitch	Rollers	Bushings	Pins	Be-tween Side-bars	Sidebars		K2 Attachment Dimensions					Bolt Diam-eter	Working Load	Breaking Load	Weight
			Diameter				Thick-ness	Height									
		P	D2	D5	D6	L	S	H	A	B	C	F	K	D			
JKR0904	mm	101.60	50.80	25.40	17.50	50.80	7.90	44.50	31.75	88.90	101.66	59.95	104.90	10.00	2,200 kg	18,200 kg	13.75 kg/m
	in	4.00	2.00	1.00	0.69	2.00	0.31	1.75	1.25	3.50	4.00	2.36	4.13	0.38	4,850 lb	40,000 lb	9.22 lb/ft
JKR2124	mm	152.40	69.85	28.70	19.05	38.90	9.70	50.80	41.14	111.30	114.30	76.20	142.70	12.80	2,750 kg	28,636 kg	17.60 kg/m
	in	6.00	2.75	1.13	0.75	0.53	0.38	2.00	1.62	4.38	4.50	3.00	5.62	0.50	6,050 lb	63,000 lb	11.80 lb/ft
JKR09060	mm	152.40	69.85	28.70	19.10	38.10	9.70	50.80	111.30	111.30	114.30	76.20	171.45	–	2,900 kg	27,200 kg	23.80 kg/m
	in	6.00	2.75	1.13	0.75	1.50	0.38	2.00	1.63	4.38	4.50	3.00	6.75	–	6,350 lb	60,000 lb	15.96 lb/ft
JKR2129	mm	228.60	82.50	33.02	19.05	37.10	9.50	57.20	44.95	146.00	152.40	101.60	208.70	15.24	3,300 kg	30,000 kg	29.65 kg/m
	in	9.00	3.25	1.30	0.75	1.46	0.38	2.25	1.77	5.75	6.00	4.00	8.22	0.60	7,275 lb	66,000 lb	19.89 lb/ft
JKR2315	mm	228.60	76.20	38.10	22.40	43.00	9.50	63.50	44.95	152.40	177.80	139.70	211.00	13.97	3,500 kg	32,000 kg	25.36 kg/m
	in	9.00	3.00	1.50	0.88	1.69	0.38	2.50	1.77	6.00	7.00	5.50	8.31	0.55	7,700 lb	70,400 lb	17.00 lb/ft
JKR09061	mm	152.40	69.85	28.70	19.10	38.10	9.70	57.20	41.40	111.30	114.30	76.20	165.10	12.70	2,900 kg	38,600 kg	25.60 kg/m
	in	6.00	2.75	1.13	0.75	1.50	0.38	2.25	1.63	4.38	4.50	3.00	6.50	0.50	6,350 lb	85,000 lb	17.70 lb/ft
JKR2178	mm	152.40	69.85	31.08	22.40	38.90	9.65	57.15	41.14	111.30	114.30	76.20	142.70	12.70	3,227 kg	38,650 kg	22.80 kg/m
	in	6.00	2.75	1.25	0.88	1.50	0.38	2.25	1.62	4.38	4.50	3.00	5.62	0.50	7,000 lb	85,000 lb	15.30 lb/ft
JKR2800	mm	203.20	88.90	38.10	25.40	45.97	12.70	69.85	55.37	131.50	127.00	82.50	183.40	15.74	4,454 kg	42,727 kg	39.10 kg/m
	in	8.00	3.50	1.50	1.00	1.81	0.50	2.75	2.18	5.18	5.00	3.25	7.22	0.62	9,800 lb	94,000 lb	26.20 lb/ft
JKR2198	mm	152.40	69.85	33.02	22.40	38.10	12.70	57.15	41.14	111.30	114.60	76.20	152.40	12.70	3,480 kg	45,460 kg	27.10 kg/m
	in	6.00	2.75	1.30	0.88	1.50	0.50	2.25	1.62	4.38	4.50	3.00	6.00	0.50	8,300 lb	100,000 lb	18.21 lb/ft
JKR1796	mm	152.40	69.85	38.10	22.40	38.10	9.70	57.20	41.40	111.30	114.30	76.20	165.10	12.70	3,480 kg	45,460 kg	25.00 kg/m
	in	6.00	2.75	1.50	0.87	1.50	0.38	2.25	1.63	4.38	4.50	3.00	6.50	0.50	8,300 lb	100,000 lb	16.77 lb/ft
JKR2801	mm	203.10	88.90	38.10	25.40	66.30	9.70	69.85	60.50	152.40	146.10	82.60	187.55	16.00	5,409 kg	50,900 kg	44.70 kg/m
	in	8.00	3.50	1.50	1.00	2.61	0.38	2.75	2.38	6.00	5.75	3.25	7.38	0.62	11,900 lb	112,000 kg	30.00 lb/ft
JKR09063	mm	152.40	76.20	31.80	23.90	38.10	9.70	63.50	44.50	111.30	114.30	76.20	153.90	12.70	3,800 kg	63,500 kg	39.00 kg/m
	in	6.00	3.00	1.25	0.94	1.50	0.38	2.50	1.75	4.38	4.50	3.00	6.06	0.50	8,300 lb	140,000 lb	26.20 lb/ft
JKR2804	mm	203.20	108.00	47.63	38.10	92.50	12.70	88.90	69.90	193.50	146.10	82.60	237.20	16.00	11,045 kg	68,200 kg	70.10 kg/m
	in	8.00	4.25	1.88	1.50	3.64	0.50	3.50	2.75	7.62	5.75	3.25	9.34	0.62	24,300 lb	150,000 lb	47.00 lb/ft
JKR9066	mm	152.40	76.20	38.10	26.90	63.50	12.70	60.50	42.90	136.70	114.30	76.20	187.55	12.70	4,230 kg	72,700 kg	40.70 kg/m
	in	6.00	3.00	1.50	1.06	2.50	0.50	2.38	1.69	5.38	4.50	3.00	7.38	0.50	9,300 lb	160,000 lb	27.30 lb/ft
JKR9065	mm	152.40	76.20	38.10	26.90	38.10	12.70	60.50	42.90	111.30	114.30	76.20	165.10	12.70	4,230 kg	72,700 kg	40.70 kg/m
	in	6.00	3.00	1.50	1.06	1.50	0.50	2.38	1.69	4.38	4.50	4.38	6.50	0.50	9,300 lb	160,000 lb	27.30 lb/ft

Roller Diameter D2 can be changed to suit customer requirements.
All STR style with K2 attachment.
JKR2315 – K3 attachment.

Cobra style Chain for Main Cane and Auxilliary Carrier Chains.

JKR1706/M14

This most advanced design has obviated some of the traditional problems associated with the operation of cane carriers. Of robust construction, the “Cobra” style chain with outboard rollers offers the best impact resistance, load bearing capacity, ease of maintenance and extended service life. All components in addition to chain are available in this series including outboard rollers, pan support brackets, axles and slats.



Cobra style Chain for Main Cane and Auxilliary Carrier Conveyors

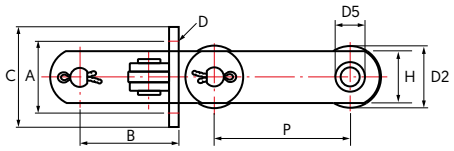
Chain Number	Units	Pitch	Rollers	Bushings	Pins	Overall width	Between Sidebars	Sidebars		Square Hole	Working Load	Breaking Load	Weight
			Diameter					Thickness	Height				
		P	D2	D5	D6	F	L	S	H	M14			
JKR2397 M14	mm	304.80	44.45	31.75	22.40	119.85	55.60	9.52	63.50	19.05	4,200 kg	40,900 kg	14.16 kg/m
	in	12.00	1.75	1.25	0.88	4.71	2.18	0.38	2.50	0.75	9,420 lb	90,000 lb	9.79 lb/ft
JKR2358 M14	mm	228.60	44.60	31.75	22.40	123.95	49.30	12.70	63.50	25.40	4,091 kg	45,455 kg	15.20 kg/m
	in	9.00	1.75	1.25	0.88	4.88	1.94	0.50	2.50	1.00	14,000 lb	100,000 lb	10.20 lb/ft
JKR1706 M14	mm	304.80	57.20	38.10	25.40	148.30	76.20	12.70	63.50	25.40	6,364 kg	45,455 kg	6.00 kg/m
	In	12.00	2.25	1.50	1.00	5.84	3.00	0.50	2.50	1.00	14,000 lb	100,000 lb	4.02 lb/ft
JKR2614 M14	mm	304.80	63.50	44.45	31.75	160.50	69.85	15.70	88.90	31.80	7,955 kg	61,364 kg	11.00 kg/m
	in	12.00	2.50	1.75	1.25	6.31	2.75	0.62	3.50	1.25	17,000 lb	135,000 lb	73.70 lb/ft
JKR1227 M14	mm	304.80	79.38	47.63	38.10	161.50	70.60	15.70	101.60	31.80	10,091 kg	100,000 kg	12.00 kg/m
	in	12.00	3.12	1.88	1.50	6.35	2.78	0.62	4.00	1.25	14,000 lb	220,000 lb	8.04 lb/ft
JKR2630 M14	mm	304.80	63.50	47.63	34.90	148.30	69.85	15.70	88.90	31.80	9,500 kg	135,000 kg	35.16 kg/m
	in	12.00	2.50	1.88	1.37	5.84	2.75	0.62	3.50	1.25	35,000 lb	300,000 lb	23.58 lb/ft
JKR1223 M14	mm	304.80	88.90	47.63	38.10	195.58	104.60	15.70	101.60	31.80	15,909 kg	136,364 kg	45.80 kg/m
	in	12.00	3.50	1.88	1.50	7.70	4.12	0.62	4.00	1.25	35,000 lb	300,000 lb	30.71 lb/ft
JKR2778 M14	mm	304.80	63.50	47.63	34.90	161.93	101.60	15.70	101.60	31.80	8,750 kg	147,700 kg	38.20 kg/m
	in	12.00	2.50	1.88	1.37	6.37	4.00	0.62	4.00	1.25	19,250 lb	325,000 lb	25.62 lb/ft
JKR2648 M14	mm	304.80	82.55	55.62	41.28	197.60	92.08	19.05	101.60	31.80	13,454 kg	159,090 kg	53.52 kg/m
	in	12.00	3.25	2.19	1.62	7.78	3.62	0.75	4.00	1.25	30,000 kg	350,000 lb	35.90 lb/ft

Intermediate Carrier and Bagasse Transport Roller Conveyor Chains.

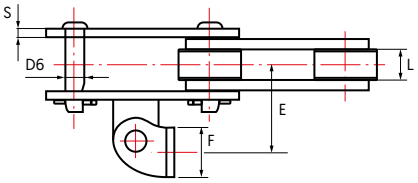
JKR2184

King intermediate carrier chains operate in the most corrosive conditions brought about by continous operation in raw sugar juice. As a consequence chains employ corrosion resistant materials. The swivel attachments allows for self allignment of the strands during operation compensating for any mismatch.

ROLLER CONVEYOR WITH AS2 ATTACHMENTS



STYLE A



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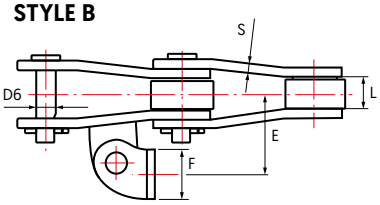

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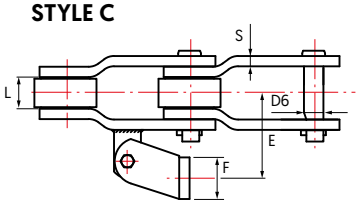


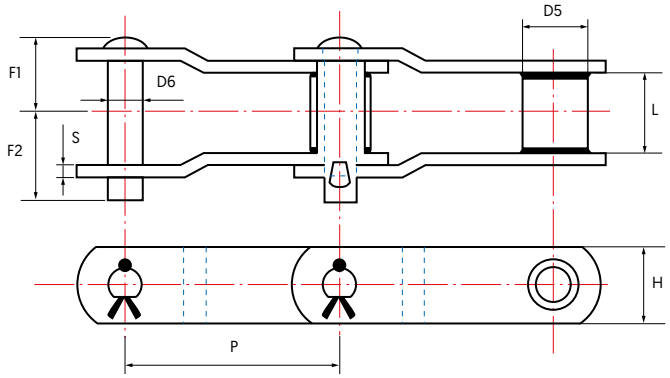
Intermediate Carrier and Bagasse Transport Roller Conveyor Chains

Chain Number	Style	Units	Pitch	Rollers	Bushing	Pins	Between Sidebars	Sidebar		AS2 Attachment Dimensions					Bolt Diameter	Working Load	Breaking Load	Weight
				Diameter				Thickness	Height									
			P	D2	D5	D6	L	S	H	A	B	C	E	F	D			
JKR0904	A/B	mm	101.60	50.80	25.40	17.53	31.00	7.87	44.50	82.30	79.50	107.95	77.72	45.50	9.65	2,200 kg	18,200 kg	12.10 kg/m
		in	4.00	2.00	1.00	0.69	1.22	0.31	1.75	3.24	3.13	4.25	3.06	1.75	0.38	4,850 lb	40,000 lb	8.11 lb/ft
JKR09060	A/B	mm	152.40	69.85	28.70	19.05	38.10	9.65	50.80	82.55	111.25	114.30	88.90	50.80	12.70	2,900 kg	27,200 kg	16.70 kg/m
		in	6.00	2.75	1.13	0.75	1.50	0.38	2.00	3.25	4.38	4.50	3.50	2.00	0.50	6,350 lb	60,000 lb	11.20 lb/ft
JKR2184	B	mm	152.40	76.20	31.75	22.35	35.05	9.65	50.80	88.90	142.75	127.00	91.95	50.80	12.70	3,000 kg	36,600 kg	18.50 kg/m
		in	6.00	3.00	1.25	0.88	1.38	0.38	2.00	3.50	5.62	5.00	3.62	2.00	0.50	6,500 lb	85,000 lb	12.41 lb/ft
JKR09061	A/B	mm	152.40	69.85	28.70	19.10	38.10	9.65	57.50	82.55	111.25	114.30	88.90	50.80	12.70	2,900 kg	38,600 kg	18.50 kg/m
		in	6.00	2.75	1.13	0.75	1.50	0.38	2.25	3.25	4.38	4.50	3.50	2.00	0.50	6,350 lb	85,000 lb	12.41 lb/ft
JKR9184	C	mm	152.40	76.20	31.80	23.90	38.90	12.70	63.50	88.90	142.75	127.00	104.60	50.80	12.70	3800 kg	45,400 kg	26.20 kg/m
		in	6.00	3.00	1.25	0.94	1.53	0.50	2.50	3.50	5.62	5.00	4.12	2.00	0.50	8300 lb	100,000 lb	17.57 lb/ft
JKR9185	C	mm	152.40	88.90	31.80	23.90	38.90	12.70	63.50	88.90	142.75	127.00	104.60	50.80	12.70	3800 kg	45,400 kg	30.70 kg/m
		in	6.00	3.50	1.25	0.94	1.53	0.50	2.50	3.50	5.62	5.00	4.12	2.00	0.50	8300 lb	100,000 lb	20.59 lb/ft
JKR1796	A/B	mm	152.40	69.85	31.80	22.35	38.10	9.65	57.15	82.55	111.25	114.30	88.90	50.80	12.70	3,800 kg	45,400 kg	25.18 kg/m
		in	6.00	2.75	1.25	0.88	1.50	0.38	2.25	3.25	4.38	4.50	3.50	2.00	0.50	8,300 lb	100,00 lb	16.88 lb/ft
JKR09063	A/B	mm	152.40	76.20	31.80	23.89	38.10	10.40	60.45	88.90	142.75	127.00	104.65	50.80	12.70	3,800 kg	63,500 kg	28.95 kg/m
		in	6.00	3.00	1.25	0.94	1.50	0.41	2.38	3.50	5.62	5.00	4.12	2.00	0.50	8,300 lb	140,000 lb	19.42 lb/ft
JKR2198	A/B	mm	152.40	69.85	31.80	22.35	38.10	12.70	57.15	88.90	142.75	127.00	98.55	50.80	12.70	3,800 kg	45,400 kg	26.50 kg/m
		in	6.00	2.75	1.25	0.88	1.50	0.50	2.25	3.50	5.62	5.00	3.88	2.00	0.50	8,300 lb	100,000 lb	17.77 lb/ft
JKR2113	B	mm	102.62	50.80	25.40	17.53	33.27	7.87	50.80	69.85	141.22	120.65	85.85	50.80	12.70	2,100 kg	11,800 kg	12.70 kg/m
		in	4.04	2.00	1.00	0.69	1.31	0.31	2.00	2.75	5.56	4.75	3.38	2.00	0.50	4,685 lb	26,000 lb	8.52 lb/ft
JKR9065	A	mm	152.40	76.20	38.10	26.92	38.10	12.70	60.45	84.07	111.25	114.30	91.69	50.80	12.70	4,200 kg	72,700 kg	29.00 kg/m
		in	6.00	3.00	1.50	1.06	1.50	0.50	2.38	3.31	4.38	4.50	3.61	2.00	0.50	9,275 lb	160,000 lb	19.45 lb/ft
JKR2178A	B	mm	152.40	69.85	31.80	22.23	38.10	9.65	57.15	88.90	142.75	127.00	104.65	50.80	12.70	3,800 kg	45,400 kg	19.20 kg/m
		in	6.00	2.75	1.25	0.88	1.50	0.38	2.25	3.50	5.62	5.00	4.12	2.00	0.50	8,300 lb	100,000 lb	12.88 lb/ft

Crank Link Steel Bush Series for Intercarriers.

JKB200

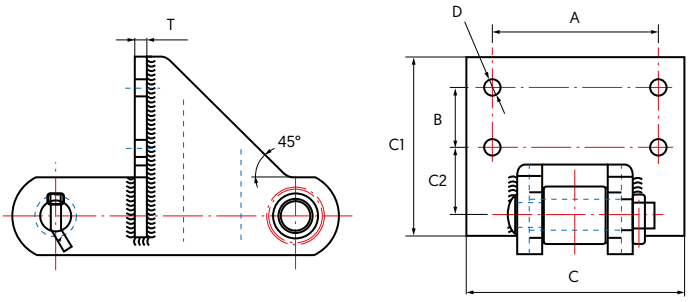
The JKB series was developed for Megasse and Bagasse handling within cane sugar processing. The chain is generally employed, but not exclusively, with F style attachment to allow a flight bar to be mounted across the chains. The flight bar will incorporate a wear shoe so the chain does not come into contact directly with wear strips or conveyor deck. The chain is purely the haulage member and it does not therefore have a need for a carrier roller. The simplified bush construction with standard or stainless round parts has proven to offer extended and economic performance.



Crank Link Steel Bush Series for Intercarriers

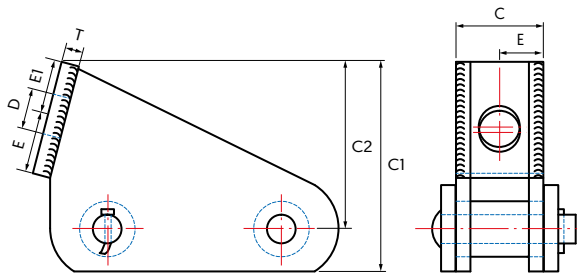
Chain Number	Chain Standard	Units	Pitch	Bushing Diameter	Pins Diameter	Over Pin		Between Sidebars	Sidebars Thickness	Sidebars Height	Working Load	Breaking Load	Weight
			P	D5	D6	F1	F2	L	S	H			
JKB160	BOP	mm	160.00	48.00	25.40	56.00	66.00	56.00	9.50	57.30	3,100 kg	34,600 kg	17.50 kg/m
		in	6.30	1.89	1.00	2.20	2.56	2.20	0.37	2.25	6,850 lb	76,120 lb	11.74 lb/ft
JKB160A	BOP	mm	160.00	48.00	25.40	56.00	66.00	56.00	9.50	63.50	4,730 kg	45,500 kg	19.20 kg/m
		in	6.30	1.89	1.00	2.20	2.56	2.20	0.37	2.50	10,400 lb	100,000 lb	12.88 lb/ft
JKB200	BOP	mm	200.00	48.00	25.40	56.00	66.00	56.00	9.50	57.20	3,100 kg	34,600 kg	15.50 kg/m
		in	7.87	1.89	1.00	2.20	2.56	2.20	0.37	2.25	6,850 lb	76,120 lb	10.39 lb/ft
JKB200A	BOP	mm	200.00	48.00	25.40	56.00	66.00	56.00	9.50	63.50	4,730 kg	45,500 kg	17.40 kg/m
		in	7.87	1.89	1.00	2.20	2.56	2.20	0.37	2.50	10,400 lb	100,000 lb	11.67 lb/ft
JKB37291J	Donelly	mm	152.40	50.80	25.40	55.90	67.10	50.00	12.70	76.20	4,730 kg	45,500 kg	24.60 kg/m
		in	6.00	2.00	1.00	2.20	2.64	1.96	0.50	3.00	10,400 lb	100,000 lb	16.50 lb/ft
JKB6050*	Donelly	mm	153.70	49.00	25.40	55.90	67.10	50.00	12.70	76.20	4,730 kg	45,500 kg	24.60 kg/m
		in	6.05	1.93	1.00	2.20	2.64	1.96	0.50	3.00	10,400 lb	100,000 lb	16.50 lb/ft
JKB37291SJ	Donelly	mm	152.40	50.80	25.40	62.20	73.40	50.00	12.70	76.20	4,730 kg	45,500 kg	24.60 kg/m
		in	6.00	2.00	1.00	2.44	2.88	1.96	0.50	3.00	10,400 lb	100,000 lb	16.50 lb/ft
JKB2084HD	Donelly	mm	125.40	76.20	23.80	73.90	64.30	66.80	12.70	63.50	5,420 kg	45,500 kg	30.70 kg/m
		in	6.00	3.00	0.94	2.91	2.53	2.63	0.50	2.50	11,920 lb	100,000 lb	20.50 lb/ft

F Style attachment



F Style attachment								
Chain Number	Units	C1	C2	A	C	B	D	T
JKB160A	mm	136.00	59.00	108.00	148.00	50.00	14.00	16.00
	in	5.35	2.32	4.25	5.82	1.96	0.55	0.62
JKB160	mm	136.00	59.00	108.00	148.00	50.00	14.00	16.00
	in	5.35	2.32	4.25	5.82	1.96	0.55	0.62
JKB200A	mm	136.00	59.00	108.00	148.00	50.00	14.00	16.00
	in	5.35	2.32	4.25	5.82	1.96	0.55	0.62
JKB200	mm	136.00	59.00	108.00	148.00	50.00	14.00	16.00
	in	5.35	2.32	4.25	5.82	1.96	0.55	0.62

RF10 Style attachment

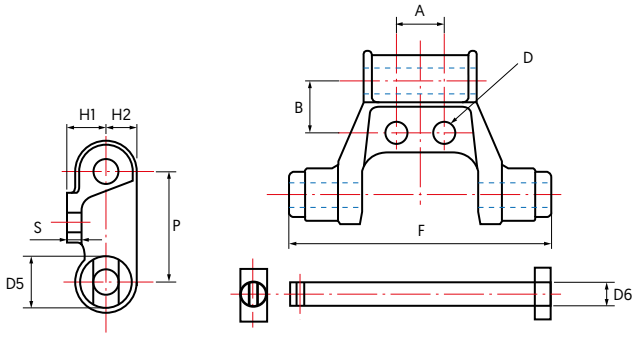


RF10 Style attachment								
Chain Number	Units	C1	C2	C	E	E1	D	T
JKB37291	mm	18.40	146.30	93.70	57.20	44.50	35.80	12.70
	in	7.26	5.76	3.69	2.25	1.75	1.41	0.50
JKB37291 J	mm	184.40	146.30	106.40	57.20	44.50	35.80	12.70
	in	7.26	5.76	4.19	2.25	1.75	1.41	0.50
JKB6050	mm	185.20	147.80	76,96	54.10	47.50	36.10	15.70
	in	7.29	5.82	3.03	2.13	1.87	1.42	0.62
JKB2084HD	mm	194.60	162.80	133.40	67.20	50.80	38.10	12.70
	in	7.66	6.41	5.25	2.25	2.00	1.50	0.50

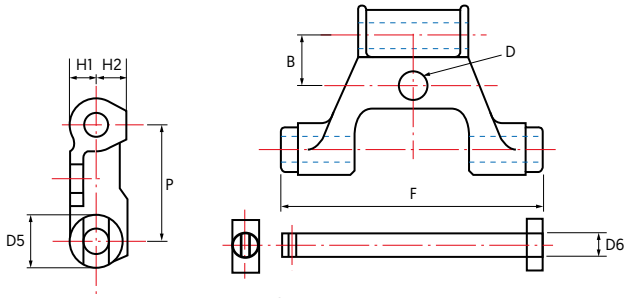
Cast Link Chains for Intercarriers and Sugar Mill applications.

JK901E41

Kings greatest strength lies in the extensive metallurgical experience notably in chains of cast construction. This series is available in standard JK/WRI or wider variety of materials enhanced through alloy addition finally to full austenitic stainless steel. Where the pintle class chains include a pressed bushing this allows for a combination of materials to maximise suitability and economy.



STYLE A

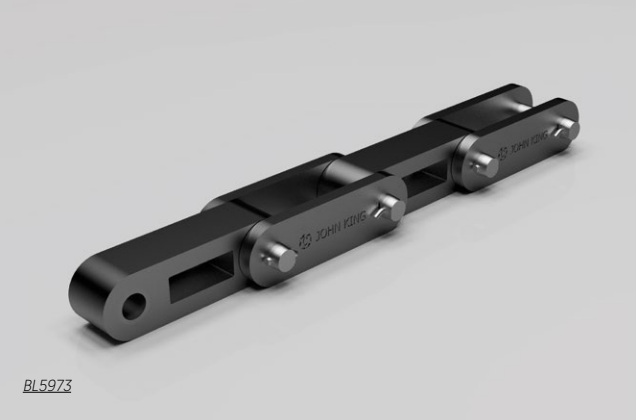


STYLE B

Cast Link Chains for Intercarriers and Sugar Mill applications

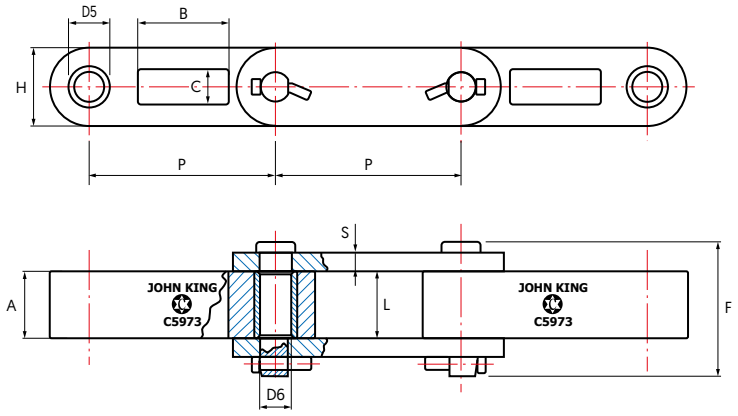
Chain Number	Style	Units	Pitch	Bushing Diameter	Pins Diameter	Over Pin	Sidebars Thickness	H1	H2	Bolt Diameter	A	B	Working Load	Breaking Load
			P	D5	D6	F	S			D				
JK5174E4	A	mm	59.94	28.58	12.70	139.70	7.87	19.05	15.88	9.52	25.40	41.28	1,500 kg	10,200 kg
		in	2.36	1.13	0.50	5.50	0.31	0.75	0.63	0.38	1.00	1.63	3,300 lb	22,500 lb
JK901E41/E44	B	mm	79.98	35.27	15.88	139.70	9.65	23.80	18.29	12.70	27.69	44.45	4,200 kg	11,360 kg
		in	3.15	1.31	0.63	5.50	0.38	0.72	0.94	0.50	1.09	1.75	4,150 lb	25,000 lb
JK902E41/E44	B	mm	79.98	33.27	15.88	141.22	9.65	23.80	18.29	9.52	–	37.08	4,200 kg	11,360 kg
		in	3.15	1.31	0.63	5.56	0.38	0.72	0.94	0.38	–	1.46	4,150 lb	25,000 lb
JK907E51	B	mm	80.52	33.27	15.88	141.22	9.65	23.80	18.29	9.52	–	37.60	4,200 kg	11,360 kg
		in	3.17	1.31	0.63	5.56	0.38	0.72	0.94	0.38	–	1.48	4,150 lb	25,000 lb

Intermediate Carrier Chains Block and Bar Style.



BL5973

This new generation Intermediate Carrier Chain is a 'roller less' block link chain of robust and simple construction. Pin and bush from heat-treated Martensitic stainless steel, side plates from carbon steel, cast block link secondary heat treated JK/HT1. This austempered ductile iron offers optimum mechanical properties and strength weight ratio whilst exhibiting work hardening qualities.

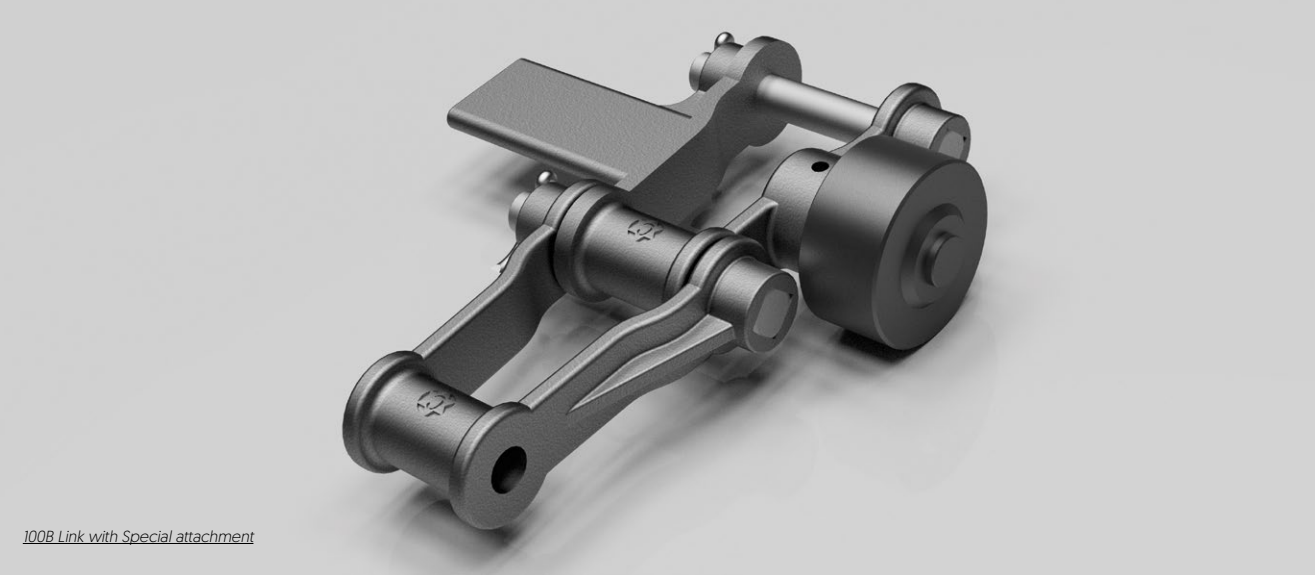


INTERMEDIATE CARRIER CHAIN SPECIAL C5973

Intermediate Carrier Chains Block and Bar Style

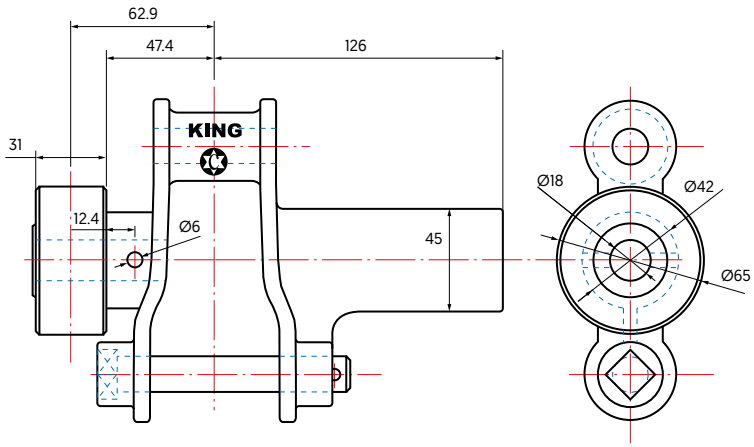
Chain Number	Units	Pitch	Bushing Diameter	Pins Diameter	Over Pin	Between Sidebars	Sidebars Thickness	Sidebars Height	A	B	C	Working Load	Breaking Load
		P	D5	D6	F	L	S	H					
BL09060	mm	152.40	28.70	19.05	85.00	48.00	10.00	50.80	39.00	75.00	28.00	2,000 kg	27,200 kg
	in	6.00	1.13	0.75	3.35	1.50	0.38	2.00	1.50	2.95	1.10	4,400 lb	60,000 lb
BL1796	mm	152.40	31.75	22.10	95.80	50.80	10.00	60.00	49.50	75.00	28.00	2,550 kg	45,500 kg
	in	6.00	1.25	0.87	3.77	2.00	0.38	2.25	1.95	2.95	1.10	5,600 lb	100,000 lb
BL09063	mm	152.40	31.75	23.88	100.00	55.00	10.00	60.00	54.00	75.00	28.00	3,300 kg	63,600 kg
	in	600.00	1.25	0.97	3.93	2.18	0.41	2.38	2.83	2.95	1.10	7,200 lb	140,000 lb
BL5973	mm	152.40	34.50	25.40	110.00	55.00	15.00	65.00	54.00	75.00	28.00	3,300 kg	63,600 kg
	in	600.00	1.36	1.00	4.35	2.18	0.59	2.50	2.17	2.95	1.10	7,200 lb	140,000 lb

100B Link with Special attachment
to be used as left and right hand strands.



100B Link with Special attachment

This non standard chain is a variation on DIN 654 and associated with one European original equipment manufacturer.
The chain link is produced in an uprated cast steel offering enhanced mechanical properties over the original malleable iron specification where strength and wear performance were insubstantial. The version utilises handed attachments with outboard carrier rollers.

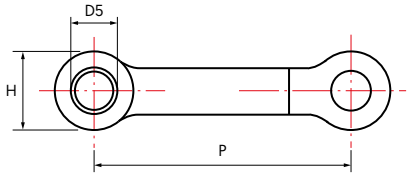


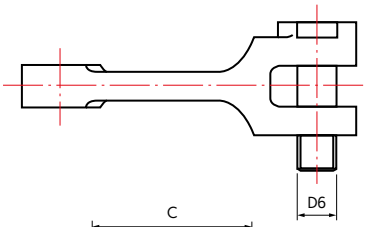
Intercarrier - Special Types.

JK305

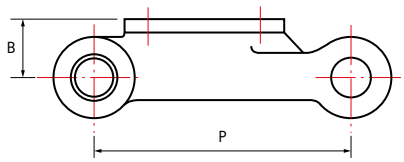
Kings unique ability to produce bespoke chains convering the whole spectrum of construction, material and manufacturing processes allows the company to offer direct replacements to non-standard chains. This series is a good demonstration of this where the link is produced as a high carbon steel casting with alloy steel heat treated liner bush and bolted construction. In this process there is always the opportunity to introduce improvements for improved performance and cost effectiveness. Where requested this series can be offered as a forging complete with welded K4 top plate.

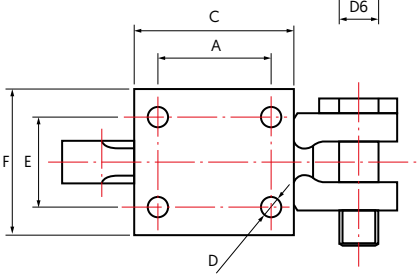
PLAIN LINK





K4 ATTACHMENT LINK



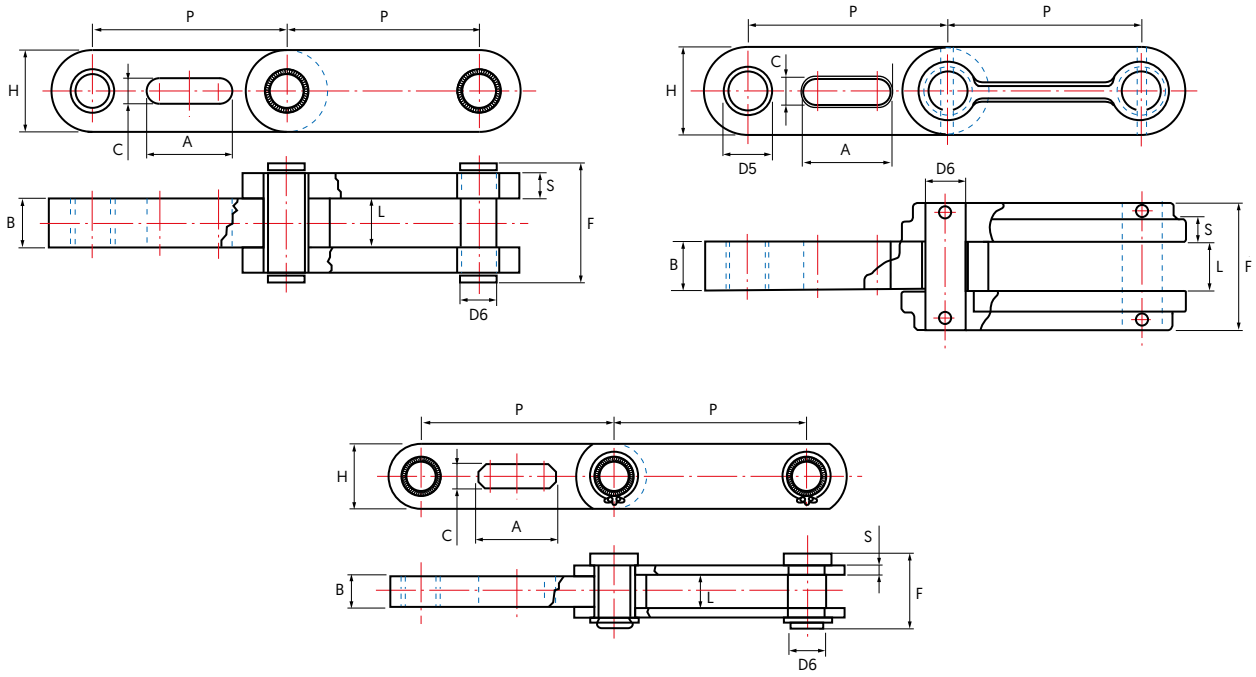


Intercarrier – Special Types

Chain Number	Units	Pitch	Bushing Diameter	Pins Diameter	Height	K4 Attachment Dimensions					Bolt Diameter	Breaking Strength
		P	D5	D6	H	A	B	C	E	F	D	
JK229	mm	228.60	35.05	41.40	69.85	101.60	50.08	139.70	79.38	130.18	16.00	60,000 kg
	in	9.00	1.38	1.63	2.75	4.00	2.00	5.50	3.13	5.13	0.63	132,000 lb
JK305	mm	304.80	45.45	57.15	101.60	107.95	74.62	187.45	92.08	127.00	16.00	88,200 kg
	in	12.00	1.75	2.25	4.00	4.25	2.94	7.38	3.63	5.00	0.63	194,000 lb

Diffuser Chains - Block and Bar Construction.

BL4600



Diffuser Chains – Block and Bar Construction

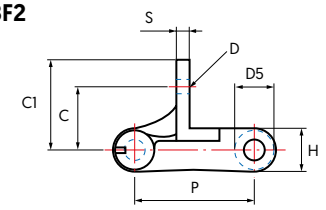
Chain Number	Units	Pitch	Bushing Diameter	Pins Diameter	Over Pin	Between Sidebars	Sidebars Thickness	Sidebars Height	A	B	C	Breaking Strength
		P	D5	D6	F	L	S	H				
BL4309/T1	mm	250.00	56.00	47.00	150.00	62.00	20.00	80.00	111.00	60.00	35.00	175,000 kg
	in	9.84	2.20	1.85	5.90	2.44	0.75	3.15	4.37	2.36	1.38	385,000 lb
BL4309/T2	mm	250.00	51.00	42.00	100.00	43.00	12.00	80.00	111.00	40.00	35.00	64,240 kg
	in	9.84	2.00	1.65	3.94	1.69	0.50	3.15	4.37	1.57	1.38	141,323 lb
BL4600	mm	250.00	58.00	49.00	30.00	66.00	47.00	110.00	111.00	60.00	35.00	224,300 kg
	in	9.84	2.28	1.93	1.18	2.60	1.85	4.33	4.37	2.36	1.38	493,460 lb
BL4961	mm	300.00	71.90	60.00	157.50	68.00	31.00	130.00	125.00	60.00	25.00	345,000 kg
	in	11.80	2.83	2.36	6.20	2.68	1.22	5.12	4.92	2.36	1.00	759,000 lb
BL5032	mm	443.60	127.80	50.80	181.00	74.60	37.30	127.80	101.60	123.80	31.80	338,000 kg
	in	17.50	5.00	2.00	7.13	2.94	1.47	5.00	4.00	4.87	1.25	743,600 lb

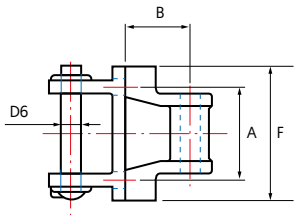
Juice Strainer and Trash Conveyor Chains.

JKC4103F29

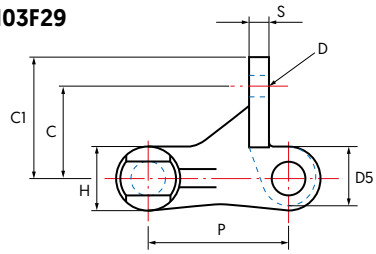
Cast pintle chains have been the traditional selection for juice strainers and trash elevators. Engineered steel chains have also been developed as a direct alternative. (E.g. 4103 F29 and E2103) to allow for higher mechanical characteristic and enhanced corrosion resistance.
In addition Kings plastic division offer non-metallic alternatives that have proven performance in similar applications.

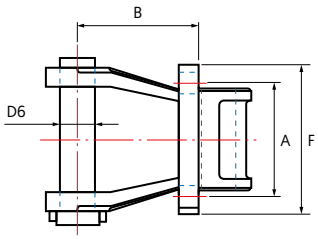
488F2



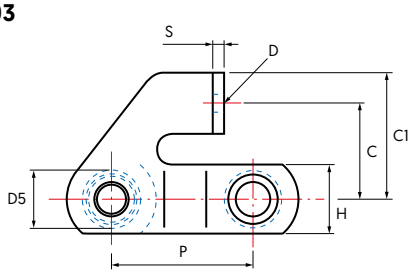


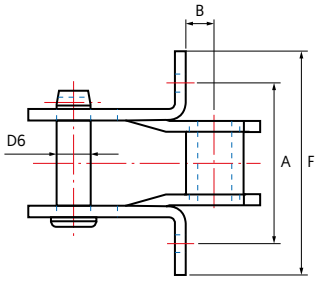
4103F29





E2103

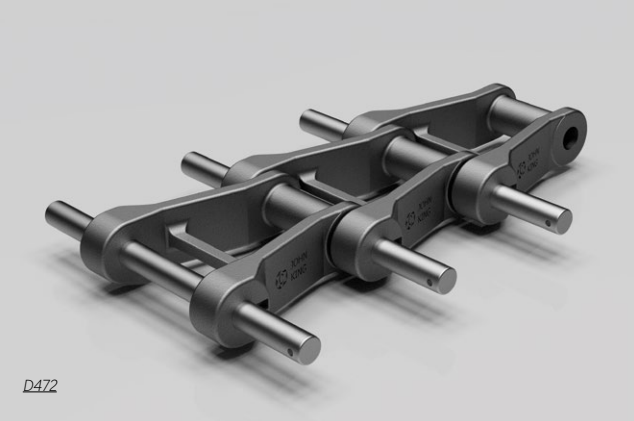




Juice Strainer and Trash Conveyor Chains

Chain Number	Units	Pitch	Bushing	Pins		Sidebars		A	B	C	C1	F	Bolt Diameter	Breaking Load	Breaking Strength	Weight	
			Diameter			Thickness	Height										
		P	D5	D6		S	H						D			Plain	F2/29
				dia.	length												
JKC488F2	mm	66.30	22.40	11.20	77.70	8.00	25.40	51.60	36.10	35.10	50.80	73.90	7.90	820 kg	5,000 kg	5.20 kg/m	9.20 kg/m
	in	2.61	0.88	0.44	3.06	0.31	1.00	2.03	1.42	1.38	2.00	2.94	0.31	1,800 lb	11,000 lb	3.49 lb/ft	6.18 lb/ft
JKC4103F29	mm	78.00	31.80	19.00	92.20	11.00	38.10	62.00	67.10	50.80	67.10	83.30	12.70	1,600 kg	10,000 kg	9.20 kg/m	13.10 kg/m
	in	3.07	1.25	0.75	3.63	0.44	1.50	2.44	2.64	2.02	2.64	3.00	0.50	3,500 lb	22,000 lb	6.18 lb/ft	8.80 lb/ft
JKC4103F30	mm	78.00	31.80	19.00	92.20	11.00	38.10	62.00	62.00	50.80	67.10	83.30	12.70	1,600 kg	10,000 kg	9.20 kg/m	13.10 kg/m
	in	3.07	1.25	0.75	3.63	0.44	1.50	2.44	2.44	2.02	2.64	3.00	0.50	3,500 lb	22,000 lb	6.18 lb/ft	8.80 lb/ft
E2103	mm	78.00	31.80	19.00	79.50	6.40	38.10	88.90	16.00	53.10	69.90	124.00	10.00	2,200 kg	13,100 kg	8.80 kg/m	13.90 kg/m
	in	3.07	1.25	0.75	3.13	0.25	1.50	3.50	0.63	2.09	2.75	4.88	0.40	4,900 lb	40,000 lb	5.91 lb/ft	9.34 lb/ft

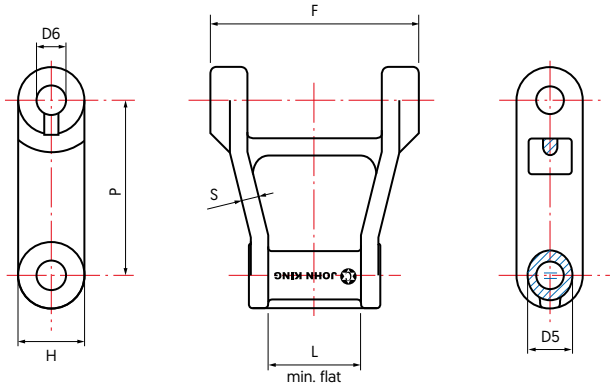
Boiler Moving Grate Chains.



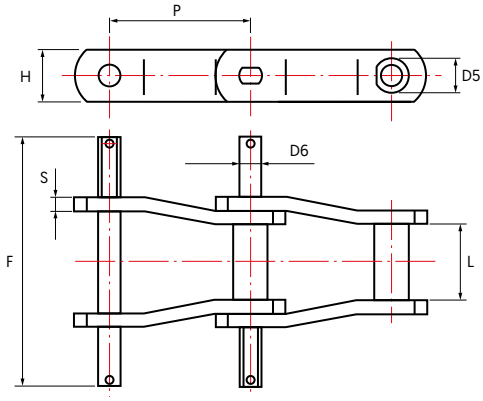
D472

Kings cast chain tradition has allowed them to apply expertise in the development of improved materials for moving grate applications. This hostile environment demands a material that can perform at elevated temperatures and conditions of high abrasion.
In addition to the running gear, the related grate castings are also available. Engineered steel versions are also manufactured such as the Thompson moving grate or stoker chains.

BABCOCK STYLE D472



THOMPSON STYLE JK5063, JK5109



Boiler Moving Grate Chains

Chain Number	Units	Pitch	Bushing Diameter	Pins Diameter	Over Pin	Between Sidebars	Sidebar Thickness	Sidebar Height	Breaking Load
		P	D5	D6	F	L	S	H	
D472	mm	101.00	25.40	15.88	119.00	50.80	10.00	38.10	n/s
	in	3.98	1.00	0.63	4.69	2.00	0.38	1.50	n/s
JK5063	mm	101.60	25.40	15.70	179.30	54.10	10.00	38.10	22,700 kg
	in	4.00	1.00	0.63	7.06	2.13	0.38	1.50	50,000 lb
JK5109	mm	101.60	25.40	15.70	178.60	55.60	10.00	38.10	30,500 kg
	in	4.00	1.00	0.63	7.03	2.19	0.38	1.50	67,000 lb

Boiler Grate Chains.

King plate conveyor slats are manufactured for Main, Auxiliary and Intermediate Carrier chains. Using a progressive die-forming process a high degree of accuracy can be maintained to ensure consistency. The slats can be galvanised for increased resistance to the corrosive action of sugar cane acids.

Direction of Travel

For Cane Carriers

Style JKA

Style JKAA

Style JKAB

Style JKAC

Style JKAD

Direction of Travel

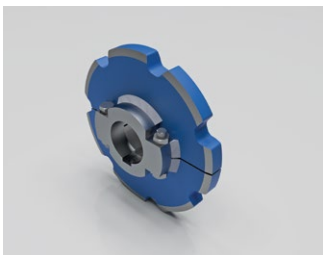
For Intermediate Carriers

Style JKB

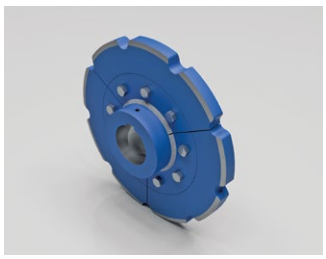
Style JKBB

Style JKBC

Climax Sprockets.



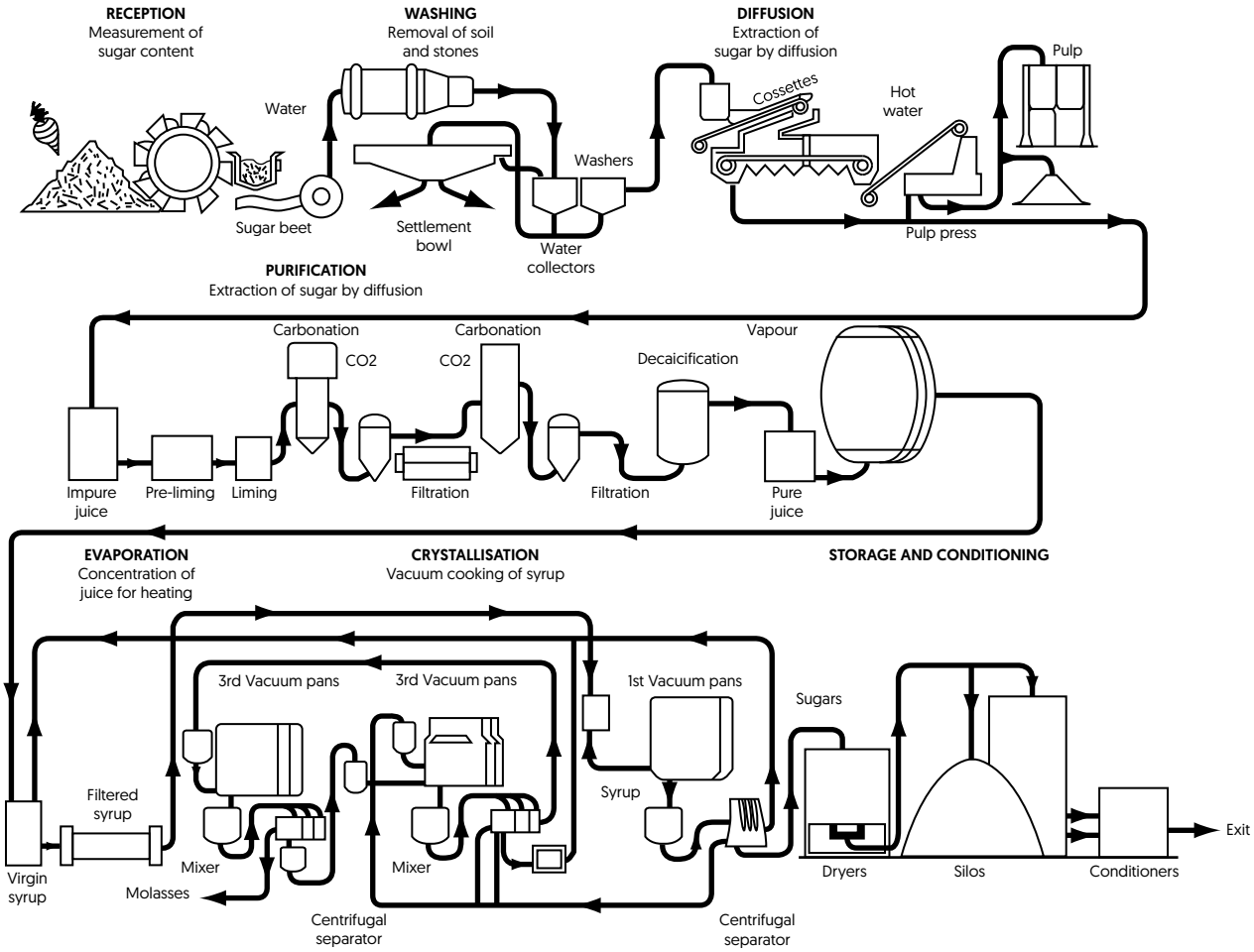
Sprockets with split construction



Sprockets of segmental construction

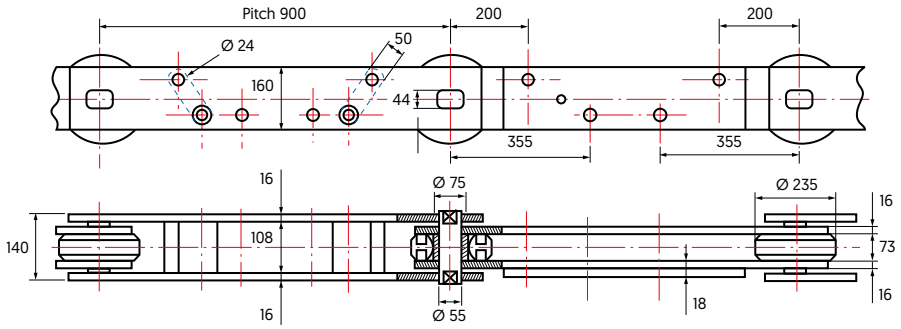
King operate a dedicated in house sprocket manufacturing division where chain sprockets are produced using latest technology. These are available in cast or fabricated form. Options of segmental or split construction allow for easy and cost effective replacement.

Typical Layout in Sugar Beet Diffuser Process.



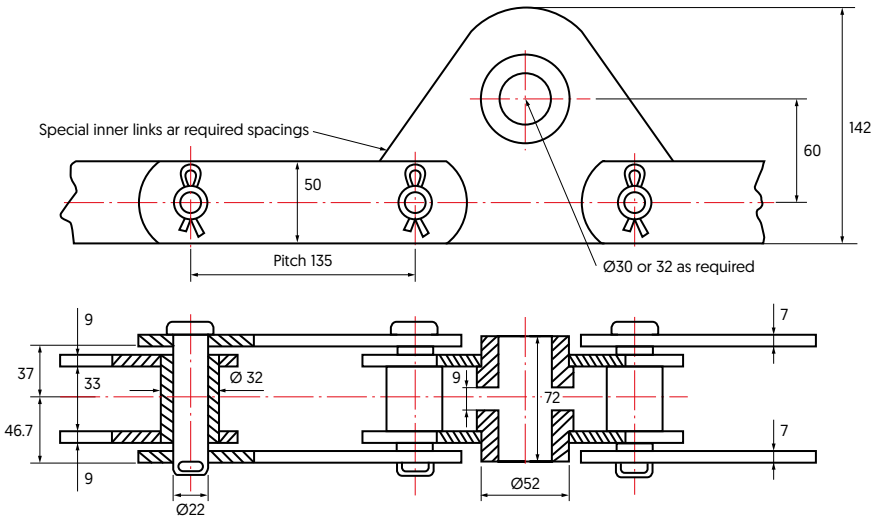
Sugar Beet Diffuser.

Diffuser area: Used on a continuous sugar beet diffuser. Two chains run in parrallel conected by perforated steel slats forming a continuous apron.



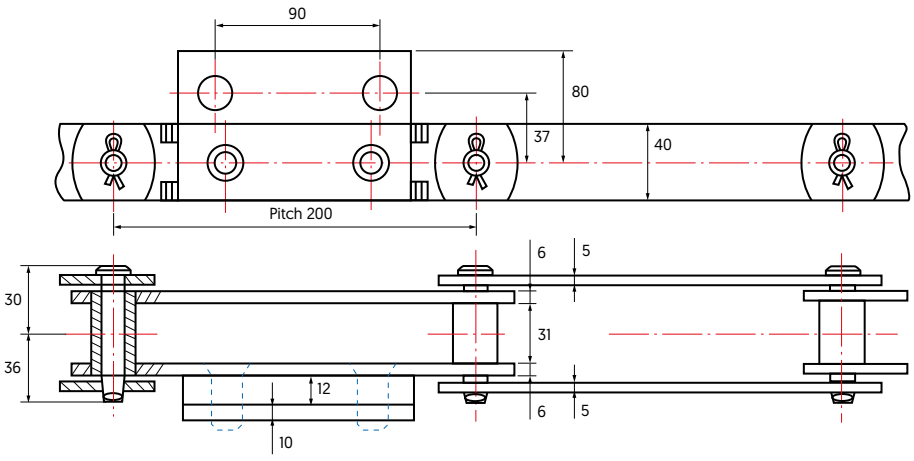
Trash Catcher.

Washing Area: Within the washer a water flume carries away debris washed from the sugar beet. The chain fitted with rakes, removes the trash from the water.



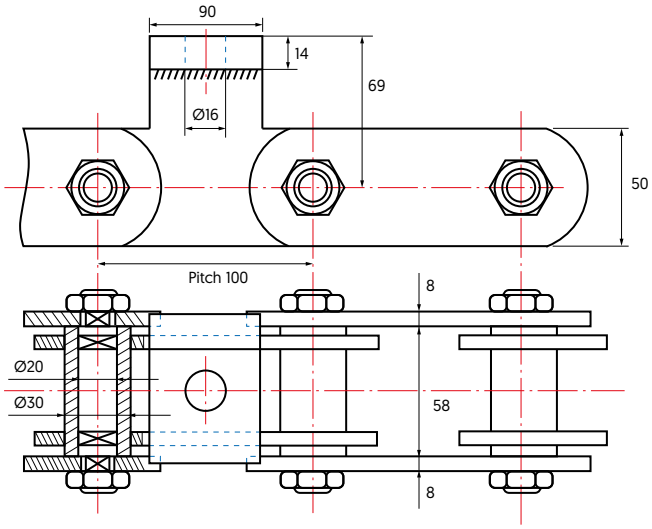
Hydro Trash Catcher.

Washing Area: This chain is used to convey the beet through a washer.



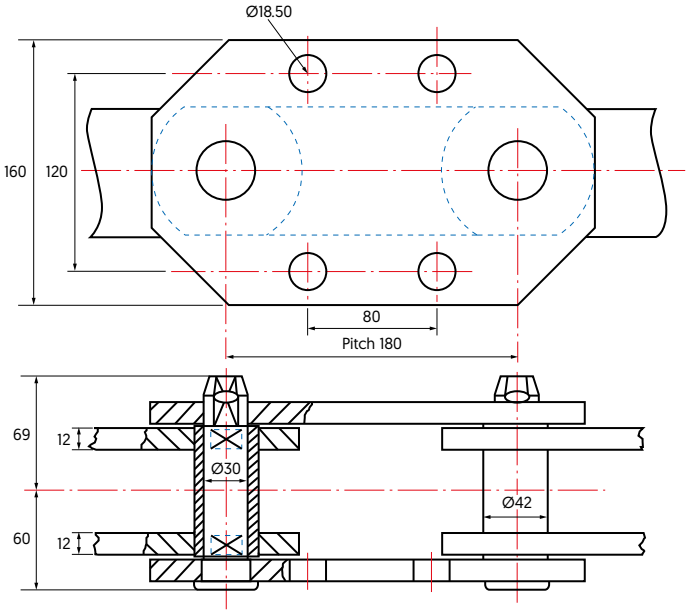
Feed Conveyor.

Diffusion area: This chain carries beet pulp to the drying kilns.



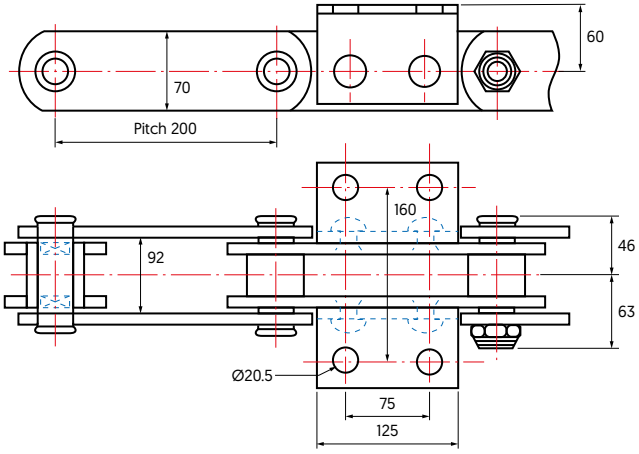
Stone Trap.

Washing Area: The chains operating in double strand are employed to carry away stones removed during the washing of the sugar beet.



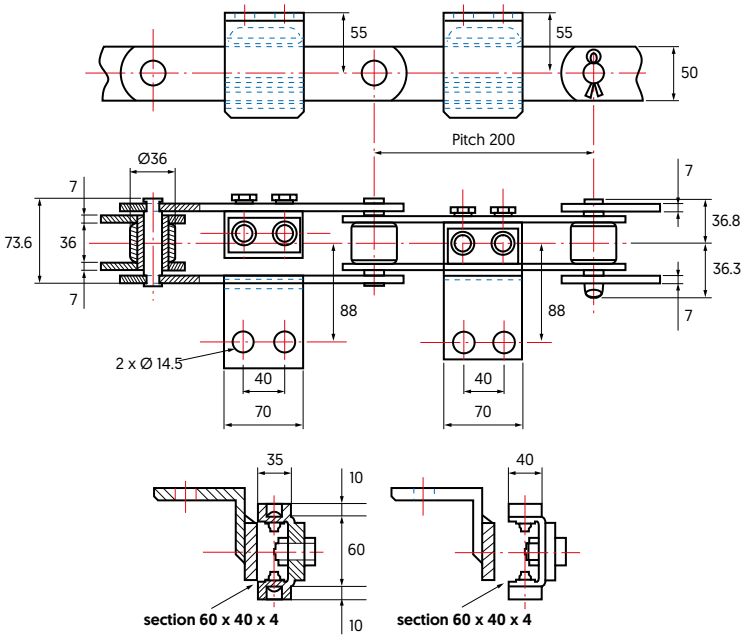
Cossette Conveyor.

Diffuser area: These chains are fitted with rakes and run in inclined conveyors, scraping the beet pulp to the scalding tub.



Scalding Tub.

Diffuser area: These Chains operating in twin strand format are employed to transport spent beet pulp to the next part of the process. The spent beet pulp is used in the production of animal feed.



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