PRECISION CHAINS

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CEREALS PROCESSING AND FEED MILLING CHAINS

60 YEARS OF MANUFACTURING EXCELLENCE

JOHN KING
GROUP COMPANY

CONTENTS

Over **60 years** of **high quality British manufacturing and Engineering expertise.**
For assurance of best performance make
the Precision decision.

FOR GUARANTEED QUALITY AND ASSURANCE IN PERFORMANCE THE PERFECT DECISION IS PRECISION.

Precision Chains have been producing best quality conveyor chains since 1957.

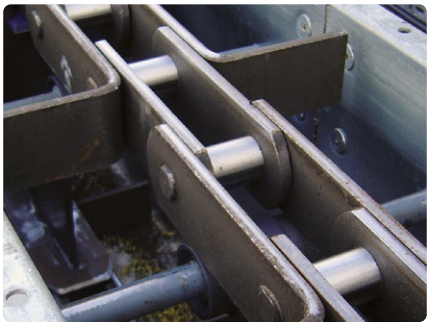
During this period the business has developed unrivalled experience in the production of conveyor chains employing best material specifications, heat treatment conditions and optimum construction. Precision chains as a result offer chains with unrivalled toughness, impact resistance and wear performance.

It is important to note that Precision Chains are able to offer the full spectrum of chains utilised in the cereals processing and feed milling industries. In considering that Precision is a British manufacturer with long experience it is fair to conclude that for guaranteed quality and assurance in performance **the perfect decision is Precision.**

Precision Chains, operating from Dudley in the heart of the United Kingdom operate best manufacturing techniques to maintain a balance between high quality and cost effectiveness. Precision chains are the **only British manufacturer** producing cereals processing and feed milling conveyor chains and sprockets in the United Kingdom, maintaining total control of all aspects of production within the dictates of the company management quality system.

- ☑ BS ISO 9001:2015 certified.
- ☑ Ongoing tensile and proof-testing of chains conducted in-house with periodical testing by independent NAMAS approved laboratories.
- ☑ Chains calibrated to guarantee pitch tolerances are maintained. An essential consideration in twin strand operation
- ☑ Consistency assured with ongoing material and heat treatment verification in our in house laboratory.
- ☑ Highly respected documentation procedures for verifying raw material quality, dimensional consistency and ongoing heat treatment conformity.
- ☑ In-house and independent periodical calibration of measuring equipment.
- ☑ Best manufacturing techniques for high speed and accurate component production.
- ☑ Standard production specifications are uprated to surpass all competitor's standards.
- ☑ Precision technicians on hand to advise on chain selections for uprating chain performance in existing and new applications.

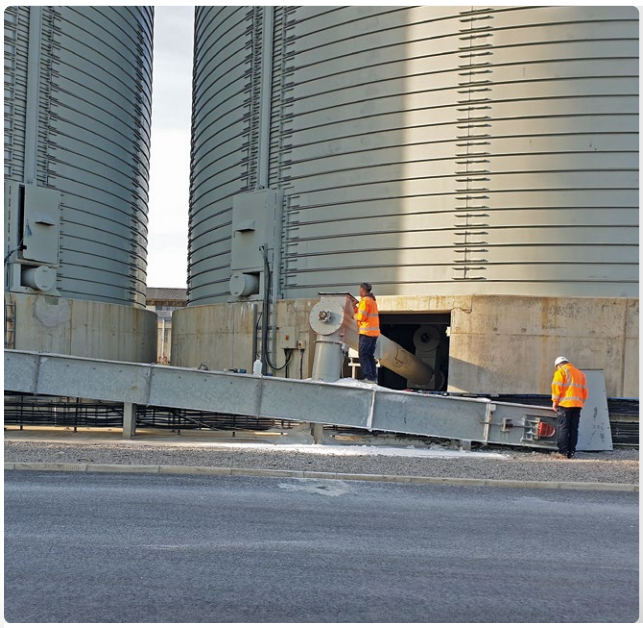
The acquisition of Precision Chains by the John King group in 2021 brought together two World leaders in chain manufacturing to create a unique capability in delivering cost effective solutions through innovation, proficiency, reliability, best service and customer care. To secure optimum performance and cost effective solutions **the perfect decision is Precision.**



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. Precision 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.

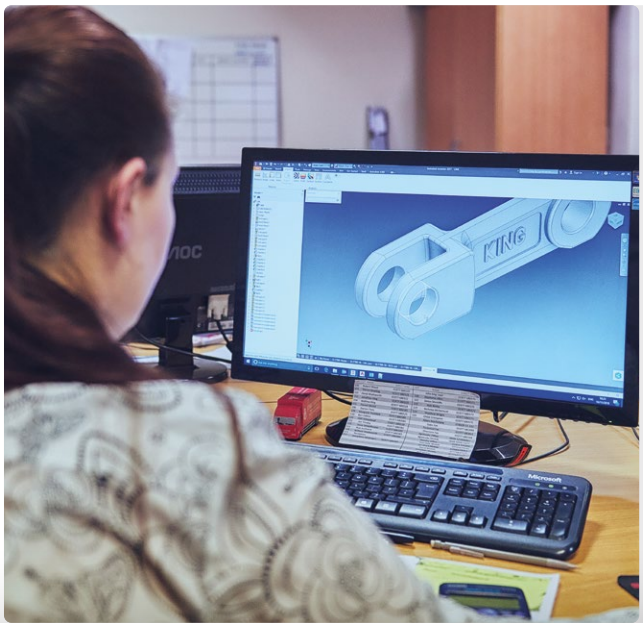


INSPECTION, SURVEY AND CONSULTATION.

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 in; for example; materials employed, design, construction and implementation.

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 to budget.

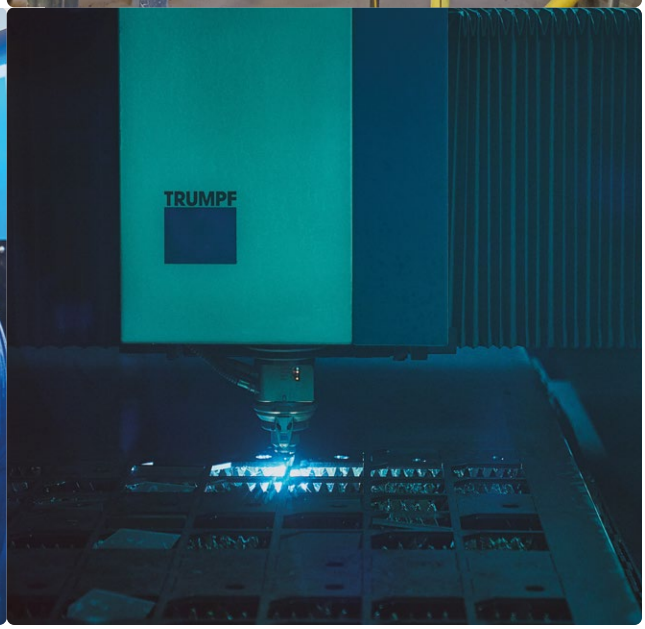


DESIGN AND DRAWING SERVICE.

Design and technical drawing is part of our service. We create the technical drawing directly from the 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 and in a safe manner.



LASER PROFILING AND FABRICATION

FROM SURVEY TO DRAWING TO PRODUCTION – THE ONE STOP SHOP.

Group laser cuiting commerced in 2007 primarily to service the mechanical handling divisions. 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 and fabricated parts to customers producing a wide range of machinery and equipment.

More recently the division has been able to support the group site service division where bespoke fabrications have been required.

The laser division has remained autonomous from the start whilst critically benefitting as part of a 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 ISO9000 to the latest 2015 standard to ensure quality objectives are monitored and maintained.

LASER CUTTING FACILITIES

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

FLAME CUTTING AND PLASMA CUTTING FACILITIES

- **Machine bed size of 8 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.

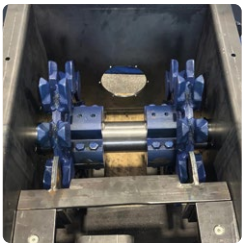
In support of our impressive range of flatbed processing capabilities we operate CNC Synchro press brake machines capable of pressing parts with capacities up to and including 220 tons and 4000 mm in length, with smaller machines with 2000 mm gap and 100 mm stroke for smaller parts in higher volume production.

WELDING AND FABRICATION.

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

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.

Precision Chains as a group business ofers a highly skilled team of Engineers solely dedicated to the Service & 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. The group uniquely offer both.

- **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 your needs.

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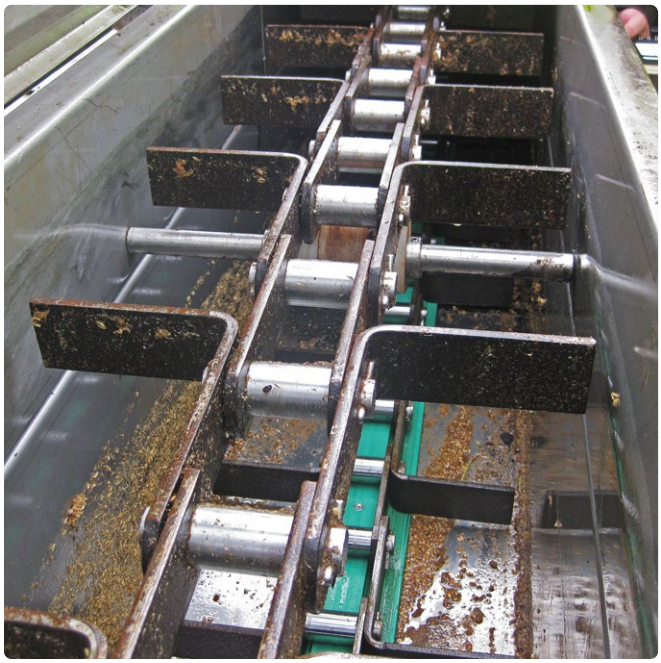


SITE SERVICES SCOPE OF SUPPLY.

- **Inspection and maintenance** of all mechanical handling equipment by specialist Engineers
- **Trouble shooting** and problem solving within mechanical handling equipment.
- **Supply of high quality Precision conveyor chain** and related conveyor spares.
- **In house laboratory for material** and heat treatment analysis with full metallurgical support.
- **Manufacture and installation of all types of fabrications** from per-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

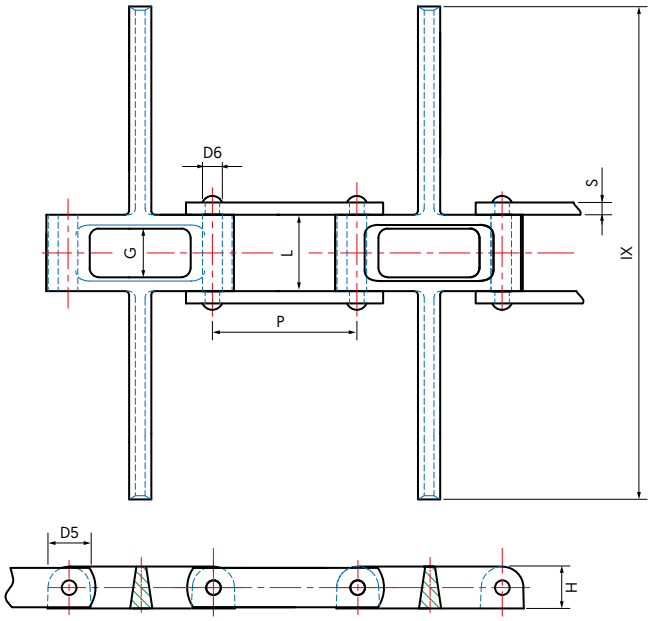
We are committed to providing and maintaining a healthy and safe environment for all employees and to protect the safety of contractors, customers, visitors and all other persons affected by our operations.

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

CAST COMBINATION TROUGH SCRAPER CHAINS

C586/T2X8

Precision Chains are principal producer of cast chains. 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.



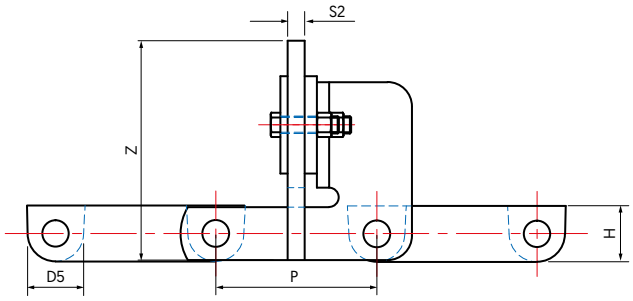
Chain Number	P Pitch [mm]	D5 Barrels Outside Diameter [mm]	D6 Pins Diameter [mm]	L Between Sidebars [mm]	G Gearing [mm]	S Sidebars Thickness [mm]	H Sidebars Height [mm]	IX Overall Width [mm]	Working Load [lbs]	Average Weight [kg/m]
C586/T2X5	58.6	17	8	32	20	5	16	124	6,000	2.89
C586/T2X8	58.6	17	8	32	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

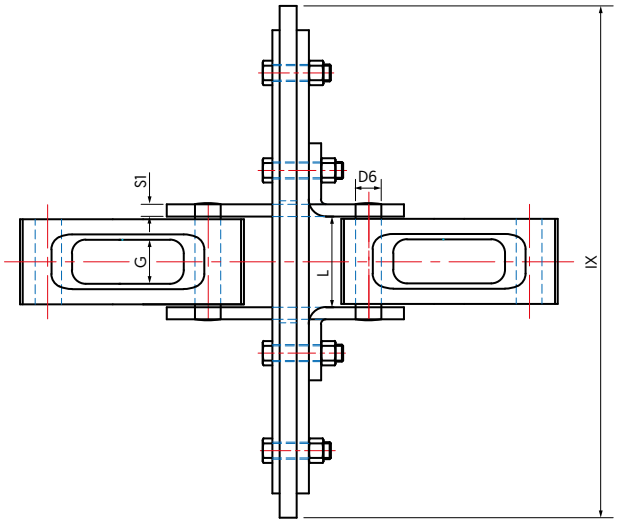
NR – Noise Reduction feature with deep link plate.
* P – Moulded engineering plastic flight riveted to outer link in place of cast flight. Available on C664 and C762.

COMBINATION ELEVEYOR CHAINS

C762/F4X280

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.



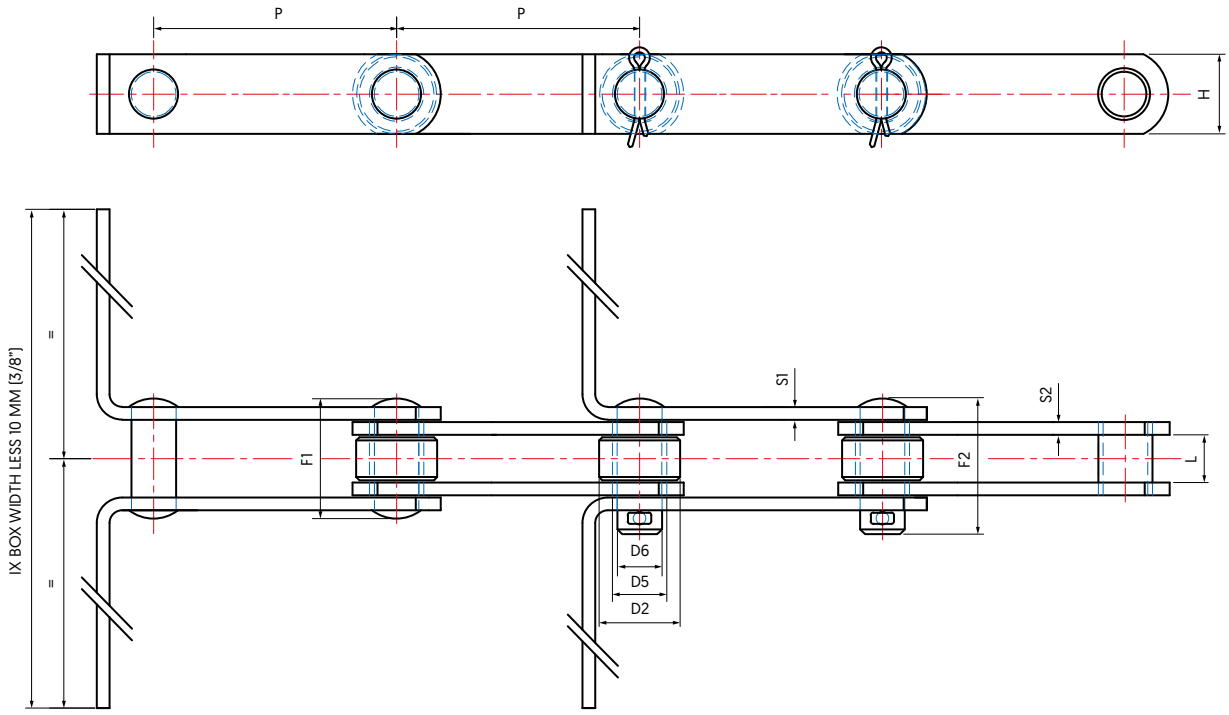


Chain Number	P Pitch	D5 Barrels Outside Diameter	D6 Pins Diameter	L Between Sidebars	G Gearing	S1 Sidebars Thickness	S2	H Sidebars Height	IX Overall Width	Z Overall Flight Height	Breaking Load	Average Weight
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[lbs]	[kg/m]
C664/F4X190	66.4	23	11	37	25	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

B16D13/BT

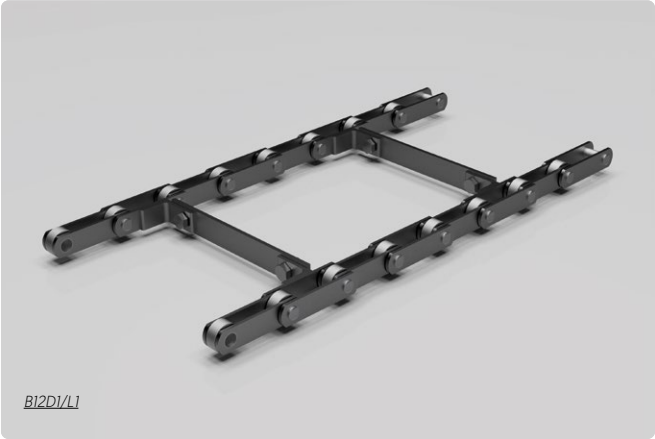
This series conforms to the British standard BS 4116 in all areas apart from D roller diameter. In this case the chain employs a flush style roller which is equivalent in diameter to the link plates height. This flush roller is not therefore a carrier style but will allow for improved sprocket gearing 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.



Chain Number	P Pitch	D2 Rollers Outside Diameter	D5 Bushings	D6 Pins Diameter	F1 Over-All Pin & Cotter	F2	L Between Sidebars	S1 Sidebars Thickness	S2	H Sidebars Height	IX Overall Width	Breaking Load		Average Weight
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kN]	[kN*]	[kg/m]
B12D13/BT	76.2	25.4	18	14	38	42	15.2	4	4	26	TBA**	43	70	TBA
B16D13/BT	101.6	25.4	18	14	38	42	15.2	4	4	26	TBA**	43	70	TBA
B16G15/BT	101.6	38.1	23.6	19	46.2	50	19	5	4	40	TBA**	75	125	TBA
B24G15/BT	152.4	38.1	23.6	19	46.2	50	19	5	4	40	TBA**	75	125	TBA

* Heat treated sidebars – double strength.
** Flight width IX to suit customer requirements.
Connectors available in cottered or screwed format.

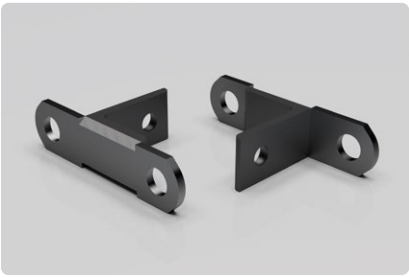
TWIN TRACE ROLLER CHAINS



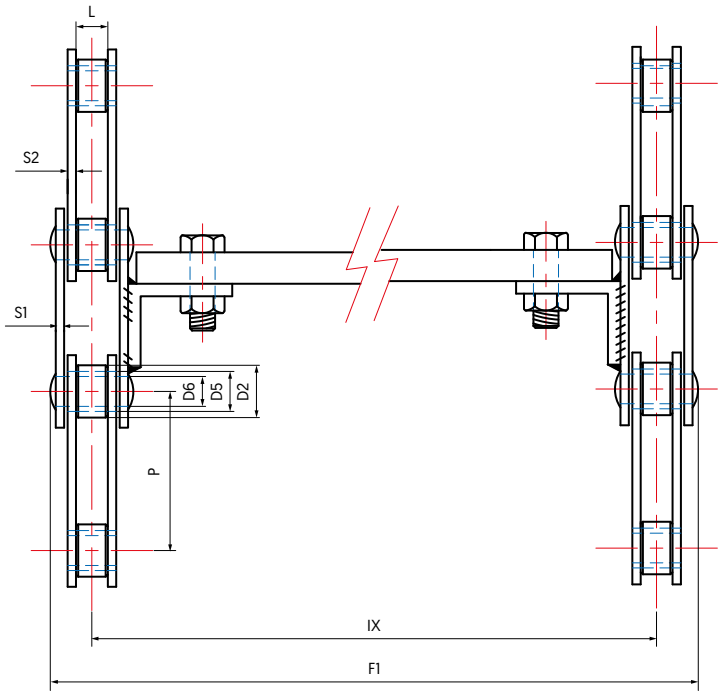
B12D1/L1

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.

PRECISION'S **RELIEVED PLATE**



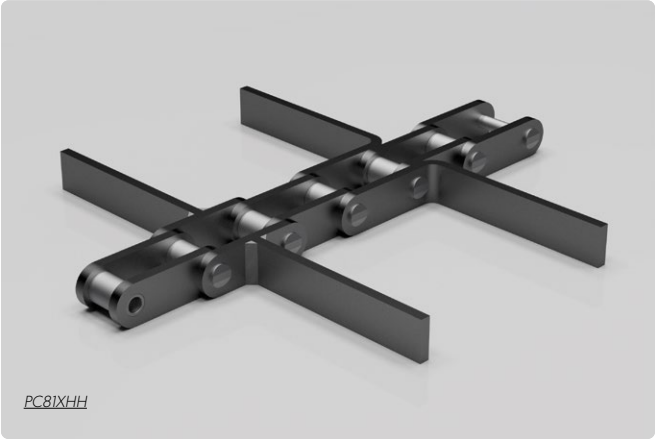
Precision's unique relieved plate allows for maximum integrity flush weld with minimum weld projection beyond the angle .This ensures flatness and ensures the weld is not exposed to wear and premature failure.



Chain Number	P Pitch	D2 Rollers Outside Diameter	D5 Bushings	D6 Pins Diameter	IX Overall Width	F1 Overall Width	L Between Sidebars	S1 Sidebars Thickness	S2 Sidebars Thickness	H Sidebars Height	Breaking Load Per Strand		Average Weight
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kN]	[kN*]	[kg/m]
B12D1/L1	76.2	31.75	18	14	TBA**	IX + 37	15.2	4	4	26	43	70	TBA*
B16D1/L1	101.6	31.75	18	14	TBA**	IX + 37	15.2	4	4	26	43	70	TBA*
B12G1/L1	76.2	47.6	23.6	19	TBA**	IX + 43	19	5	4	40	75	125	TBA*
B16G1/L1	101.6	47.6	23.6	19	TBA**	IX + 43	19	5	4	40	75	125	TBA*
B16H1/L1	101.6	66.7	33	27	TBA**	IX + 56	25.4	6	6	50	135	200	TBA*
B24H1/L1	152.4	66.7	33	27	TBA**	IX + 56	25.4	6	6	50	135	200	TBA*

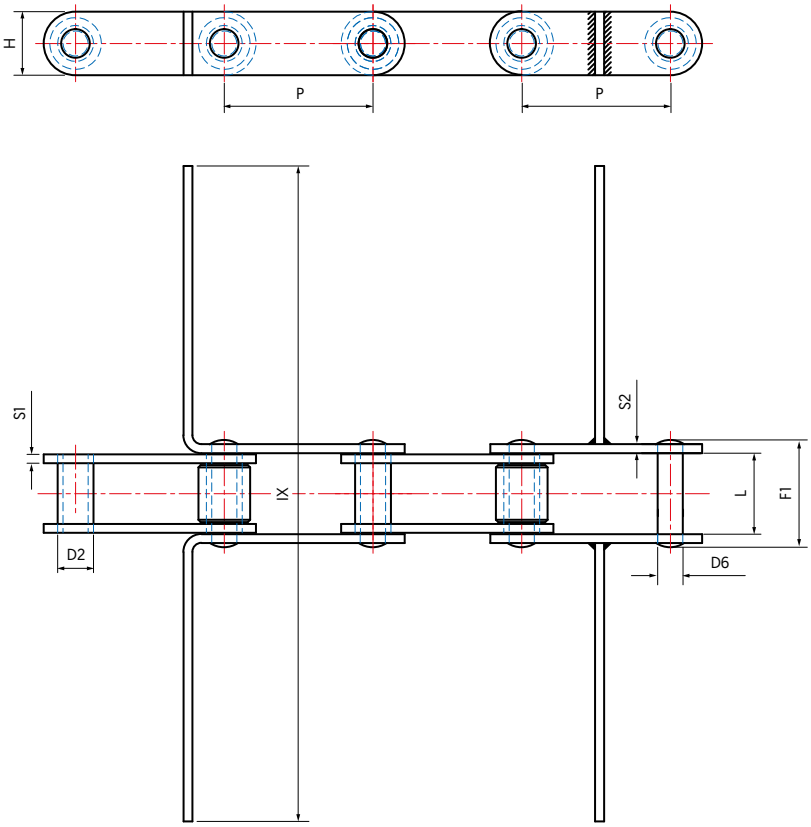
* Weight per metre based on dimension IX therefore to be advised. I2 Flight every outer link. I4 Flight every second outer link.
** Flight width IX to suit customer requirements.

81X CHAINS 'THE GRAIN CHAIN'



PC81XHH

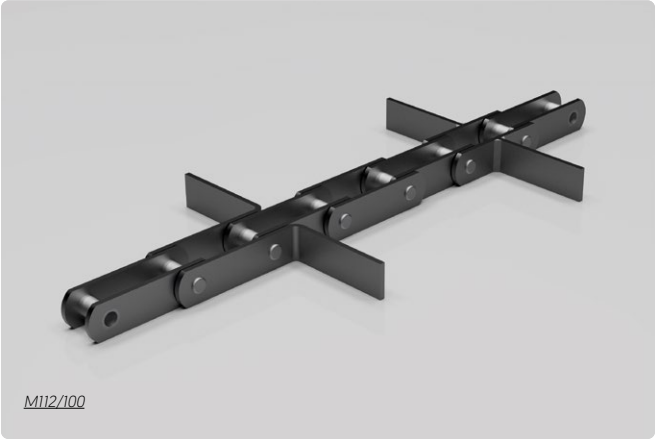
Worldwide the most common running gear encountered is the American Series Roller Chain 81X. This we describe as the GRAIN CHAIN. It is always 2.609" pitch (66.27 mm). As operational duty has increased with it has the demand for a heavy duty version. This has been achieved by increasing the height and 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, Precision Chains uniquely offer BT style being bent integral produced to customer standards.



Chain Number	P Pitch	D2 Rollers Outside Diameter	D6 Pins Diameter	F1 Over-All Pin	L Between Sidebars	S1 Sidebars Thickness	S2	H Sidebars Height	IX Overall Width	Tensile Strength
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kN]
PC81X	66.27	23	11.11	47.2	27	4	4	28.58	TBA*	111
PC81XH	66.27	23	11.11	58.2	27	7.94	5.56	31.75	TBA*	176
PC81XHH	66.27	23	11.11	63.5	27	7.94	7.94	31.75	TBA*	186

* Flight width IX to suit customer requirements.
Flight Options: **WT** denotes flight welded to side plate mid pitch. **BT** denotes flight bent integral with linkplate.

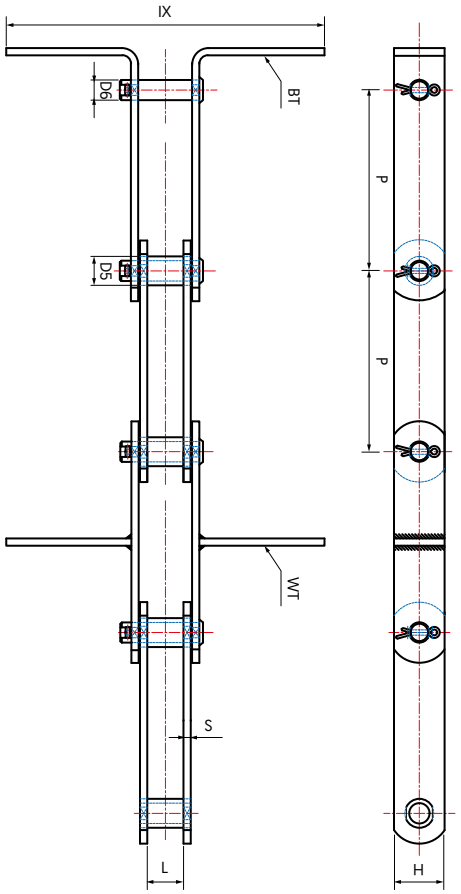
METRIC TROUGH SCRAPER CHAINS



M112/100

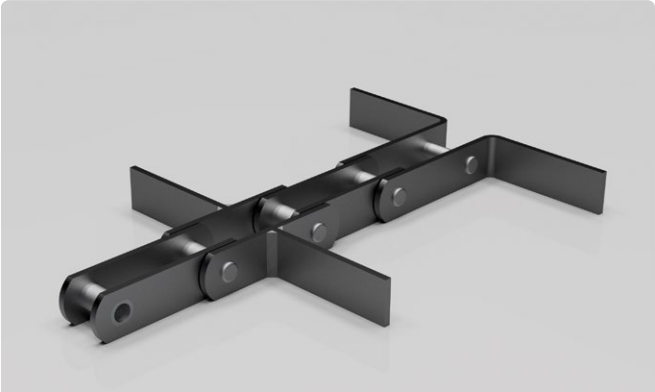
Throughout Europe metric standard chain is used in trough conveyors for grain transport. M series according to DIN 8167 is the most typical of the two main ranges that are predominant. The chains are exactly as the standard but in bush form without roller. The flights are normally BT style being bent 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.

Chain Number	P Pitch	D5 Bushings Diameter	D6 Pins Diameter	L Between Sidebars	S Sidebars Thickness	H Sidebars Height	IX Overall Width	Breaking Load DIN standard	Breaking Load John King**
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kN]	[kN]
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
M80	160	18	12	28	5	35	TBA*	80	125
M80	200	18	12	28	5	35	TBA*	80	125
M112	80	21	15	32	6	40	TBA*	112	175
M112	100	21	15	32	6	40	TBA*	112	175
M112	125	21	15	32	6	40	TBA*	112	175
M112	160	21	15	32	6	40	TBA*	112	175
M112	200	21	15	32	6	40	TBA*	112	175
M160	100	25	18	37	7	50	TBA*	160	260
M160	125	25	18	37	7	50	TBA*	160	260
M160	160	25	18	37	7	50	TBA*	160	260
M160	200	25	18	37	7	50	TBA*	160	260
M160	250	25	18	37	7	50	TBA*	160	260
M224	125	30	21	43	8	60	TBA*	224	340
M224	160	30	21	43	8	60	TBA*	224	340
M224	200	30	21	43	8	60	TBA*	224	340
M224	250	30	21	43	8	60	TBA*	224	340
M224	315	30	21	43	8	60	TBA*	224	340
M315	160	36	25	48	10	70	TBA*	315	520
M315	200	36	25	48	10	70	TBA*	315	520
M135	250	36	25	48	10	70	TBA*	315	520
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 width IX to suit customer requirements. ** Breaking Load with heat treated plates.
Flight Options: **WT** denotes flight welded to side plate mid pitch. **BT** denotes flight bent integral with linkplate.

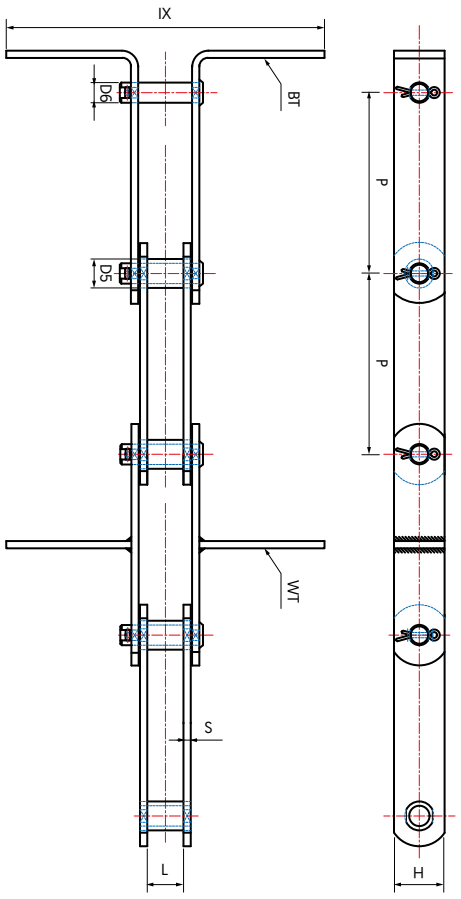
METRIC TROUGH SCRAPER CHAINS



FVR 112/100

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.

	P	D5	D6	L	S	H	IX		
Chain Number	**Pitch**	**Bushings Diameter**	**Pins Diameter**	**Between Sidebars**	**Sidebars Thickness**	**Sidebars Height**	**Overall Width**	**Breaking Load**	
								DIN standard	**John King****
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kN]	[kN]
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

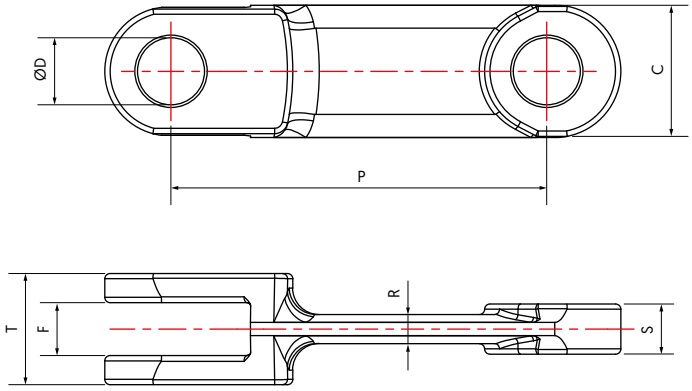


Chains can be supplied riveted or cottered on both sides. * Flight width IX to suit customer requirements. ** Breaking Load with heat treated plates.
Flight Options: **WT** denotes flight welded to side plate mid pitch. **BT** denotes flight bent integral with linkplate.

FORGED LINK STANDARD SERIES

PCF 14218

This series represents the leading product within the Precision 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.

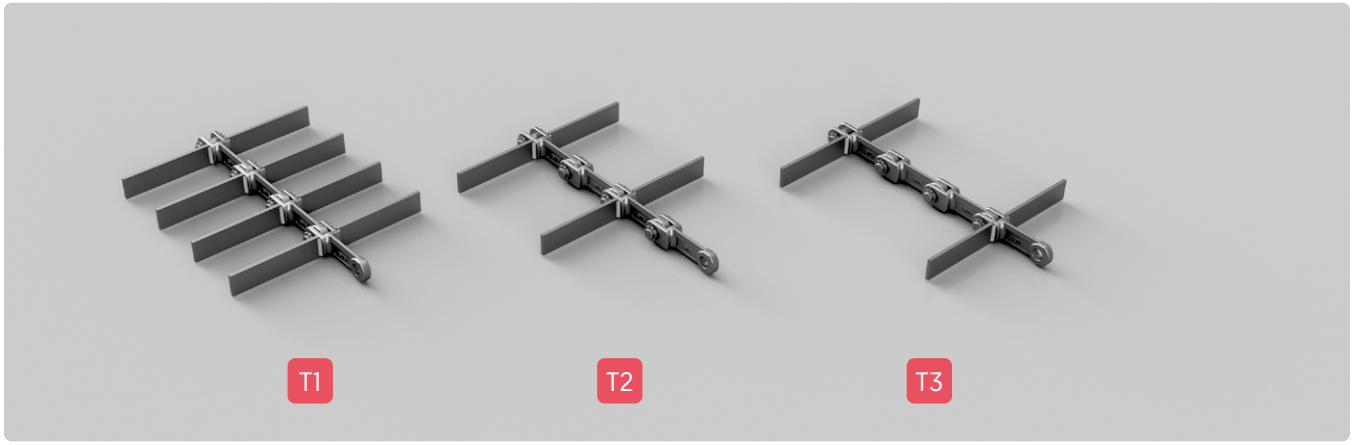


Chain Number	P	T	C	S	F	R	D	Breaking Loads			Weight
							Bolt Hole Diameter	TN*	CN*	CD*	
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kN]	[kN]	[kN]	[kg/m]
PCF 10160	101.6	24	36	8	10	6	14	110	120	210	3.50
PCF 10160R	101.6	30	36	13	14	9	14	180	195	330	4.80
PCF 12514	125	30	36	13	14	10	16	163	175	290	4.40
PCF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

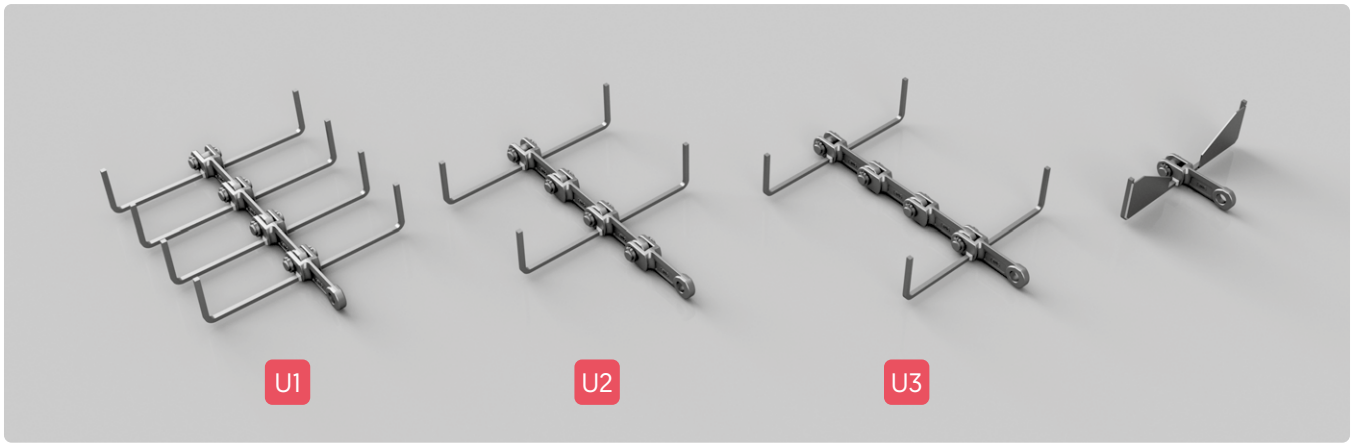
Attachment hole positions and sizes can be varied to meet customer requirements.

FLIGHT ATTACHMENT OPTIONS TO FORGED CHAINS

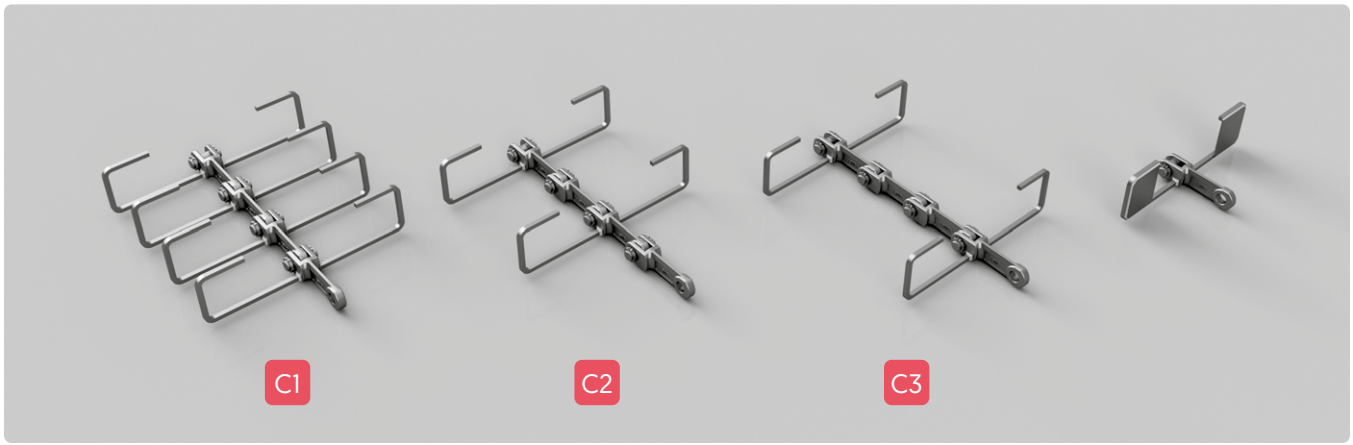
T TYPE ATTACHMENTS FOR HORIZONTAL AND SLIGHTLY INCLINED CONVEYING



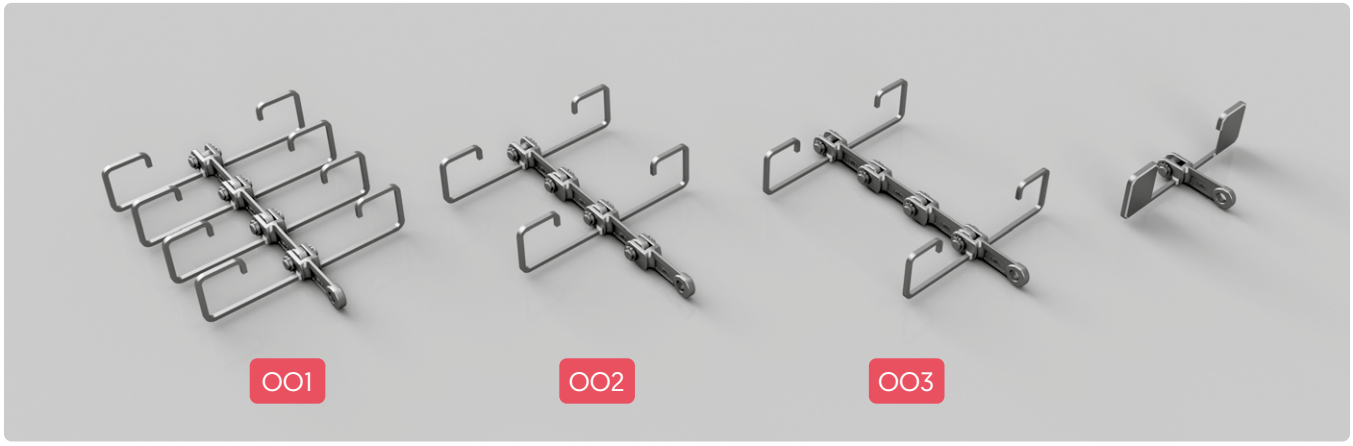
U TYPE ATTACHMENTS FOR HORIZONTAL AND INCLINED CONVEYING (WITH OR WITHOUT BLANKING PLATE)



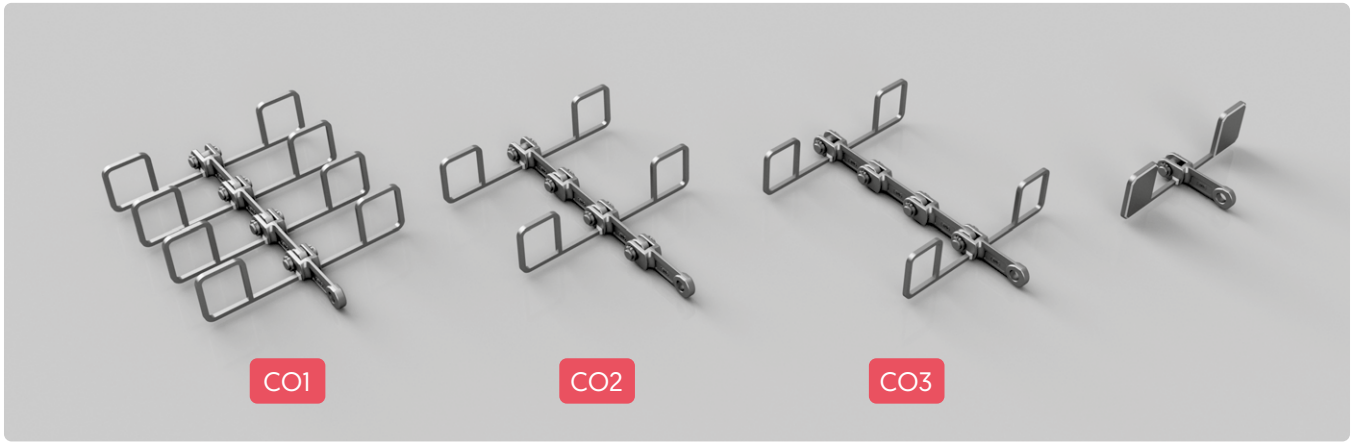
C TYPE ATTACHMENTS FOR HORIZONTAL, INCLINED AND VERTICAL CONVEYING (WITH OR WITHOUT BLANKING PLATE)



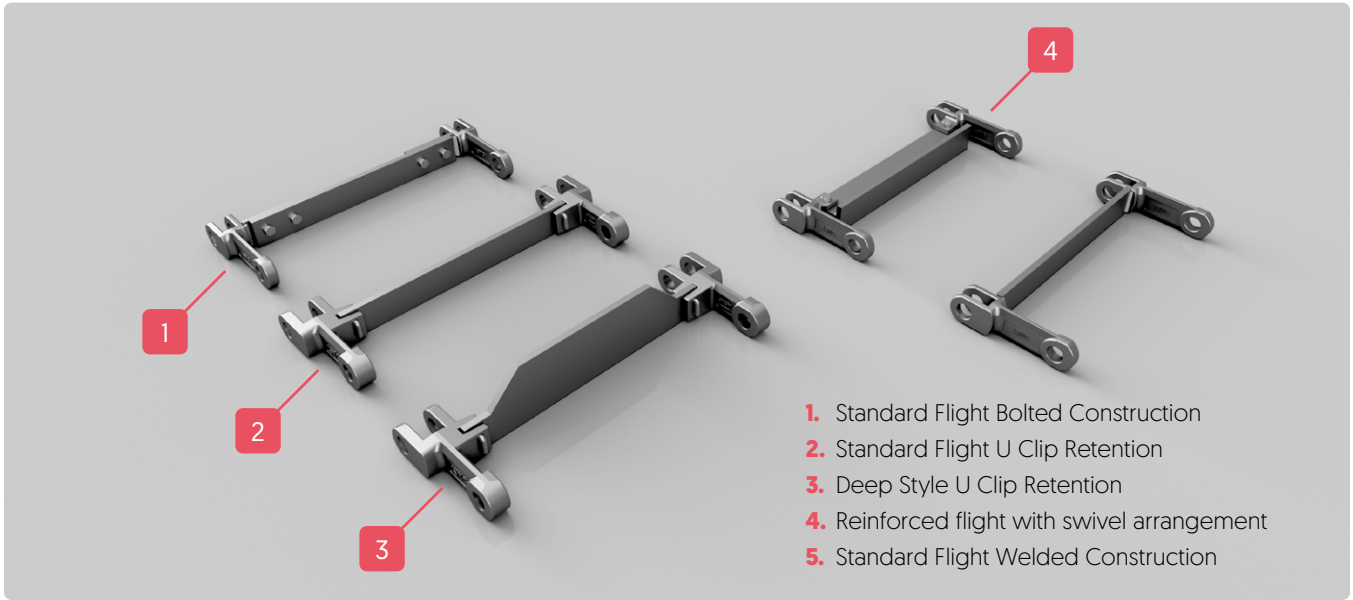
OO TYPE ATTACHMENTS FOR HORIZONTAL AND INCLINED CONVEYING (WITH OR WITHOUT BLANKING PLATE)



CO TYPE ATTACHMENTS FOR HORIZONTAL AND INCLINED CONVEYING (WITH OR WITHOUT BLANKING PLATE)



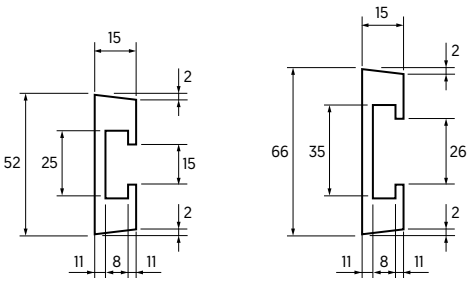
DOUBLE SERIES FLIGHT OPTIONS I FORMAT



1. Standard Flight Bolted Construction
2. Standard Flight U Clip Retention
3. Deep Style U Clip Retention
4. Reinforced flight with swivel arrangement
5. Standard Flight Welded Construction

PLASTIC SLEEVES FOR STANDARD FORGED CHAINS

PCF10160R/T1X385/PS



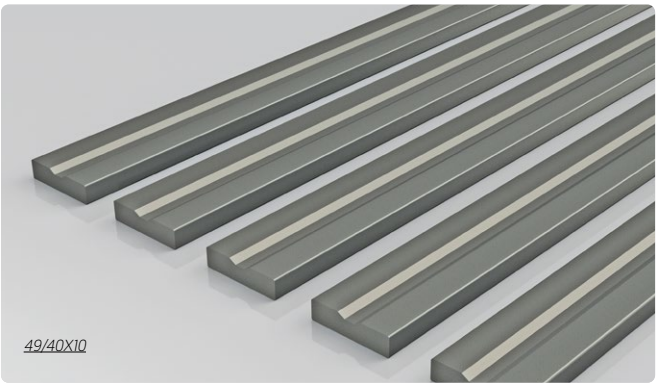
10160
10160R

14218
14226

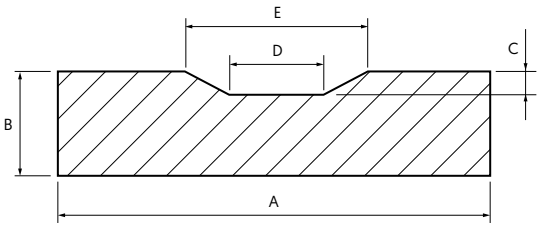
All measurements in mm.

Flight Material: Extruded UHMW Polyethylene.

HIGH MANGANESE WEAR RAIL



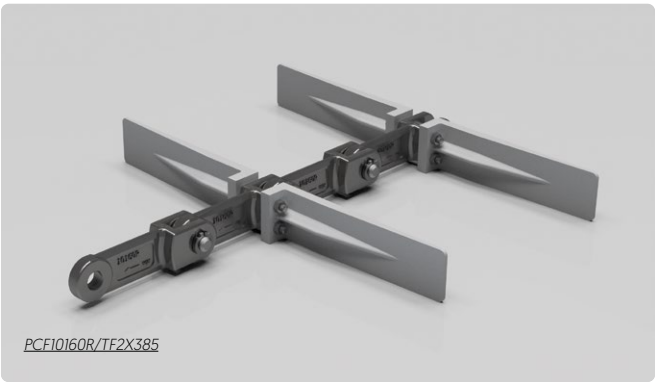
49/40X10



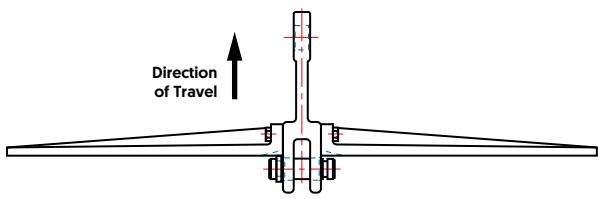
References	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	Weight [kg/m]
49/40X10	40.0	10.0	2.0	5.0	12.0	3.01
49/50X10	50.0	10.0	2.0	5.0	12.0	3.82
49/60X10	60.0	10.0	2.5	6.0	16.0	4.45
49/60X12	60.0	12.0	2.5	6.0	16.0	5.50
49/60X20	60.0	20.0	3.0	6.0	16.0	9.15

ENGINEERING PLASTIC FLIGHT – TUFFLEX®

WITH UNIQUE MOUNTING ARRANGEMENT (PATENT PENDING)



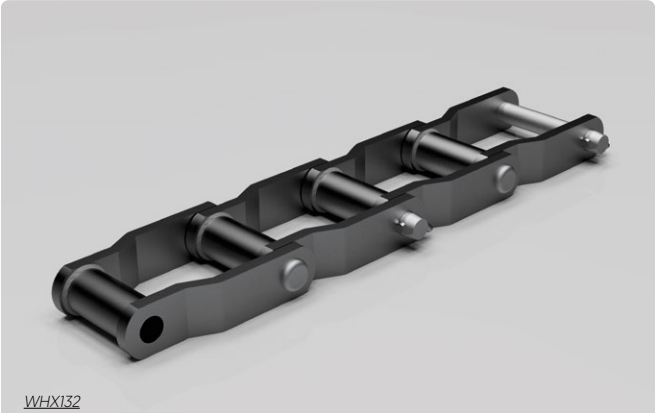
PCF10160R/TF2X385



Flight number	Max. Width [inches]	[mm]
10160R	15.50	395
14218	29	740
14226	30	760

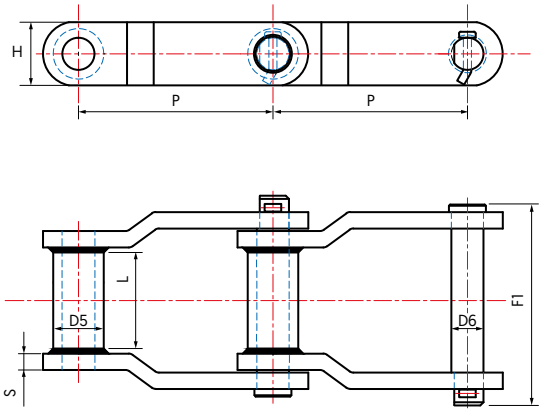
Flight Material: High Impact Resistant Engineering Plastic (For options refer to our technicians).

OFFSET SIDEBAR WELDED STEEL CHAINS



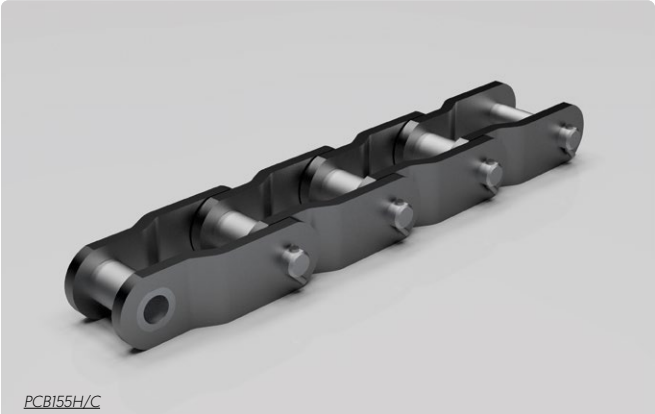
WHX132

Precision Chains 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 Precision 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.



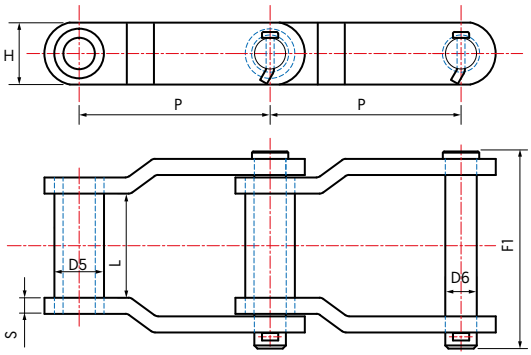
Chain Number	P Pitch	D5 Bushings Outside Diameter	D6 Rivets Diameter	F1 Over-All Pin & Cotter	L Between Sidebars	B Length of Bearing	S Sidebars Thickness	H Sidebars Height	Breaking Load	Average Weight
	[inches]	[inches]	[inches]	[inches]	[inches]	[inches]	[inches]	[inches]	[lbs]	[lbs/ft]
WHX78/C	2.609	0.84	0.50	3.00	1.25	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

METRIC TROUGH SCRAPER CHAINS



PCB155H/C

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 Precision PCB 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 Precision works standard MX series chains). The flight formats will be as welded steel chain (P21) with polyethylene flights in various forms bolted to steel backing plates which in turn are welded to the chain.



Chain Number	P Pitch [inches]	D5 Bushings Outside Diameter [inches]	D6 Pins Diameter [inches]	F1 Over-All Pin & Cotter [inches]	L Between Sidebars [inches]	S Sidebars Thickness [inches]	H Sidebars Height [inches]	Breaking Load [lbs]	Average Weight [lbs/ft]
PCB82H/C	3.00	1.125	0.56	2.94	1.19	0.313	1.50	41,000	6.20
PCB124H/C	4.00	1.125	0.63	4.00	1.94	0.38	2.00	60,000	9.50
PCB106H/C	6.00	1.125	0.63	4.00	1.94	0.38	2.00	60,000	9.50
PCB132H/C	6.00	1.50	0.875	4.80	2.125	0.50	2.50	105,000	13.80
PCB155H/C	6.00	1.75	1.13	5.56	2.50	0.56	3.00	148,000	20.00

Note: Specifications based on standard material and heat treatment.
Options of austentic stainless steel plates and hardening stainless materials for pin and bushes available on request.

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Total Quality. Assured.

CERTIFICATE
OF REGISTRATION

This is to certify that the management system of:

Precision Chains Ltd

Main Site: Clee Road, Dudley, West Midlands, DY2 0YG, United Kingdom

has been registered by Intertek as conforming to the requirements of:

ISO 9001:2015

The management system is applicable to:

The manufacture, procurement, inspection, re-conditioning and supply of conveying chains and their related supporting component, including other related processes of press work, manufacturing, machining, assembly, fabrication and inspection.

Certificate Number:
0156142

Initial Certification Date:
01 October 1993

Date of Certification Decision:
08 September 2023

Issuing Date:
08 September 2023

Valid Until:
30 September 2026

intertek

UKAS MANAGEMENT SYSTEMS 014

Calin Moldovean
President, Business Assurance

Intertek Certification Limited, 10A Victory Park, Victory Road, Derby DE24 8ZF, United Kingdom

Intertek Certification Limited is a UKAS accredited body under schedule of accreditation no. 014.

Change of use for redundant silos in Rosario, Argentina.
The grain processing capital of the world.

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