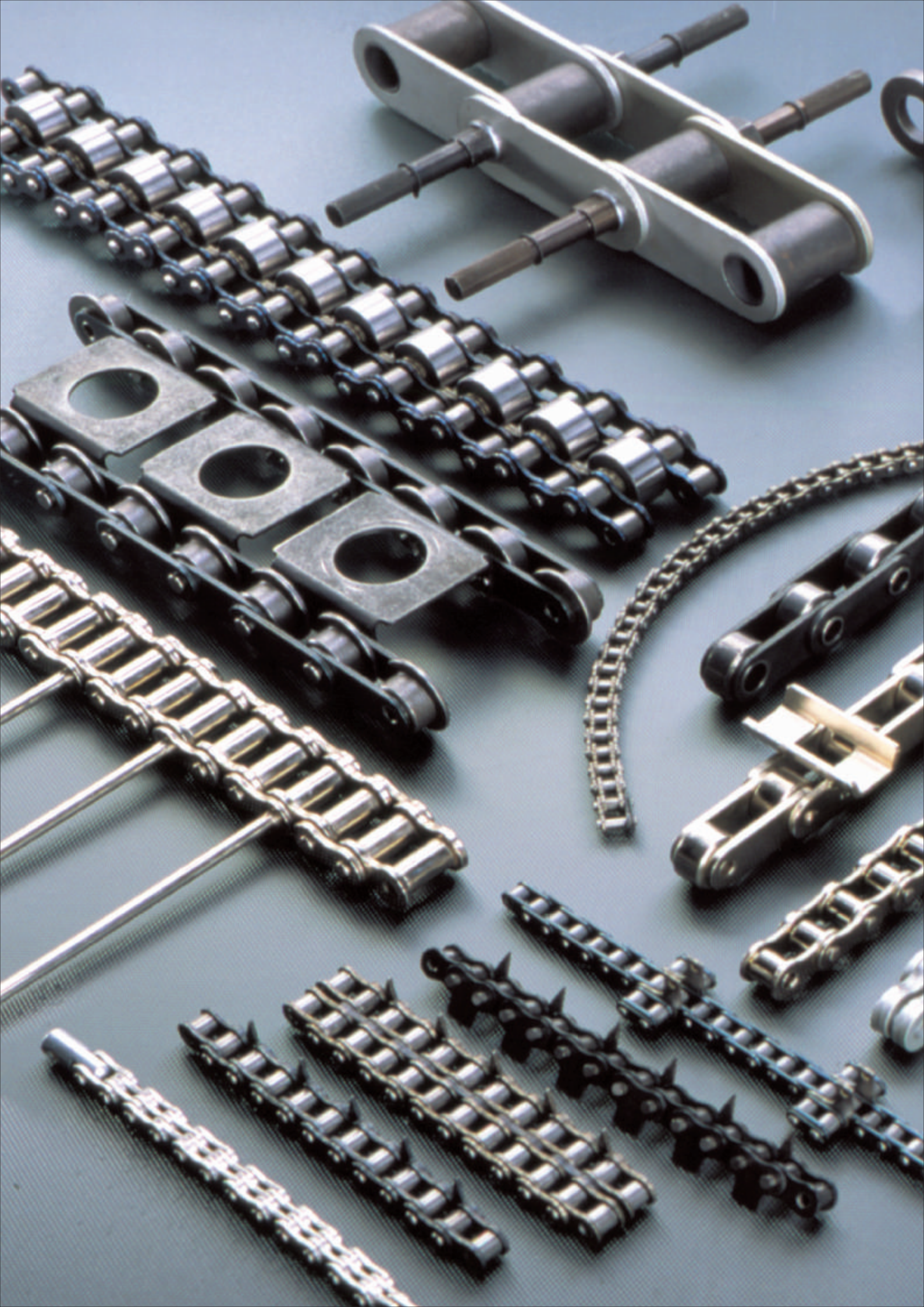
DIAMOND®
INDIA RELIABILITY

FROM
TIDC INDIA
(Unit of Tube Investments of India Ltd.)

THE COMPLETE
CHAIN COMPANY



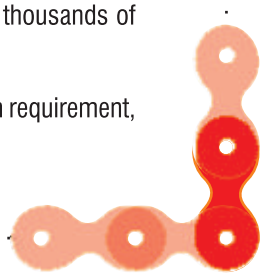
The TIDC journey

When TIDC India was started, we were a dedicated facility for manufacturing bicycle chains, for our parent company TI cycles.

Today, TIDC manufactures a spectrum of chain products and in volumes that few manufacturers worldwide can match from drive chains, motorcycle chains, timing chains to custom made industrial chains, conveyor chains and agricultural chains.

Step by step, link by link we've developed momentum. Decades of experience have lent us invaluable insights in R&D. Expansion of facilities have led to our acquiring formidable manufacturing strengths. And continuous investments in technology have ensured we have world class technology on call. All of which has brought results in the form of thousands of happy end-users, customers and clients.

Today, TIDC is truly the complete chain company with the ability to meet any chain requirement, anywhere in the world.



Era analysis

2000 Implemented Manufacturing System Redesign programme (P25) to improve throughput time and Quality.	**2001** Held first Overseas Distributor Meet at Hanover, Germany. Obtained ISO14001 certification for Environmental Management.	**2002** Obtained ISO 9001 : 2000 certification for Quality System	**2003** Obtained ISO/TS 16949 certification for Cam chain and Fine blanking division
1996 Fine blanking operations commenced to market Chain-Sprocket as a system.	**1997** Launched Policy Deployment as a tool to manage major operations.	**1998** Obtained QS -9000 for Timing Chain Division. Obtained Golden Peacock National Quality Award from Institute of Directors.	**1999** Entered into a technology collaboration with Tsubaki, Japan Obtained CII-EXIM commendation for strong commitment to Quality
1980 Developed Motorcycle chain in-house for Japanese two-wheelers.	**1985** Developed Engineering Class chains.	**1991** Entered into Exports Market. Launched company-wide TQM program.	**1995** 100% export Oriented Unit set up for agriculture chain. Relocated timing chain facility as a separate division.
1960 TIDC Established for manufacture of bicycle chains.	**1961** Technical Collaboration with Diamond Chain Company, USA	**1969** Diversified into Industrial Chains.	**1975** Diversified into Heavy-duty chains & oil field chains.

We rely on extensive R&D exercises, to provide the insights that keep our products in step with the market.

We believe in a collaborative approach to new product development, to provide value and reduce delivery time.

We depend on the latest in design software and chain manufacturing technology.

We count on over 2,75,000 sq.ft. of factory space, to roll out our products in sufficient numbers and in keeping with stringent quality control.

We trust in a widespread sales network, to reach these products to clients all over India.

And that's why, our clients rely on us.

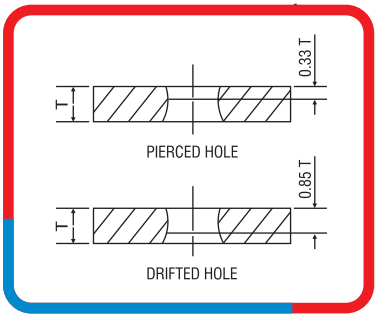
TIDC Edge

Design & Engineering

The Engineering success of TIDC has always been a combination of the latest technology deployed and continuous innovations in existing products.

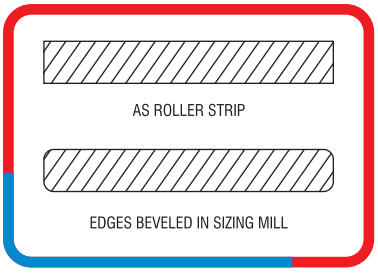
Greater Fatigue and Tensile Strength

The plates in each and every TIDC chain undergo piercing operation to extremely accurate specifications. Followed by Shaving or Drifting to increase bearing area, guaranteeing greater dynamic strength and fatigue life.



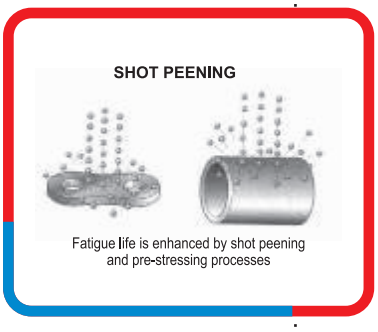
Longer Wear Life

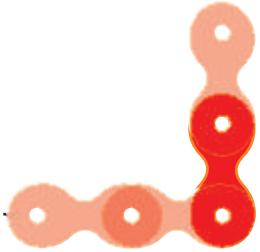
Roundness of the bushes and heat treatment of pins and bushes also impact wear life. At TIDC bushes are manufactured on a multislide auto forming machine which produces them to uniform roundness. Edge beveling and meticulous sizing is also carried out for the bushes. A special purpose machine ensures perfect cropping of pins. All components are treated in a controlled atmosphere for outstanding endurance.

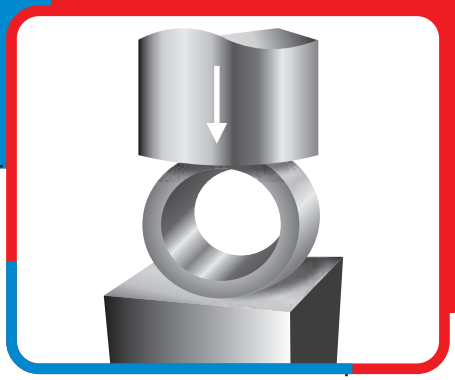


Maximum Working Load Capability

Critical applications call for chains with a high working load capability, and for this plates, bushes and rollers are shot peened - constantly bombarded with hard metal pellets at high speeds.







Maximum Impact & Crushing Strength

High impact resistance of rollers is achieved by use of solid rollers which are cold extruded from wires. This enables the production of strong rollers with uniform wall thickness and excellent finish.

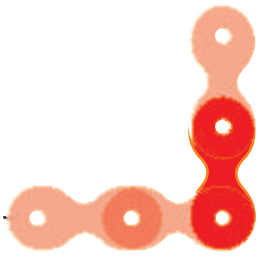
Assembly & Testing

Prelubrication is followed by precision assembly and proof loading. Rigorous testing is done under various loads and speeds to evaluate their performance and to compare them against Indian and international standards.

Quality & Performance

Strict and complete adherence to constant quality and regular technology upgradation have ensure TIDC chains exceed all laid down parameters:

- Consistency in length control
- Higher than standard breaking loads
- Higher than standard fatigue limits



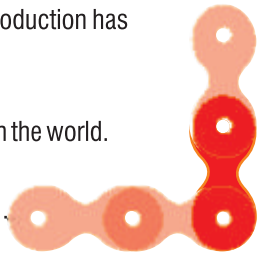
From TIDC INDIA

The complete chain company

Diamond chains are designed and manufactured by TIDC India, a part of the US $ 2 billion Murugappa Group, one of the most trusted and respected business Groups in India. A Group that is renowned for its belief in ethical business practices, innovative processes and people development.

TIDC India was started in 1960, to manufacture bicycle chains and the following decades were witness to our unprecedented growth and expansion. Step by step, we've included over 1000 varieties of chains in our range. From tiller chains, leaf chains and conveyor chains to industrial power drive chains, motorcycle drive chains and engine mechanism chains, our production has grown to a gigantic 15 million metres annually.

And today, we possess the capability to meet any requirement in chains, anywhere in the world.



Success can be spelt with two letters. R & D

At TIDC, we owe our success to listening. Paying attention to our customers, and innovating with products that suit their needs better. Every choice with regard to size, material or method is in direct response to the needs of application engineers in the industries we serve.

TIDC engineers use Auto CAD, Solid works and Finite Element Analysis for cutting edge solutions in the design of the chains, and the manufacturing technology process is plotted out with equal care. The resulting products are comprehensively tested at our test labs, before they eventually find their way to a Diamond customer.

In collaboration with all our clients

A unique and rewarding system we follow at TIDC is what we call Collaborative Processes. Whereby our clients are actively involved in the making of custom built products. Today, 35% of our product sales are from customisations for special applications, and collaborative processes are the basis for our proven track record and quick deliveries achieved in this area.

A manufacturer with rare strengths

Over the years we have developed and fine tuned immense competencies in cold working of metals, metal joining processes, metal treatment processes and development of tools, jigs and fixtures to support manufacturing technology.

Our chains get the best treatment

Our team has rich experience in heat treatment to maximise strength and life in every chain element: pins, bushing, rollers and link plates.

We deploy our specialist skills in continuous hardening operations for martensitic heat treatment. Under a completely automated atmosphere we work with high, medium and low carbon steels, alloy steels, austenitic and martensitic stainless steels etc. Some of the other treatments we offer based on customer specifications are:-

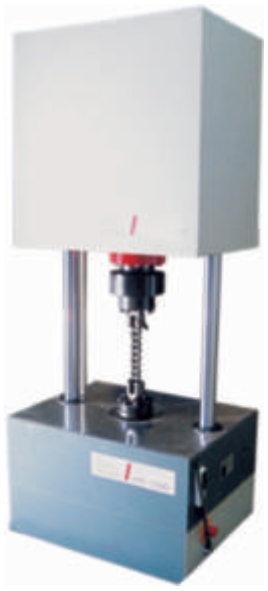
- Chain colouration - Ash, Straw, Blue, Blue Black, Brown etc. for aesthetic appeal, achieved through controlled atmosphere.
- Plates, rollers are shot peened after heat treatment thereby enhancing fatigue life. Based on application requirements we offer chromised pins that increase wear-life manifold.

Quality, the TIES that bind everything

Total Quality Management is a governing principle at TIDC India and we have our own quality system in place called 'TIES' (T. I. Excellence System) encompassing all aspects of functioning. Beginning with the design phase, purchase and inspection of raw materials, vendor management, work instructions and going on to cover all processes in manufacturing, packing and inspections before delivery.

TIES also provides for stringent procedures when it comes to traceability of products and reviews of customer feedback.

The TIES system functions by nurturing quality as an integral part in the entire value chain, and is now completely internalised by the company.



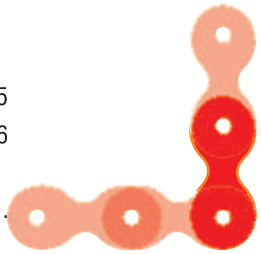
The best certifications are those that come from our clients

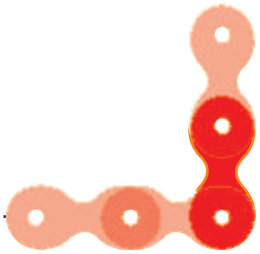
We are one of the world's few companies to be certified for **API 7F** specifications by the American Petroleum Institute for oil field chains.

Our manufacturing processes right from product design to testing of finished chains conform to **ISO 9000:2000** standards and are certified by RWTUV of Germany. Our Motorcycle Engine Mechanism Chain and Fine Blanking Divisions are certified to **TS 16949** standards by Underwriters Laboratories, USA.

But what gives us the most pride is, the approval and repeat orders that come to us from our clients all over India & across the world.

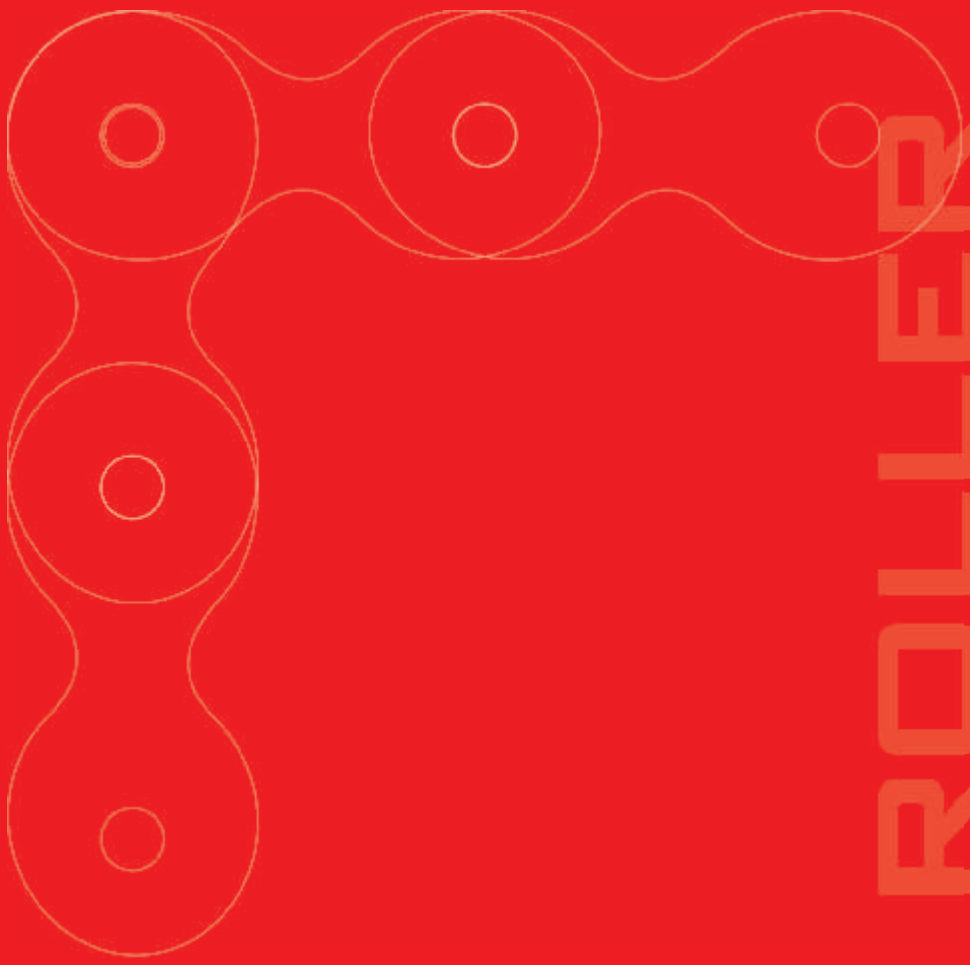
CONTENTS





DIAMOND®
INDIA RELIABILITY

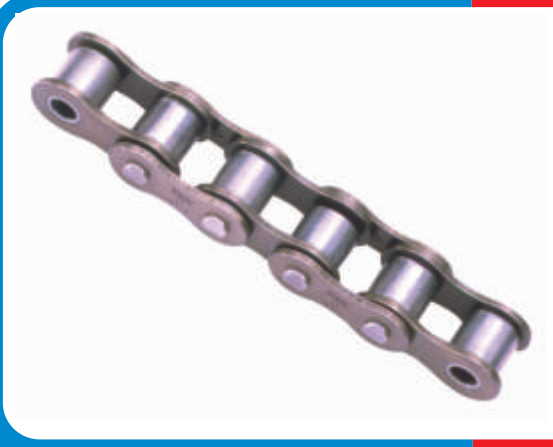
STANDARD ROLLER CHAINS



STANDARD ROLLER CHAINS

STANDARD ROLLER CHAINS

EUROPEAN SERIES



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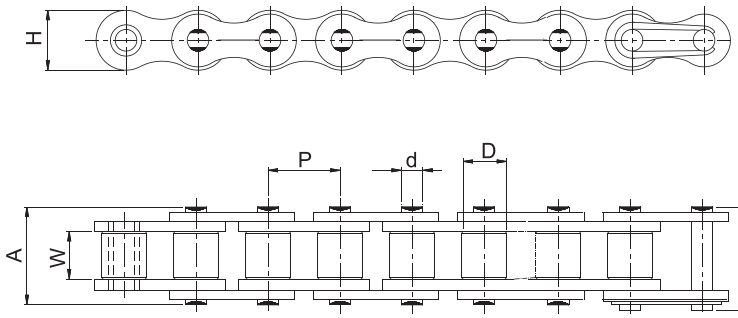


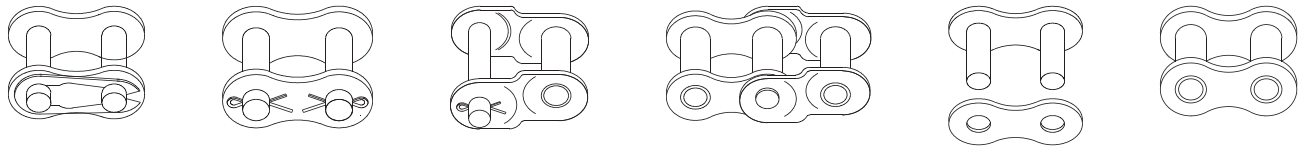
The European series of roller chains are designed for use in mechanical power transmission systems.

SINGLE STRAND

Intl. Ref. No.	DIAMOND Chain No	Pitch (P)	Width between Inner Plates (W) (Min)	Roller Dia (D) (Max)	Bearing Pin Dia (d) (Max)	Plate Height (H) (Max)	Width Over Bearing Pin (A) (Max)	Width Over Joint Fasteners (B) (Max)	Projected Bearing Area Sq.cm	Avg. Weight Per Metre (Kg)	Tensile Strength (Kgf) (Min)	Spares Availa-bility
04B-1	D04B 01	6.00	2.80	4.00	1.85	5.00	7.40	10.30	0.08	0.12	300	A,B,C,D
05B-1	D05B 01	8.00	3.00	5.00	2.31	7.10	8.60	11.70	0.11	0.18	510	A,B,C,D
06B-1*	D061 01	9.525	5.72	6.35	3.28	8.20	13.50	16.80	0.28	0.40	920	A,B,C,D
08B-1	D083 01	12.70	7.75	8.51	4.45	11.80	17.00	20.90	0.50	0.68	1840	A,B,C,D
10B-1	D101 01	15.875	9.65	10.16	5.08	14.70	19.60	23.70	0.67	0.91	2290	A,B,C,D
12B-1	D120 01	19.05	11.68	12.07	5.72	16.10	22.70	27.30	0.88	1.12	2960	A,B,C,D
16B-1	D160 01	25.40	17.02	15.88	8.27	21.00	36.10	41.50	2.07	2.59	6120	A,B,C,D
20B-1	D200 01	31.75	19.56	19.05	10.19	26.40	43.20	49.30	2.91	3.60	9690	A,B,C,D
24B-1	D240 01	38.10	25.40	25.40	14.63	33.40	53.40	60.00	5.49	6.85	16310	B,C,D
28B-1	D280 01	44.45	30.99	27.94	15.90	37.00	65.10	72.50	7.26	8.56	20390	B,C,D
32B-1	D320 01	50.80	30.99	29.21	17.81	42.20	67.40	75.30	8.05	9.49	25500	B,C,D
40B-1	D400 01	63.50	38.10	39.37	22.89	52.90	82.60	92.60	12.61	15.53	36200	B,C,D
48B-1	D480 01	76.20	45.72	48.26	29.24	63.80	99.10	109.10	20.40	24.45	57100	B,C,D

* Straight Side Plates

A B C D E F

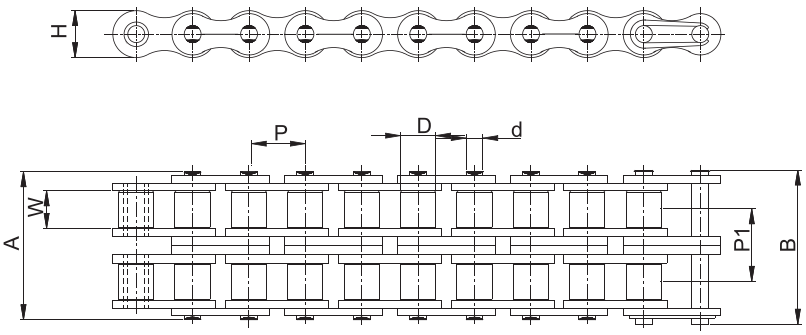


Note : Spares E & F are available for all models

STANDARD ROLLER CHAINS

EUROPEAN SERIES

ISO 606/BS 228/DIN 8187



DOUBLE STRAND

Intl. Ref. No.	DIAMOND Chain No.	Pitch (P)	Width between Inner Plates (W) (Min)	Roller Dia (D) (Max)	Bearing Pin Dia (d) (Max)	Plate Height (H) (Max)	Width Over Bearing Pin (A) (Max)	Width Over Joint Fasteners (B) (Max)	Transv-erse Pitch (P1)	Projected Bearing Area Sq.cm	Avg. Weight Per Metre (Kg)	Tensile Strength (Kgf) (Min)	Spares Availa-bility
05B-2	D05B 02	8.00	3.00	5.00	2.31	7.10	14.30	17.40	5.64	0.22	0.32	795	A,B,C,D
06B-2*	D061 02	9.525	5.72	6.35	3.28	8.20	23.80	27.10	10.24	0.56	0.76	1725	A,B,C,D
08B-2	D083 02	12.70	7.75	8.51	4.45	11.80	31.00	34.90	13.92	1.00	1.31	3270	A,B,C,D
10B-2	D101 02	15.875	9.65	10.16	5.08	14.70	36.20	40.30	16.59	1.34	1.79	4540	A,B,C,D
12B-2	D120 02	19.05	11.68	12.07	5.72	16.10	42.20	46.80	19.46	1.76	2.22	5900	A,B,C,D
16B-2	D160 02	25.40	17.02	15.88	8.27	21.00	68.00	73.40	31.88	4.14	5.03	11600	A,B,C,D
20B-2	D200 02	31.75	19.56	19.05	10.19	26.40	79.00	85.10	36.45	5.82	7.33	17330	A,B,C,D
24B-2	D240 02	38.10	25.40	25.40	14.63	33.40	101.00	107.60	48.36	10.98	13.50	28550	B,C,D
28B-2	D280 02	44.45	30.99	27.94	15.90	37.00	124.00	131.40	59.56	14.52	16.96	36700	B,C,D
32B-2	D320 02	50.80	30.99	29.21	17.81	42.20	126.00	133.90	58.55	16.10	18.74	45880	B,C,D
40B-2	D400 02	63.50	38.10	39.37	22.89	52.90	154.00	164.00	72.29	25.23	30.72	64240	B,C,D
48B-2	D480 02	76.20	45.72	48.26	29.24	63.80	190.00	200.00	91.21	40.81	48.54	101960	B,C,D

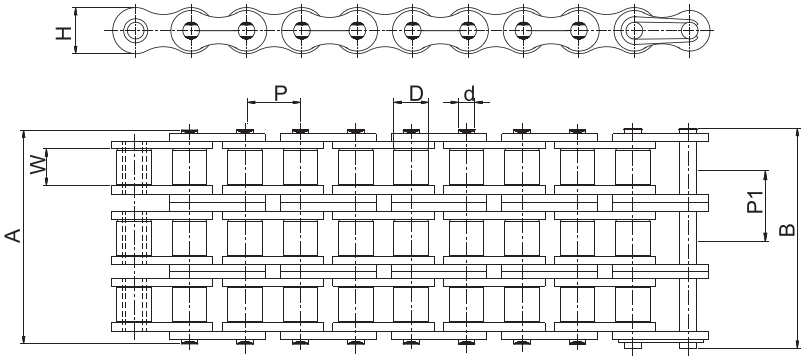
* Straight Side Plates

Note : Spares E & F are available for all models

STANDARD ROLLER CHAINS

EUROPEAN SERIES

ISO 606/BS 228/DIN 8187



TRIPLE STRAND

Intl. Ref. No.	DIAMOND Chain No.	Pitch (P)	Width between Inner Plates (W) (Min)	Roller Dia (D) (Max)	Bearing Pin Dia (d) (Max)	Plate Height (H) (Max)	Width Over Bearing Pin (A) (Max)	Width Over Joint Fasteners (B) (Max)	Transv-erse Pitch (P1)	Projected Bearing Area Sq.cm	Avg. Weight Per Metre (Kg)	Tensile Strength (Kgf) (Min)	Spares Availa-bility
05B-3	D05B 03	8.00	3.00	5.00	2.31	7.10	19.90	23.00	5.64	0.33	0.50	1130	A,B,C,D
06B-3*	D061 03	9.525	5.72	6.35	3.28	8.20	34.00	37.30	10.24	0.84	1.12	2540	A,B,C,D
08B-3	D083 03	12.70	7.75	8.51	4.45	11.80	44.90	48.80	13.92	1.50	1.94	4850	A,B,C,D
10B-3	D101 03	15.875	9.65	10.16	5.08	14.70	52.80	56.90	16.59	2.01	2.68	6810	A,B,C,D
12B-3	D120 03	19.05	11.68	12.07	5.72	16.10	61.70	66.30	19.46	2.64	3.32	8850	A,B,C,D
16B-3	D160 03	25.40	17.02	15.88	8.27	21.00	99.90	105.30	31.88	6.21	7.65	17400	A,B,C,D
20B-3	D200 03	31.75	19.56	19.05	10.19	26.40	116.00	122.10	36.45	8.73	10.96	25490	A,B,C,D
24B-3	D240 03	38.10	25.40	25.40	14.63	33.40	150.00	156.60	48.36	16.47	20.20	43330	B,C,D
28B-3	D280 03	44.45	30.99	27.94	15.90	37.00	184.00	191.40	59.56	21.78	25.38	54040	B,C,D
32B-3	D320 03	50.80	30.99	29.21	17.81	42.20	184.00	191.90	58.55	24.15	28.04	68320	B,C,D
40B-3	D400 03	63.50	38.10	39.37	22.89	52.90	227.00	237.00	72.29	37.85	45.97	96860	B,C,D
48B-3	D480 03	76.20	45.72	48.26	29.24	63.80	281.00	291.00	91.21	61.22	72.67	152940	B,C,D

* Straight Side Plates

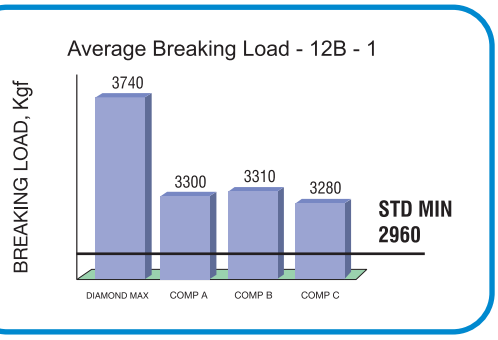
Note : Spares E & F are available for all models

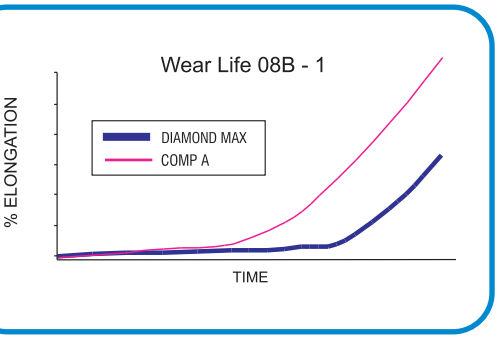
DIAMOND MAX
CHAINS WITH MORE LIFE

The Diamond Max Series

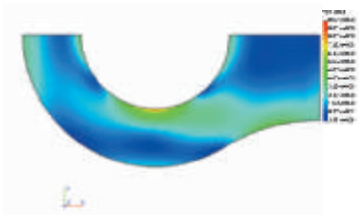
This special series of hi-life, special characteristic chains has been created for rugged applications, where the standard chains have always fallen short. They feature unique properties such as high breaking load, increased fatigue strength & wear life, close length tolerance and more.

Diamond Max Roller Chains have been specifically developed with exceptional strength and endurance. They get their extra endurance from the inspiration in the detail of the plates, pins, bushes and rollers, manufacture to close tolerance, and assembly with care.

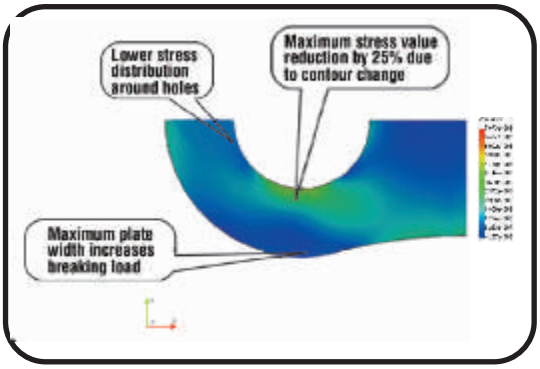




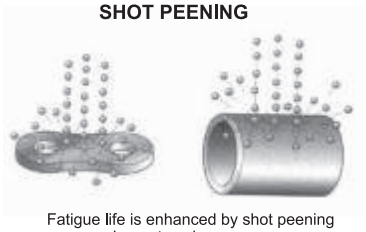
DIAMOND® MAX
CHAINS WITH MORE LIFE



REGULAR CONTOUR



NEW CONTOUR



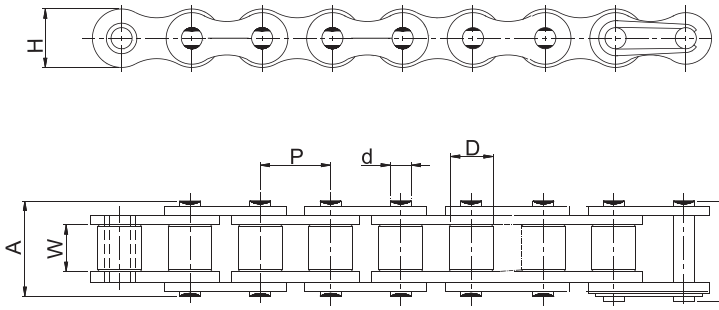
Fatigue life is enhanced by shot peening and pre-stressing processes

SHOT PEENED PLATES

HIGH PERFORMANCE CHAINS

STANDARD ROLLER CHAINS

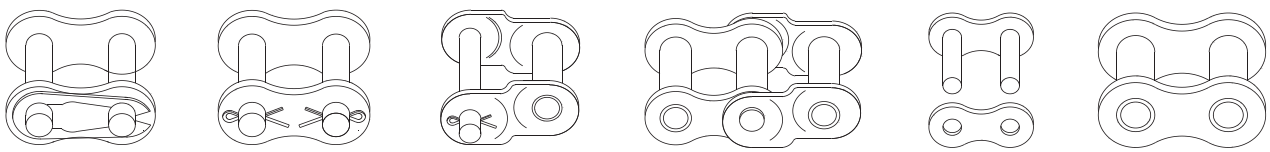
DIAMOND MAX EUROPEAN SERIES



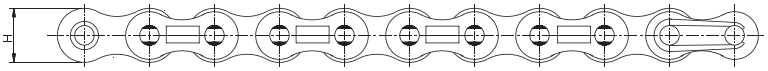
SINGLE STRAND

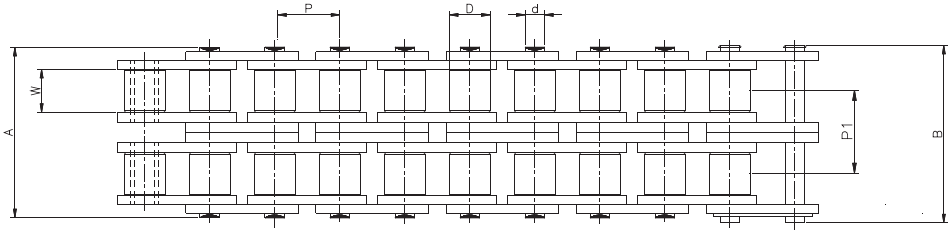
Intl. Ref. No.	DIAMOND MAX Chain No.	Pitch (P)	Width between Inner Plates (W) (Min)	Roller Dia D (Max)	Plate Height H (Max)	Bearing Pin Dia (d) (Max)	Width Over Bearing Pin (A) (Max)	Width Over Joint Fasteners (B) (Max)	Projected Bearing Area Sq.cm	Avg. Weight Per Metre (Kg)	Diamond Max Tensile Strength (Kgf) (Min)	Spares Availability
08B-1	Q083 01	12.70	7.75	8.51	11.81	4.45	17.00	20.90	0.50	0.74	2100	A,B,C,D
10B-1	Q101 01	15.875	9.65	10.16	14.73	5.08	19.60	23.70	0.67	0.98	2800	A,B,C,D
12B-1	Q120 01	19.05	11.68	12.07	16.13	5.72	22.70	27.30	0.88	1.20	3400	A,B,C,D
16B-1	Q160 01	25.40	17.02	15.88	21.08	8.27	36.10	41.50	2.07	2.87	7500	A,B,C,D
20B-1	Q200 01	31.75	19.56	19.05	26.42	10.19	43.20	49.30	2.91	3.85	11300	A,B,C,D

A B C D E F



Note : Spares E & F are available for all models





DOUBLE STRAND

Intl. Ref. No.	DIAMOND MAX Chain No.	Pitch (P)	Width between Inner Plates (W) (Min)	Roller Dia (D) (Max)	Plate Height (H) (Max)	Bearing Pin Dia (d) (Max)	Width Over Bearing Pin (A) (Max)	Width Over Joint Fasteners (B) (Max)	Transverse Pitch (P1)	Avg. Weight Per Metre (Kg)	Diamond Max Tensile Strength (Kgf) (Min)	Spares Avail-ability
08B-2	Q083 02	12.70	7.75	8.51	11.81	4.45	31.00	34.90	13.92	1.43	3750	A,B,C,D
10B-2	Q101 02	15.875	9.65	10.16	14.73	5.08	36.20	40.30	16.59	1.93	5600	A,B,C,D
12B-2	Q120 02	19.05	11.68	12.07	16.13	5.72	42.20	46.80	19.46	2.38	6800	A,B,C,D
16B-2	Q160 02	25.40	17.02	15.88	21.08	8.27	68.00	73.40	31.88	5.57	15000	A,B,C,D
20B-2	Q200 02	31.75	19.56	19.05	26.42	10.19	79.70	85.80	36.45	7.84	22600	A,B,C,D

TRIPLE STRAND

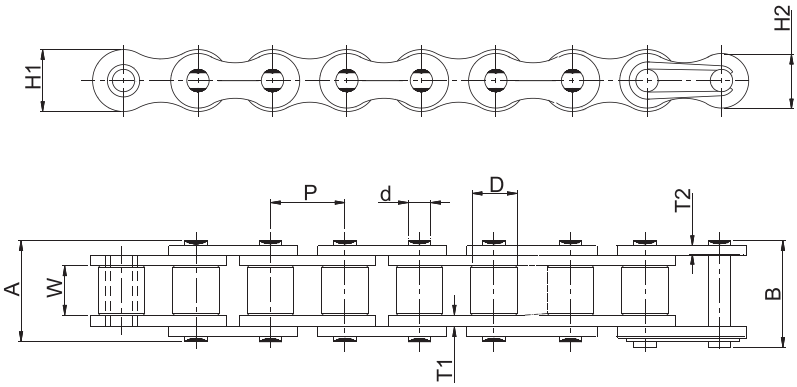
Intl. Ref. No.	DIAMOND MAX Chain No.	Pitch (P)	Width between Inner Plates (W) (Min)	Roller Dia (D) (Max)	Plate Height (H) (Max)	Bearing Pin Dia (d) (Max)	Width Over Bearing Pin (A) (Max)	Width Over Joint Fasteners (B) (Max)	Transverse Pitch (P1)	Avg. Weight Per Metre (Kg)	Diamond Max Tensile Strength (Kgf) (Min)	Spares Avail-ability
08B-3	Q 083 03	12.70	7.75	8.51	11.81	4.45	44.90	48.80	13.92	2.11	5590	A,B,C,D
10B-3	Q101 03	15.875	9.65	10.16	14.73	5.08	52.80	56.90	16.59	2.89	8400	A,B,C,D
12B-3	Q120 03	19.05	11.68	12.07	16.13	5.72	61.70	66.30	19.46	3.56	10200	A,B,C,D
16B-3	Q160 03	25.40	17.02	15.88	21.08	8.27	99.90	105.30	31.88	8.48	22500	A,B,C,D
20B-3	Q200 03	31.75	19.56	19.05	26.42	10.19	116.10	122.10	36.45	11.72	33900	A,B,C,D

Note : Spares E & F are available for all models

STANDARD ROLLER CHAINS

ISO 606/ANSI B 29.1/DIN 8188

AMERICAN SERIES



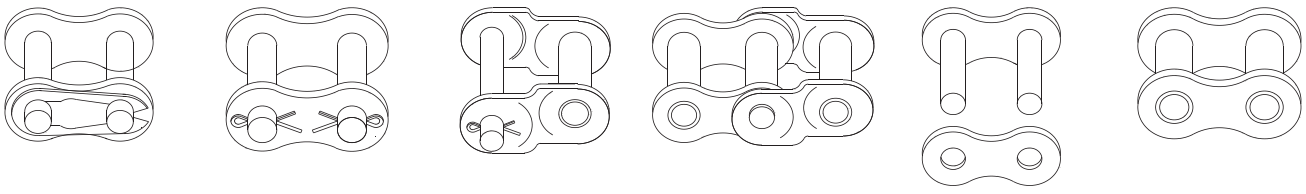
The American series of roller chains are designed for use in mechanical power transmission systems.

SINGLE STRAND

Intl. Ref. No.	DIAMOND Chain No.	Pitch (P)	Width between Inner Plates (W) (Min)	Roller Dia (D) (Max)	Bearing Pin Dia (d) (Max)	Plate Height		Plate Thickness		Width Over Bearing Pin (A) (Max)	Width Over Joint Fasteners (B) (Max)	Projected Bearing Area Sq.cm	Avg. Weight Per Metre (Kg)	Tensile Strength (Kgf) (Min)	Spares Availability
						IP (H1) (Max)	OP (H2) (Max)	IP (T1)	OP (T2)						
25-1	B 04A 01	6.35	3.18	3.30*	2.31	5.80	5.25	0.75	0.75	7.80	9.60	0.11	0.13	360	A,B,C,D
35-1	B 06A 01	9.525	4.68	5.08*	3.59	8.65	7.48	1.25	1.25	12.18	13.18	0.27	0.34	800	A,B,C,D
40-1	D 08A 01	12.70	7.85	7.92	3.96	12.00	10.40	1.50	1.50	17.80	21.70	0.44	0.63	1440	A,B,C,D
41-1	D 08D 01	12.70	6.25	7.77	3.60	9.55	8.26	1.25	1.25	14.80	18.70	0.33	0.43	680	A,B,C,D
50-1	D 102 01	15.875	9.40	10.16	5.08	15.00	13.00	2.00	2.00	21.80	25.90	0.71	1.04	2270	A,B,C,D
60-1	D 121 01	19.05	12.58	11.91	5.94	18.00	16.60	2.39	2.39	26.90	31.50	1.04	1.52	3240	A,B,C,D
80-1	D 161 01	25.40	15.75	15.88	7.92	24.10	20.80	3.15	3.15	33.50	38.90	1.77	2.58	5780	A,B,C,D
100-1	D 201 01	31.75	18.90	19.05	9.53	30.10	26.00	4.00	4.00	41.10	47.20	2.59	3.85	9030	A,B,C,D
120-1	D 241 01	38.10	25.22	22.23	11.10	36.20	31.20	4.70	4.70	50.80	57.40	3.90	5.61	12950	B,C,D
140-1	D 281 01	44.45	25.22	25.40	12.70	42.20	36.40	5.56	5.56	54.90	62.30	4.67	7.24	17580	B,C,D
160-1	D 321 01	50.80	31.55	28.57	14.27	48.20	41.60	6.30	6.30	65.50	73.40	6.38	9.91	23120	B,C,D
180-1	D 361 01	57.15	35.48	35.71	17.46	54.31	46.86	7.14	7.14	73.90	83.00	9.38	13.23.	28500	B,C,D
200-1	D 401 01	63.50	37.85	39.68	19.84	60.30	52.00	7.90	7.90	80.30	90.30	10.75	16.26	36070	B,C,D
240-1	D 481 01	76.20	47.35	47.63	23.80	72.30	62.40	8.80	8.80	95.50	105.50	15.90	23.63	53050	B,C,D

* Bush Chain

A B C D E F



Note : Spares E & F are available for all models

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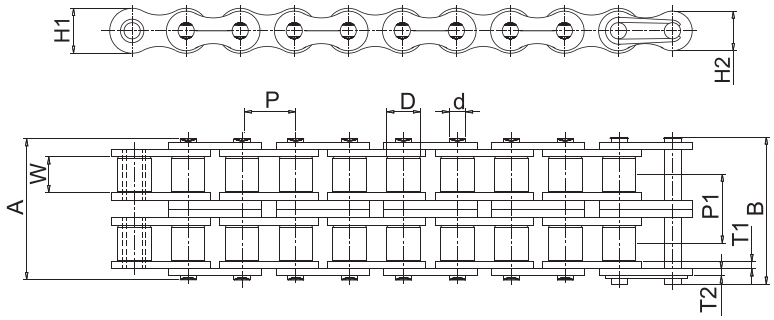
AMERICAN SERIES

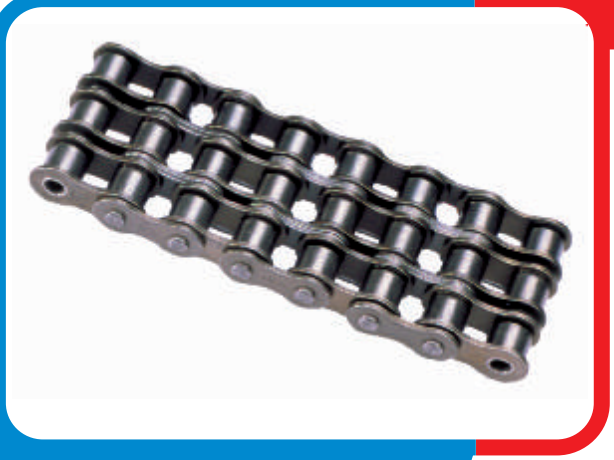


DOUBLE STRAND

Intl. Ref. No.	DIAMOND Chain No.	Pitch (P)	Width between Inner Plates (W) (Min)	Roller Dia (D) (Max)	Bea-ring Pin Dia (d) (Max)	Plate Height		Plate Thickness		Width Over Bearing Pin (A) (Max)	Width Over Joint Fasteners (B) (Max)	Trans verse Pitch (P1)	Proje -cted Bearing Area Sq.cm	Avg. Weight Per Metre (Kg)	Tensile Stre-ngth (Kgf) (Min)	Spares Availa-bility
						IP (H1) (Max)	OP (H2) (Max)	IP (T1)	OP (T2)							
35-2	B 06A 02	9.525	4.68	5.08*	3.59	8.65	7.48	1.25	1.25	24.20	27.40	10.13	0.53	0.67	1600	A,B,C,D
40-2	D 08A 02	12.70	7.85	7.92	3.96	12.00	10.40	1.50	1.50	32.30	36.20	14.38	0.88	1.26	2880	A,B,C,D
50-2	D 102 02	15.875	9.40	10.16	5.08	15.00	13.00	2.00	2.00	39.90	44.00	18.11	1.42	2.05	4540	A,B,C,D
60-2	D 121 02	19.05	12.58	11.91	5.94	18.00	16.60	2.39	2.39	49.80	54.40	22.78	2.08	3.01	6480	A,B,C,D
80-2	D 161 02	25.40	15.75	15.88	7.92	24.10	20.80	3.15	3.15	62.70	68.10	29.29	3.54	5.13	11560	A,B,C,D
100-2	D 201 02	31.75	18.90	19.05	9.53	30.10	26.00	4.00	4.00	77.00	83.10	35.76	5.18	7.64	18060	A,B,C,D
120-2	D 241 02	38.10	25.22	22.23	11.10	36.20	31.20	4.70	4.70	96.30	102.90	45.44	7.80	11.13	25900	B,C,D
140-2	D 281 02	44.45	25.22	25.40	12.70	42.20	36.40	5.56	5.56	103.00	110.40	48.87	9.35	14.37	35160	B,C,D
160-2	D 321 02	50.80	31.55	28.57	14.27	48.20	41.60	6.30	6.30	124.00	131.90	58.55	12.77	19.68	46240	B,C,D
180-2	D 361 02	57.15	35.48	35.71	17.46	54.31	46.86	7.14	7.14	140.00	149.90	65.84	18.76	26.46	57100	B,C,D
200-2	D 401 02	63.50	37.85	39.68	19.84	60.30	52.00	7.90	7.90	151.00	161.00	71.55	21.50	32.83	72140	B,C,D
240-2	D 481 02	76.20	47.35	47.63	23.80	72.30	62.40	8.80	8.80	183.00	193.00	87.83	31.80	46.72	106100	B,C,D

* Bush Chain

Note : Spares E & F are available for all models



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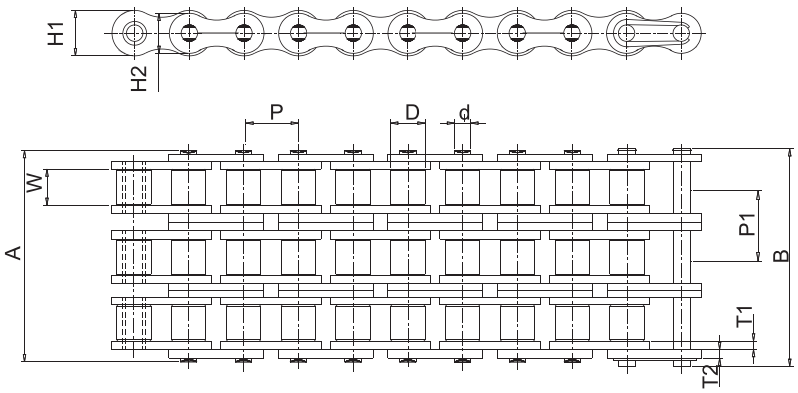
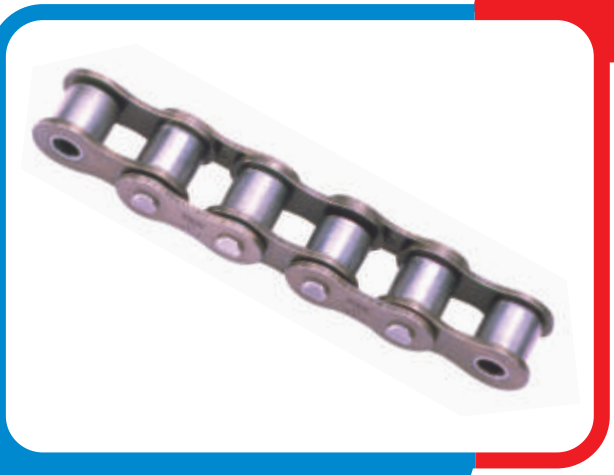


TRIPLE STRAND

Intl. Ref No.	DIAMOND Chain No.	Pitch (P)	Width between Inner Plates (W) (Min)	Roller Dia (D) (Max)	Bea-ring Pin Dia (d) (Max)	Plate Height		Plate Thickness		Width Over Bearing Pin (A) (Max)	Width Over Joint Fasteners (B) (Max)	Trans verse Pitch (P1)	Proje -cted Bearing Area Sq.cm	Avg. Weight Per Metre (Kg)	Tensile Stre-ngth (Kgf) (Min)	Spares Availa-bility
						IP (H1) (Max)	OP (H2) (Max)	IP (T1)	OP (T2)							
35-3	B 06A 03	9.525	4.68	5.08*	3.59	8.65	7.48	1.25	1.25	34.30	37.50	10.13	0.80	0.99	2400	A,B,C,D
40-3	D 08A 03	12.70	7.85	7.92	3.96	12.00	10.40	1.50	1.50	46.70	50.60	14.38	1.32	1.98	4320	A,B,C,D
50-3	D 102 03	15.875	9.40	10.16	5.08	15.00	13.00	2.00	2.00	57.90	62.00	18.11	2.13	3.06	6810	A,B,C,D
60-3	D 121 03	19.05	12.58	11.91	5.94	18.00	16.60	2.39	2.39	72.60	77.20	22.78	3.12	4.50	9720	A,B,C,D
80-3	D 161 03	25.40	15.75	15.88	7.92	24.10	20.80	3.15	3.15	91.70	97.10	29.29	5.31	7.67	17340	A,B,C,D
100-3	D 201 03	31.75	18.90	19.05	9.53	30.10	26.00	4.00	4.00	113.00	119.10	35.76	7.77	11.43	27090	A,B,C,D
120-3	D 241 03	38.10	25.22	22.23	11.10	36.20	31.20	4.70	4.70	141.03	147.60	45.44	11.70	16.67	38850	B,C,D
140-3	D 281 03	44.45	25.22	25.40	12.70	42.20	36.40	5.56	5.56	152.00	159.40	48.87	14.03	21.51	52740	B,C,D
160-3	D 321 03	50.80	31.55	28.57	14.27	48.20	41.60	6.30	6.30	182.00	189.90	58.55	19.16	29.45	69360	B,C,D
180-3	D 361 03	57.15	35.48	35.71	17.46	54.31	46.86	7.14	7.14	206.00	215.10	65.84	28.14	39.66	85700	B,C,D
200-3	D 401 03	63.50	37.85	39.68	19.84	60.30	52.00	7.90	7.90	223.00	233.00	71.55	32.26	48.28	108210	B,C,D
240-3	D 481 03	76.20	47.35	47.63	23.80	72.30	62.40	8.80	8.80	271.00	281.00	87.83	47.71	69.77	159150	B,C,D

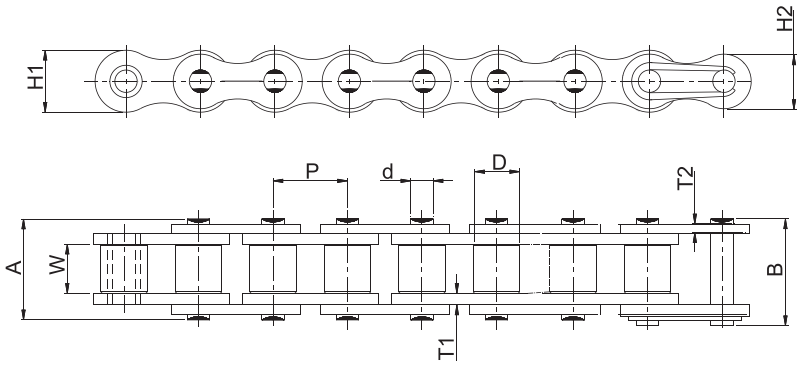
* Bush Chain

Note : Spares E & F are available for all models



ANSI B 29.1

AMERICAN HEAVY SERIES

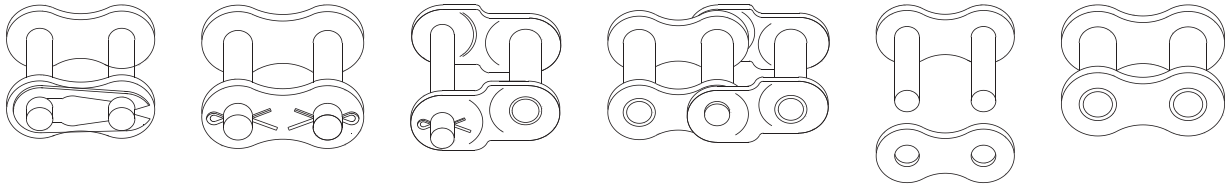


The American Heavy series roller chains are designed using link plates from the next higher size. The thicker link plates provide increased fatigue resistance and are used in drives subjected to heavy shock loads, multiple stops or reversing.

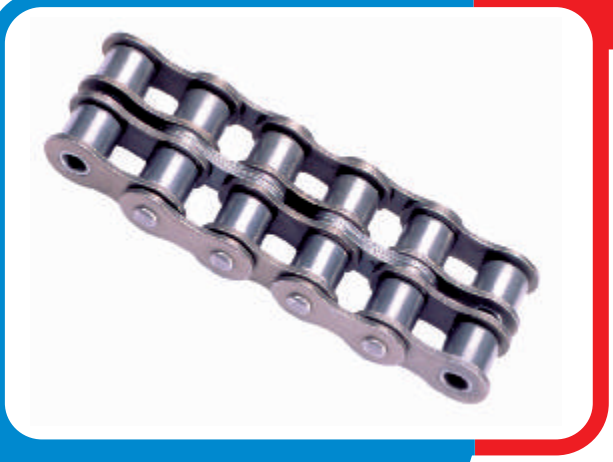
SINGLE STRAND

Intl. Ref. No.	DIAMOND Chain No.	Pitch (P)	Width between Inner Plates (W) (Min)	Roller Dia (D) (Max)	Bearing Pin Dia (d) (Max)	Plate Height		Plate Thickness		Width Over Bearing Pin (A) (Max)	Width Over Joint Fasteners (B) (Max)	Projected Bearing Area Sq.cm	Avg. Weight Per Metre (Kg)	Tensile Strength (Kgf) (Min)	Spares Availability
						IP (H1) (Max)	OP (H2) (Max)	IP (T1)	OP (T2)						
60H-1	D122 01	19.05	12.58	11.91	5.94	18.00	14.88	3.15	3.15	31.20	35.80	1.14	1.81	3240	A,B,C,D
80H-1	D162 01	25.40	15.75	15.88	7.94	24.10	20.80	4.00	4.00	38.00	43.40	1.89	3.00	5780	A,B,C,D
100H-1	D202 01	31.75	18.90	19.05	9.54	30.10	26.00	4.70	4.70	45.40	51.50	2.75	4.38	9030	B,C,D
120H-1	D242 01	38.10	25.22	22.23	11.11	36.20	31.20	5.56	5.56	55.10	61.70	4.10	6.61	12950	B,C,D
140H-1	D282 01	44.45	25.22	25.40	12.71	42.20	36.40	6.30	6.30	60.40	67.80	5.20	8.33	17580	B,C,D
160H-1	D322 01	50.80	31.55	28.57	14.29	48.20	41.60	7.14	7.14	70.00	77.90	7.10	10.88	23120	B,C,D
200H-1	D402 01	63.50	37.85	39.67	19.85	60.30	52.00	8.80	8.80	93.10	103.30	12.17	20.65	36070	B,C,D

A B C D E F

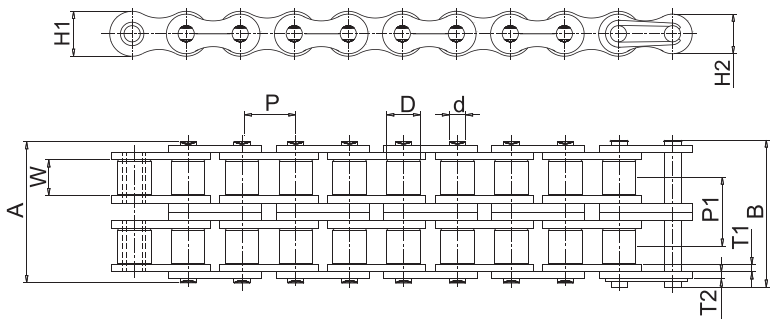


Note : Spares E & F are available for all models



ANSI B 29.1

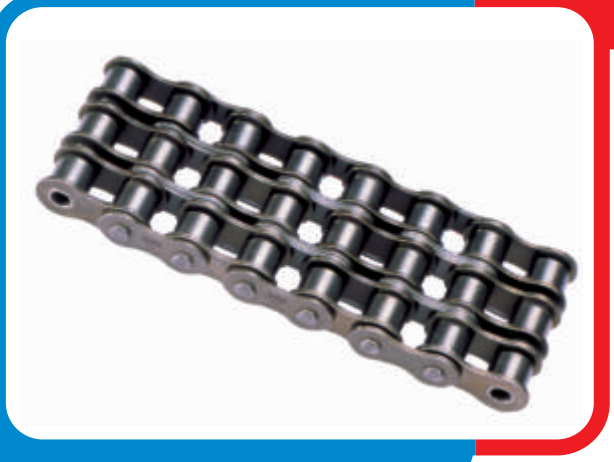
AMERICAN HEAVY SERIES



DOUBLE STRAND

Intl. Ref. No.	DIAMOND Chain No.	Pitch (P)	Width between Inner Plates (W) (Min)	Roller Dia (D) (Max)	Bea-ring Pin Dia (d) (Max)	Plate Height		Plate Thickness		Width Over Bearing Pin (A) (Max)	Width Over Joint Fasteners (B) (Max)	Trans verse Pitch (P1)	Proje -cted Bearing Area Sq.cm	Avg. Weight Per Metre (Kg)	Tensile Stre-ngth (Kgf) (Min)	Spares Availa-bility
						IP (H1) (Max)	OP (H2) (Max)	IP (T1)	OP (T2)							
60H-2	D122 02	19.05	12.58	11.91	5.94	18.00	14.88	3.15	3.15	56.10	60.70	26.11	2.27	3.71	6480	A,B,C,D
80H-2	D 162 02	25.40	15.75	15.88	7.94	24.10	20.80	4.00	4.00	70.50	75.90	32.59	3.79	5.93	11560	A,B,C,D
100H-2	D 202 02	31.75	18.90	19.05	9.54	30.10	26.00	4.70	4.70	84.00	90.10	39.09	5.50	8.67	18060	B,C,D
120H-2	D 242 02	38.10	25.22	22.23	11.11	36.20	31.20	5.56	5.56	103.80	110.40	48.87	8.20	13.13	25900	B,C,D
140H-2	D 282 02	44.45	25.22	25.40	12.71	42.20	36.40	6.30	6.30	112.20	119.60	52.20	10.40	16.52	35160	B,C,D
160H-2	D 322 02	50.80	31.55	28.57	14.29	48.20	41.60	7.14	7.14	132.00	139.90	61.90	14.20	21.32	46240	B,C,D
200H-2	D 402 02	63.50	37.85	39.67	19.85	60.30	52.00	8.80	8.80	170.60	180.80	78.31	24.34	39.26	72140	B,C,D

Note : Spares E & F are available for all models



ANSI B 29.1

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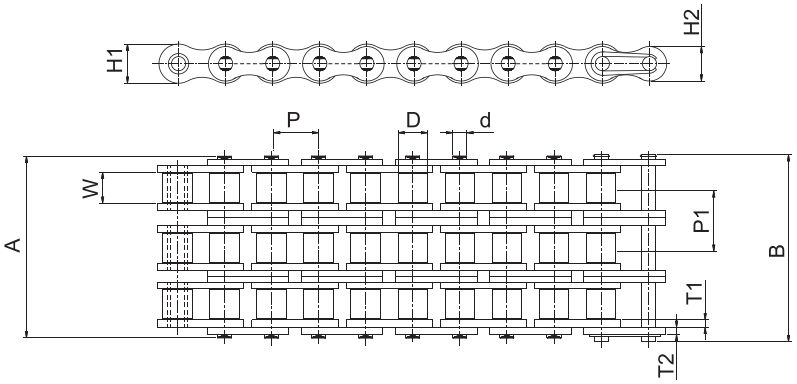
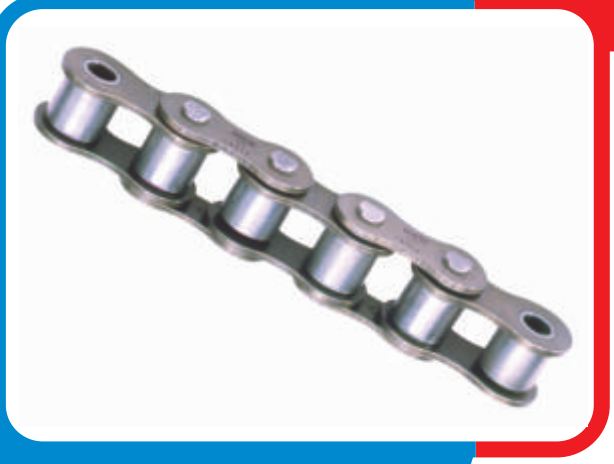


TRIPLE STRAND

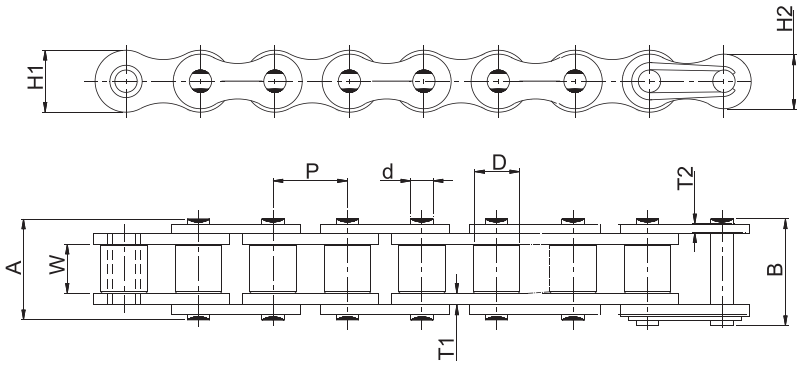
Intl. Ref. No.	DIAMOND Chain No.	Pitch (P)	Width between Inner Plates (W) (Min)	Roller Dia (D) (Max)	Bearing Pin Dia (d) (Max)	Plate Height		Plate Thickness		Width Over Bearing Pin (A) (Max)	Width Over Joint Fasteners (B) (Max)	Trans verse Pitch (P1)	Proje -cted Bearing Area Sq.cm	Avg. Weight Per Metre (Kg)	Tensile Stre- ngth (Kgf) (Min)	Spares Availa- bility
						IP (H1) (Max)	OP (H2) (Max)	IP (T1)	OP (T2)							
60H-3	D122 03	19.05	12.58	11.91	5.94	18.00	14.88	3.15	3.15	82.20	86.80	26.11	3.41	5.52	9720	A,B,C,D
80H-3	D 162 03	25.40	15.75	15.88	7.94	24.10	20.80	4.00	4.00	103.30	108.70	32.59	5.68	8.86	17340	A,B,C,D
100H-3	D 202 03	31.75	18.90	19.05	9.54	30.10	26.00	4.70	4.70	123.40	129.50	39.09	8.25	12.96	27090	B,C,D
120H-3	D 242 03	38.10	25.22	22.23	11.11	36.20	31.20	5.56	5.56	152.40	159.00	48.87	12.30	19.64	38850	B,C,D
140H-3	D 282 03	44.45	25.22	25.40	12.71	42.20	36.40	6.30	6.30	164.30	171.70	52.20	15.60	24.73	52740	B,C,D
160H-3	D 322 03	50.80	31.55	28.57	14.29	48.20	41.60	7.14	7.14	193.70	201.60	61.90	21.30	31.77	69360	B,C,D
200H-3	D 402 03	63.50	37.85	39.67	19.85	60.30	52.00	8.80	8.80	252.60	262.80	78.31	36.51	60.79	108210	B,C,D

Note : Spares E & F are available for all models



ANSI B 29.1

HI - LIFE CHAINS - AMERICAN HEAVY SERIES

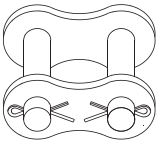


The chains are dimensionally identical to American Heavy series chains. However the through hardened high tensile pins give the chain a higher working load capacity and improved fatigue resistance in high load and fluctuating type of applications.

SINGLE STRAND

Intl. Ref. No.	DIAMOND Chain No.	Pitch (P)	Width Between Inner Plates (W) (Min)	Roller Dia (D) (Max)	Plate Height		Plate Thickness		Bearing Pin Dia (d) (Max)	Width Over Bearing Pin (A) (Max)	Width Over Joint Fasteners (B) (Max)	Projected Bearing Area (Sq.cm)	Avg. Weight Per Metre (Kg)	Tensile Strength (Kgf) (Min)	Spares Avail-ability
					IP H1 (Max)	OP H2 (Max)	IP T1 (Max)	OP T2 (Max)							
60H-1	D 12201HE01	19.05	12.58	11.91	18.00	14.88	3.15	3.15	5.96	31.20	35.80	1.14	1.81	4600	B,E,F
80H-1	D 16201HE02	25.40	15.75	15.88	24.10	20.80	4.00	4.00	7.94	38.00	43.40	1.89	3.00	8700	B,E,F
100H-1	D 20201HE02	31.75	18.90	19.05	30.10	26.00	4.70	4.70	9.54	45.40	51.50	2.75	4.38	11500	B,E,F
120H-1	D 24201HE02	38.10	25.23	22.23	36.20	31.20	5.56	5.56	11.11	55.10	61.70	4.10	6.61	16200	B,E,F
160H-1	D 32201HE01	50.80	31.55	28.57	48.20	41.60	7.14	7.14	14.29	70.00	77.90	7.10	10.88	29000	B,E,F
200H-1	D 40201HE01	63.50	37.85	39.67	60.30	52.00	8.80	8.80	19.85	93.10	103.30	12.17	20.65	52500	B,E,F

B



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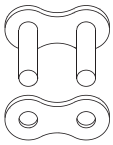
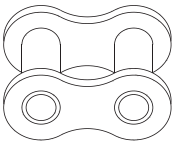


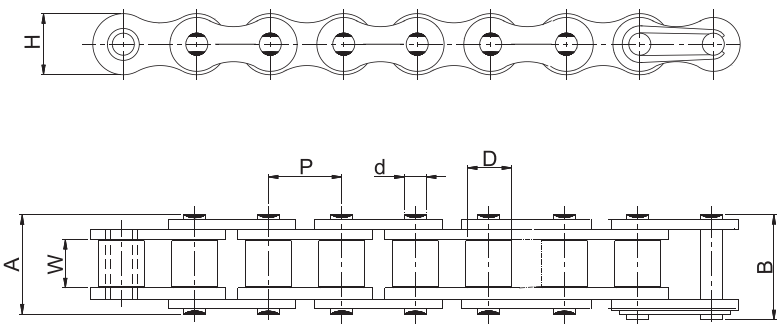
F



Note : We do not recommend use of offset links and spring clip type Connecting Links (A, C & D) for Hi-Life Chains

STANDARD ROLLER CHAINS

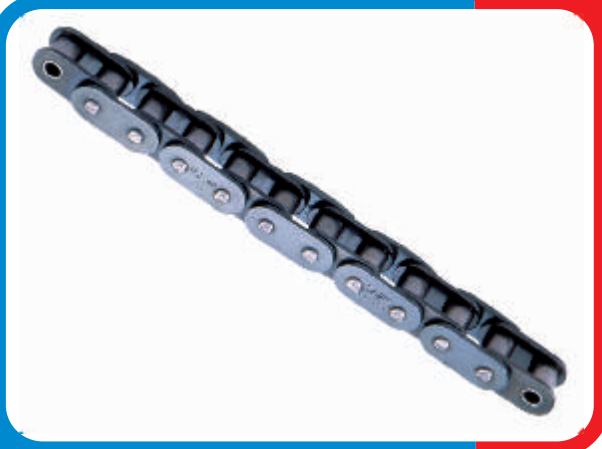
OTHER STANDARDS



Intl. Ref. No.	DIAMOND Chain No.	Pitch (P)	Width between Inner Plates (W) (Min)	Roller Dia (D) (Max)	Plate Height (H) (Max)	Bearing Pin Dia (d) (Max)	Width Over Bearing Pin (A) (Max)	Width Over Joint Fasteners (B) (Max)	Avg. Weight Per Metre (kg)	Tensile Strength (Kgf) (Min)
081	D08001	12.70	3.30	7.75	9.55	3.64	9.75	11.11	0.28	820
-	D08101	12.70	4.88	7.75	9.55	3.63	11.70	12.75	0.34	820
08MA	D08201	12.70	5.21	8.51	11.65	4.47	14.23	16.00	0.59	1820
083	D08G01	12.70	4.88	7.75	10.30	4.08	12.35	13.85	0.42	1225
J 415 F	D08M01	12.70	5.01	7.75	10.00	4.08	14.35	15.45	0.49	1600
										2100
10MA	D10001	15.875	6.48	10.16	14.56	5.08	15.55	17.15	0.78	1600
										1900
-	*D12301	19.05	12.72	14.24	18.80	7.92	31.40	-	2.65	2200
12BH	D12H 01	19.05	11.68	11.91	15.90	6.06	24.75	26.65	1.39	2700
-	D12601	19.05	9.40	11.91	18.04	5.94	22.30	23.75	1.41	6000
										4002
-	*D14001	22.225	14.28	15.60	23.58	7.92	36.25	-	3.57	3180
										9000
-	D160010005	25.40	35.00	15.88	20.60	8.27	53.75	55.55	3.66	6120
-	D160010011	25.40	13.05	15.75	20.60	8.14	30.10	36.50	2.57	6120
-	D560010001	88.90	53.34	53.98	80.20	34.32	117.80	130.00	172.54	100000
-	SP1729	58.34	21.30	18.26	26.50	10.19	40.85	44.50	2.48	4550

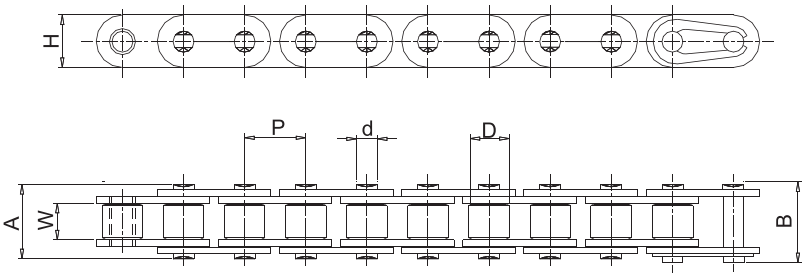
* STRAIGHT CONTOUR CHAINS

Note : Wherever international reference is not indicated models have been developed for specific requirements.



STANDARD ROLLER CHAINS

STRAIGHT SIDE PLATE CHAINS - EUROPEAN SERIES

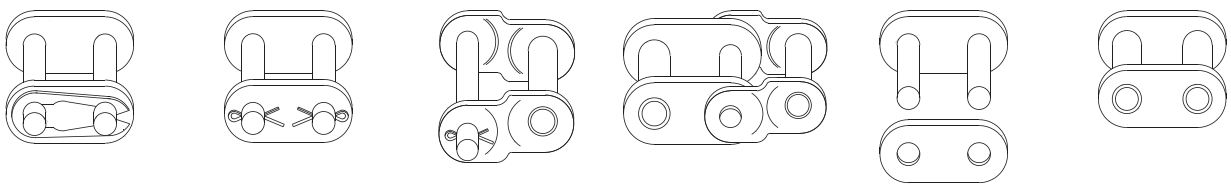


The straight side plate chains are identical to the corresponding European series standard chains except for the straight side plates. The chains have higher fatigue resistance than the standard chains.

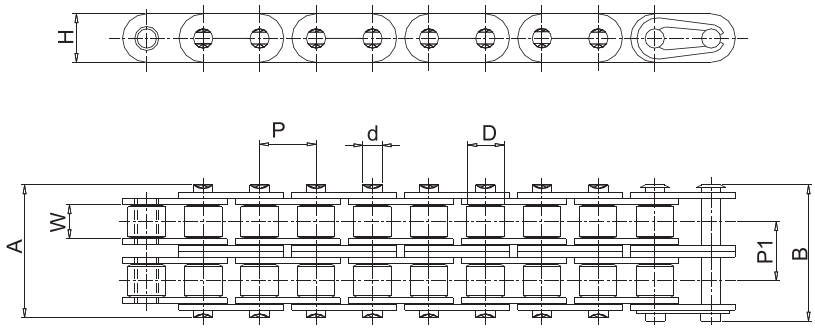
SINGLE STRAND

Intl. Ref. No.	DIAMOND Chain No.	Pitch (P)	Width between Inner Plates (W) (Min)	Roller Dia (D) (Max)	Bearing Pin Dia (d) (Max)	Plate Height (H) (Max)	Width Over Bearing Pin (A) (Max)	Width Over Joint Fasteners (B) (Max)	Projected Bearing Area Sq.cm	Avg. Weight Per Metre (Kg)	Tensile Strength (Kgf) (Min)	Spares Availa-bility
C08B	D083 01 ST 01	12.70	7.75	8.51	4.45	11.80	17.00	20.90	0.50	0.75	1840	A,B,C,D
C10B	D101 01 ST 01	15.875	9.65	10.16	5.08	14.70	19.60	23.70	0.67	0.98	2290	A,B,C,D
C12B	D120 01 ST 01	19.05	11.68	12.07	5.72	16.10	22.70	27.30	0.88	1.24	2960	A,B,C,D
C16B	D160 01ST 01	25.40	17.02	15.88	8.27	24.10	36.10	41.50	2.07	3.30	6120	A,B,C,D
	D160 01 ST 02	25.40	17.02	15.88	8.27	20.58	36.10	41.50	2.07	3.30	6120	A,B,C,D
C20B	D200 01 ST 01	31.75	19.56	19.05	10.19	26.40	43.20	49.30	2.91	3.91	9690	A,B,C,D
C24B	D240 01 ST 01	38.10	25.40	25.40	14.63	33.40	53.40	60.00	5.49	7.16	16310	B,C,D
C28B	D280 01 ST 01	44.45	30.99	27.94	15.90	37.00	65.10	72.50	7.26	8.79	20390	B,C,D
C32B	D320 01 ST 01	50.80	30.99	29.21	17.81	42.20	67.40	75.30	8.05	10.42	25500	B,C,D

A B C D E F



Note : Spares E & F are available for all models



DOUBLE STRAND

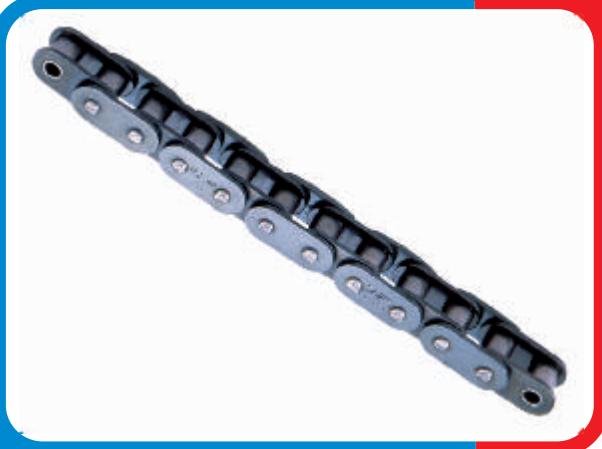
Intl. Ref. No.	DIAMOND Chain No.	Pitch (P)	Width between Inner Plates (W) (Min)	Roller Dia (D) (Max)	Bearing Pin Dia (d) (Max)	Plate Height (H) (Max)	Width Over Bearing Pin (A) (Max)	Width Over Joint Fasteners (B) (Max)	Transv-erse Pitch (P1)	Projected Bearing Area Sq.cm	Avg. Weight Per Metre (Kg)	Tensile Strength (Kgf) (Min)	Spares Availa-bility
C08B	D083 02 ST 01	12.70	7.75	8.51	4.45	11.80	31.00	34.90	13.92	1.00	1.44	3270	A,B,C,D
C10B	D101 02 ST 01	15.875	9.65	10.16	5.08	14.70	36.20	40.30	16.59	1.34	1.97	4540	A,B,C,D
C12B	D120 02 ST 01	19.05	11.68	12.07	5.72	16.10	42.20	46.80	19.46	1.76	2.27	5900	A,B,C,D
C16B	D160 02 ST 01	25.40	17.02	15.88	8.27	24.10	68.00	73.40	31.88	4.14	5.81	11600	A,B,C,D
	D160 02 ST 02	25.40	17.02	15.88	8.27	20.58	68.00	73.40	31.88	4.14	5.78	11600	A,B,C,D
C20B	D200 02 ST 01	31.75	19.56	19.05	10.19	26.40	79.00	85.10	36.45	5.82	7.72	17330	B,C,D
C24B	D240 02 ST 01	38.10	25.40	25.40	14.63	33.40	101.00	107.60	48.36	10.98	14.15	28850	B,C,D
C28B	D280 02 ST 01	44.45	30.99	27.94	15.90	37.00	124.00	131.40	59.56	14.52	17.39	36700	B,C,D
C32B	D320 02 ST 01	50.80	30.99	29.21	17.81	42.20	126.00	133.90	58.55	16.10	20.63	45880	B,C,D

TRIPLE STRAND

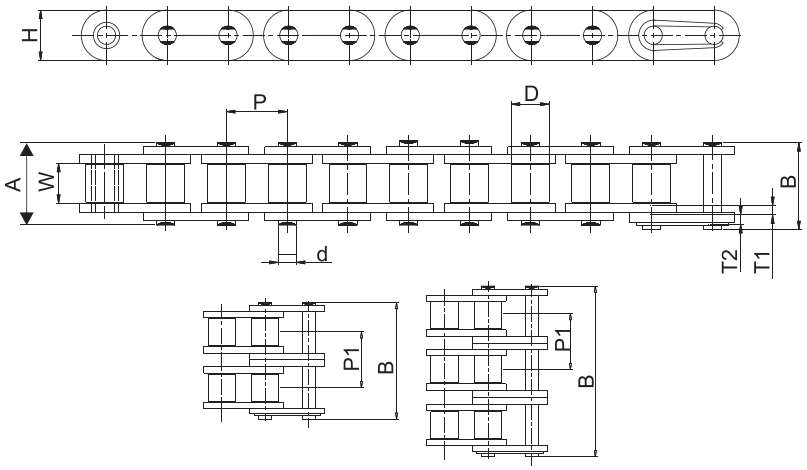
Intl. Ref. No.	DIAMOND Chain No.	Pitch (P)	Width between Inner Plates (W) (Min)	Roller Dia (D) (Max)	Bearing Pin Dia (d) (Max)	Plate Height (H) (Max)	Width Over Bearing Pin (A) (Max)	Width Over Joint Fasteners (B) (Max)	Transv-erse Pitch (P1)	Projected Bearing Area Sq.cm	Avg. Weight Per Metre (Kg)	Tensile Strength (Kgf) (Min)	Spares Availa-bility
C08B	D083 03 ST 01	12.70	7.75	8.51	4.45	11.80	44.90	48.80	13.92	1.50	2.03	4850	A,B,C,D
C10B	D101 03 ST 01	15.875	9.65	10.16	5.08	14.70	52.80	56.90	16.59	2.01	2.72	6810	A,B,C,D
C12B	D120 03 ST 01	19.05	11.68	12.07	5.72	16.10	61.70	66.30	19.46	2.64	3.42	8850	A,B,C,D
C16B	D160 03 ST 01	25.40	17.02	15.88	8.27	24.10	99.00	105.30	31.88	6.21	8.83	17400	A,B,C,D
	D160 03 ST 02	25.40	17.02	15.88	8.27	20.58	99.90	105.30	31.88	6.21	8.86	17400	A,B,C,D
C20B	D200 03 ST 01	31.75	19.56	19.05	10.19	26.40	116.00	122.10	36.45	8.73	11.53	25490	A,B,C,D
C24B	D240 03 ST 01	38.10	25.40	25.40	14.63	33.40	150.00	156.60	48.36	16.47	21.15	43330	B,C,D
C28B	D280 03 ST 01	44.45	30.99	27.94	15.90	37.00	184.00	191.40	59.56	21.78	26.00	54040	B,C,D
C32B	D320 03 ST 01	50.80	30.99	29.21	17.81	42.20	281.00	291.00	58.55	24.15	30.84	68320	B,C,D

Note : Spares E & F are available for all models

STRAIGHT SIDE PLATE CHAINS - AMERICAN SERIES

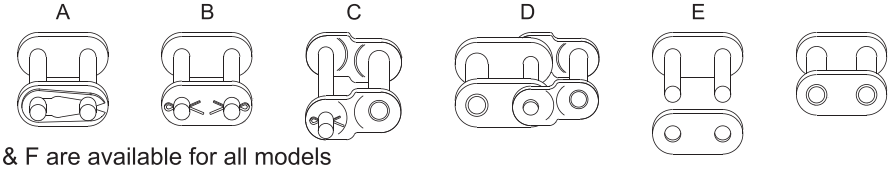


ANSI B 29.4



This straight side plate chains are identical to the corresponding American standard chains except for the straight side plates.
The chains have higher fatigue resistance than the standard chains.

Intl. Ref. No.	DIAMOND Chain No.	Pitch (P)	Width between Inner Plates (W) (Min)	Roller Dia (D) (Max)	Bearing Pin Dia (d) (Max)	Plate Height (H) (Max)	Plate Thickness Joint IP T1	Plate Thickness Joint OP T2	Width Over Bearing Pin (A) (Max)	Width Over Joint Fasteners (B) (Max)	Transv-erse Pitch (P1)	Avg. Weight Per Metre (Kg)	Tensile Strength (Kgf) (Min)	Spares Availa-bility
C40-1	D08A01ST01	12.70	7.85	7.92	3.96	12.00	1.50	1.50	17.80	21.70	14.38	0.67	1440	A,B,C,D
C40-2	D08A02ST01								32.30	38.20		1.32	2880	A,B,C,D
C40-3	D08A03ST01								46.70	50.80		1.98	4320	A,B,C,D
C50-1	D10201ST02	15.875	9.40	10.16	5.08	15.00	2.00	2.00	21.80	25.90	18.11	1.59	2270	A,B,C,D
C50-2	D10202ST02								39.90	44.00		2.06	4540	A,B,C,D
C50-3	D10203ST02								57.90	62.00		3.07	6810	A,B,C,D
C60-1	D12101ST01	19.05	12.58	11.91	5.94	18.00	2.39	2.39	26.90	31.50	22.78	1.76	3240	A,B,C,D
C60-2	D12102ST01								49.70	54.40		3.12	6490	A,B,C,D
C60-3	D12103ST01								72.60	77.20		4.67	9730	A,B,C,D
C80-1	D16101ST01	25.40	15.75	15.88	7.92	24.10	3.15	3.15	33.50	38.90	29.29	3.23	5780	A,B,C,D
C80-2	D16102ST01								62.70	68.10		5.2	11560	A,B,C,D
C80-3	D16103ST01								91.90	97.10		7.77	17340	A,B,C,D
C100-1	D20101ST01	31.75	18.90	19.05	9.53	30.10	4.00	4.00	41.10	47.20	35.76	4.01	9030	A,B,C,D
C100-2	D20102ST01								77.70	83.10		7.93	18060	A,B,C,D
C100-3	D20103ST01								113.00	119.10		11.86	27090	A,B,C,D
C120-1	D24101ST01	38.10	25.22	22.23	11.10	36.20	4.70	4.70	50.80	57.40	45.44	5.74	12950	B,C,D
C120-2	D24102ST01								96.30	102.90		11.37	25900	B,C,D
C120-3	D24103ST01								141.03	147.60		17.01	38850	B,C,D
C160-1	D32101ST01	50.80	31.55	28.58	14.27	47.78	6.30	6.30	65.50	73.40	58.55	7.47	23130	B,C,D
C160-2	D32102ST01								124.00	131.90		14.81	46250	B,C,D
C160-3	D32103ST01								182.00	189.90		22.16	69370	B,C,D

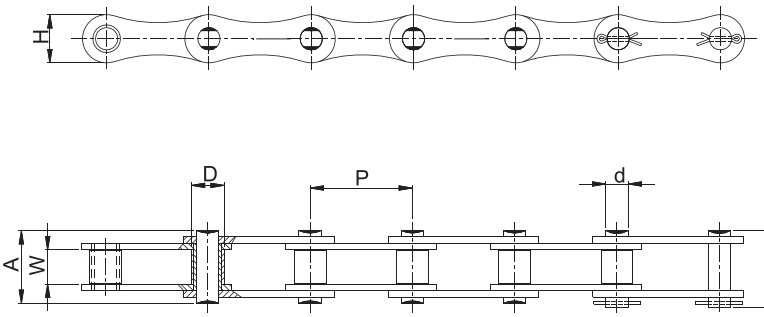


Note : Spares E & F are available for all models

STANDARD ROLLER CHAINS

DOUBLE PITCH DRIVE CHAINS

ISO 1275/BS 4687/DIN 8181



The pitch of the chains is twice that of standard chains while other components have the same dimensions of the corresponding standard chains.These cost effective chains are used in light load drives typically agriculture.

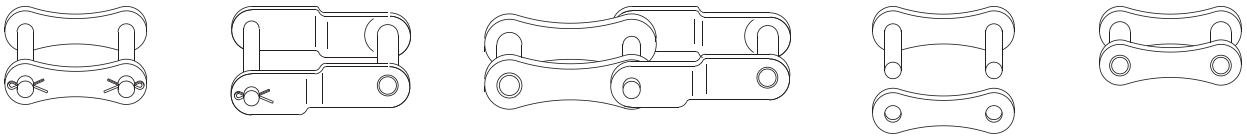
AMERICAN SERIES

Intl. Ref. No.	DIAMOND Chain No.	Pitch (P)	Width between Inner Plates (W) (Min)	Roller Dia (D) (Max)	Pin Dia (d) (Max)	Plate Height (H) (Max)	Width Over Bearing Pin (A) (Max)	Width Over Joint Fasteners (B) (Max)	Avg. Weight Per Metre (Kg)	Tensile Strength (Kgf) (Min)
A2040	E08A01	25.40	7.85	7.92	3.96	11.65	17.80	21.70	0.41	1440
A2050	E10201	31.75	9.40	10.16	5.08	13.90	21.80	25.90	0.66	2270
A2060	E12101	38.10	12.58	11.91	5.94	18.10	26.90	31.50	1.03	3240
A2080	E16101	50.80	15.75	15.88	7.92	24.10	33.50	38.90	1.70	5780
A2100	E 20101	63.50	18.90	19.05	9.53	29.02	41.10	47.20	2.55	9030
A2120	E 24101	76.20	25.22	22.23	11.10	34.82	50.80	57.40	4.06	12950

EUROPEAN SERIES

208B	E08301	25.40	7.75	8.51	4.45	11.65	17.00	20.90	0.47	1840
210B	E10101	31.75	9.65	10.16	5.08	13.90	19.60	23.70	0.68	2290
212B	E12001	38.10	11.68	12.07	5.72	15.30	22.70	27.30	0.80	2960
216B	E16001	50.80	17.02	15.88	8.27	20.65	36.10	41.50	1.42	6120
220B	E20001	63.50	19.56	19.05	10.19	26.42	43.20	49.30	2.36	9690
224B	E24001	76.20	25.40	25.40	14.63	33.40	53.40	60.00	4.70	16310
228B	E28001	88.90	30.99	27.94	15.90	37.00	65.10	72.50	6.23	20390
232B	E32001	101.60	30.99	29.21	17.81	42.20	67.40	75.30	6.72	25500

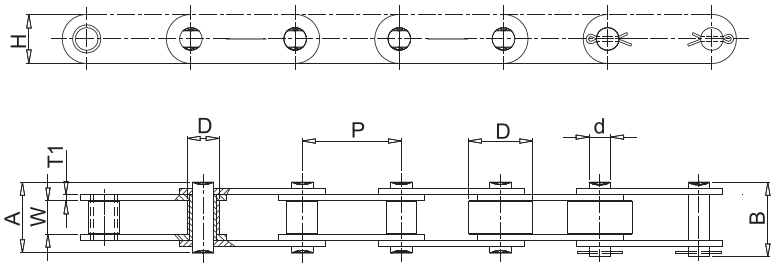
B C D E F



Above spares are available for all models

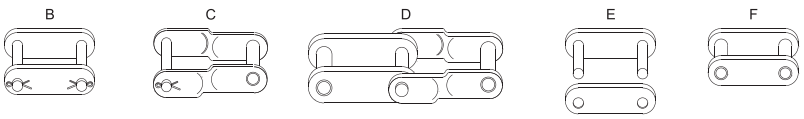
DOUBLE PITCH CONVEYOR CHAINS - AMERICAN SERIES

ISO 1275/ANSI B29.4



The chains are similar to double pitch power transmission chains, but the Link Plates have a straight contour and can be produced with **standard or large rollers**. They are used in conveyor applications where loads are low and speeds are moderate.

Intl. Ref. No.	DIAMOND Chain No.	Pitch (P)	Width between Inner Plates (W) (Min)	Roller Dia* (D) (Max)	Pin Dia (d) (Max)	Plate Height (H) (Max)	Plate Thickness (T1)	Width Over Bearing Pin (A) (Max)	Width Over Joint Fasteners (B) (Max)	Avg. Weight Per Metre (Kg)	Tensile Strength (Kgf) (Min)
C2040	A 08A 01	25.40	7.85	7.92	3.96	11.66	1.50	17.80	21.70	0.49	1440
C2042	A 08A 02			15.88						0.84	
C2050	A 102 01	31.75	9.40	10.16	5.08	14.58	2.00	21.80	25.90	0.81	2270
C2052	A 102 02			19.05						1.28	
C2060	A 121 01	38.10	12.58	11.91	5.94	18.06	2.39	26.90	31.50	1.20	3240
C2062	A 121 02			22.23						1.92	
C2060H	A 122 01	38.10	12.58	11.91	5.94	18.06	3.15	31.20	35.80	1.50	3240
C2062H	A 122 02			22.23						1.92	
C2080	A 161 01	50.80	15.75	15.88	7.92	24.05	3.15	33.50	38.90	2.10	5780
C2082	A 161 02			28.58						3.18	
C2080H	A 162 01	50.80	15.75	15.88	7.92	24.05	4.00	38.00	43.40	2.52	5780
C2082H	A 162 02			28.58						3.60	
C2100	A 201 01	63.50	18.90	19.05	9.53	29.26	4.00	41.10	47.20	3.21	9030
C2102	A 201 02			39.67						5.45	
C2100H	A 202 01	63.50	18.90	19.05	9.53	29.26	4.70	43.40	46.70	3.56	9030
C2102H	A 202 02			39.67						5.38	
C2120	A 241 01	76.20	25.22	22.23	11.10	36.20	4.70	50.80	57.40	4.66	12950
C2122	A 241 02			44.45						7.66	
C2120H	A 242 01	76.20	25.22	22.23	11.10	36.20	5.56	55.10	61.70	5.26	12950
C2122H	A 242 02			44.45						8.26	
C2160	A 321 01	101.60	31.55	28.58	14.27	48.26	5.56	65.50	73.40	8.15	23130
C2162	A 321 02			57.15						13.00	
C2160H	A 322 01	101.60	31.55	28.58	14.27	48.26	7.14	70.00	77.90	9.06	23120
C2162H	A 322 02			57.15						12.77	

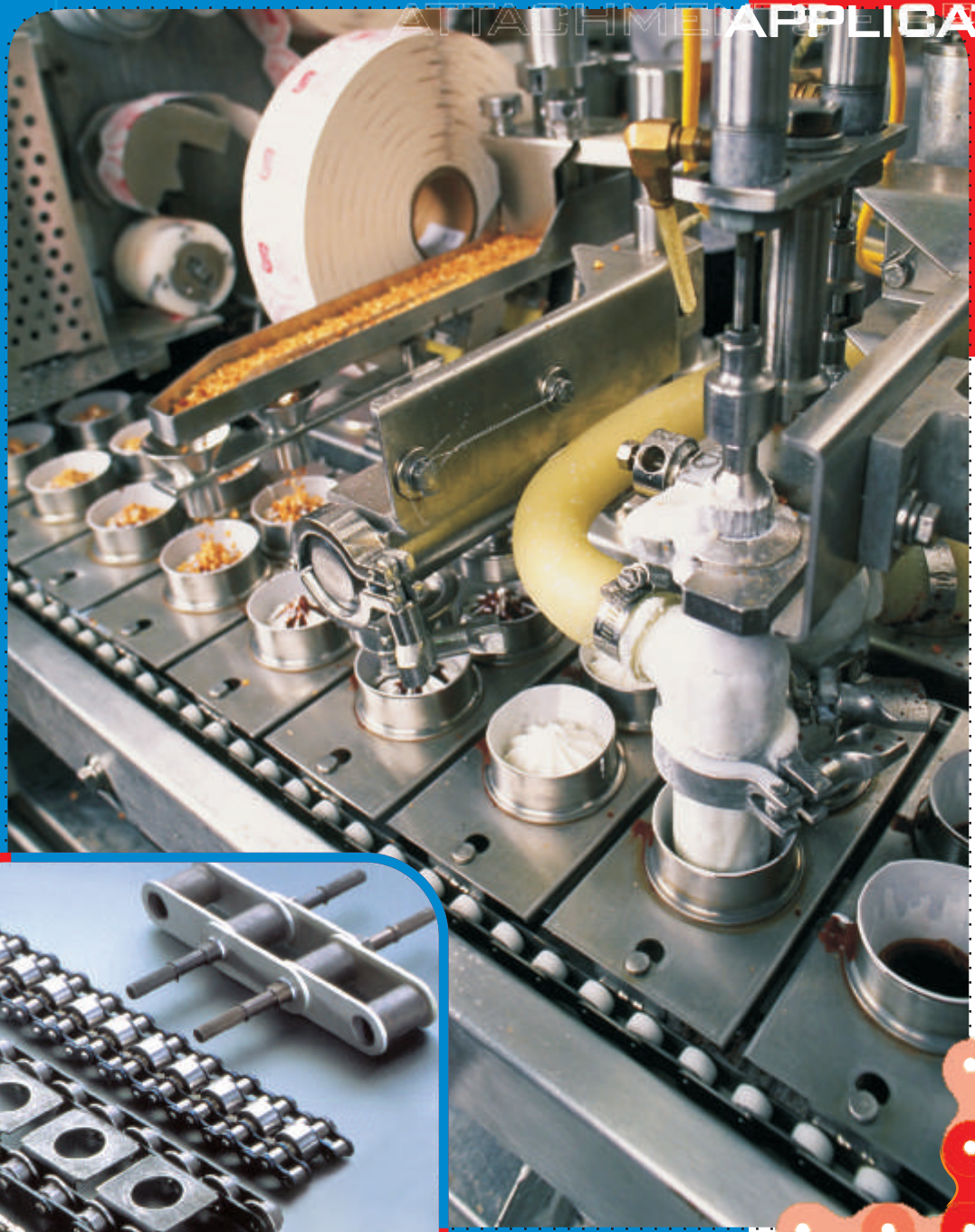


* Select roller diameter for ordering.

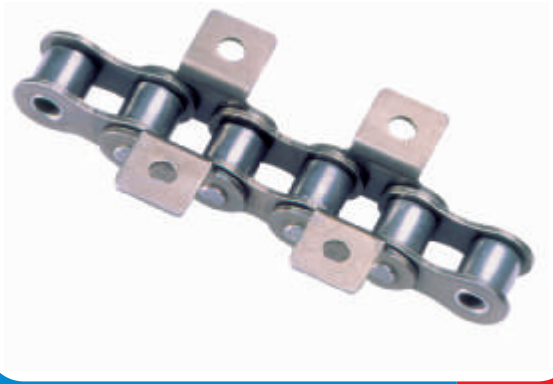
Above spares are available for all models.

DIAMOND INDIA RELIABILITY

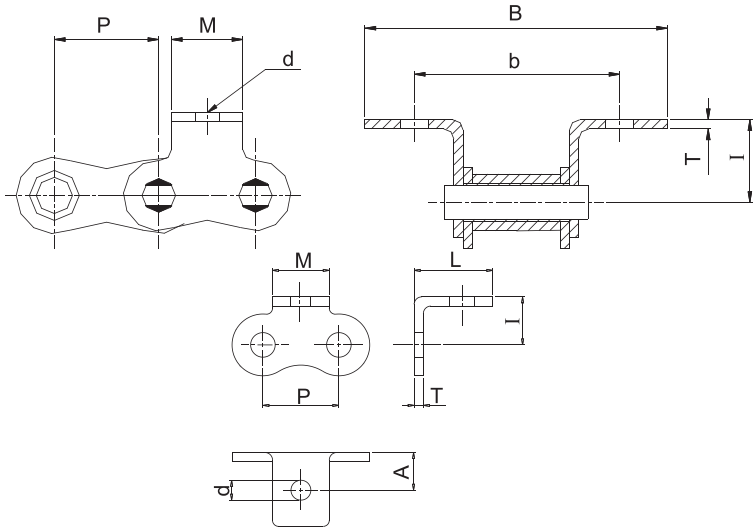
ATTACHMENTS - SPECIAL APPLICATIONS



ATTACHMENTS - SPECIAL APPLICATIONS



SHORT PITCH K1 ATTACHMENTS



DIN 8187-2 **Outer** Attachments for European Series

BASE CHAIN MODEL	DIAMOND ATT. No.	P	T	M	d	A	L	l	B	b
08B	46 D 083 01 K1 00	12.586	1.58	11.00	4.50	6.84	12.34	8.89	36.40	25.40
10B	46 D 101 01 K1 00	15.77	1.58	14.28	5.50	9.17	15.60	10.31	44.63	31.80
12B	46 D 120 01 K1 00	18.91	1.81	15.88	6.60	11.08	18.23	13.46	52.35	38.10
16B	32 D 160 01 K1 05	25.247	3.05	18.85	6.80	12.50	24.50	15.90	74.80	50.80
20B	32 D 200 01 K1 01	31.75	3.53	26.15	9.00	17.01	30.25	19.80	90.00	63.50

ANSI B29.1 **Outer** Attachments for American Series

BASE CHAIN MODEL	DIAMOND ATT. No.	P	T	M	d	A	L	l	B	b
40	32 D 08A 01 K1 02	12.586	1.50	11.40	4.20	7.00	14.07	7.90	39.74	25.40
40	32 D 08A 01 K1 05	12.586	1.50	11.40	6.00	7.00	14.07	7.90	39.50	25.40
50	32 D 102 01 K1 06	15.77	2.00	14.27	5.10	8.82	17.50	10.31	49.10	31.75
60	32 D 121 01 K1 01	19.05	2.39	15.88	5.10	10.05	18.90	11.90	77.80	38.10
80	32 D 161 01 K1 01	25.247	3.05	45.90	7.00	13.70	27.20	12.70	73.80	50.80
100	32 D 201 01 K1 02	31.75	4.00	22.25	8.21	17.87	28.32	19.84	84.40	63.50
120	32 D 241 01 K1 03	38.10	4.70	28.45	9.81	20.08	34.38	23.01	104.80	76.20
140	32 D 281 01 K1 01	44.45	5.56	34.85	11.38	27.29	43.44	28.58	121.20	88.90
160	32 D 321 01 K1 02	50.80	6.30	37.85	13.11	27.83	47.53	31.75	141.00	101.60

Work Standard **Outer** Attachments for European Series

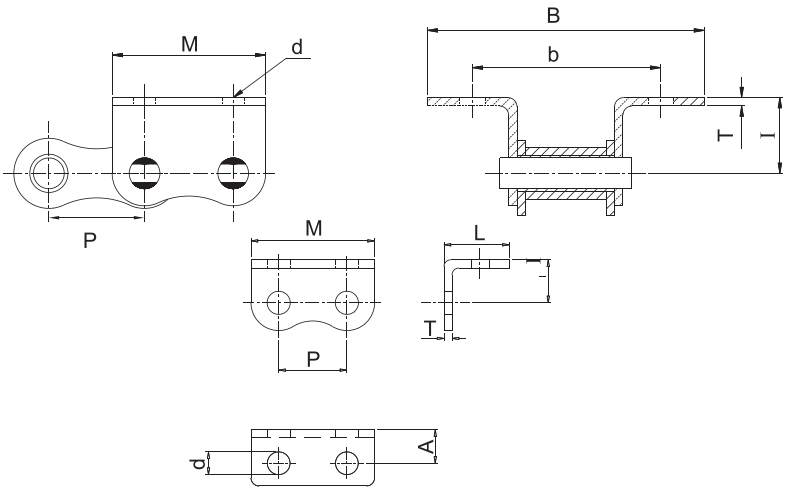
BASE CHAIN MODEL	DIAMOND ATT. No.	P	T	M	d	A	L	I	B	b
06B	32 D 061 01 K1 02	9.45	1.00	8.00	3.50	5.04	9.04	6.50	27.00	19.00
08B	32 D 083 01 K1 05	12.586	1.58	9.50	4.30	8.24	12.74	8.40	37.20	28.20
10B	32 D 101 01 K1 02	15.77	1.58	14.10	5.20	9.18	17.10	10.40	47.60	31.80
12B	32 D 120 01 K1 04	18.91	1.81	15.85	5.60	9.51	17.50	12.00	51.60	35.00
16B	32 D 160 01 K1 01	25.247	3.05	45.90	6.80	13.71	25.11	14.80	76.00	53.20

Work Standard **Inner** Attachments for European Series

BASE CHAIN MODEL	DIAMOND ATT. No.	P	T	M	d	A	L	I	B	b
06B	34 D 061 01 K1 00	9.525	1.25	8.00	3.50	6.51	10.51	6.50	27.00	19.00
08B	34 D 083 01 K1 09	12.70	1.58	9.50	4.30	10.06	14.56	8.40	37.20	28.20
10B	34 D 101 01 K1 03	15.862	1.58	14.10	5.20	10.94	17.10	10.40	44.12	31.80
12B	34 D 120 01 K1 05	19.05	1.81	16.00	5.60	11.54	17.50	12.00	47.21	35.00
16B	34 D 160 01 K1 07	25.40	3.60	19.00	6.80	16.32	25.50	15.90	69.17	50.80
20B	34 D 200 01 K1 02	31.75	4.40	25.25	8.40	21.70	32.95	19.85	83.80	63.50

Note : Please select the required attachment plate and specify the frequency of positioning the attachments while ordering for chains.

SHORT PITCH K2 ATTACHMENTS



DIN 8187-2 **Outer** Attachments for European Series

BASE CHAIN MODEL	DIAMOND ATT. No.	P	T	d	M	A	L	l	B	b
08B	48 D 083 01 K2 00	12.586	1.58	4.50	23.22	6.84	12.34	8.89	36.40	25.40
10B	48 D 101 01 K2 00	15.77	1.58	5.50	29.31	9.17	15.60	10.30	44.63	31.80
12B	48 D 120 01 K2 00	18.91	1.81	6.60	32.99	11.08	18.23	13.40	52.40	38.10
16B	32 D 160 01 K2 19	25.40	3.05	6.80	45.90	12.50	26.20	15.90	78.20	50.80
20B	48 D 200 01 K2 00	31.75	3.53	9.00	58.04	17.00	28.10	19.80	85.70	63.50

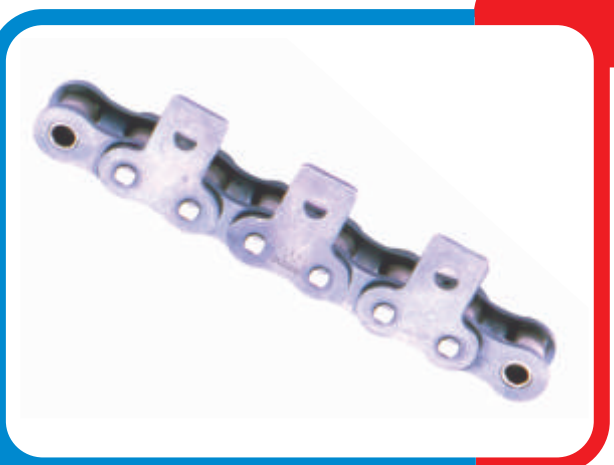
ANSI B29.1 **Outer** Attachments for American Series

BASE CHAIN MODEL	DIAMOND ATT. No.	P	T	d	M	A	L	l	B	b
40	32 D 08A 01 K2 01	12.586	1.50	4.20	23.22	7.00	14.07	7.90	39.74	25.40
50	32 D 102 01 K2 01	15.77	2.00	5.50	29.28	8.85	16.35	10.30	46.80	31.81
60	32 D 121 01 K2 01	19.05	2.39	5.10	34.87	10.05	18.90	11.90	55.80	38.10
80	32 D 161 01 K2 03	25.247	3.05	6.80	45.90	13.91	27.20	15.90	77.40	50.80
100	32 D 201 01 K2 01	31.75	4.00	8.21	56.69	17.87	28.32	19.84	84.40	63.50
120	32 D 241 01 K2 01	38.10	4.70	9.81	68.71	20.08	34.38	23.01	104.80	76.20
140	32 D 281 01 K2 01	44.45	5.56	11.38	80.52	27.29	43.44	28.58	121.20	88.90
160	32 D 321 01 K2 01	50.80	6.30	13.11	91.44	27.83	47.53	31.75	141.00	101.60

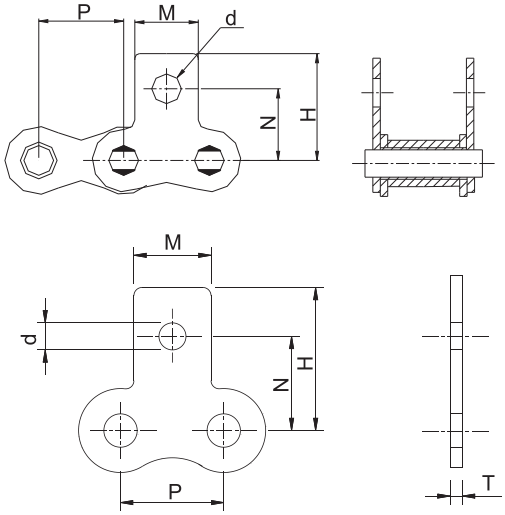
Work Standard **Outer** Attachments for European Series

BASE CHAIN MODEL	DIAMOND ATT. No.	P	T	d	M	A	L	l	B	b
06B	32 D 061 01 K2 01	9.525	1.00	3.50	17.60	5.04	9.04	6.50	27.00	19.00
08B	32 D 083 01 K2 03	12.586	1.58	4.30	23.22	8.24	12.74	8.40	37.20	28.20
10B	32 D 101 01 K2 01	15.77	1.58	5.30	29.31	9.18	17.10	10.40	47.60	31.80
12B	32 D 120 01 K2 04	18.91	1.81	5.60	32.99	9.52	22.54	12.00	61.00	35.00
16B	32 D 160 01 K2 01	25.40	3.05	8.00	45.90	13.71	25.11	14.80	76.00	53.20

Note : Please select the required attachment plate and specify the frequency of positioning the attachments while ordering for chains.



SHORT PITCH M1 ATTACHMENTS



DIN 8187-2 **Outer** Attachments for European Series

BASE CHAIN MODEL	DIAMOND ATT. No.	P	T	d	M	N	H
08B	42 D 083 01 M1 00	12.586	1.58	4.50	11.00	13.00	18.42
10B	42 D 101 01 M1 00	15.77	1.58	5.50	14.28	16.50	23.10
12B	42 D 120 01 M1 00	18.91	1.81	6.60	15.88	21.00	28.43
16B	42 D 160 01 M1 00	25.40	3.05	6.60	18.85	23.00	34.95
20B	42 D 200 01 M1 00	31.75	3.53	9.00	25.25	30.50	42.00

ANSI B29.1 **Outer** Attachments for American Series

BASE CHAIN MODEL	DIAMOND ATT. No.	P	T	d	M	N	H
40	31 D 08A 01 M1 02	12.586	1.50	4.20	11.40	12.70	19.24
50	31 D 102 01 M1 03	15.77	2.00	5.10	14.28	15.88	24.20
60	31 D 121 01 M1 01	19.05	2.39	5.10	15.88	19.05	26.70
80	31 D 161 01 BM1	25.247	3.15	6.60	18.85	25.40	34.95
100	31 D 201 01 M1 01	31.75	4.00	8.21	22.25	31.75	42.00
120	31 D 241 01 M1 01	38.10	4.70	9.81	28.45	38.10	52.55
140	31 D 281 01 M1 01	44.45	5.50	11.38	34.85	44.50	64.32
160	31 D 321 01 M1 01	50.80	6.30	13.11	37.85	50.80	68.15

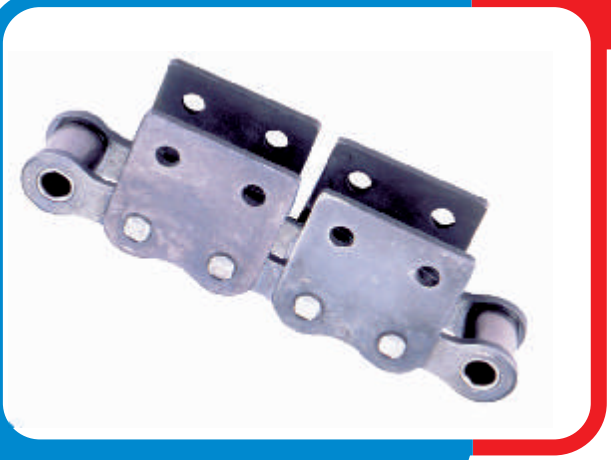
Work Standard **Outer** Attachments for European Series

BASE CHAIN MODEL	DIAMOND ATT. No.	P	T	d	M	N	H
06B	31 D 061 01 M1 03	9.45	1.00	3.50	8.00	9.75	13.75
08B	31 D 083 01 M1 02	12.586	1.58	4.30	9.50	14.10	18.34
10B	31 D 101 01 M1 02	15.77	1.58	5.20	14.10	15.90	24.70
12B	31 D 120 01 M1 02	18.91	1.81	5.60	15.85	17.90	26.23
16B	31 D 160 01 M1 03	25.235	3.05	6.80	18.85	26.00	34.95
20B	31 D 200 01 M1 01	31.75	3.53	8.40	25.25	31.75	42.00

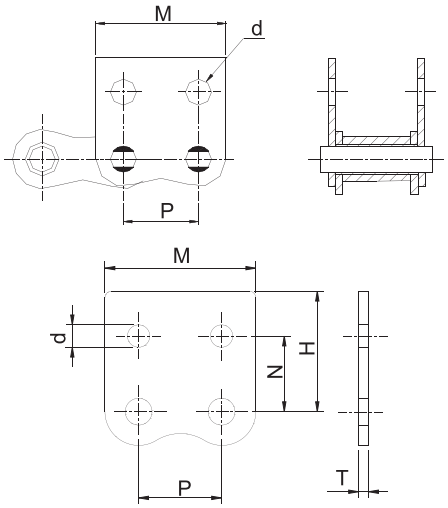
Work Standard **Inner** Attachments for European Series

BASE CHAIN MODEL	DIAMOND ATT. No.	P	T	d	M	N	H
06B	34 D 061 01 M1 00	9.525	1.00	3.50	8.00	9.74	13.74
08B	33 D 083 01 M1 08	12.70	1.58	4.20	11.40	12.13	19.235
10B	33 D 101 01 M1 03	15.875	1.58	5.20	14.10	15.90	24.695
12B	33 D 120 01 M1 03	19.05	1.81	5.60	15.85	17.90	26.23
16B	33 D 160 01 M1 05	25.40	3.50	6.80	18.85	26.00	34.95
20B	33 D 200 01 M1 01	31.75	4.40	9.00	25.25	30.50	42.00

Note : Please select the required attachment plate and specify the frequency of positioning the attachments while ordering for chains.



SHORT PITCH M2 ATTACHMENTS



DIN 8187-2 **Outer** Attachments for European Series

BASE CHAIN MODEL	DIAMOND ATT. No.	P	T	d	M	N	H
08B	44 D 083 01 M2 00	12.586	1.58	4.50	23.22	13.00	18.34
10B	44 D 101 01 M2 00	15.77	1.58	5.30	29.31	16.50	23.10
12B	44 D 120 01 M2 00	18.91	1.81	6.60	32.99	21.00	28.43
16B	44 D 160 01 M2 00	25.235	3.05	6.60	45.90	23.00	36.64
20B	44 D 200 01 M2 00	31.75	3.53	9.00	58.04	30.50	42.00

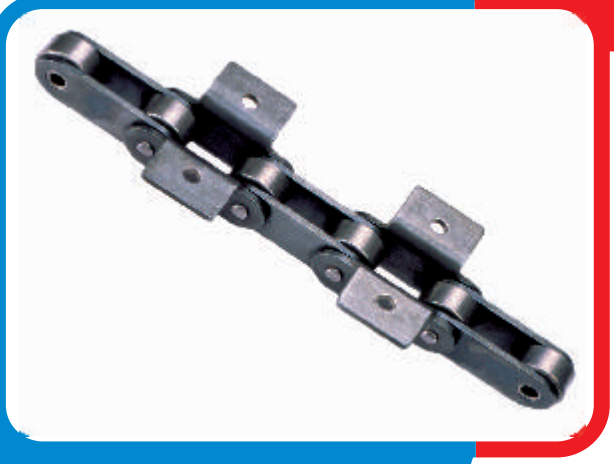
ANSI B29.1 **Outer** Attachments for American Series

40	31 D 08A 01 M2 02	12.586	1.50	4.20	23.22	12.70	19.24
50	31 D 102 01 M2 03	15.77	2.00	5.10	29.31	15.88	24.20
60	31 D 121 01 M2 01	19.05	2.39	5.10	34.87	19.05	26.70
80	31 D 161 01 Bm2	25.247	3.15	6.60	45.90	25.40	36.64
100	31 D 201 01 M2 01	31.75	4.00	8.21	56.69	31.75	42.00
120	31 D 241 01 M2 01	38.10	4.70	9.81	68.71	36.53	52.55
140	31 D 281 01 M2 01	44.45	5.50	11.38	80.52	44.50	64.32
160	31 D 321 01 M2 01	50.80	6.30	13.11	91.44	50.80	68.15

Work Standard **Outer** Attachments for European Series

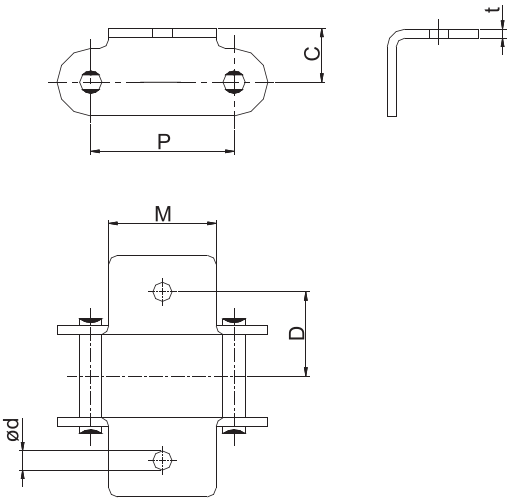
06B	31 D 061 01 M2 00	9.45	1.00	3.50	17.60	9.50	13.41
08B	31 D 083 01 M2 02	12.586	1.58	4.30	23.22	14.40	18.34
10B	31 D 101 01 M2 01	15.77	1.58	5.20	29.31	15.90	24.70
12B	31 D 120 01 M2 02	18.91	1.81	5.60	32.99	17.90	31.28
16B	31 D 160 01 M2 02	25.235	3.05	6.80	45.90	26.00	36.64

Note : Please select the required attachment plate and specify the frequency of positioning the attachments while ordering for chains.



ATTACHMENT CHAINS

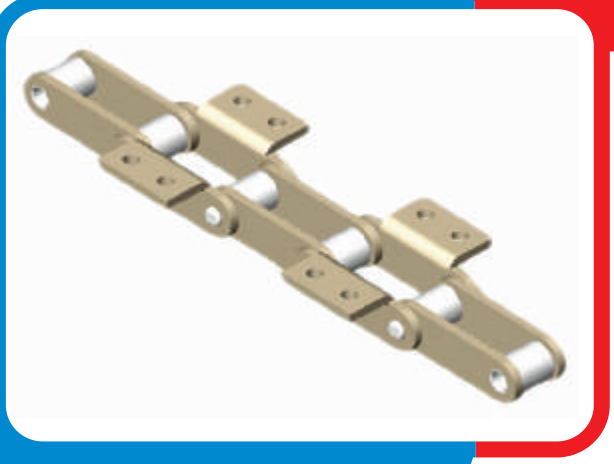
DOUBLE PITCH K1 ATTACHMENTS



ANSI B 29.4 **Outer** attachments for American series

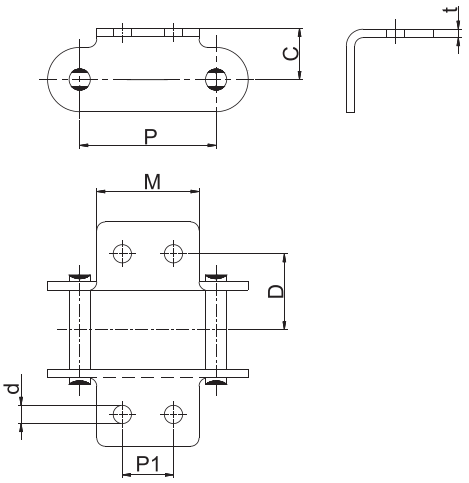
Base Chain Model	DIAMOND ATT. No	Pitch (P)	Thickness (t)	M	d	D	C
C 2040	32-A 08A 01 BK1	25.40	1.50	19.10	3.33	12.70	9.12
C2042							
C2050	32-A 102 01 K1 01	31.75	2.00	23.80	5.08	15.83	11.13
C2052							
C2060	32-A 121 01 K1 01	38.10	2.39	28.60	5.08	21.44	14.68
C2062							
C2060H	32-A 122 01 K1 01	38.10	3.15	28.60	5.08	21.44	14.68
C2062H							
C2080	32-A 161 01 K1 01	50.80	3.15	38.10	6.63	27.79	19.05
C2082							
C2080H	32-A 162 01 BK1	50.80	4.00	38.10	6.63	27.79	19.05
C2082H							
C2100	32-A 201 01 K1 01	63.50	4.00	47.60	8.20	33.32	23.42
C2102							
C2100H	32-A 202 01 K1 01	63.50	4.70	47.60	8.20	33.32	23.42
C2102H							
C2120	32-A 241 01K1 01	76.20	4.70	57.20	9.80	39.67	27.79
C2122							
C2120H	32-A 242 01 K1 01	76.20	5.56	57.20	9.80	39.67	27.79
C2122H							
C2160	32-A 321 01 K1 01	101.60	5.56	76.20	13.11	52.37	36.53
C2162							
C2160H	32-A 322 01 K1 01	101.60	7.14	76.20	13.11	52.37	36.53
C2162H							

Note : Please select the required attachment plate and specify the frequency of positioning the attachments while ordering for chains.



ATTACHMENT CHAINS

DOUBLE PITCH K2 ATTACHMENTS

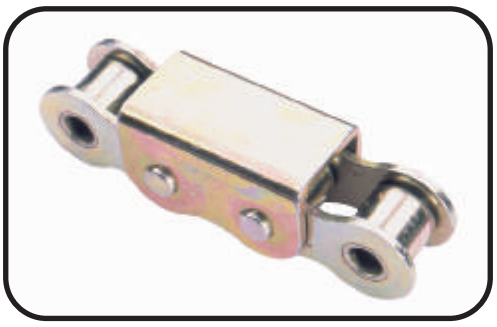


ANSI B 29.4 **Outer** attachments for American series

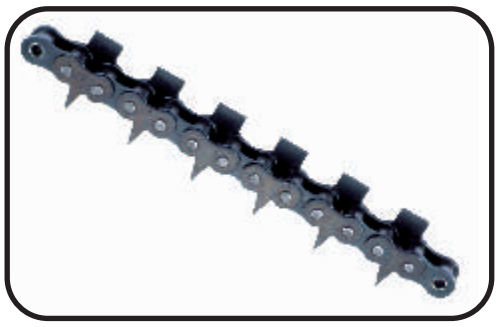
Base Chain Model	DIAMOND ATT. No	Pitch (P)	Thickness (t)	M	d	D	C	P1
C 2040 C2042	32-A 08A 01 K2 01	25.40	1.50	19.10	3.33	12.70	9.12	9.52
C2050 C2052	32-A 102 01 SK2	31.75	2.00	23.80	5.08	15.83	11.13	11.91
C2060 C2062	32-A 121 01 SK2	38.10	2.39	28.60	5.08	21.44	14.68	14.30
C2060H C2062H	32-A 122 01 K2 01	38.10	3.15	28.60	5.08	21.44	14.68	14.30
C2080 C2082	32-A 161 01 K2 01	50.80	3.15	38.10	6.63	27.79	19.05	19.05
C2080H C2082H	32-A 162 01 K2 05	50.80	4.00	38.10	6.63	27.79	19.05	19.05
C2100 C2102	32-A 201 01 K2 01	63.50	4.00	47.60	8.20	33.32	23.42	23.83
C2100H C2102H	32-A 202 01 K2 01	63.50	4.70	47.60	8.20	33.32	23.42	23.83
C2120 C2122	32-A 241 01 K2 01	76.20	4.70	57.20	9.80	39.67	27.79	28.58
C2120H C2122H	32-A 242 01 K2 01	76.20	5.56	57.20	9.80	39.67	27.79	28.58
C2160 C2162	32-A 321 01 K2 01	101.60	5.56	76.20	13.11	52.37	36.53	38.10
C2160H C2162H	32-A 322 01 K2 01	101.60	7.14	76.20	13.11	52.37	36.53	38.10

Note : Please select the required attachment plate and specify the frequency of positioning the attachments while ordering for chains.

WORK STANDARD ATTACHMENT CHAINS



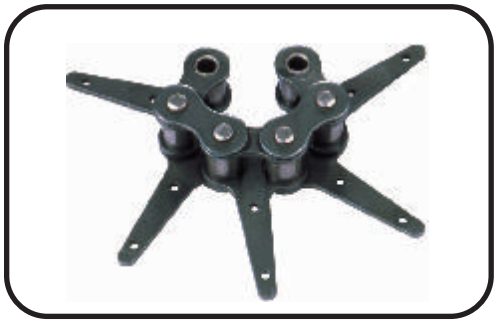
'U' ATTACHMENT



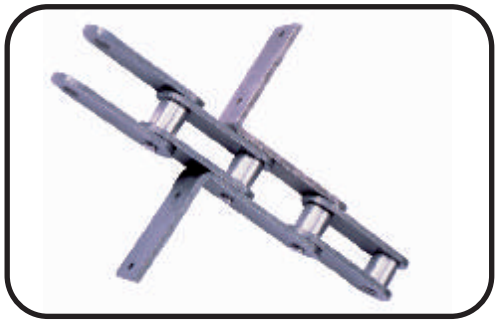
SPIKE ATTACHMENT

WELDED ATTACHMENT WITH TEFLON WASHER

WELDED ATTACHMENT

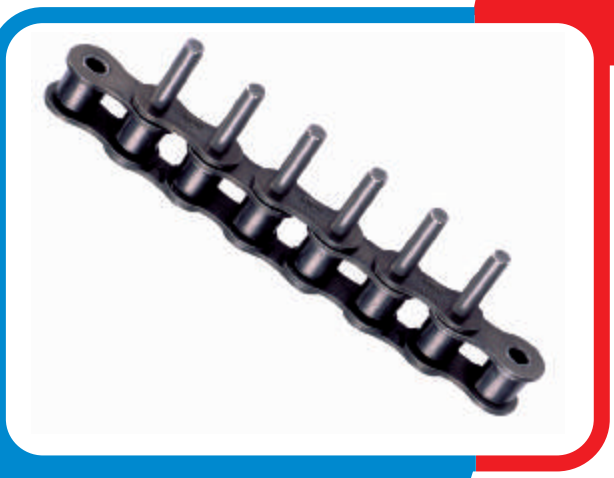


SPECIAL ATTACHMENT

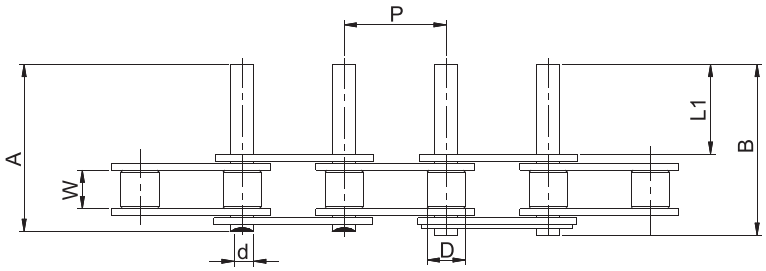


REDLER ATTACHMENT

EXTENDED PIN CHAINS



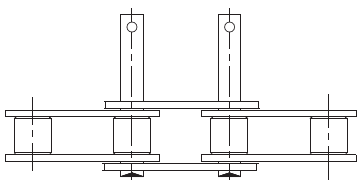
SHORT PITCH CHAINS



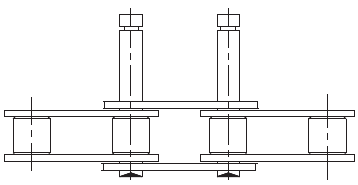
The series of Extended Pin Chains are used to transfer parts to different work stations, in indexing Mechanisms etc.

Intl Ref. No.	DIAMOND Chain No.	Extended Pin Dia (d) (Max)	Pin Extension L1 (Nom)	Extended Pin Length A (Nom)	Extended Connecting Pin Length B (Nom)	Average Weight Per Metre (Kg)
05B-1	D05B01J101	2.31	3.00	10.95	11.85	0.18
05B-1	D05B01J104	2.31	5.00	12.25	13.15	0.19
06B-1*	D06101J101	3.27	4.42	16.05	17.65	0.42
06B-1*	D06101J103	3.27	11.10	22.75	24.35	0.47
06B-1*	D06101J102	3.27	21.75	33.50	35.00	0.43
08B-1	D08301J115	4.45	15.15	30.91	33.00	0.75
08B-1	D08301J117	4.45	44.00	59.80	61.90	0.89
081C-1	D08001J101	3.63	12.00	20.95	22.16	0.37
10B-1	D10101J102	5.08	17.63	35.26	36.85	1.07
12B-1	D12001J112	5.72	20.83	41.66	43.07	1.22
16B-1	D16001J112	8.27	33.80	67.58	69.42	3.03
40-1	D08A01J101	3.97	16.20	31.60	32.60	0.75
60-1	D12101J104	5.94	24.10	48.25	49.65	1.77

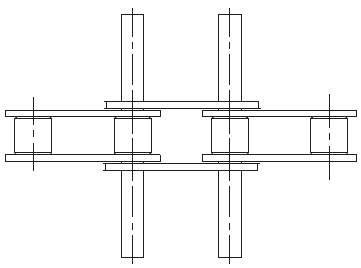
* Straight side plate chains



HOLE TYPE



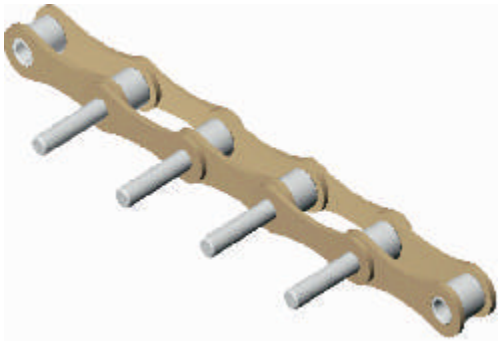
GROOVE TYPE



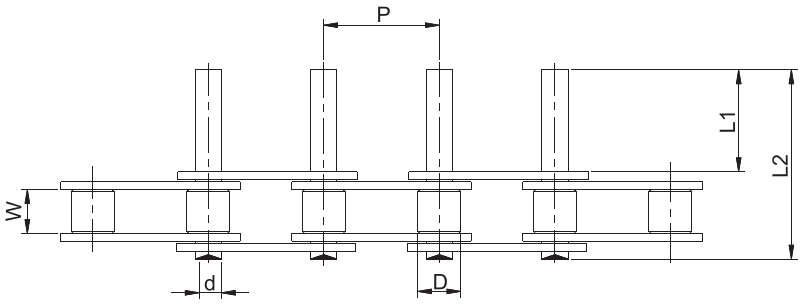
DOUBLE SIDE EXTENDED TYPE

Note : Please specify Extended Pin type, Length, Diameter and Frequency while ordering for chains.
(Pin Extension can be provided on one side or both sides)

EXTENDED PIN CHAINS



DOUBLE PITCH CHAINS



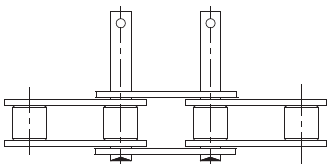
The Series of Extended Pin Chains are used to transfer parts to different work stations, in indexing Mechanisms etc.

AMERICAN SERIES

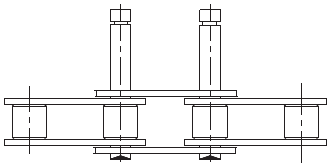
Intl Ref. No.	DIAMOND Base Chain No.	Pitch (P)	Width Between Inner Plates (W) (Min)	Roller Dia (D) (Max)	Extended Pin Dia (d) (Max)	Pin Extension L1	Extended Pin Length L2
A2040	E08A01	25.40	7.85	7.92	3.96	9.50	16.70
A2050	E10201	31.75	9.40	10.16	5.08	11.90	21.00
A2060	E12101	38.10	12.58	11.91	5.94	14.60	27.80
A2080	E16101	50.80	15.75	15.88	7.92	19.00	35.30
A2100	E20101	63.50	18.90	19.05	9.53	23.80	43.40
A2120	E24101	76.20	25.22	22.23	11.10	28.60	52.40

EUROPEAN SERIES

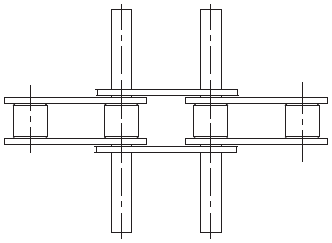
208B	E08301	25.40	7.75	8.51	4.45	9.50	16.70
210B	E10101	31.75	9.65	10.16	5.08	11.90	21.00
212B	E12001	38.10	11.68	12.07	5.72	14.60	27.80
216B	E16001	50.80	17.02	15.88	8.27	19.00	35.30
220B	E20001	63.50	19.65	19.05	10.19	28.80	43.40



HOLE TYPE

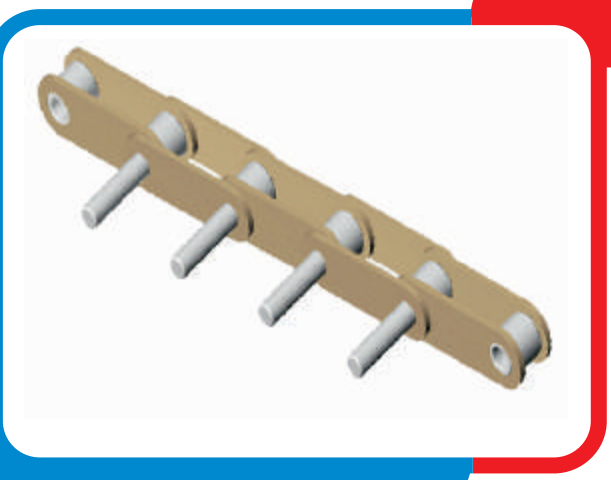


GROOVE TYPE



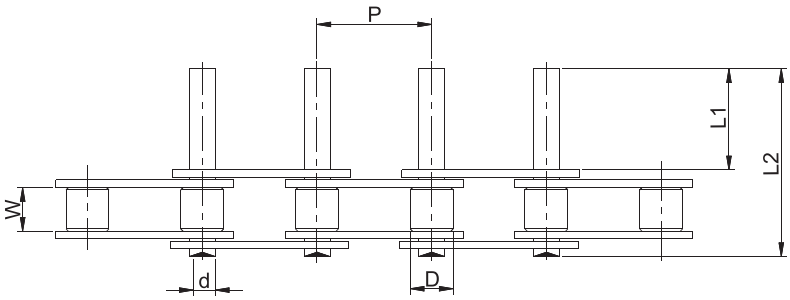
DOUBLE SIDE EXTENDED TYPE

Note : Please specify Extended Pin type, Length, Diameter and Frequency while ordering for chains.
(Pin Extension can be provided on one side or both sides)



DOUBLE PITCH

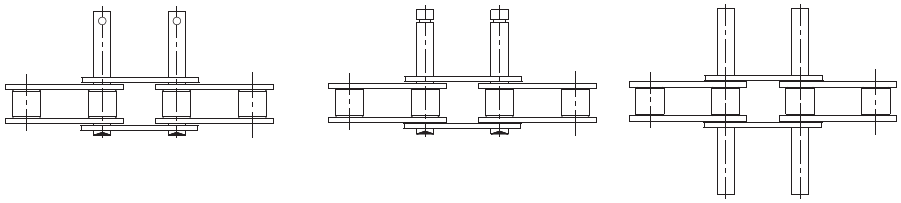
STRAIGHT SIDE PLATE - AMERICAN SERIES



The series of Extended Pin Chains are used to transfer parts to different work stations, indexing Mechanisms etc.

AMERICAN SERIES

Intl Ref. No.	DIAMOND Base Chain No.	Pitch (P)	Width Between Inner Plates (W) (Max)	Roller Dia (D) (Max)	Extended Pin Dia D (Max)	*Pin Extension L1	Extended Pin Length L2
C 2040	A 08A 01	25.40	7.85	7.92	3.96	9.50	16.70
C2042	A 08A 02			15.88	3.96	9.50	16.70
C2050	A 102 01	31.75	9.40	10.16	5.08	11.90	21.00
C2052	A 102 02			19.05	5.08	11.90	21.00
C2060	A 121 01	38.10	12.57	11.91	5.94	14.60	27.80
C2062	A 121 02			22.23	5.94	14.60	27.80
C2060H	A 122 01	38.10	12.57	11.91	5.94	14.60	27.80
C2062H	A 122 02			22.23	5.94	14.60	27.80
C2080	A 161 01	50.80	15.75	15.88	7.92	19.00	35.30
C2082	A 161 02			28.58	7.92	19.00	35.30
C2080H	A 162 01	50.80	15.75	15.88	7.92	19.00	35.30
C2082H	A 162 02			28.58	7.92	19.00	35.30
C2100	A 201 01	63.50	18.90	19.05	9.53	23.80	43.40
C2102	A 201 02			39.67	9.53	23.80	43.40
C2100H	A 202 01	63.50	18.90	19.05	9.53	23.80	43.40
C2102H	A 202 02			39.67	9.53	23.80	43.40
C2120	A 241 01	76.20	25.23	22.23	11.10	28.60	52.40
C2122	A 241 02			44.45	11.10	28.60	52.40
C2120H	A 242 01	76.20	25.23	22.23	11.10	28.60	52.40
C2122H	A 242 02			44.45	11.10	28.60	52.40

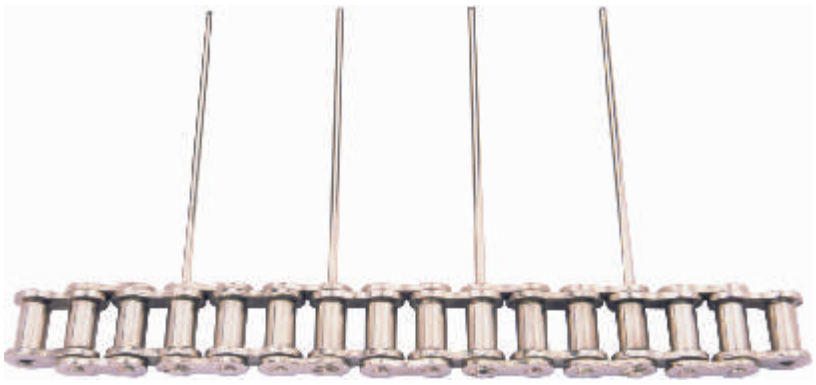


HOLE TYPE GROOVE TYPE DOUBLE SIDE EXTENDED TYPE

Note : Please specify Extended Pin type, Length, Diameter and Frequency while ordering for chains.
(Pin Extension can be provided on one side or both sides)

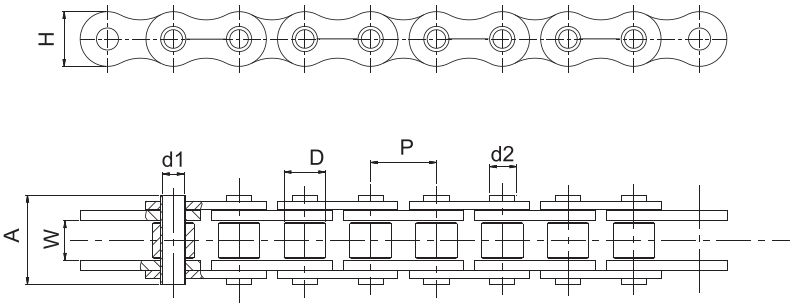
WORK STANDARD EXTENDED PIN CHAINS

EXTENDED PIN CHAINS WITH THREADS



NICKEL PLATED EXTENDED PIN CHAINS

HOLLOW PIN CHAINS

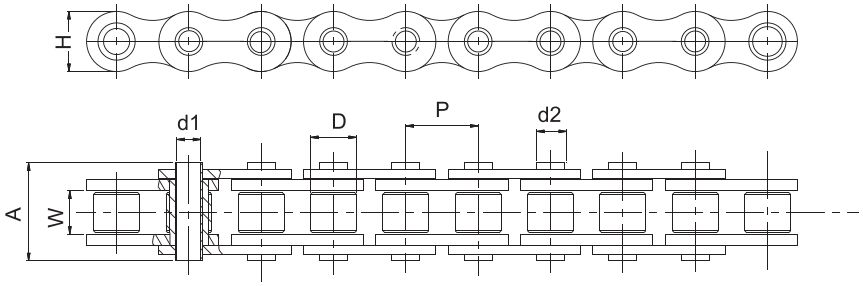


The series of hollow pin chains are used in conveyor applications allowing easy insertion of cross rods or attachments at desired frequency.

TYPE 1- WITH ROLLER, WITHOUT BUSH

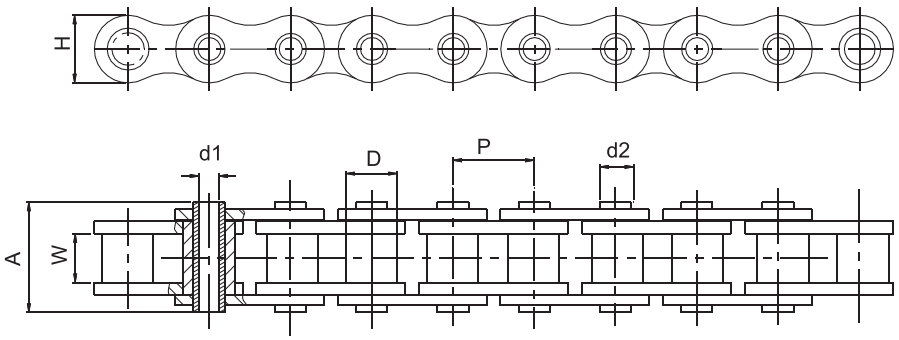
DIAMOND Chain No.	Pitch (P)	Width between Inner Plates (W) (Min)	Roller Dia (D) (Max)	Plate Height (H) (Max)	Pin Inner Diameter (d1) (Min)	Pin outer Diameter (d2)	Pin Length (A) (Max)	Avg. Weight Per Metre (Kg)	Tensile Strength (Kgf) Min	End Condition
D 061 01 HP 01 *	9.525	5.72	6.35	8.20	3.30	4.77	13.75	0.35	550	E
D083 01 HP 02	12.70	7.75	8.51	11.80	4.50	6.28	17.00	0.58	1100	E
D 101 01 HP 02	15.875	9.65	10.16	14.70	5.18	7.02	19.60	0.77	1500	E
D 102 01 HP 01	15.875	9.40	10.16	14.70	5.18	7.02	20.60	0.82	1500	E
D 120 01 HP 01	19.05	11.68	12.07	16.10	5.85	8.09	22.70	0.98	1700	E
D 160 01 HP 01	25.40	17.02	15.88	21.00	8.33	11.61	36.10	2.21	3340	E

* Straight Sided Plates



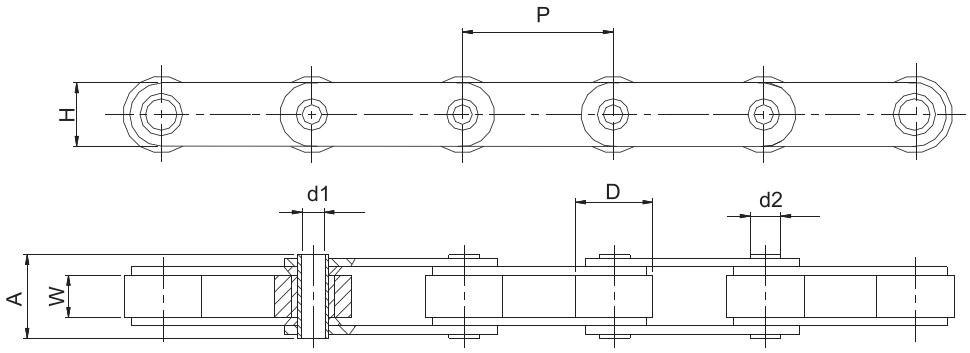
TYPE 2- WITH ROLLER AND BUSH

DIAMOND Chain No.	Pitch (P)	Width between Inner Plates (W) (Min)	Roller Dia (D) (Max)	Plate Height (H) (Max)	Pin Inner Diameter (d1) (Min)	Pin outer Diameter (d2)	Pin Length (A) (Max)	Avg. Weight Per Metre (Kg)	Tensile Strength (Kgf) (Min)	End Condition
D 120 01 HP 02	19.05	11.68	12.07	16.10	5.00	8.09	22.70	1.13	2300	E
D160 01 HP 02	25.40	17.02	15.88	21.00	5.00	8.26	33.90	2.34	3690	E



TYPE 3- WITH BUSH ,WITHOUT ROLLER

DIAMOND Chain No.	Pitch (P)	Width between Inner Plates (W) (Min)	Roller Dia (D) (Max)	Plate Height (H) (Max)	Pin Inner Diameter (d1) (Min)	Pin outer Diameter (d2)	Pin Length (A) (Max)	Avg. Weight Per Metre (Kg)	Tensile Strength (Kgf) (Min)	End Condition
B 083 01 HP 01	12.70	7.75	8.51	11.80	4.50	6.28	17.20	0.58	950	E
B 101 01 HP 01	15.875	9.65	10.16	14.70	5.18	7.02	19.60	0.73	1300	E
B 102 01 HP 01	15.875	9.53	10.16	14.70	5.18	7.02	20.50	0.85	1850	E
B 120 01 HP 01	19.05	11.68	12.07	16.10	5.85	8.09	22.70	1.10	1300	E



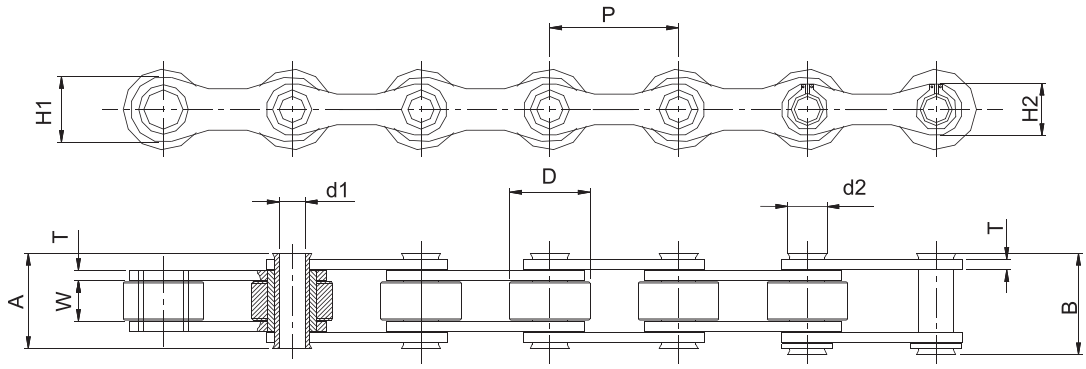
TYPE 4 - DOUBLE PITCH HOLLOW PIN CHAINS

Small Roller Chains

DIAMOND Chain No.	Pitch (P)	Width between Inner Plates (W) (Min)	Roller Dia (D) (Max)	Plate Height (H) (Max)	Pin Inner Diameter (D1) (Min)	Pin outer Diameter (d2)	Pin Length (A) (Max)	Avg. Weight Per Metre (Kg)	Tensile Strength (Kgf) (Min)	End Condition
A 102 01 HP 01	31.75	9.40	10.16	14.58	5.16	7.02	20.50	0.88	1630	G
A 121 01 HP 01	38.10	12.57	11.91	18.06	5.99	8.38	25.50	1.08	2310	G

Large Roller Chains

DIAMOND Chain No.	Pitch (P)	Width between Inner Plates (W) (Min)	Roller Dia (D) (Max)	Plate Height (H) (Max)	Pin Inner Diameter (d1) (Min)	Pin outer Diameter (d2)	Pin Length (A) (Max)	Avg. Weight Per Metre (Kg)	Tensile Strength (Kgf) (Min)	End Condition
A 102 02 HP 01	31.75	9.40	19.05	15.09	5.16	7.02	20.5	1.26	1630	G
A 121 02 HP 01	38.1	12.57	22.23	18.06	5.99	8.38	25.5	1.38	2310	G
A 161 02 HP 01	50.8	15.75	28.58	24.05	8.02	11.38	32.5	3.17	4190	G

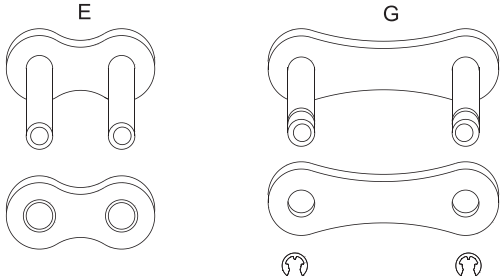


TYPE 5 - WITH CARRIER ROLLERS

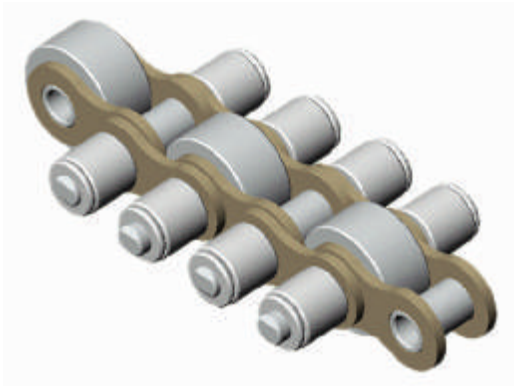
DIAMOND Chain No.	Pitch (P)	Width between Inner Plates (W) (Min)	Roller Dia (D) (Max)	Pin Inner Diameter (d1) (Min)	Pin outer Diameter (d2) (Min)	Plate Width IP (H1) (Max)	Plate Width OP (H2) (Max)	Inner Plate Thickness (T)	Width Over Bearing Pin (A) (Max)	Width Over Joint Fasteners (B) (Max)	Average Weight Per Metre (Kg)	Tensile Strength (Kgf) Min
U 25401 HP 01	25.40	8.00	20.00	5.20	8.00	17.20	15.20	2.00	19.50	20.65	1.23	2500
U 38101 HP 01	38.10	8.00	20.00	5.20	8.00	17.20	15.20	2.00	19.50	20.65	0.95	2800
U 38101 HP 05 *	38.10	12.70	25.40	8.30	11.62	21.20	21.20	2.40	26.50	28.50	2.11	3060
U50001 HP 02**	50.00	10.00	30.00	8.30	11.62	26.20	21.20	3.00	26.50	28.50	0.98	5100
U50801 HP 01**	50.80	10.00	30.00	8.30	11.62	26.20	26.20	3.00	26.50	28.50	2.12	5100
U50801 HP 02**	50.80	10.00	30.00	8.30	11.62	26.20	21.20	3.00	26.50	28.50	2.13	5100
U 63001 HP 01	63.00	10.00	30.00	8.30	11.62	26.20	26.20	3.00	26.50	28.50	2.00	5100
U 63005 HP 01 *	63.00	15.00	40.00	12.10	16.00	28.70	28.70	4.00	35.00	36.80	4.25	5000

* Straight Contour Chains
** Stainless Steel Chains and Plastic Roller Chains are also available

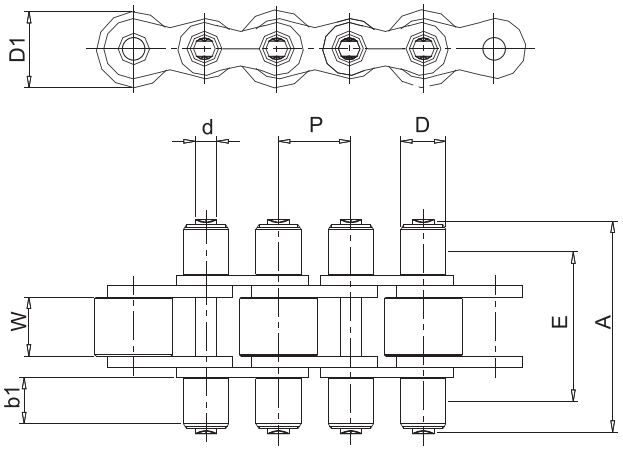
End Conditions



ACCUMULATOR CHAINS



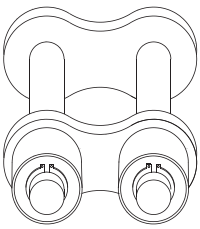
TYPE - 1



This type of conveyor chain are used for transporting parts, plates, pallets etc., which rests on the accumulator roller while the chain moves at a constant linear speed.

DIAMOND Chain No.	Pitch (P)	Width Between inner plates (W) (Min)	Width of Outboard Roller (b1)	Dia of Outboard Roller (D) (Max)	Pin Dia (d) (Max)	Pin length (A) (Max)	Centre Distance (E)	Conveyor Rollers			Avg. Weight Per Metre (Kg)	Tensile Strength (Kgf) (Min)
								Dia (D1)(Max)	Material			
									Steel	Plastic		
D08301OB02	12.70	7.75	4.30	8.51	4.45	27.25	19.10	16.00	✓	✓	1.31	1820
D12001OB01	19.05	11.68	11.10	12.07	5.72	48.00	31.50	24.00	✓	✓	2.98	2950
D12001OB02	19.05	11.68	7.50	12.07	5.72	40.25	27.00	28.00	✓	✓	2.53	2950
D12001OB03	19.05	11.68	8.80	12.07	5.72	43.00	29.20	26.00	✓	✓	2.12	2950
D16001OB01	25.40	17.02	12.50	15.88	8.27	65.25	45.00	38.50	✓	✓	5.64	5800

A



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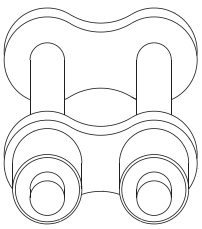
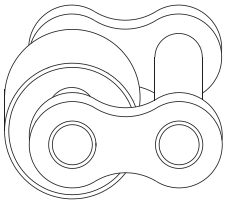
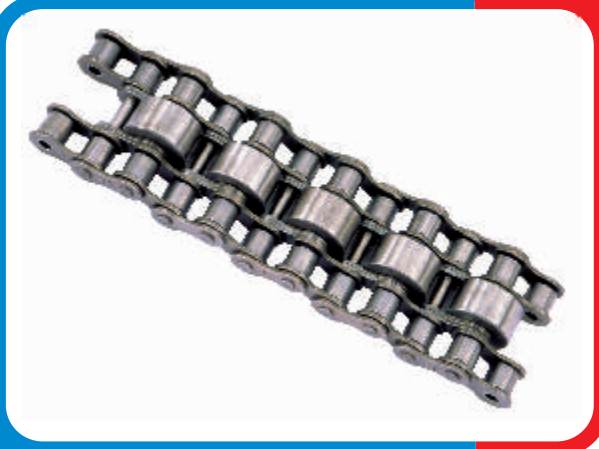


C

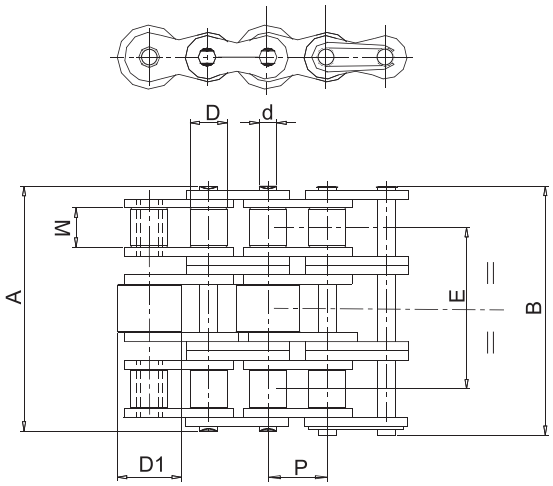


Note : Spares available for all models

ACCUMULATOR CHAINS

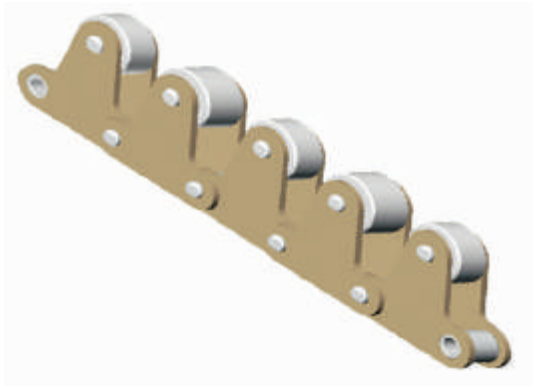


TYPE - 2

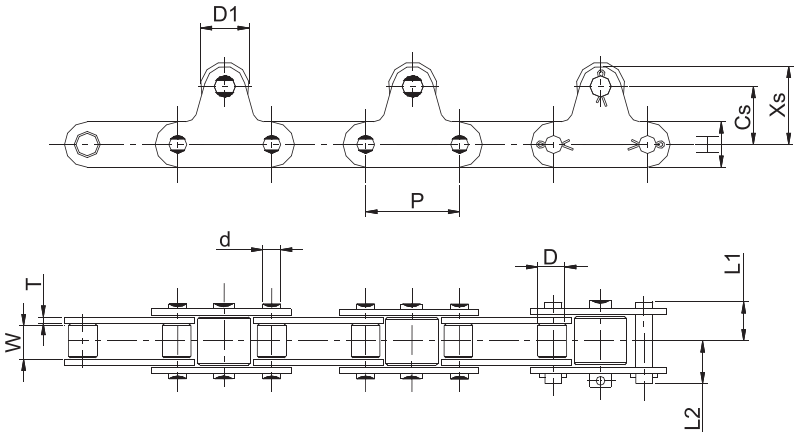


DIAMOND Chain No.	Pitch (P)	Width Between inner plates (W) (Min)	Roller Dia (D) (Max)	Pin Dia (d) (Max)	Pin length (A) (Max)	Width Over Joint Fasteners (B) (Max)	Center Distance (E)	Conveyor Rollers			Avg. Weight Per Metre (Kg)	Tensile Strength (Kgf) (Min)
								Dia (D1) (Max)	Material			
									Steel	Plastic		
D083030003	12.70	7.75	8.51	4.45	44.90	46.75	27.84	16.00	✓	X	2.33	4540
D120030001	19.05	11.68	12.07	5.72	61.70	63.00	38.92	22.00	✓	X	3.42	8850
D120030002	19.05	11.68	12.07	5.72	61.72	63.00	38.92	28.00	✓	X	4.04	8850
D160030001	25.40	17.02	15.88	8.28	99.90	101.50	63.76	38.50	✓	X	10.63	17400
D160030002	25.40	17.02	15.88	8.28	99.90	101.50	63.76	27.00	✓	X	9.25	17400

Note : Special requirements of 'E' and ' D1' can be made on request

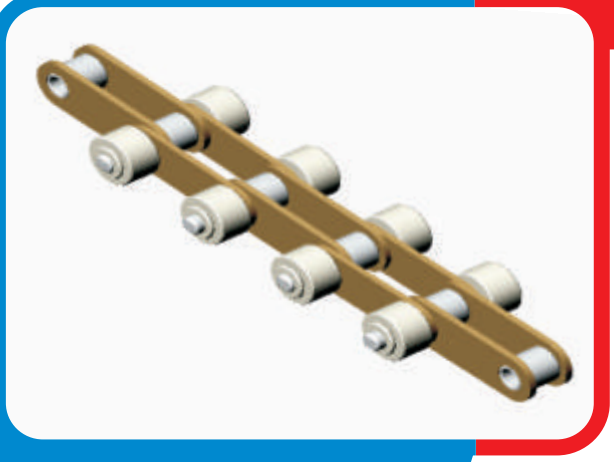


TOP ROLLER CHAINS



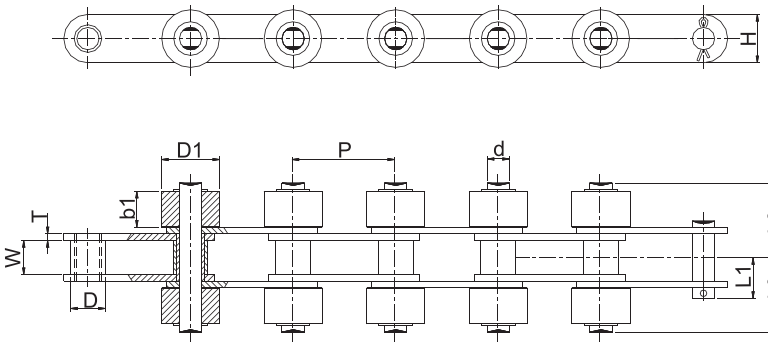
Intl. Ref. No.	DIAMOND Chain No.	Pitch (P)	Width between Inner plates (W) (Min)	Roller Dia		Pin (Max)			Link Plate		Cs	Xs	Material	
				D	D1	d	L1	L2	H	T			Steel	Plastic
C2040	A 08A01 TR01	25.40	7.85	7.92	15.88	3.97	8.25	9.95	11.66	1.50	15.00	21.00	✓	✓
C2050	A 10201 TR01	31.75	9.40	10.16	19.05	5.08	10.30	12.00	14.58	2.00	19.00	26.50	✓	✓
C2060	A 12101 TR01	38.10	12.58	11.91	22.23	5.94	14.55	16.55	18.06	3.15	23.00	31.60	✓	✓
C2080	A 16101 TR01	50.80	15.75	15.88	28.58	7.92	18.30	20.90	24.05	4.00	29.00	40.50	✓	✓
C2100	A 20101 TR01	63.50	18.90	19.05	39.67	9.53	21.80	24.50	29.26	4.70	35.40	49.70	✓	✓

Note : Chains with large rollers are also available on request



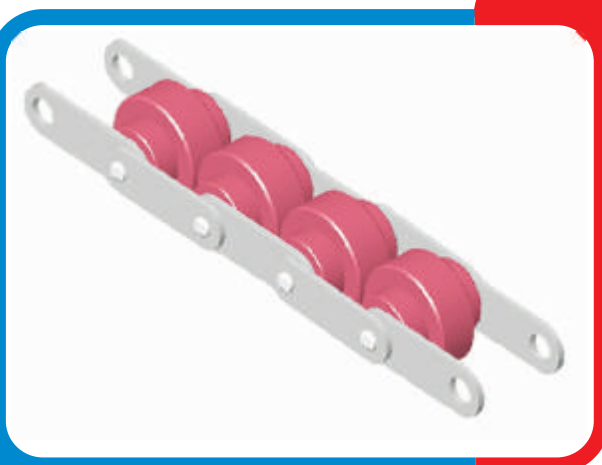
ACCUMULATOR CHAINS

SIDE ROLLER CHAINS

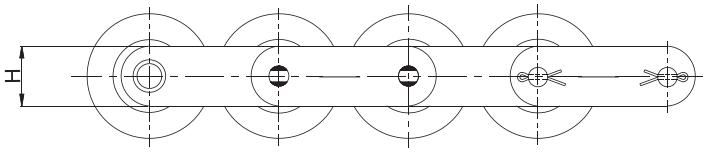


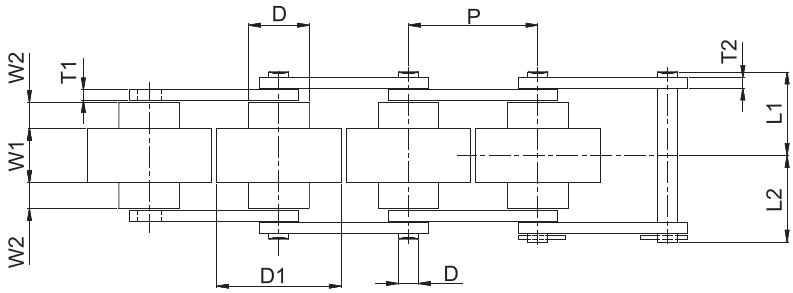
AMERICAN SERIES

Intl Ref No.	DIAMOND Chain No.	Pitch (P)	Width between Inner plates (W) (Min)	Roller Dia (D) (Max)	Plate		Pin				Outboard Roller		Material	
					(T)	(H)	(d)	(L1)	(L2)	(L3)	(D1)	(B1)	Steel	Plastic
C2040	A 08A01 SR01	25.40	7.85	7.94	1.50	11.66	3.96	9.65	17.90	19.30	15.88	7.80	✓	✓
C2050	A 10201 SR01	31.75	9.40	10.16	2.00	14.58	5.08	11.90	21.60	23.20	19.05	9.40	✓	✓
C2060	A 12101 SR01	38.10	12.58	11.91	2.39	18.06	5.94	16.95	29.65	32.05	22.23	12.60	✓	✓
C2080	A 16101 SR01	50.80	15.75	15.88	4.00	24.05	7.92	20.95	36.65	39.65	28.58	15.80	✓	✓
C2100	A 20101 SR01	63.50	18.90	19.05	4.70	29.26	9.53	24.50	44.20	47.30	39.69	19.00	✓	✓



DOUBLE PLUS CHAINS

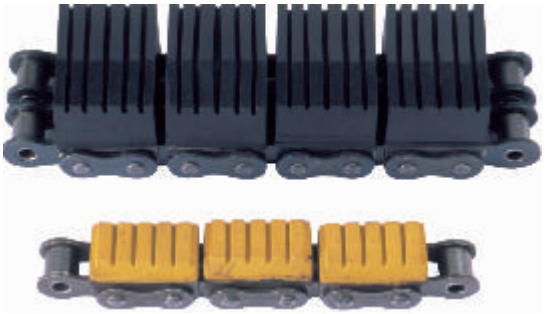


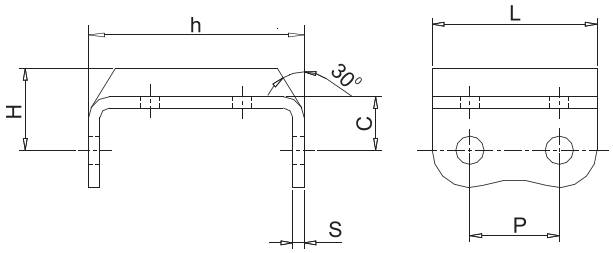


Intl Ref. No.	DIAMOND Chain No.	Pitch (P)	(D)	(D1)	(W1)	(W2)	(T1)	(T2)	(H)	(D)	(L1)	(L2)	Avg. Weight Per Metre (Kg)
C2040	A08A01 DP 01	25.40	15.88	24.60	10.30	5.70	1.50	1.50	11.66	3.97	15.30	16.50	1.00
C2050	A10201 DP 01	31.75	19.05	30.60	13.00	7.10	2.00	2.00	14.58	5.09	19.15	19.85	1.40
C2060 H	A12Z 01 00 05	38.10	22.23	36.60	15.50	8.50	3.15	3.15	18.06	5.94	24.50	26.40	2.40

Note: Rollers are made of plastic/steel material

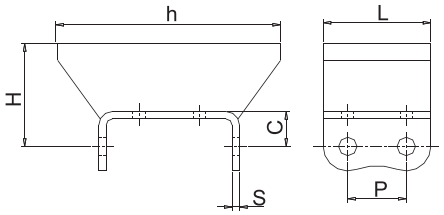
RUBBER TOP CHAINS



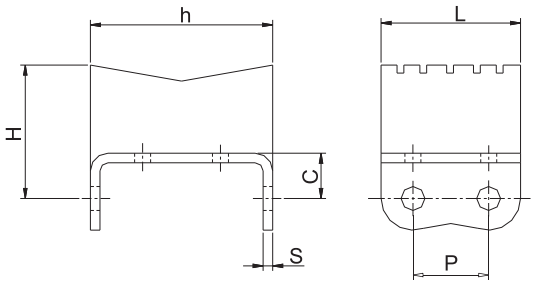


TYPE A

* These chains are designed to face special needs in wood, tile, glass, carton printing, PVC tube extrusion industries.
* The rubber attachment can be supplied with precision single or duplex roller chains
* Special Profiles can be made on request



TYPE B



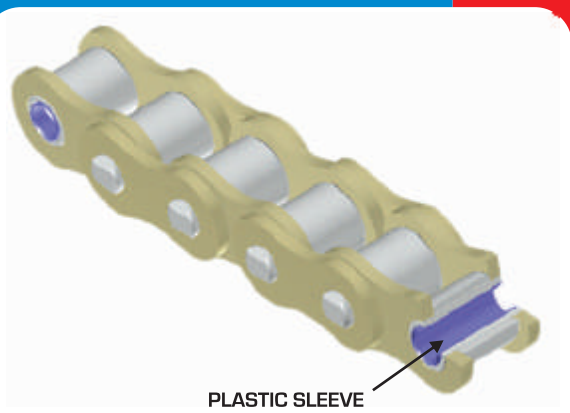
TYPE C

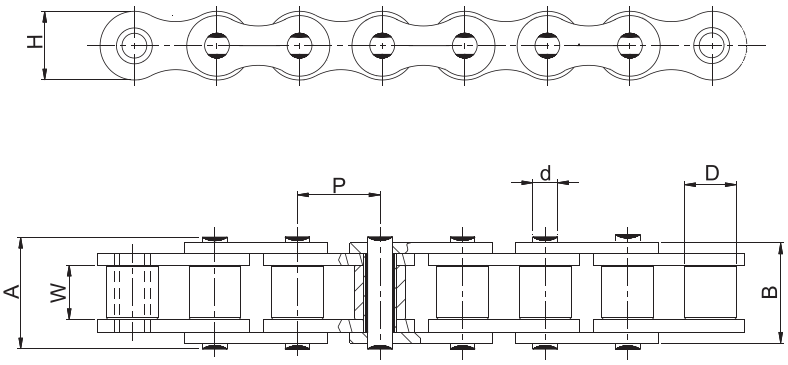
Grade	Natural Rubber	Nitrile Rubber	Neoprene Rubber
SHORE HARDNESS (A)	65+/-5	65+/-5	65+/-5
TEMPERATURE RANGE	- 10 to + 70 deg c	- 10 to + 120 deg c	- 10 to + 80 deg c
RESISTANCE TO OIL/GREASE	POOR	EXCELLENT	FAIR
OZONE / UV RESISTANCE	POOR	FAIR	EXCELLENT

Intl Ref. No.	DIAMOND chain No.	Type	Pitch (P)	Width Over Bearing Pin (A)	C	H	h	L	S	Tensile Strength (Kgf) (Min)
08B-1	D08301RT01	A	12.70	17.80	8.30	12.30	14.72	24.00	1.50	1840
80-1	D16101RT01	A	25.40	38.00	18.30	23.00	27.50	49.40	3.15	5780
08B-2	D08302RT01	B	12.70	33.90	9.50	18.30	44.00	24.00	1.50	3270
08B-2	D08302RT02	A	12.70	33.90	9.50	12.50	28.50	24.00	1.50	3270
60-2	D12102RT01	C	19.05	53.00	11.80	33.80	45.56	34.87	2.00	6490

SELF LUBE CHAINS

PLASTIC SLEEVE CHAINS





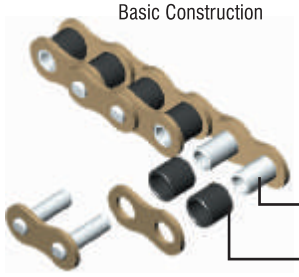
DIAMOND Base Chain No.	Pitch (P)	Width between Inner Plates (W) (Min)	Roller Dia (D) (Max)	Plate Width (H) (Max)	Bearing Pin Dia (D) (Max)	Width Over Bearing Pin (A) (Max)	Width Over Joint Fasteners (B) (Max)	Trans-verse Pitch (P1)	Projected Bearing Area Sq.cm	Avg. Weight Per Metre (Kg)	Tensile Strength Kgf (Min)
E08301ZPB01*	25.40	7.75	8.51	11.80	4.45	17.00	20.90	-	0.50	0.47	1400
D12Y01PB01	19.05	12.57	11.91	18.00	5.94	26.90	31.50	-	1.04	1.52	3180
D12Y02PB01	19.05	12.57	11.91	18.00	5.94	49.70	54.40	22.78	2.08	3.01	6360

* Double Pitch Zinc Plated Chains

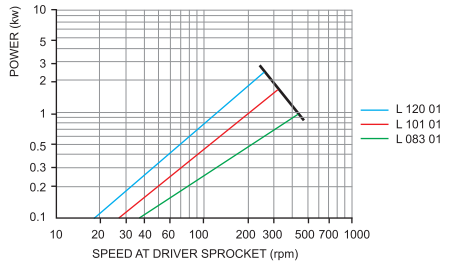
SINTERED BUSH CHAINS

These chains are designed for clean environment applications where greasing is often not possible: like food processing, printing and pharmaceuticals. The bush has a unique powder alloy steel composition, that allows it to be impregnated with a special oil. Offers a wear-life up to two times in excess of standard chains.

Basic Construction



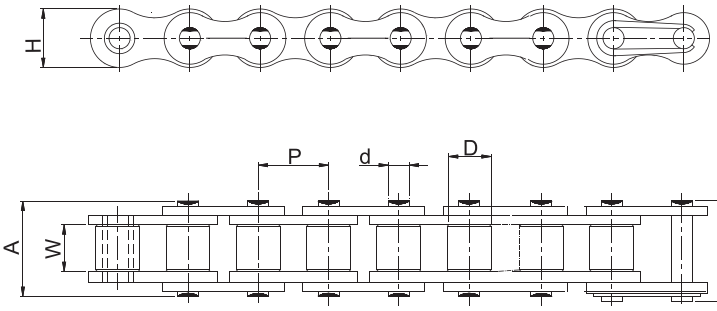
Selection Chart



* For 19 Teeth sprocket

SELF LUBE CHAINS

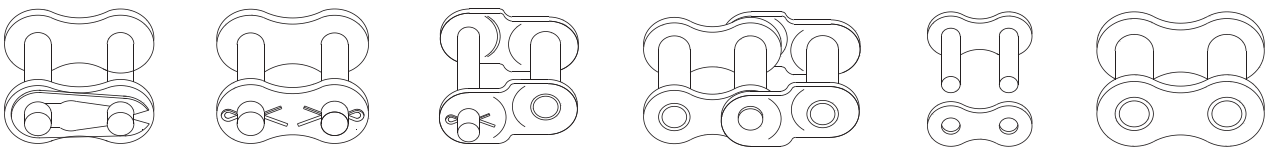
DIAMOND MAX SINTERED BUSH CHAINS



DIAMOND MAX sintered bush chains are recommended for applications where lubrication is often not possible like food processing, printing, pharmaceuticals and electronics.

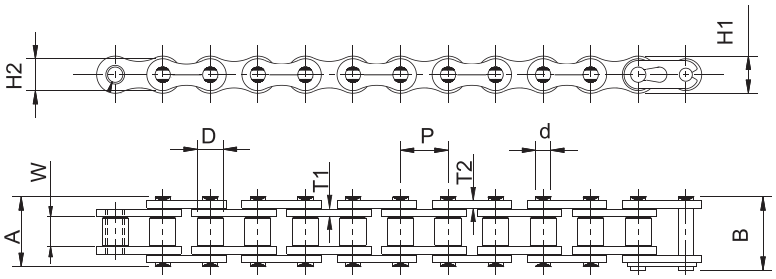
Intl Ref. No.	DIAMOND Chain No.	Pitch (P)	Width between Inner Plates (W) (Min)	Roller Dia D (Max)	Plate Height H (Max)	Width Over Bearing Pin (A) (Max)	Bearing Pin Dia (d) (Max)	Width Over Joint Fasteners (B) (Max)	Projected Bearing Area Sq.cm	Avg. Weight Per Metre (Kg)	Tensile Strength (Kgf) (Min)
08B-1	L083 01	12.70	7.75	8.51	12.40	17.00	4.45	20.90	0.50	0.70	1840
10B-1	L101 01	15.875	9.65	10.16	14.70	19.60	5.08	23.70	0.69	0.88	2290
12B-1	L120 01	19.05	11.68	12.07	16.10	22.70	5.72	27.30	0.92	1.10	2960

A B C D E F



Note : Spares are available for all models

"O" RING CHAINS



Diamond 'O' ring chains with unique design are engineered to offer superior resistance to wear.

AUTOMOTIVE 'O' RING CHAINS

Intl. Ref. No.	DIAMOND Chain No.	Pitch (P)	Width between Inner Plates (W) (Min)	Roller Diameter (D) (Max)	IP Height (H1) (Max)	OP Height (H2) (Max)	IP Thickness (T1) (Max)	OP Thickness (T2) (Max)	Width Over Bearing Pin (A) (Max)	Bearing Pin Diameter (d) (Max)	Width Over Joint Fasteners (B) (Max)	Average Weight Per Metre (Kg)	Tensile Strength (Kgf) (Min)
J415 OR	D 087 01	12.70	5.15	7.75	10.57	10.57	1.37	1.37	15.10	4.07	16.24	0.476	1300
J428 OR	D 089 01	12.70	7.95	8.51	11.56	10.57	1.58	1.50	19.00	4.50	20.30	0.693	1845
J520 OR	D 105 01	15.875	6.35	10.16	14.48	13.51	2.00	2.00	20.57	5.07	22.04	0.944	2500

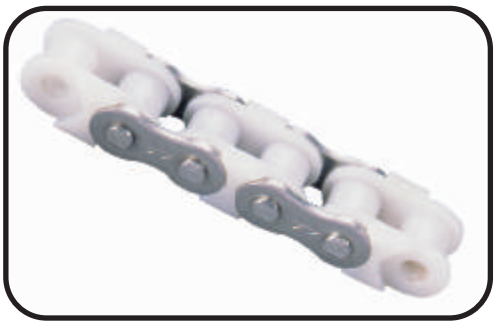
OTHER 'O' RING CHAINS

Intl. Ref. No.	DIAMOND Chain No.	Pitch (P)	Width between Inner Plates (W) (Min)	Roller Diameter (D) (Max)	IP Height (H1) (Max)	OP Height (H2) (Max)	IP Thickness (T1) (Max)	OP Thickness (T2) (Max)	Width Over Bearing Pin (A) (Max)	Bearing Pin Diameter (d) (Max)	Width Over Joint Fasteners (B) (Max)	Average Weight Per Metre (Kg)	Tensile Strength (Kgf) (Min)
08B OR	D 083 01	12.70	7.75	8.51	11.56	10.57	1.58	1.50	19.00	4.45	20.30	0.693	1845
10B OR	D 101 01	15.875	9.65	10.16	14.48	13.51	1.58	1.58	21.94	5.06	23.53	0.921	2265

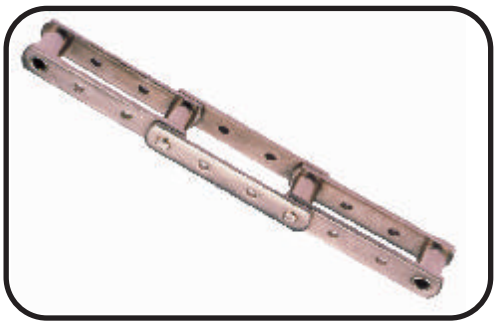
WORK STANDARD SPECIAL CHAINS

MATCH INDUSTRY

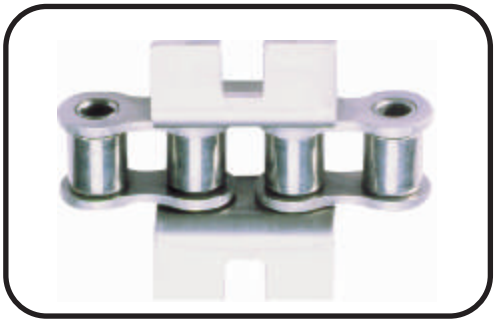
HOLLOW PIN CHAIN SPECIAL CONTOUR



FOOD PROCESSING INDUSTRY



LIGHTING INDUSTRY



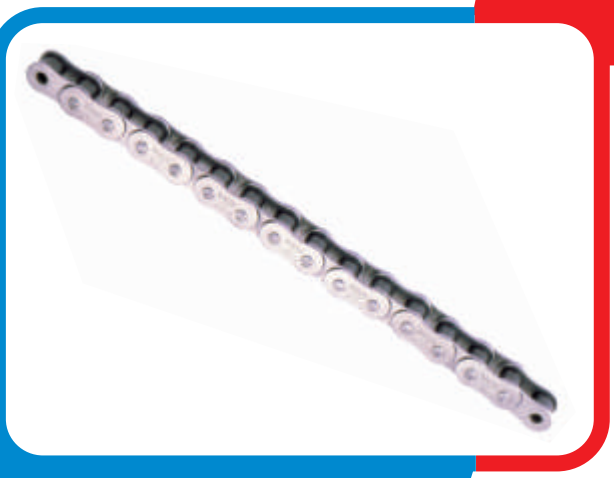
STAINLESS STEEL ATTACHMENT

STAINLESS STEEL LEAF CHAIN

DIAMOND INDIA RELIABILITY

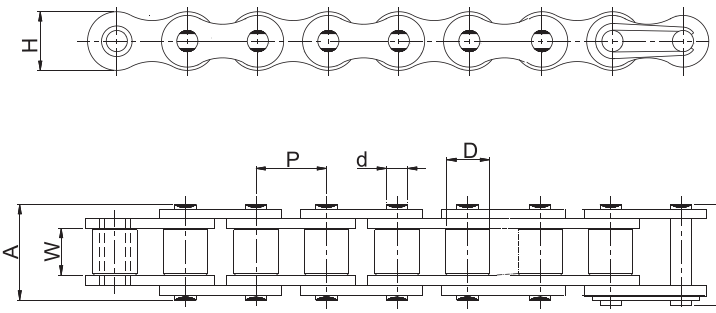
CORROSION RESISTANT CHAINS

CORROSION RESISTANT CHAINS



CORROSION RESISTANT CHAINS

STAINLESS STEEL CHAINS - EUROPEAN SERIES



Stainless steel (SS 304) chains with solid rollers are designed to offer excellent corrosion resistance and are used in atmosphere where chains are exposed to chemical, water and heat.They can operate in a temperature range of -20 deg c to 400 deg c

SINGLE STRAND

Intl Ref. No.	Diamond Chain No.	Pitch (P)	Width between Inner Plates (W) (Min)	Roller Dia (D) (Max)	Plate Height (H) (Max)	Bearing Pin Dia (D) (Max)	Width Over Bearing Pin (A) (Max)	Width Over Joint Fasteners (B) (Max)	Transverse Pitch (P1)	Projected Bearing Area (Sq.cm)	Avg. Weight Per Metre (Kg)	Tensile Strength (Kgf) (Min)
05B-1	D05B01SS01	8.00	3.00	5.00	7.10	2.31	8.60	11.70	-	0.11	0.39	300
06B-1*	D06101SS01	9.525	5.72	6.35	8.20	3.28	13.50	16.80	-	0.28	0.44	650
08B-1	D08301SS01	12.70	7.75	8.51	11.80	4.45	17.00	20.90	-	0.50	0.70	1200
10B-1	D10101SS01	15.875	9.65	10.16	14.70	5.08	19.60	23.70	-	0.67	0.92	1450
12B-1	D12001SS01	19.05	11.68	12.07	16.10	5.72	22.70	27.30	-	0.88	1.12	1700
16B-1	D16001SS01	25.40	17.02	15.88	21.00	8.27	36.10	41.50	-	2.07	2.59	4000

DOUBLE STRAND

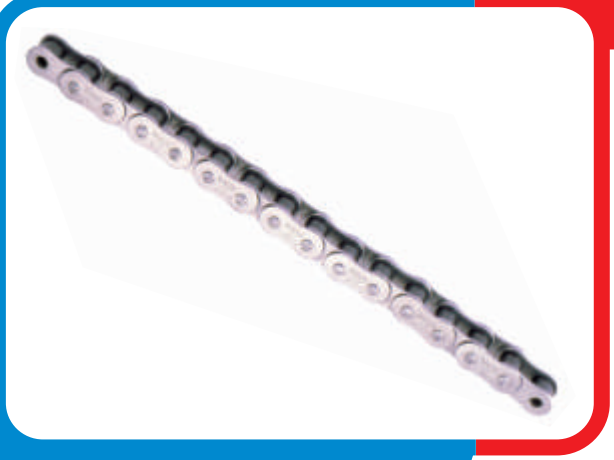
06B-2*	D06102SS01	9.525	5.72	6.35	8.20	3.28	23.80	27.10	10.24	0.56	0.74	1000
08B-2	D08302SS01	12.70	7.75	8.51	11.80	4.45	31.00	34.90	13.92	1.00	1.40	2160
10B-2	D10102SS01	15.875	9.65	10.16	14.70	5.08	36.20	40.30	16.59	1.34	3.00	2900
12B-2	D12002SS01	19.05	11.68	12.07	16.10	5.72	42.20	46.80	19.46	1.76	2.21	3800
16B-2	D16002SS01	25.40	17.02	15.88	21.00	8.27	68.00	73.40	31.88	4.14	5.08	7590

TRIPLE STRAND

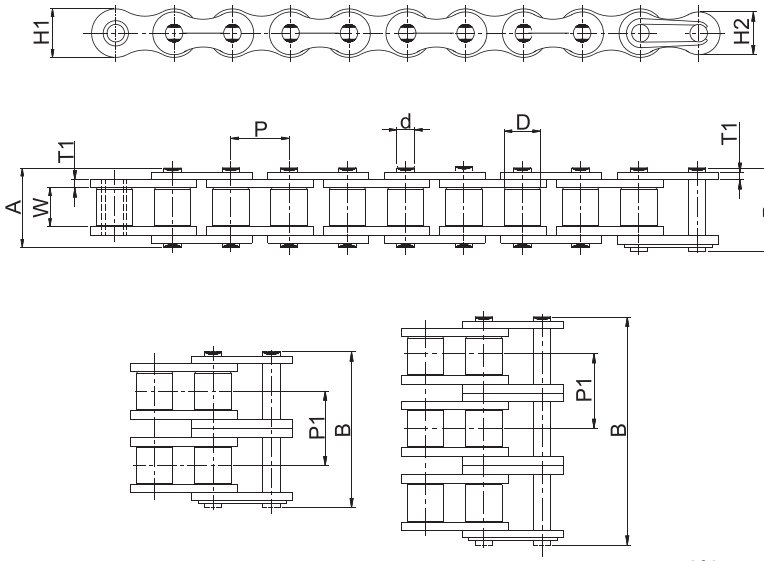
06B-3*	D06103SS01	9.525	5.72	6.35	8.20	3.28	34.00	37.30	10.24	0.84	1.11	1820
08B-3	D08303SS01	12.70	7.75	8.51	11.80	4.45	44.90	48.80	13.92	1.00	1.31	3600
10B-3	D10103SS01	15.875	9.65	10.16	14.70	5.08	52.80	56.90	16.59	1.34	1.79	4300
12B-3	D12003SS01	19.05	11.68	12.07	16.10	5.72	61.70	66.30	19.46	1.76	2.22	5100
16B-3	D16003SS01	25.40	17.02	15.88	21.00	8.27	99.90	105.30	31.88	4.14	5.03	11900

* Straight Contour

Note : Straight side Plate Stainless Steel Chains are also available.
Spares available for all models.



STAINLESS STEEL CHAINS - AMERICAN SERIES



SINGLE STRAND

Intl Ref. No.	Diamond Chain No.	Pitch (P)	Width Between Inner Plates (W) (Min)	Roller Dia (D) (Max)	Plate Height IP H1 (Max)	Plate Height OP H2 (Max)	Plate Thickness IP T1	Plate Thickness OP T2	Bearing Pin Dia (d) (Max)	Width Over Bearing Pin (A) (Max)	Width Over Joining Fasteners (B) (Max)	Transverse Pitch (P1)	Projected Bearing Area (Sq.cm)	Avg. Weight Per Metre (Kg)	Tensile Strength (Kgf) (Min)
35-1	B 06A 01 SS 01	9.525	4.68	5.08	8.65	7.48	1.25	1.25	3.59	12.18	13.18	-	0.27	0.33	570
40-1	D 08A 01 SS 01	12.70	7.85	7.92	12.00	10.40	1.50	1.50	3.96	17.80	21.80	-	0.44	0.63	1045
50-1	D 102 01 SS 01	15.875	9.40	10.16	15.00	13.00	2.00	2.00	5.08	21.80	25.90	-	0.71	1.04	1710
60-1	D 121 01 SS 01	19.05	12.58	11.91	18.00	16.60	2.40	2.40	5.94	26.90	31.50	-	1.04	1.53	2280
80-1	D 161 01 SS 01	25.40	15.75	15.88	24.10	20.80	3.00	3.00	7.92	33.50	38.90	-	1.77	2.59	3700

DOUBLE STRAND

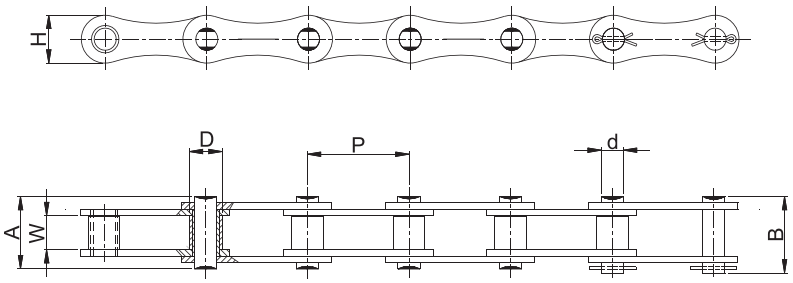
40-2	D 08A 02 SS 01	12.70	7.85	7.92	12.00	10.40	1.50	1.50	3.96	32.30	36.20	14.38	0.88	1.25	2090
50-2	D 102 02 SS 01	15.875	9.40	10.16	15.00	13.00	2.00	2.00	5.08	37.90	44.00	18.11	1.42	2.05	3420
60-2	D 121 02 SS 01	19.05	12.58	11.91	18.00	16.60	2.40	2.40	5.94	49.80	54.40	22.78	2.08	3.01	4560
80-2	D 161 02 SS 01	25.40	15.75	15.88	24.10	20.80	3.00	3.00	7.92	62.70	68.10	29.29	3.54	4.17	7400

TRIPLE STRAND

40-3	D 08A 03 SS 01	12.70	7.85	7.92	12.00	10.40	1.50	1.50	3.96	45.30	49.20	14.38	1.32	1.90	3300
50-3	D 102 03 SS 01	15.875	9.40	10.16	15.00	13.00	2.00	2.00	5.08	56.80	60.90	18.11	2.13	3.12	5200
60-3	D 121 03 SS 01	19.05	12.58	11.91	18.00	16.60	2.40	2.40	5.94	72.60	77.20	22.78	3.12	4.58	7500
80-3	D 161 03 SS 01	25.40	15.75	15.88	24.10	20.80	3.00	3.00	7.92	91.90	97.10	29.29	5.31	6.04	12500

Note: Spares available for all models.

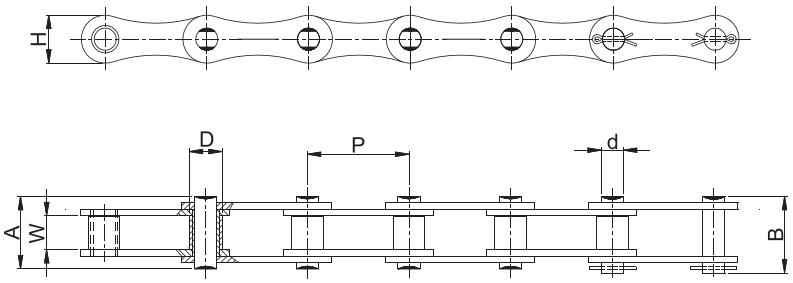
STAINLESS STEEL CHAINS DOUBLE PITCH - EUROPEAN SERIES



Intl. Ref. No.	Diamond Chain No.	Pitch (P)	Width between Inner Plates (W) (Min)	Roller Dia (D) (Max)	Plate Height (H) (Max)	Bearing Pin Dia (d) (Max)	Width Over Bearing Pin (A) (Max)	Width Over Joint Fasteners (B) (Max)	Avg. Weight Per Metre (Kg)	Tensile Strength (Kgf) (Min)
208B-SS	E08301SS01	25.40	7.75	8.51	11.66	4.45	17.00	20.90	0.48	1200
210B-SS	E10101SS01	31.75	9.65	10.16	13.90	5.08	19.60	23.70	0.69	1450
212B-SS	E12001SS01	38.10	11.68	12.01	15.30	5.72	22.70	27.30	0.72	1700
216B-SS	E16001SS01	50.80	17.02	15.88	20.65	8.27	36.10	41.50	1.30	4000

Note: Spares available for all models.

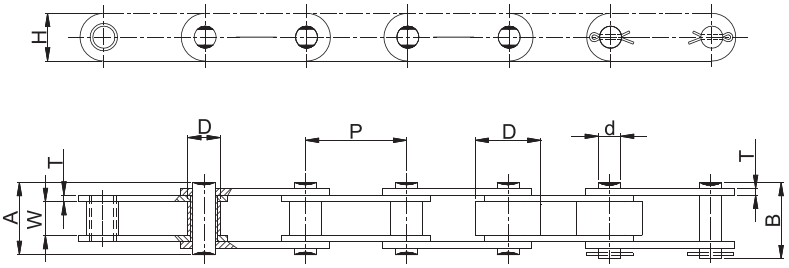
STAINLESS STEEL CHAINS DOUBLE PITCH - AMERICAN SERIES



Intl Ref. No.	Diamond Chain No.	Pitch (P)	Width between Inner Plates (W) (Min)	Roller Dia (D) (Max)	Plate Height (H) (Max)	Bearing Pin Dia (d) (Max)	Width Over Bearing Pin (A) (Max)	Width Over Joint Fasteners (B) (Max)	Avg. Weight Per Metre (kg)	Tensile Strength (Kgf) (Min)
A 2040	E08A 01SS 01	25.40	7.85	7.92	11.66	3.96	17.80	21.80	0.41	1045
A 2050	E102 01 SS 01	31.75	9.40	10.16	13.90	5.08	21.80	25.90	0.66	1710
A 2060	E121 01 SS 01	38.10	12.58	11.91	18.18	5.94	26.90	31.50	1.03	2280
A 2080	E161 01 SS 01	50.80	15.75	15.88	24.10	7.92	33.50	38.90	1.62	3700

Note : Spares available for all models

STAINLESS STEEL CHAINS DOUBLE PITCH AMERICAN SERIES - CONVEYOR



Intl Ref. No.	Diamond Chain No.	Pitch (P)	Width between Inner Plates (W) (Min)	Roller Dia (D) (Max)	Plate Height (H) (Max)	Plate Thickness (T)	Bearing Pin Dia (D) (Max)	Width Over Bearing Pin (A) (Max)	Width Over Joint Fasteners (B) (Max)	Projected Bearing Area (Sq.cm)	Avg. Weight Per Metre (Kg)	Tensile Strength (Kgf) (Min)
C 2040	A 08A 01 SS 01	25.40	7.85	7.92	11.66	1.50	3.96	17.80	21.80	0.44	0.48	1045
C2042	A 08A 02 SS 01			15.88							0.82	
C2050	A 102 01 SS 01	31.75	9.40	10.16	14.58	2.00	5.08	20.80	25.90	0.71	0.82	1710
C2052	A 102 02 SS 01			19.05							1.26	
C2060	A 121 01 SS 01	38.10	12.58	11.91	18.06	2.40	5.94	26.90	31.50	1.04	1.03	2280
C2062	A 121 02 SS 01			22.22							1.47	
C2080	A 161 01 SS 01	50.80	15.75	15.88	24.05	3.00	7.92	33.50	38.90	1.77	2.00	3700
C2082	A 161 02 SS 01			28.58							3.03	

Note: Spares available for all models.

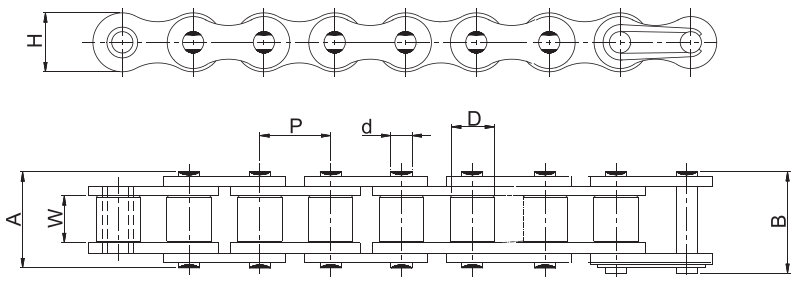
ZAC CHAINS

ZAC chains are built to provide outstanding corrosion resistance, with the same strength and breaking load values of standard chains. A special coating fights corrosion in the most aggressive environments. ZAC chain superiority has been proven against Nickel, Zinc and other plated chains.

0 Hours		100 Hours
	Nickel	
	Zinc Blue	
	Zinc Yellow	
	Stainless Steel	
	ZAC	

150 Hours		250 Hours
	Nickel	
	Zinc Blue	
	Zinc Yellow	
	Stainless Steel	
	ZAC	

PLATED CHAINS - EUROPEAN SERIES



Nickel Plated Chains : These chains are ideal for use in light corrosive atmosphere or where good appearance is required.

Zinc Plated Chains : These chains are used in corrosive atmosphere and outdoor applications.

ZAC Chains : Excellent corrosion resistance with same strength and breaking load values as standard chains.
The chains are designed to withstand a minimum of 250 hrs of salt spray testing as per ASTM B 117.

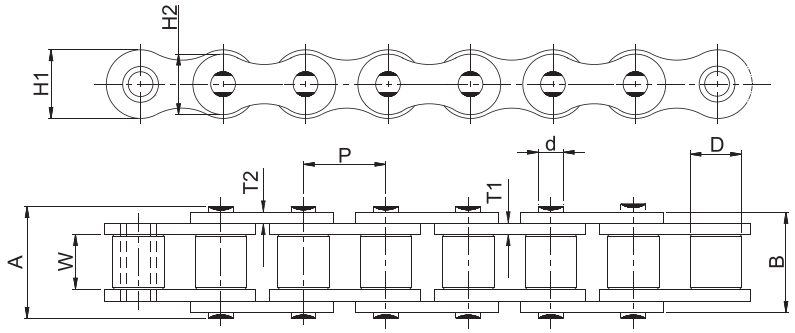
Intl Ref. No.	Pitch (P)	Width between Inner Plates (W) (Min)	Roller Dia (D) (Max)	Plate Height (H) (Max)	Bearing Pin Dia (d) (Max)	Width Over Bearing Pin (A) (Max)	Width Over Joint Fasteners (B) (Max)	Projected Bearing Area (Sq.cm)	Avg. Weight Per Metre (kg)	Tensile Strength (Kgf) (Min)		
										NP	ZP	ZAC
04B-1	6.00	2.80	4.00	5.00	1.85	7.40	10.30	0.08	0.12	300	260	300
05B-1	8.00	3.00	5.00	7.10	2.31	8.60	11.70	0.11	0.18	510	430	510
06B-1*	9.525	5.72	6.35	8.20	3.28	13.50	16.80	0.28	0.40	920	780	920
08B-1	12.70	7.75	8.51	11.80	4.45	17.00	20.90	0.50	0.68	1840	1560	1840
10B-1	15.875	9.65	10.16	14.70	5.08	19.60	23.70	0.67	0.91	2290	1940	2290
12B-1	19.05	11.68	12.07	16.10	5.72	22.70	27.30	0.88	1.12	2960	2510	2960
16B-1	25.40	17.02	15.88	21.00	8.27	36.10	41.50	2.07	2.59	6120	5200	6120

* Straight Sided Plate

Note:
NP - Nickel Plated
ZP - Zinc Plated
ZAC - Special Coating For High Corrosion Resistance

Also available with straight side plates and in Double, Triple strands.

PLATED CHAINS - AMERICAN SERIES



Nickel Plated Chains : These chains are ideal for use in light corrosive atmosphere or where good appearance is required.

Zinc Plated Chains : These chains are used in corrosive atmosphere and outdoor applications.

ZAC Chains : Excellent corrosion resistance with same strength and breaking load values as standard chains. The chains are designed to withstand a minimum of 250 hrs of salt spray testing as per ASTM B 117.

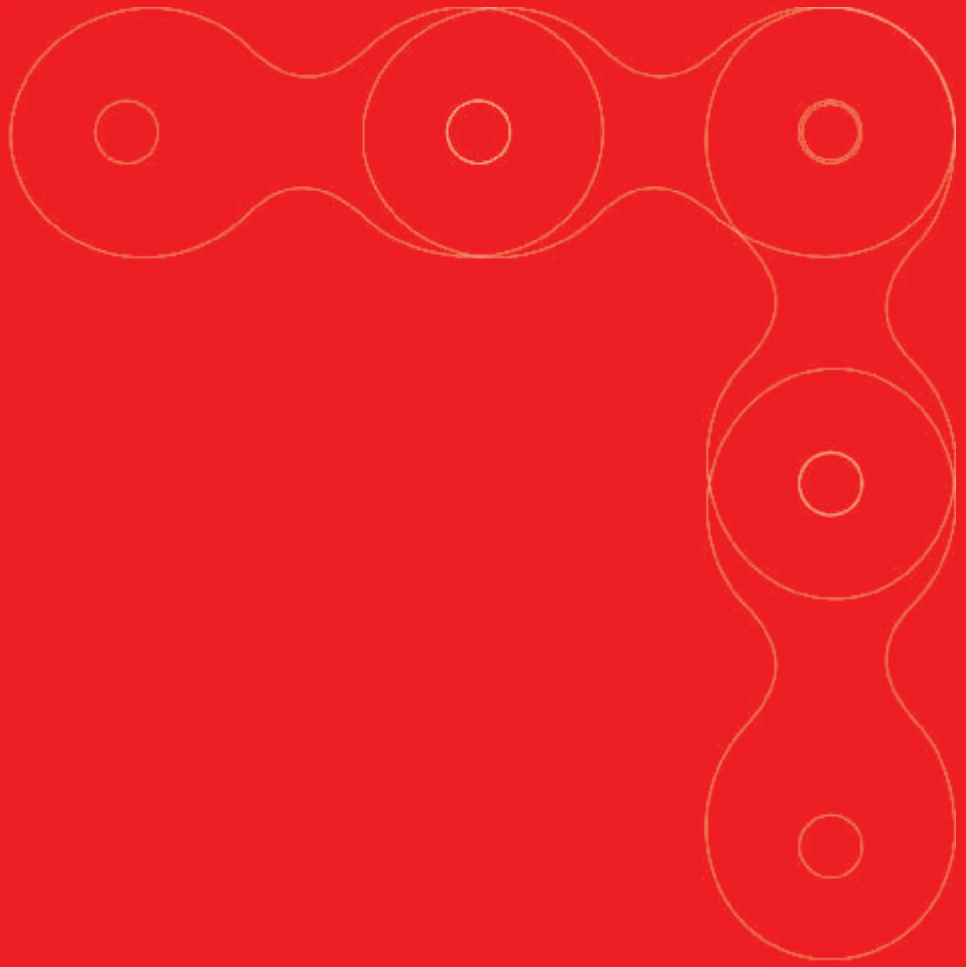
Intl Ref. No.	Pitch (P)	Width between Inner Plates (W) (Min)	Roller Dia (D) (Max)	Plate Height		Plate Thickness		Bearing Pin Dia (d) (Max)	Width Over Bearing Pin (A) (Max)	Width Over Joint Fasteners (B) (Max)	Projected Bearing Area (Sq.cm)	Avg. Weight Per Metre (kg)	Tensile Strength (Kgf) (Min)		
				IP (H1) (Max)	OP (H2) (Max)	IP (T1)	OP (T2)						NP	ZP	ZAC
25-1	6.35	3.18	3.30	5.80	5.25	0.75	0.75	2.31	7.80	9.60	0.11	0.13	360	300	360
35-1	9.525	4.68	5.08	8.65	7.48	1.25	1.25	3.59	12.18	13.18	0.27	0.34	800	670	800
40-1	12.70	7.85	7.92	12.00	10.41	1.50	1.50	3.96	17.80	21.70	0.44	0.63	1440	1220	1440
41-1	12.70	6.30	7.80	9.60	8.30	1.30	1.30	3.60	14.80	18.70	0.30	0.40	680	570	680
50-1	15.875	9.40	10.16	15.00	13.00	2.00	2.00	5.08	21.80	25.90	0.71	1.04	2270	1920	2270
60-1	19.05	12.58	11.91	18.00	16.60	2.39	2.39	5.94	26.90	31.50	1.04	1.52	3240	2750	3240
80-1	25.40	15.75	15.88	24.10	20.80	3.15	3.15	7.92	33.50	38.90	1.77	3.08	5780	4910	5780

Note:
NP - Nickel Plated
ZP - Zinc Plated
ZAC - Special Coating For High Corrosion Resistance

Also available with straight side plates and in Double, Triple strands.

DIAMOND INDIA RELIABILITY

LEAF CHAINS

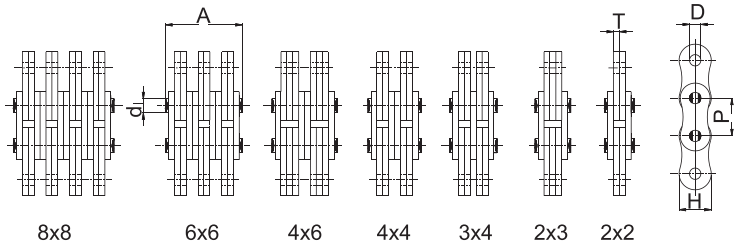


LEAF CHAINS

LEAF CHAINS

BL SERIES

ISO 4347/ DIN 8152/ANSI B29.8



The BL series leaf chains are designed for medium loads and greater shocks for applications in lift trucks, masts, construction and mining.

Intl. Ref. No.	DIAMOND Chain No.	Lacing Pattern	Pitch (P)	Pin Dia (d) (Max)	Plate Height (H) (Max)	Plate Thickness (T) (Max)	Hole Dia (D) (Min)	Width Over Bearing Pin (A) (Max)	Avg. Weight Per Metre (Kg)	Tensile Strength (Kgf) (Min)
BL 422	BL 08 22	2 x 2						11.00	0.59	2270
BL 423	BL 08 23	2 x 3						13.10	0.75	2270
BL 434	BL 08 34	3 x 4						17.40	1.03	3400
BL 444	BL 08 44	4 x 4	12.70	5.09	12.07	2.08	5.12	19.50	1.16	4540
BL 446	BL 08 46	4 x 6						23.75	1.47	4540
BL 466	BL 08 66	6 x 6						27.99	1.72	6800
BL 488	BL 08 88	8 x 8						36.40	2.29	9080
BL 522	BL 10 22	2 x 2						12.88	0.86	3400
BL 523	BL 10 23	2 x 3						15.30	1.09	3400
BL 534	BL 10 34	3 x 4						20.30	1.50	4990
BL 544	BL 10 44	4 x 4	15.875	5.96	15.09	2.44	5.98	22.70	1.68	6800
BL 546	BL 10 46	4 x 6						27.70	2.15	6800
BL 566	BL 10 66	6 x 6						32.10	2.51	10210
BL 588	BL 10 88	8 x 8						42.50	3.33	13600
BL 622	BL 12 22	2 x 2						17.30	1.39	4990
BL 623	BL 12 23	2 x 3						20.70	1.76	4990
BL 634	BL 12 34	3 x 4						27.40	2.43	7720
BL 644	BL 12 44	4 x 4	19.05	7.94	18.10	3.30	7.96	30.70	2.72	9980
BL 646	BL 12 46	4 x 6						37.40	3.46	9980
BL 666	BL 12 66	6 x 6						44.20	4.05	14970
BL 688	BL 12 88	8 x 8						57.60	5.38	19950

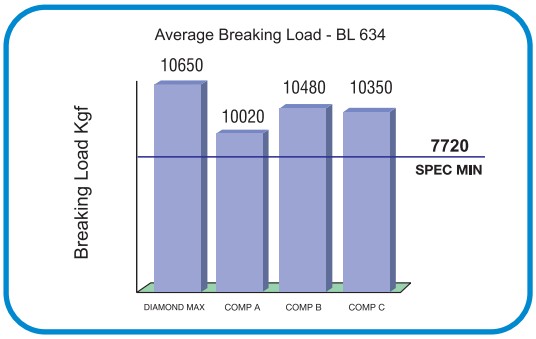
Intl. Ref. No.	DIAMOND Chain No.	Lacing Pattern	Pitch (P)	Pin Dia (d) (Max)	Plate Height (H) (Max)	Plate Thickness (T) (Max)	Hole Dia (D) (Min)	Width Over Bearing Pin (A) (Max)	Avg. Weight Per Metre (Kg)	Tensile Strength (Kgf) (Min)
BL 822	BL 16 22	2 x 2						21.30	2.43	8620
BL 823	BL 16 23	2 x 3						25.40	3.09	8620
BL 834	BL 16 34	3 x 4						33.70	4.26	13160
BL 844	BL 16 44	4 x 4	25.40	9.54	24.10	4.09	9.56	37.90	4.78	17240
BL 846	BL 16 46	4 x 6						46.10	6.10	17240
BL 866	BL 16 66	6 x 6						54.40	7.13	25860
BL 888	BL 16 88	8 x 8						71.00	9.47	34460
BL 1022	BL 20 22	2 x 2						25.30	3.41	11790
BL 1023	BL 20 23	2 x 3						30.30	4.23	11790
BL 1034	BL 20 34	3 x 4						40.20	5.85	18630
BL 1044	BL 20 44	4 x 4	31.75	11.11	30.18	4.90	11.14	45.10	6.69	23580
BL 1046	BL 20 46	4 x 6						55.00	8.29	23580
BL 1066	BL 20 66	6 x 6						65.00	9.92	35370
BL 1088	BL 20 88	8 x 8						84.80	13.92	47170
BL 1222	BL 24 22	2 x 2						29.60	5.00	15430
BL 1223	BL 24 23	2 x 3						35.40	6.22	15430
BL 1234	BL 24 34	3 x 4						47.00	8.62	24960
BL 1244	BL 24 44	4 x 4	38.10	12.71	36.20	5.77	12.74	52.80	9.84	30860
BL 1246	BL 24 46	4 x 6						64.50	12.26	30860
BL 1266	BL 24 66	6 x 6						76.10	14.50	46280
BL 1288	BL 24 88	8 x 8						99.40	19.54	61680
BL 1422	BL 28 22	2 x 2						33.50	6.32	19500
BL 1423	BL 28 23	2 x 3						40.10	7.91	19500
BL 1434	BL 28 34	3 x 4						53.30	11.10	32200
BL 1444	BL 28 44	4 x 4	44.45	14.29	42.20	6.55	14.31	59.50	12.62	39000
BL 1446	BL 28 46	4 x 6						73.10	16.69	39000
BL 1466	BL 28 66	6 x 6						86.30	20.00	58960
BL 1488	BL 28 88	8 x 8						112.30	25.28	78010
BL 1622	BL 32 22	2 x 2						39.00	8.72	29480
BL 1623	BL 32 23	2 x 3						46.50	12.68	29480
BL 1634	BL 32 34	3 x 4						61.70	15.09	44900
BL 1644	BL 32 44	4 x 4	50.80	17.46	48.26	7.52	17.49	69.20	17.81	58960
BL 1646	BL 32 46	4 x 6						84.40	21.46	58960
BL 1666	BL 32 66	6 x 6						99.50	25.71	88440
BL 1688	BL 32 88	8 x 8						129.80	39.89	117910

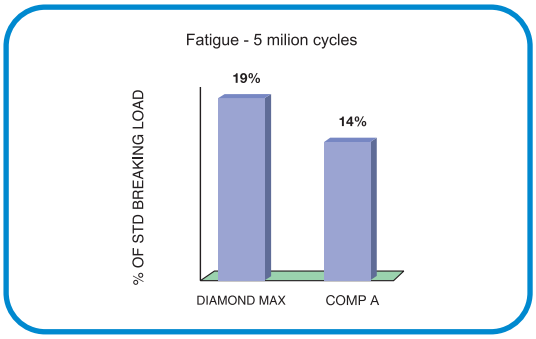
Intl. Ref. No.	DIAMOND Chain No.	Lacing Pattern	Pitch (P)	Pin Dia (d) (Max)	Plate Height (H) (Max)	Plate Thickness (T) (Max)	Hole Dia (D) (Min)	Width Over Bearing Pin (A) (Max)	Avg. Weight Per Metre (Kg)	Tensile Strength (Kgf) (Min)
BL 2022	BL 40 22	2 x 2						51.70	15.80	44200
BL 2023	BL 40 23	2 x 3						61.70	19.80	44200
BL 2034	BL 40 34	3 x 4						81.60	27.70	66300
BL 2044	BL 40 44	4 x 4	63.50	23.81	60.30	9.91	23.84	91.50	31.60	88400
BL 2046	BL 40 46	4 x 6						111.40	39.50	88400
BL 2066	BL 40 66	6 x 6						131.30	47.40	132600
BL 2088	BL 40 88	8 x 8						171.20	63.20	176900

Note : Connecting links & clevis pins are also available.

LEAF CHAINS

Superior plate geometry to withstand higher loads, superior hole preparation for better bearing contact with high tensile pins, just some of the characteristics that make these chains strong enough to exceed ISO, ANSI and other international specifications.

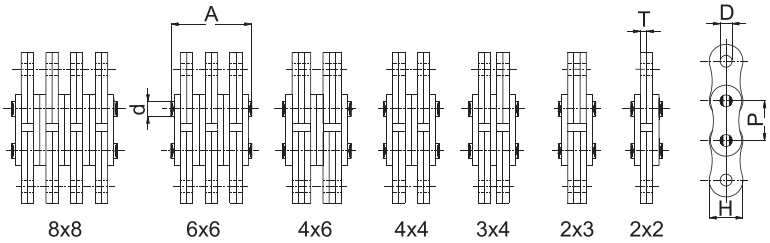




LEAF CHAINS

DIAMOND MAX - BL SERIES

ISO 4347
DIN 8152 / ANSI B29.8



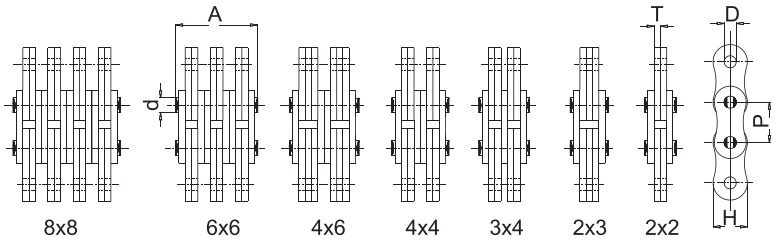
Intl. Ref. No.	DIAMOND MAX Chain No.	Lacing Pattern	Pitch (P)	Pin Dia (d) (Max)	Plate Height (H) (Max)	Plate Thickness (T) (Max)	Hole Dia (D) (Min)	Width Over Bearing Pin (A) (Max)	Avg. Weight Per Metre (Kg)	Diamond Max Tensile Strength (Kgf) (Min)
BL 422	Q - BL 08 22	2 x 2						11.00	0.67	2800
BL 423	Q - BL 08 23	2 x 3						13.10	0.77	2800
BL 434	Q - BL 08 34	3 x 4						17.40	1.07	4200
BL 444	Q - BL 08 44	4 x 4	12.70	5.09	12.07	2.08	5.12	19.50	1.21	5700
BL 446	Q - BL 08 46	4 x 6						23.75	1.51	5700
BL 466	Q - BL 08 66	6 x 6						27.99	1.81	8500
BL 488	Q - BL 08 88	8 x 8						36.40	2.41	11400
BL 522	Q - BL 10 22	2 x 2						12.88	0.90	4000
BL 523	Q - BL 10 23	2 x 3						15.30	1.11	4000
BL 534	Q - BL 10 34	3 x 4						20.30	1.53	6100
BL 544	Q - BL 10 44	4 x 4	15.875	5.96	15.09	2.44	5.98	22.70	1.75	8100
BL 546	Q - BL 10 46	4 x 6						27.70	2.17	8100
BL 566	Q - BL 10 66	6 x 6						32.10	2.60	12200
BL 588	Q - BL 10 88	8 x 8						42.50	3.44	16300
BL 622	Q - BL 12 22	2 x 2						17.30	1.47	7000
BL 623	Q - BL 12 23	2 x 3						20.70	1.81	7000
BL 634	Q - BL 12 34	3 x 4						27.40	2.50	10500
BL 644	Q - BL 12 44	4 x 4	19.05	7.94	18.10	3.30	7.96	30.70	2.85	14000
BL 646	Q - BL 12 46	4 x 6						37.40	3.55	14000
BL 666	Q - BL 12 66	6 x 6						44.20	4.29	21000
BL 688	Q - BL 12 88	8 x 8						57.60	5.63	28000

Intl. Ref. No.	DIAMOND MAX Chain No.	Lacing Pattern	Pitch (P)	Pin Dia (d) (Max)	Plate Height (H) (Max)	Plate Thickness (T) (Max)	Hole Dia (D) (Min)	Width Over Bearing Pin (A) (Max)	Avg. Weight Per Metre (Kg)	Diamond Max Tensile Strength (Kgf) (Min)
BL 822	Q - BL 16 22	2 x 2						21.30	2.50	11200
BL 823	Q - BL 16 23	2 x 3						25.40	3.10	11200
BL 834	Q - BL 16 34	3 x 4						33.70	4.30	16800
BL 844	Q - BL 16 44	4 x 4	25.40	9.54	24.10	4.09	9.56	37.90	4.90	22400
BL 846	Q - BL 16 46	4 x 6						46.10	6.09	22400
BL 866	Q - BL 16 66	6 x 6						54.40	7.29	33600
BL 888	Q - BL 16 88	8 x 8						71.00	9.69	44800

Note : Connecting links & clevis pins are also available

LEAF CHAINS

AL SERIES



The AL series of leaf chains are used for light duty applications with relatively constant, low loads.

DIAMOND Chain No.	Lacing Pattern	Pitch (P)	Pin Dia (d) (Max)	Plate Height (H) (Max)	Plate Thickness (T) (Max)	Hole Dia (D) (Min)	Width Over Bearing Pin (A) (Max)	Avg. Weight Per Metre (Kg)	Tensile Strength (Kgf) (Min)
AL 08 22	2 x 2						8.60	0.36	1410
AL 08 23	2 x 3						10.20	0.46	1410
AL 08 34	2 x 3						13.40	0.64	2115
AL 08 44	4 x 4	12.70	3.98	12.07	1.61	4.01	15.00	0.74	2820
AL 08 46	4 x 6						18.20	0.93	2820
AL 08 66	6 x 6						21.40	1.10	4230
AL 08 88	8 x 8						27.80	1.52	5640
AL 10 22	2 x 2						10.85	0.65	2700
AL 10 23	2 x 3						13.00	0.82	2700
AL 10 34	3 x 4						17.20	1.11	4050
AL 10 44	4 x 4	15.875	5.09	15.09	2.08	5.12	19.35	1.28	5400
AL 10 46	4 x 6						23.60	1.63	5400
AL 10 66	6 x 6						27.80	1.90	8100
AL 10 88	8 x 8						36.35	2.60	10800
AL 12 22	2 x 2						12.70	0.91	3180
AL 12 23	2 x 3						15.20	1.13	3180
AL 12 34	3 x 4						20.15	1.65	4770
AL 12 44	4 x 4	19.05	5.96	18.10	2.44	5.98	22.65	1.79	6360
AL 12 46	4 x 6						27.60	1.89	6360
AL 12 66	6 x 6						32.55	2.66	9540
AL 12 88	8 x 8						42.55	3.53	12720

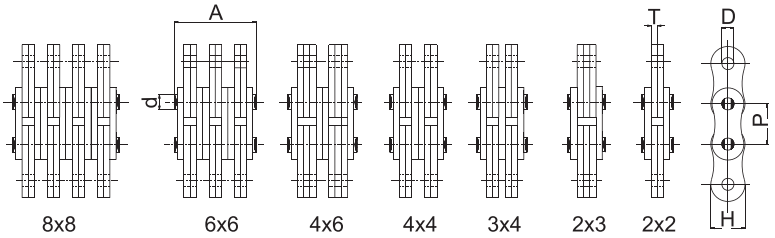
DIAMOND Chain No.	Lacing Pattern	Pitch (P)	Pin Dia (d) (Max)	Plate Height (H) (Max)	Plate Thickness (T) (Max)	Hole Dia (D) (Min)	Width Over Bearing Pin (A) (Max)	Avg. Weight Per Metre (Kg)	Tensile Strength (Kgf) (Min)
AL 16 22	2 x 2						16.60	1.45	5670
AL 16 23	2 x 3						19.75	1.85	5670
AL 16 34	3 x 4						26.05	2.57	8510
AL 16 44	4 x 4	25.40	7.94	24.10	3.30	7.96	29.30	2.85	11340
AL 16 46	4 x 6						35.50	3.65	11340
AL 16 66	6 x 6						41.90	4.24	17010
AL 16 88	8 x 8						54.70	5.80	22680
AL 20 22	2 x 2						21.30	2.31	9500
AL 20 23	2 x 3						25.50	2.97	9500
AL 20 34	3 x 4						33.70	4.13	14250
AL 20 44	4 x 4	31.75	9.54	30.18	4.09	9.56	37.90	4.54	19000
AL 20 46	4 x 6						46.10	5.86	19000
AL 20 66	6 x 6						54.40	6.77	28500
AL 20 88	8 x 8						72.00	9.24	36100
AL 24 22	2 x 2						24.15	3.42	13560
AL 24 23	2 x 3						28.90	4.52	13560
AL 24 34	3 x 4						38.40	5.91	20340
AL 24 44	4 x 4	38.10	11.11	36.20	4.90	11.14	43.15	6.74	27120
AL 24 46	4 x 6						52.65	8.40	27120
AL 24 66	6 x 6						64.37	9.71	40680
AL 28 22	2 x 2						28.90	4.79	17740
AL 28 23	2 x 3						34.70	5.95	17740
AL 28 34	3 x 4						46.40	8.28	29610
AL 28 44	4 x 4	44.45	12.71	36.20	5.77	12.74	52.20	9.45	35480
AL 28 46	4 x 6						63.85	11.78	35480
AL 28 66	6 x 6						75.50	14.11	53220
AL 32 22	2 x 2						32.40	6.00	23000
AL 32 23	2 x 3						39.00	7.56	23000
AL 32 34	3 x 4						52.25	10.53	33000
AL 32 44	4 x 4	50.80	14.29	42.20	6.55	14.31	58.90	11.95	46000
AL 32 46	4 x 6						72.10	14.98	46000
AL 32 66	6 x 6						85.35	17.95	69000

Note : Connecting links & clevis pins are also available.

LEAF CHAINS

LL STANDARD SERIES

ISO 4347



The LL series leaf chains are derived from European series chains and used in various lifting applications including lift trucks, masts and counter weights.

Intl. Ref. No.	DIAMOND Chain No.	Lacing Pattern	Pitch (P)	Pin Dia (D) (Max)	Plate Height (H) (Max)	Plate Thickness (T) (Max)	Hole Dia (D) (Min)	Width Over Bearing Pin (A) (Max)	Avg. Weight Per Metre (Kg)	Tensile Strength (Kgf) (Min)
LL 08 22	LL 08 22	2 x 2						7.60	0.36	1810
LL 08 23	LL 08 23	2 x 3						8.95	0.42	1810
LL 08 34	LL 08 34	3 x 4						11.65	0.58	2370
LL 08 44	LL 08 44	4 x 4	12.70	4.45	10.90	1.30	4.46	13.00	0.67	3170
LL 08 46	LL 08 46	4 x 6						15.70	0.82	3170
LL 08 66	LL 08 66	6 x 6						1840	0.97	4540
LL 08 88	LL 08 88	8 x 8						23.80	1.34	6050
LL 10 22	LL 10 22	2 x 2						9.30	0.31	2220
LL 10 23	LL 10 23	2 x 3						11.00	0.37	2220
LL 10 34	LL 10 34	3 x 4						14.40	0.53	3400
LL 10 44	LL 10 44	4 x 4	15.875	5.08	13.70	1.65	5.09	16.10	0.60	4450
LL 10 46	LL 10 46	4 x 6						19.50	0.75	4540
LL 10 66	LL 10 66	6 x 6						22.90	0.89	6670
LL 10 88	LL 10 88	8 x 8						29.70	1.20	9080
LL 12 22	LL 12 22	2 x 2						10.70	0.35	2890
LL 12 23	LL 12 23	2 x 3						12.65	0.43	2890
LL 12 34	LL 12 34	3 x 4						16.55	0.58	4425
LL 12 44	LL 12 44	4 x 4	19.05	5.72	16.10	1.90	5.73	18.50	0.66	5780
LL 12 46	LL 12 46	4 x 6						22.40	0.82	5900
LL 12 66	LL 12 66	6 x 6						26.30	0.98	8670
LL 12 88	LL 12 88	8 x 8						34.10	1.30	11800

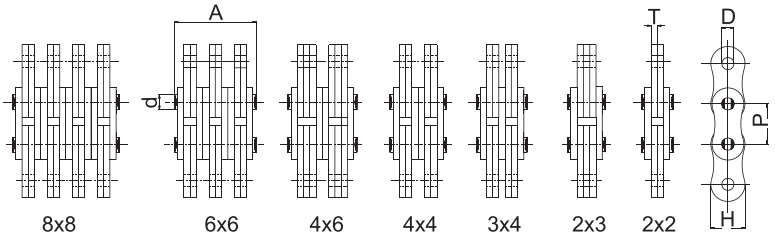
Intl. Ref. No.	DIAMOND Chain No.	Lacing Pattern	Pitch (P)	Pin Dia (D) (Max)	Plate Height (H) (Max)	Plate Thickness (T) (Max)	Hole Dia (D) (Min)	Width Over Bearing Pin (A) (Max)	Avg. Weight Per Metre (Kg)	Tensile Strength (Kgf) (Min)
LL 16 22	LL 16 22	2 x 2						17.20	1.00	4310
LL 16 23	LL 16 23	2 x 3						20.45	1.23	4310
LL 16 34	LL 16 34	3 x 4						26.93	1.69	6460
LL 16 44	LL 16 44	4 x 4	25.40	8.28	21.08	3.20	8.30	30.20	1.92	8620
LL 16 46	LL 16 46	4 x 6						36.70	2.39	8620
LL 16 66	LL 16 66	6 x 6						43.20	2.85	12930
LL 16 88	LL 16 88	8 x 8						56.20	3.80	17240
LL 20 22	LL 20 22	2 x 2						20.10	2.29	6580
LL 20 23	LL 20 23	2 x 3						23.10	2.83	6580
LL 20 34	LL 20 34	3 x 4						30.45	3.92	9870
LL 20 44	LL 20 44	4 x 4	31.75	10.19	26.40	3.70	10.21	35.10	4.47	13160
LL 20 46	LL 20 46	4 x 6						41.40	5.55	13160
LL 20 66	LL 20 66	6 x 6						50.10	6.65	19740
LL 20 88	LL 20 88	8 x 8						65.10	8.64	38740
LL 24 22	LL 24 22	2 x 2						28.40	4.17	9980
LL 24 23	LL 24 23	2 x 3						31.75	5.17	9980
LL 24 34	LL 24 34	3 x 4						42.30	7.17	14970
LL 24 44	LL 24 44	4 x 4	38.10	14.63	33.40	5.20	14.65	49.40	8.16	19960
LL 24 46	LL 24 46	4 x 6						58.10	10.15	19960
LL 24 66	LL 24 66	6 x 6						70.40	12.14	29940
LL 24 88	LL 24 88	8 x 8						91.40	15.15	69300
LL 28 22	LL 28 22	2 x 2						34.00	5.26	13150
LL 28 23	LL 28 23	2 x 3						37.00	6.53	13150
LL 28 34	LL 28 34	3 x 4						49.50	9.06	19730
LL 28 44	LL 28 44	4 x 4	44.45	15.90	37.08	6.45	15.92	60.00	10.33	26300
LL 28 46	LL 28 46	4 x 6						68.35	12.86	26300
LL 28 66	LL 28 66	6 x 6						86.00	15.39	39450
LL 32 22	LL 32 22	2 x 2						35.00	7.19	17230
LL 32 23	LL 32 23	2 x 3						37.65	8.93	17230
LL 32 34	LL 32 34	3 x 4						50.20	12.40	25845
LL 32 44	LL 32 44	4 x 4	50.80	17.81	42.29	6.45	17.83	61.00	14.14	34460
LL 32 46	LL 32 46	4 x 6						69.00	17.62	34460
LL 32 66	LL 32 66	6 x 6						87.00	21.09	51690

Note : Connecting links & clevis pins are also available

LEAF CHAINS

DIAMOND WORK STANDARD

ISO 4347 / DIN 8152



TIDC chain No. No.	Lacing Pattern	Pitch (P)	Pin Diameter (d) Max	Plate Height (H) Max	Plate Thickness (T) Max	Hole Diameter (D) Min	Width Over Bearing Pin (A) Max	Average Weight Per Meter (Kgs)	Tensile Strength (Kgf) Min
*O 061 22	2 x 2						6.31	0.24	1150
*O 061 23	2 x 3						7.63	0.30	1150
*O 061 34	3 x 4						10.27	0.41	1720
*O 061 44	4 x 4	9.525	3.28	8.20	1.25	3.29	11.59	0.47	2300
*O 061 46	4 x 6						14.23	0.59	2300
*O 061 66	6 x 6						16.87	0.71	3400
*DL 06 44 0004	4 x 4	9.525	3.28	8.20	1.00	3.29	10.13	0.44	2300
DL 07 23	2 x 3						12.27	0.71	1900
**DL 07 32	3 x 2	12.00	4.45	11.08	2.05	4.46	12.27	0.71	1900
DL 07 43	4 x 3						16.75	0.99	3000
DL 08 22 0001	2 x 2						9.20	0.39	1910
DL 08 23 0001	2 x 3						10.75	0.47	1910
DL 08 34 0001	3 x 4						14.25	0.66	2860
DL 08 44 0002	4 x 4	12.70	4.45	10.90	1.60	4.46	16.00	0.75	3810
DL 08 46 0001	4 x 6						1850	0.94	3810
DL 08 66 0003	6 x 6						2280	1.12	4420
DL 08 88 0001	8 x 8						30.00	1.49	7400
DL 10 43 00 01 DL 10 64 00 01	4 x 3 6 x 4	15.875	5.08	13.59	1.61	5.12	15.35 19.50	0.89 1.26	3750 5000

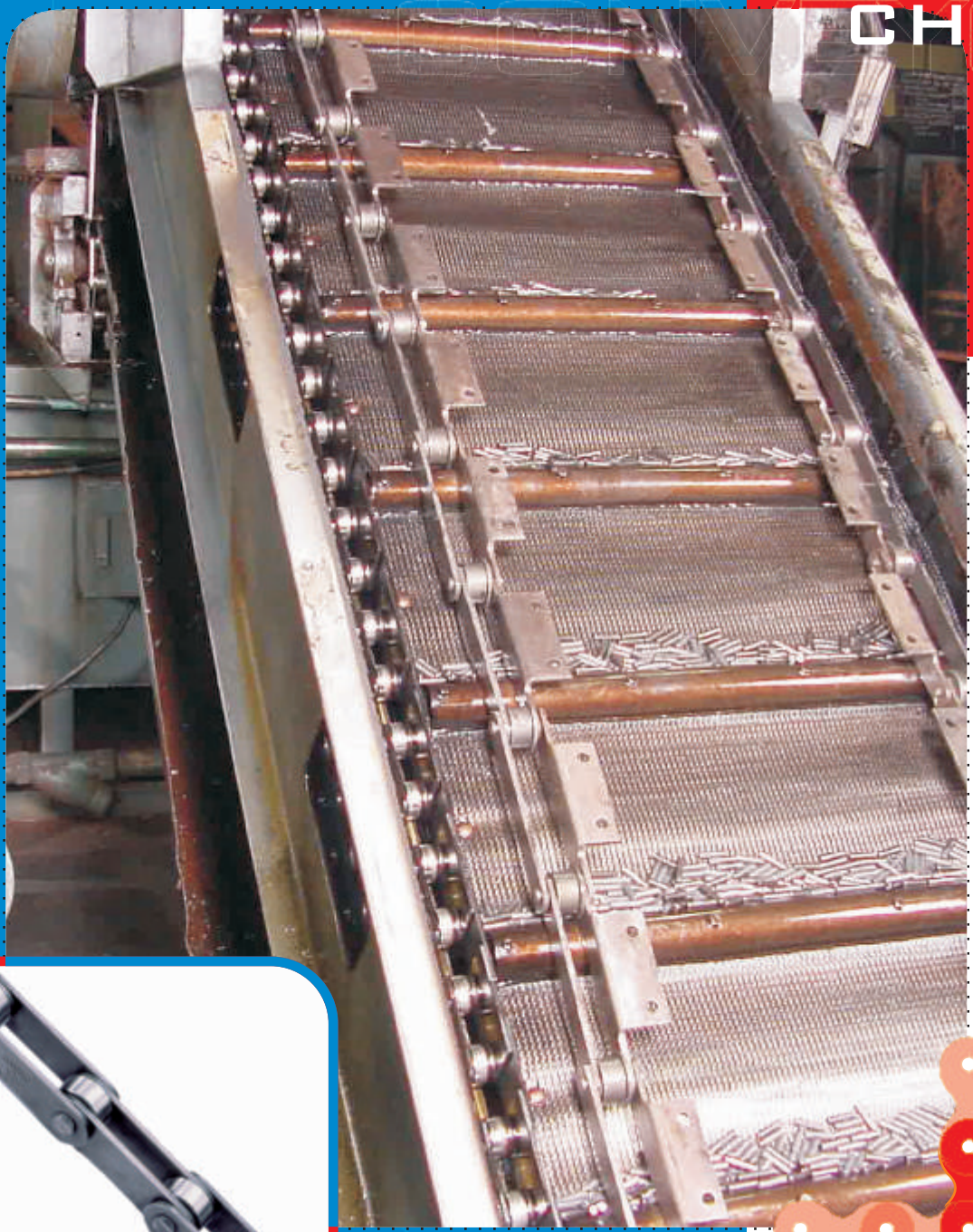
TIDC chain No. No.	Lacing Pattern	Pitch (P)	Pin Diameter (d) Max	Plate Height (H) Max	Plate Thickness (T) Max	Hole Diameter (D) Min	Width Over Bearing Pin (A) Max	Average Weight Per Meter (Kgs)	Tensile Strength (Kgf) Min
***DL 12 66 0002 ***DL 12 66 0003	6 x 6 6 x 6	19.05	5.72	16.10	1.90	5.73	26.30	1.93	9200
DL 12 86 0001	8 x 6	19.05	5.72	13.94	1.76	5.75	28.65	2.06	8850
DL 12 88 0001	8 x 8	19.05	5.94	18.00	2.39	5.96	42.55	3.81	14500
DL 16 44 0001	4 x 4	25.40	9.53	24.10	4.09	9.56	44.77	5.14	17240
DL 16 66 0001	6 x 6	25.40	8.27	20.58	4.05	8.31	53.53	4.31	19000
DL 16 66 0002	6 x 6	25.40	8.28	21.00	3.10	8.31	41.90	4.20	24000
DL 16 66 0003	6 x 6	25.40	8.28	21.00	3.20	8.31	43.00	4.48	19900
DL 16 66 0005	6 x 6	25.40	8.27	20.58	4.05	8.31	44.77	4.31	19000
DL 16 87 0001	8 x 7	25.40	8.28	21.00	3.20	8.31	53.00	5.59	23200
DL 20 22	2 x 2						23.13	2.54	9500
DL 20 23	2 x 3						27.80	3.22	9500
DL 20 34	3 x 4						37.13	4.57	14200
DL 20 44	4 x 4	31.75	10.19	26.44	4.60	10.07	41.81	5.22	20000
DL 20 46	4 x 6						51.13	6.56	20000
DL 20 66	6 x 6						60.49	7.91	30500
DL 20 65 0001	6 x 5	31.75	9.53	25.09	3.23	9.43	40.40	5.06	14060
DL 20 67 0001	6 x 7	31.75	9.53	25.09	3.23	9.43	46.55	5.95	16870
DL 24 66 0001	6 x 6	38.10	14.63	33.42	5.20	14.49	70.40	11.47	52000

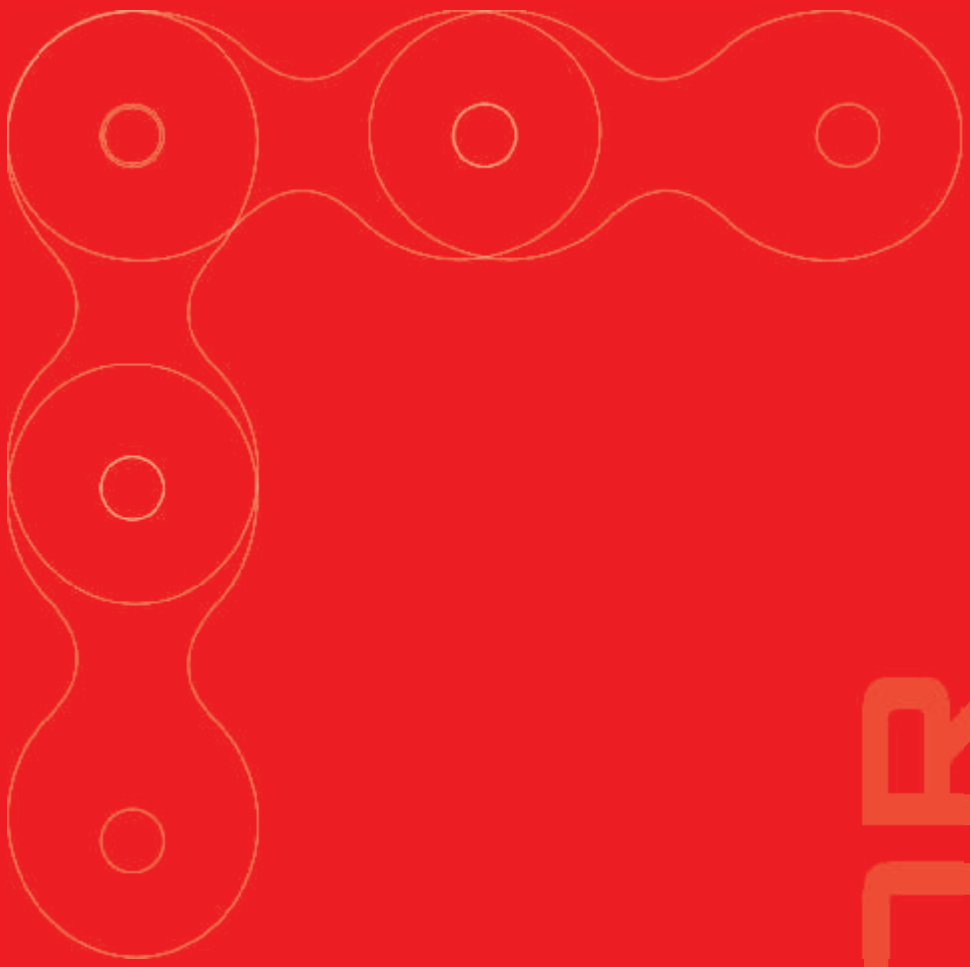
Note :

* Straight sided Plates
** DL 0732 and DL0723 are different in the pattern of Lacing
***DL1266 0002 has odd no. of pitches and DL1266 0003 has even no. of pitches in one length of chain

DIAMOND® INDIA RELIABILITY

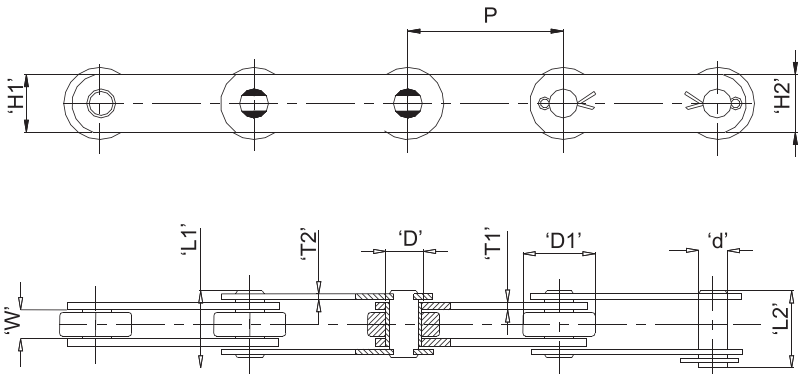
CONVEYOR CHAINS





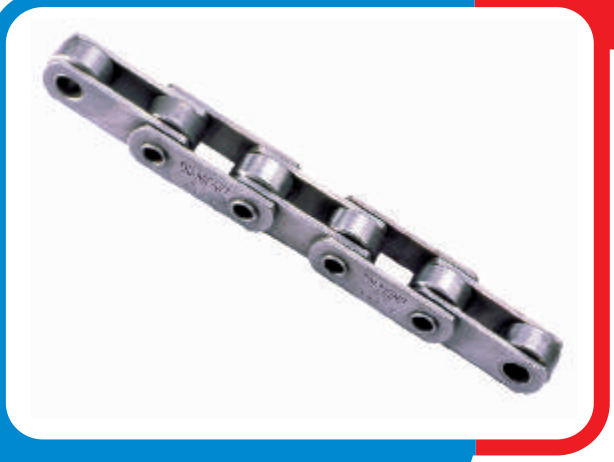
CONVEYOR CHAINS

EUROPEAN SERIES (BS) - SOLID PIN CHAINS

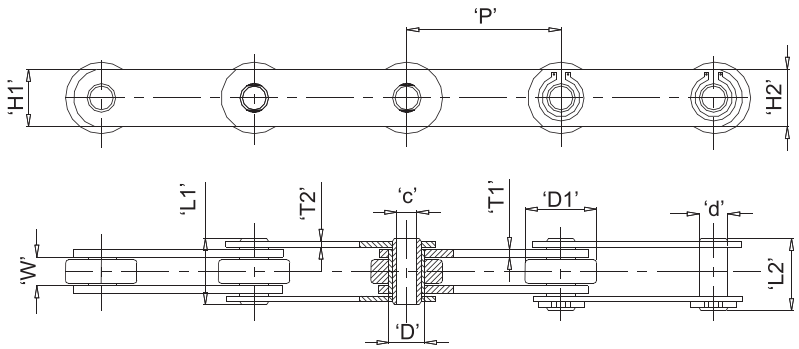


Minimum tensile Strength in lbs	Pitch ('P')		Width between Inner Plates (W) (Min)	Large roller Dia ('D1')	Bush Dia ('D')	Solid pin Dia ('d')	Solid pin length ('L1') (Max)	Connecting pin length ('L2') (Max)	Inner Plate		Outer Plate		Avg. Wt/Mtr in (Kg)
	INCH	METRIC							Height ('H1')	Thick ('T1')	Height ('H2')	Thick ('T2')	
7500	2.0	50.80	15.00	31.80	18.00	14.00	38.00	42.60	25.40	3.80	25.40	3.80	4.07
	2.5	63.50											3.59
	3.0	76.20											3.29
	4.0	101.60											2.88
	5.0	127.00											2.65
	6.0	152.40											2.49
15000	2.0	50.80	19.00	47.60	23.60	19.00	46.00	49.80	38.10	5.10	38.10	3.80	8.14
	3.0	76.20											7.77
	4.0	101.60											6.56
	5.0	127.00											5.85
	6.0	152.40											5.34
	7.0	177.80											5.00
	8.0	203.20											4.78
	9.0	228.60											4.53
30000	4.0	101.60	25.40	66.67	33.20	26.90	60.00	65.40	51.00	7.10	51.00	5.10	14.50
	5.0	127.00											12.65
	6.0	152.40											11.40
	7.0	177.80											10.52
	8.0	203.20											9.87
	9.0	228.60											9.34
	12.0	304.80											8.31

Minimum tensile Strength in lbs	Pitch ('P')		Width between Inner Plates (W) (Min)	Large roller Dia ('D1')	Bush Dia ('D')	Solid pin Dia ('d')	Solid pin length ('L1') (Max)	Connecting pin length ('L2') (Max)	Inner Plate		Outer Plate		Avg. Wt/Mtr in (Kg)
	INCH	METRIC							Height ('H1')	Thick ('T1')	Height ('H2')	Thick ('T2')	
45000	5.0	127.00	38.10	88.90	38.10	31.80	82.00	88.20	61.00	8.90	61.00	7.60	24.69
	6.0	152.40											24.69
	7.0	177.80											22.31
	8.0	203.20											20.55
	9.0	228.60											19.21
	12.0	304.80											16.49
60000	6.0	152.40	38.10	88.90	38.10	23.00	82.00	86.90	61.00	10.0	61.00	8.9	23.73
	7.0	177.80											21.96
	8.0	203.20											20.26
	9.0	228.60											18.94
	12.0	304.80											16.28
90000	6.0	152.40	38.10	88.90	38.10	29.40	94.00	98.60	63.50	13.00	63.50	10.00	29.61
	9.0	228.60											23.78
	12.0	304.80											20.87



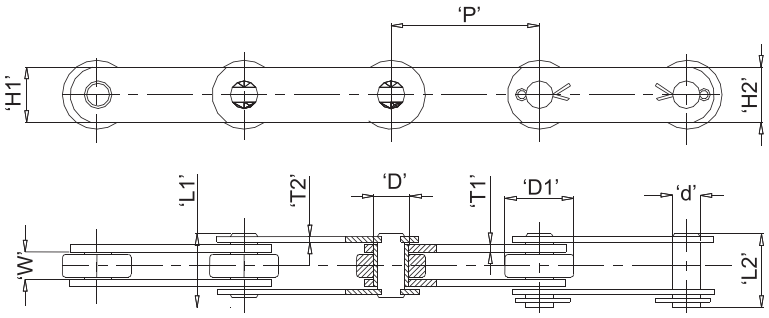
EUROPEAN SERIES (BS) - HOLLOW PIN CHAINS



Minimum tensile Strength in lbs	Pitch ('P')		Width between Inner Plates ('W') (Min)	Large roller Dia ('D1')	Bush Dia ('D')	Hollow pin bore ('c') (Min)	Hollow pin Dia ('d')	Hollow pin length ('L1') (Max)	Connecting pin length ('L2') (Max)	Inner Plate		Outer Plate		Avg. Wt/Mtr In (Kg)
	INCH	METRIC								Height ('H1')	Thick ('T1')	Height ('H2')	Thick ('T2')	
6000	2.0	50.80	15.00	31.80	18.00	10.10	14.00	36.50	38.90	25.40	3.80	25.40	3.80	3.68
	2.5	63.50												3.29
	3.0	76.20												3.02
	4.0	101.60												2.71
	5.0	127.00												2.51
	6.0	152.40												2.38
12000	2.0	50.80	19.00	47.60	23.60	13.20	19.00	45.60	47.50	38.10	5.10	38.10	3.80	5.49
	3.0	76.20												7.28
	4.0	101.60												6.21
	5.0	127.00												5.57
	6.0	152.40												5.13
	7.0	177.80												4.83
	8.0	203.20												4.61
	9.0	228.60												4.42
24000	4.0	101.60	25.40	66.67	33.20	20.10	26.90	57.00	60.50	51.00	7.10	51.00	5.10	13.16
	5.0	127.00												11.58
	6.0	152.40												11.27
	7.0	177.80												9.77
	8.0	203.20												9.21
	9.0	228.60												8.78
	12.0	304.80												7.90

Minimum tensile Strength in lbs	Pitch ('P')		Width between Inner Plates ('W') (Min)	Large roller Dia ('D1')	Bush Dia ('D')	Hollow pin bore ('c') (Min)	Hollow pin Dia ('d')	Hollow pin length ('L1') (Max)	Connecting pin length ('L2') (Max)	Inner Plate		Outer Plate		Avg. Wt/Mtr In (Kg)
	INCH	METRIC								Height ('H1')	Thick ('T1')	Height ('H2')	Thick ('T2')	
36000	5.0	127.00	38.10	88.90	38.10	23.10	31.80	79.50	84.00	61.00	8.90	61.00	7.60	25.47
	6.0	152.40												22.62
	7.0	177.80												20.58
	8.0	203.20												19.05
	9.0	228.60												17.87
	12.0	304.80												15.49

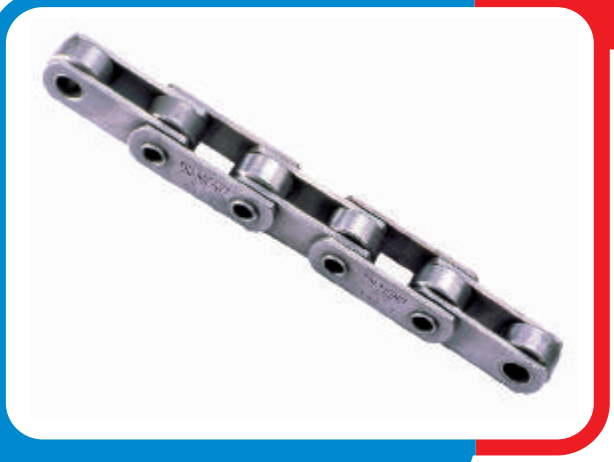
METRIC SERIES (ISO) - SOLID PIN CHAINS



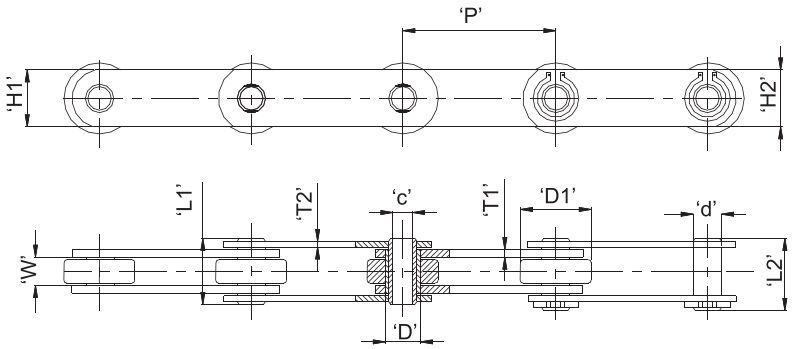
Minimum Tensile Strength in Newtons	Pitch ('P')	Width between Inner Plates ('W') (Min)	Large roller Dia ('D1')	Bush Dia ('D')	Solid Pin Dia ('d')	Solid Pin length ('L1') (Max)	Connecting pin length ('L2') (Max)	Inner Plate		Outer Plate		Avg. Wt/Mtr in (Kg)
								Height ('H1')	Thick ('T1')	Height ('H2')	Thick ('T2')	
20000(M20)	50.00	16.00	25.00	9.00	6.00	30.50	33.10	18.00	2.50	18.00	2.50.	2.02
	63.00											1.72
	80.00											1.51
	100.00											1.35
	125.00											1.22
	160.00											1.10
28000(M28)	63.00	18.00	30.00	10.00	7.00	35.00	37.50	20.00	3.00	20.00	3.00	2.74
	80.00											2.35
	100.00											2.07
	125.00											1.85
	160.00											1.65
	200.00											1.51
40000 (M40)	63.00	20.00	36.00	12.50	8.50	41.00	44.60	25.00	3.50	25.00	3.50	4.40
	80.00											3.76
	100.00											3.30
	125.00											2.93
	160.00											2.60
	200.00											2.36
	250.00											2.17

Minimum Tensile Strength in Newtons	Pitch ('P')	Width between Inner Plates ('W') (Min)	Large roller Dia ('D1')	Bush Dia ('D')	Solid Pin Dia ('d')	Solid Pin length ('L1') (Max)	Connecting pin length ('L2') (Max)	Inner Plate		Outer Plate		Avg. Wt/Mtr in (Kg)
								Height ('H1')	Thick ('T1')	Height ('H2')	Thick ('T2')	
56000(M56)	80.00	24.00	42.00	15.00	10.00	46.50	52.30	30.00	4.00	30.00	4.00	5.63
	100.00											4.89
	125.00											4.30
	160.00											3.77
	200.00											3.41
	250.00											3.12
80000 (M80)	80.00	28.00	50.00	18.00	12.00	55.00	60.40	35.00	5.00	35.00	5.00	9.40
	100.00											8.07
	125.00											7.00
	160.00											6.07
	200.00											5.40
	250.00											4.87
	315.00											4.43
112000(M112)	100.00	32.00	60.00	21.00	15.00	63.50	70.30	40.00	6.00	40.00	6.00	11.45
	125.00											9.93
	160.00											8.59
	200.00											7.65
	250.00											6.89
	315.00											6.26
	400.00											5.74
160000 (M160)	160.00	37.00	70.00	25.00	18.00	73.50	81.20	50.00	7.00	50.00	7.00	13.41
	200.00											11.80
	250.00											10.51
	315.00											9.45
	400.00											8.59
224000(M224)	160.00	43.00	85.00	30.00	21.00	84.00	93.10	60.00	8.00	60.00	8.00	20.24
	200.00											17.71
	250.00											15.69
	315.00											14.01
	400.00											12.65
315000(M315)	200.00	48.00	100.00	36.00	25.00	97.00	107.00	70.00	10.00	70.00	10.00	29.35
	250.00											25.70
	315.00											22.70
	400.00											20.24
450000 (M450)	200.00	56.00	120.00	42.00	30.00	114.00	126.60	80.00	12.00	80.00	12.00	45.03
	250.00											39.06
	315.00											34.13
	400.00											30.11

Minimum Tensile Strength in Newtons	Pitch ('P')	Width between Inner Plates ('W') (Min)	Large roller Dia ('D1')	Bush Dia ('D')	Solid Pin Dia ('d')	Solid Pin length ('L1') (Max)	Connecting pin length ('L2') (Max)	Inner Plate		Outer Plate		Avg. Wt/Mtr in (Kg)
								Height ('H1')	Thick ('T1')	Height ('H2')	Thick ('T2')	
630000 (M630)	250.00	66.00	140.00	50.00	36.00	133.00	145.00	100.00	14.00	100.00	14.00	61.00
	315.00											52.99
	400.00											46.46
900000(M900)	315.00	78.00	170.00	60.00	44.00	153.00	169.60	120.00	16.00	120.00	16.00	84.16
	400.00											72.72

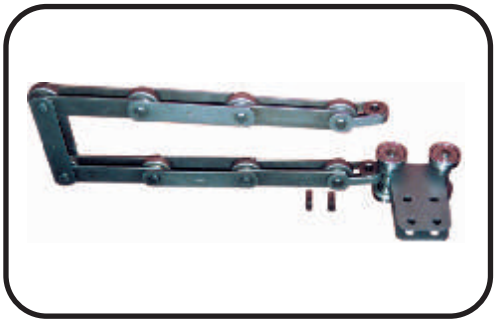


METRIC SERIES (ISO) - HOLLOW PIN CHAINS



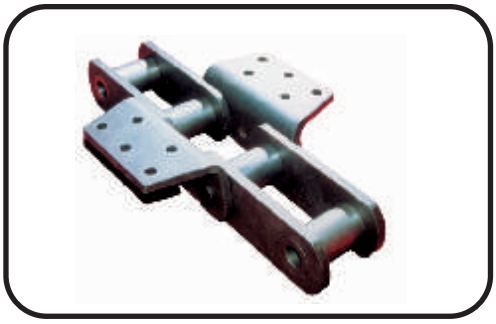
Minimum Tensile Strength In Newtons	Pitch ('P')	Width between Inner Plates ('W') (Min)	Bush Dia ('D')	Large Roller Dia ('D1')	Hollow Pinbore ('C') (Min)	Hollow Pin Dia ('d')	Hollow Pin Length ('L1') (Max)	Connecting Pin Length ('L2') (Max)	Inner Plate		Outer Plate		Avg. Wt/Mtr in (Kg)
									Height ('H1')	Thick ('T1')	Height ('H2')	Thick ('T2')	
28000(MC28)	63.00	20.00	17.50	36.00	8.20	13.00	40.50	43.90	25.00	3.50	25.00	3.50	3.95
	80.00												3.44
	100.00												3.04
	125.00												2.71
	160.00												2.43
56000 (MC56)	80.00	24.00	21.00	50.00	10.20	15.50	46.50	50.00	35.00	4.00	35.00	4.00	6.79
	100.00												5.87
	125.00												5.14
	160.00												4.52
	200.00												4.07
	250.00												3.71
112000 (MC112)	100.00	32.00	29.00	70.00	14.30	22.00	63.00	69.90	50.00	6.00	50.00	6.00	15.16
	125.00												13.04
	160.00												11.16
	200.00												9.82
	250.00												8.75
	315.00												7.87
224000 (MC224)	160.00	43.00	41.00	100.00	20.30	31.00	83.00	92.10	70.00	8.00	70.00	8.00	21.96
	200.00												18.85
	250.00												16.38
	350.00												14.32
	400.00												12.64

WORK STANDARD ENGINEERING CLASS CHAINS

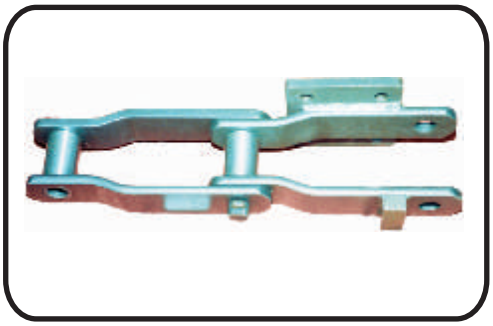


VERTI CHAIN WITH BI-PLANAR ATTACHMENT AND TROLLEY

OFFSET SIDE BAR CHAIN FOR CONSTRUCTION EQUIPMENT



BUCKET ELEVATOR CHAIN FOR CEMENT PLANT

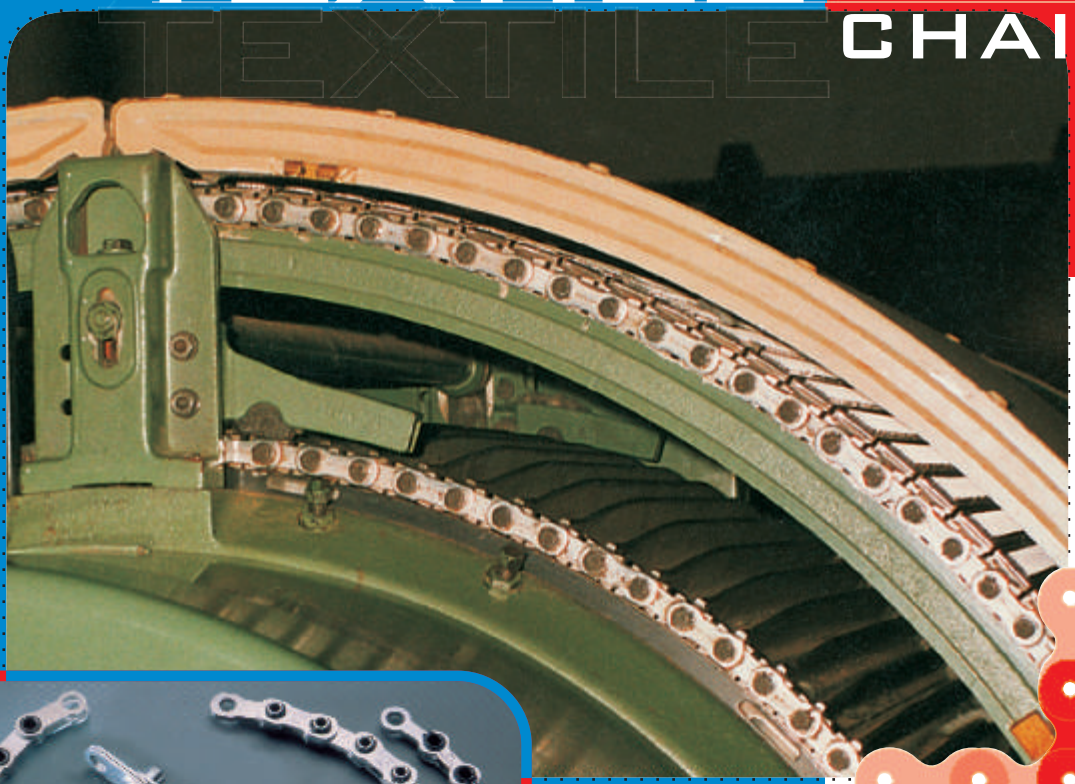


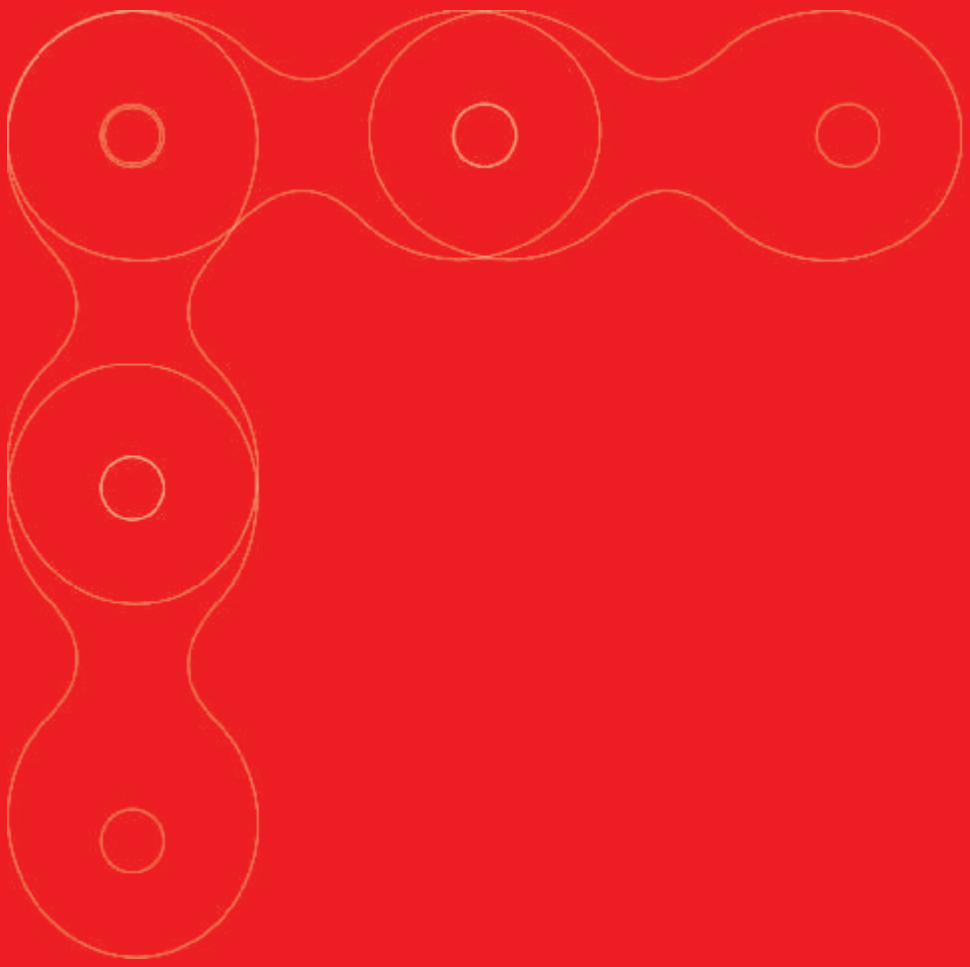
BUCKET ELEVATOR CHAIN FOR FERTILIZER INDUSTRY

NOTES

DIAMOND INDIA RELIABILITY

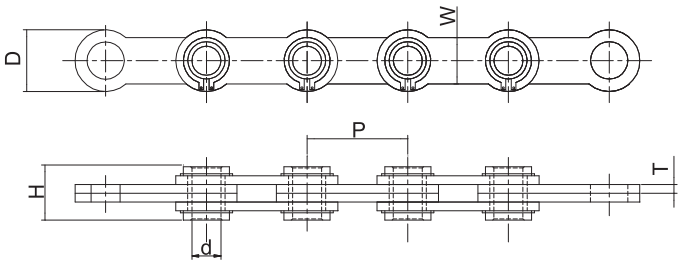
TEXTILE CHAINS



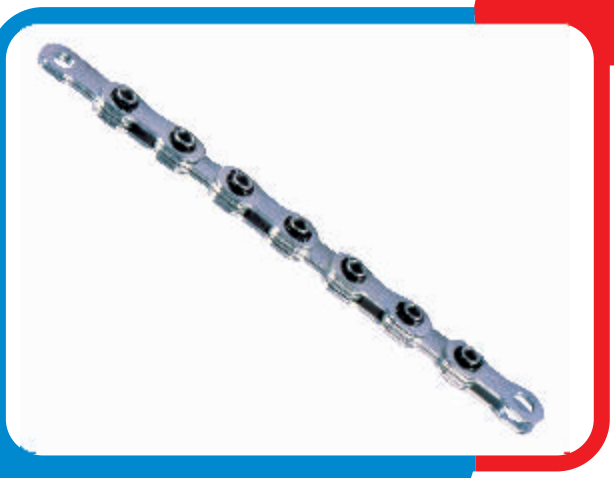


TEXTILE CHAINS

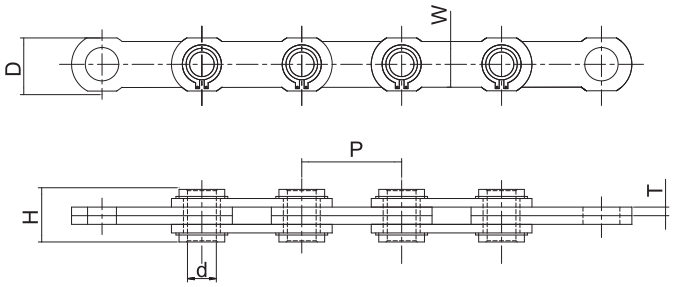
FLAT CARD CHAINS



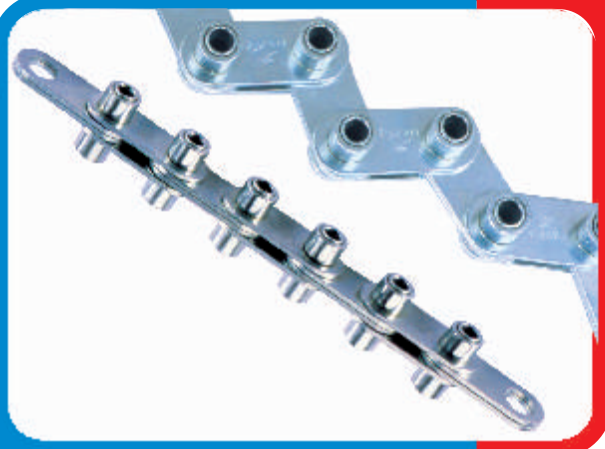
DIAMOND Chain No.	Pitch (P)	Stay Width (W)	Bush Dia (d) Min	Plate Width (D)	Plate Thickness (T)	Total Height (H) Max
C 231	36.50	11.10	9.54	22.25	2.65	14.20
C 232	36.50	12.70	9.54	22.25	2.65	14.20
C 233	36.50	15.88	9.54	22.25	2.65	14.20
C 234	36.50	16.70	9.54	22.25	2.65	14.20
C 236	36.50	16.00	10.00	23.50	2.65	15.50



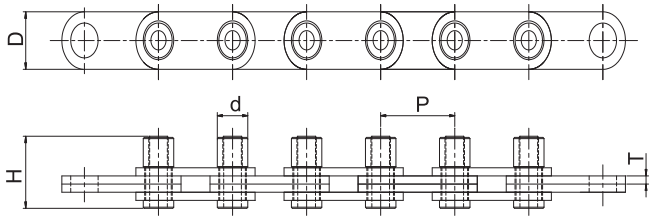
FLAT CARD CHAINS



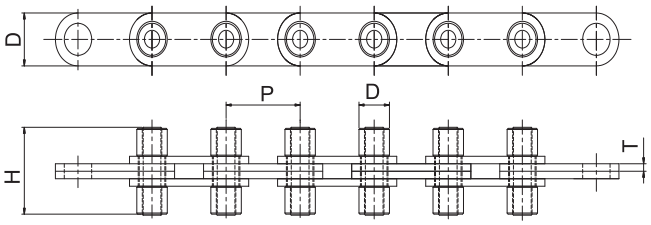
DIAMOND Chain No.	Pitch (P)	Stay Width (W)	Bush Dia (d) Min	Plate Width (D)	Plate Thickness (T)	Total Height (H) Max
C235 or SP 1207	36.50	16.70	8.20	22.20	2.65	18.20
SP 1807	36.50	15.88	9.54	22.25	2.65	17.00



FLAT CARD CHAINS



SP 1976



C 365 22 0001

DIAMOND Chain No.	Pitch (P)	Bush Dia (d) Min	Plate Width (D)	Plate Thickness (T)	Total Height (H) Max
SP1976	36.50	16.00	24.00	2.65	25.90
C365220001	36.50	16.00	24.00	2.65	38.00

NOTES

TECHNICAL DATA

SELECTION OF ROLLER CHAIN DRIVES

The following data should be taken into consideration while selecting roller chain drives.

a. Horsepower to be transmitted
b. RPM of the driving and driven sprocket(Speed ratio)
c. Load classification
d. Space limitations if any
e. Driven machine
f. Source of power

If the pitch centre distance and number of teeth on both driving and driven sprockets are known, you can use the following formula, tables and charts to calculate chain lengths.

SELECTION PROCEDURE

For maximum service life, smooth operation and optimum performance, the following points should be considered, while determining the number of teeth in the pinion.

a) As most drives have an even number of pitches in the chain, the use of a pinion with an odd number of teeth ensures even distribution of chain and wheel tooth wear.

b) Pinions for normal, steady drives should generally not have less than 17 teeth, the reason being that a chain forms a polygon around the pinion. When the pinion speed is constant, the chain speed is subject to a regular cyclic variation. The percentage of cyclic variation becomes less marked as the number of teeth increases - and in fact becomes insignificant for the majority of applications when the number of teeth in the pinion exceeds 17.

c) A minimum of 23 teeth is recommended on moderate shock drives where the speed of the pinion exceeds 50 % of the maximum rated speed, and for heavy shock drives where the speed of the pinion exceeds 25% of the maximum rated speed.

d) The pinion should be heat treated to HV 10 - 550 for smooth drives where the pinion speeds exceeds 70 % of the maximum speed and operates under full horsepower rating. For heavy shock drives, the pinion should be treated in all cases.

DETERMINE THE CLASS OF LOAD

If shock loads are expected, then first determine the class of load on the basis of the drives equipment (see table 1).

LOAD CLASSIFICATIONS — TABLE 1

UNIFORM LOAD	MODERATE SHOCK LOAD	HEAVY SHOCK LOAD
Centrifugal pumps, Agitator for liquids, Conveyors, Fans- Uniform load	Reciprocating pumps, Wood working M/c's Grinders, Conveyors- Irregular load	Presses, Earth moving equipment Shears, Cranes & Hoists, Reciprocating and Shaker type conveyors, Crushers, Reciprocating feeders
Generators, M/c's all types with uniform non - reversing loads	Mixers and Machines all types with moderate shock and non-reversing loads	Machines-all types with severe impact shock loads or variation and reversing service

Note : If table 1 does not list your equipment, go by its similarity to a listed item

SELECTION OF ROLLER CHAIN DRIVES

ESTABLISH THE DESIGN HORSEPOWER

Establish the design horsepower by multiplying the specified horsepower value with the service factor given in Table 2.

SERVICE FACTOR — TABLE 2

Type of Driven Load	TYPE OF INPUT POWER: Internal Combustion Engine with Hydraulic Drive	Electric Motor or Turbine	Internal Combustion Engine with Mechanical Drive
Uniform	1.0	1.0	1.2
Moderate Shock	1.2	1.3	1.4
Heavy Shock		1.4	1.5 1.7

MULTIPLE STRAND FACTOR — TABLE 3

No. of Strands	Multiple Strand Factor
2	1.7
3	2.5
4	3.3
5	3.9
6	4.6
8	6.2
10	7.5

FINAL SELECTION OF CHAIN

Selection of multi- strand chains will become necessary if available space is limited or high speeds call for a chain with lower pitch. The strand factors are given in Table 3. To facilitate selection of multi-strand chains, multiply the horsepower rating for single strand chains by the corresponding strand factor.

ISO 10823 - 1996 standard of guidance can be referred for selection of chain drive power.

Actual power = Input power x service factor x strand factor.
Considering the actual power and rpm of the pinion, using the horsepower rating chart select the chain for the application.

SELECT THE LARGE SPROCKET

By using the required shaft speed ratio select the number of teeth in the large sprocket. If the required shaft speed ratio cannot be obtained with a standard sprocket, increase the number of teeth in the small sprocket by one or two, to obtain an acceptable speed ratio with a slightly larger standard sprocket. The size of the large sprocket is affected by the allowable wear elongation of the chain which may go up to 3 %. The use of sprockets with more than 67 teeth reduces the life of the chain expressed in percentage elongation as :

Permissible wear elongation = 200 / N (%). The speed ratio for a single drive should be not exceed 10:1
A greater ratio will make it necessary to provide for two drives in series.

DETERMINE CHAIN LENGTH

Compute the length of chain required using the formula given below. If possible, adjust the centre distance, so that the length of chain required is always in an even number of pitches. For optimum life of the chain and sprockets the centre distance between the two sprockets should be 30 to 50 times the chain pitch.

$$L = \frac{2C}{P} + \left\{\frac{N+n}{2}\right\} + \left\{\frac{N-n}{2}\right\}^2 \frac{P}{C}$$

Where L = Chain length in pitches
P = Chain Pitch
C = Contemplated centre distance
N = Number of teeth on large sprocket
N = Number of teeth on small sprocket

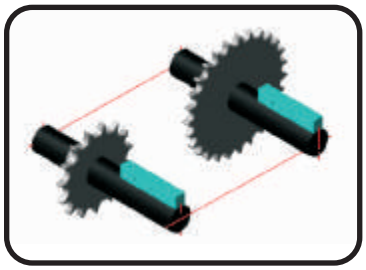
INSTALLATION AND MAINTENANCE OF CHAIN DRIVES

INSTALLATION

Careful and accurate installation is very essential for trouble free operation and long life. The following instructions should therefore be carefully observed.

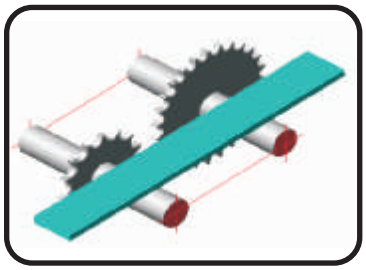
a) Shaft Alignment

Make sure that all shafts are parallel and level. Check alignment with a spirit level. The shafts should be supported by sufficiently strong bearings to avoid any displacement during operation.



b) Installation of Sprockets

Align the sprockets exactly on the shafts. Check with a straight edge of a string held against the sides of the sprocket face. Improper alignment of sprockets will cause abnormal wear on the chain link plates and on the sides of the sprocket teeth. Check occasionally during operation for such wear.

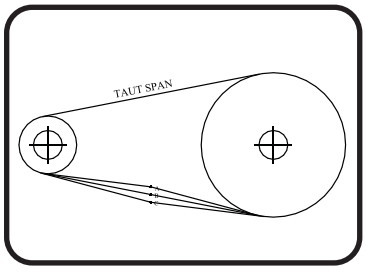


c) Mounting of Chain

Wrap the chain around the sprockets and bring the two ends together on one sprocket to connect them with a connecting link.

d) Chain Tension

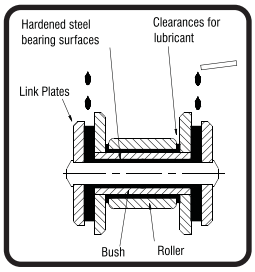
The chain should never run with both sides tight. To check tension, turn one sprocket to tighten the lower span of the chain. Then measure the sag of the lower strand which should be about 2 to 3% of the tangent to the sprockets. In an inclined drive the sag should be less. In vertical drives a chain tensioner must be provided for.

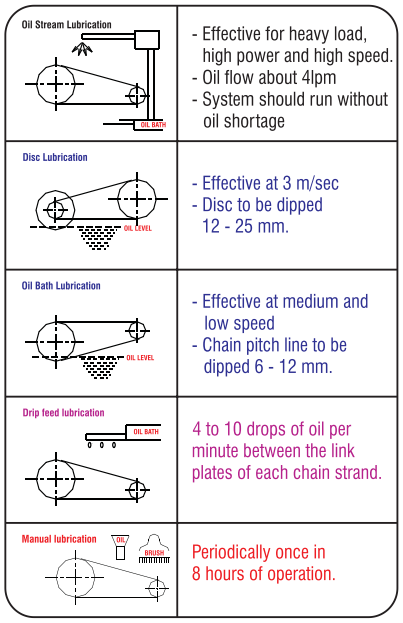


LUBRICATION OF CHAIN DRIVES

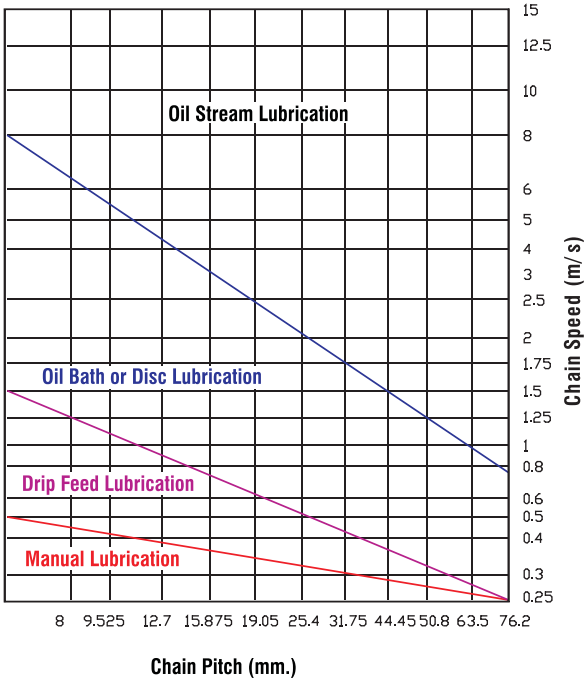
Chain life will vary appreciably depending on the way the drive is lubricated. A properly lubricated chain can last more than 100 times as long as the same chain with poor lubrication. A good grade of clean petroleum oil without additives, free flowing at the prevailing temperatures should be used. Some additives leave a varnish or gum deposit which prevents the oil from entering chain joints. Heavy oils and greases are generally too stiff to enter the chain joints and should not be used or it should be heated up indirectly and chain should be immersed in molten bath.

With proper lubrication, a separating wedge of lubricant is formed between the pins and bushings in the chain joints, much like that formed in journal bearings. The viscosity of the lubricant greatly affects its separating force and its ability to become a wedge between moving parts. The highest viscosity oil which will flow between the chain link plates and fill the pin bushing areas will provide the best wear life. This is essential to minimise metal to metal contact and, if supplied in sufficient volume, the lubricant also provides effective cooling and impact dampening at higher speeds.





Lubrication Chart



LUBRICANT

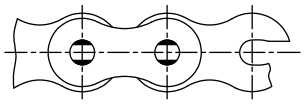
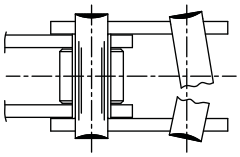
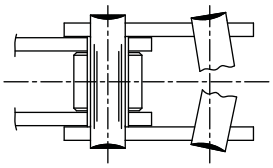
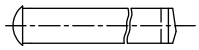
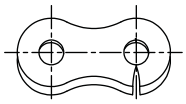
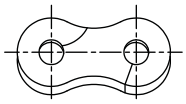
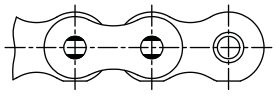
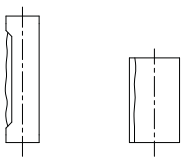
The best lubricant for most applications is a light petroleum oil. High viscosity oil and grease are suitable only for slow drives exposed to weather conditions.

The lubricant recommended by TI Diamond for the various surrounding temperatures are indicated in the following table :

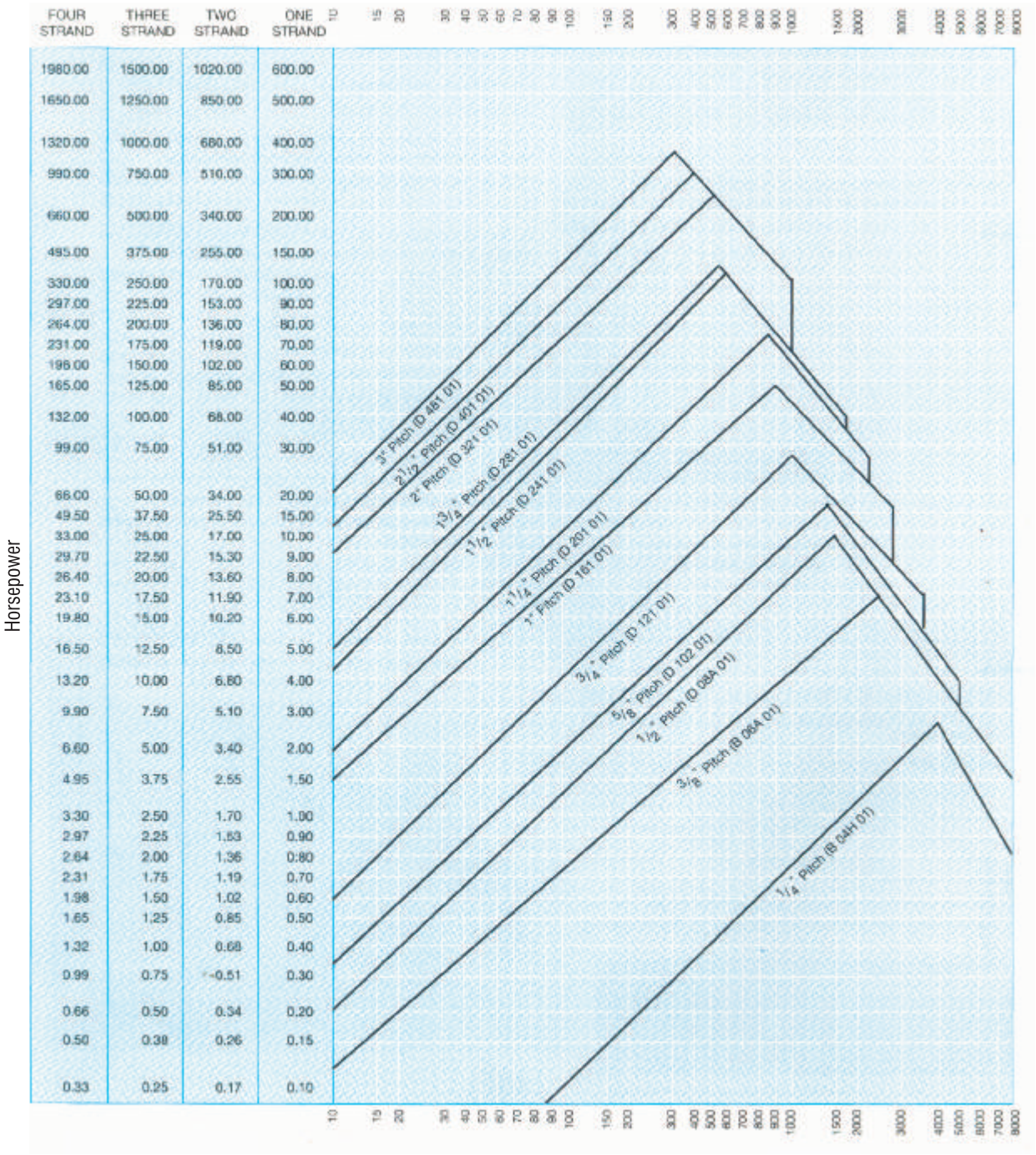
Chain Pitch	- 10 degree C to 0 degree C	0 degree C to 40 degree C	40 degree C to 50 degree C	50 degree C to 60 degree C
Less than 5/8”	SAE 10	SAE 20	SAE 30	SAE 40
3/4" - 1"	SAE 20	SAE 30	SAE 40	SAE 50
1 1/4 "				
1 1/2 " & ABOVE	SAE 30	SAE 40	SAE 50	

Chain drives should be protected from dust, dirt and moisture. Depending on the type of application and type of lubrication, system should be cleaned and oil change is recommended after the first 500 operating hours, to be repeated every 2500 hours.

TROUBLE SHOOTING HINTS

PROBLEM	POSSIBLE CAUSES OF PROBLEM	SUGGESTED REMEDY
 Fracture Plate	Overloading	Inspect the drive to determine the cause of high load and eliminate Or Redesign drive for larger pitch chain
 Broken Pins	Overloading	Inspect the drive to determine the cause of high load and eliminate or Redesign drive for larger pitch chain
 Broken Pins (Centre)	Loading is greater than pin's dynamic capacity	Inspect the drive to determine the cause of high load and eliminate or Redesign drive for larger pitch chain
 Broken Pins (Offset Pin)	Overloading	Single pitch offset link is to be eliminated Redesign drive using a higher capacity chain
 Fatigue Failure	Loading is greater than chain's dynamic capacity	Single pitch offset link is to be eliminated Redesign drive using a higher capacity chain
 Cranking	Stress corrosion cracking	Inspect the drive to determine the cause of high load and eliminate Select anti-corrosive chain
 Broken Roller	Speed too high Sprockets too small Chain riding too high on sprocket teeth	Replace chain, reduce speed Use larger sprockets or possibly redesign drive for small sprocket
 Worn Contour	Chain rubbing on casing, guide or obstruction	Replace chain if 5% or more height worn out Inspect and redesign casing, guide and eliminate interference
 Pin or Bushing Galling	Speed or load too high Inadequate lubrication	Reduce speed or load Redesign drive for smaller pitch chain Provide proper lubrication system

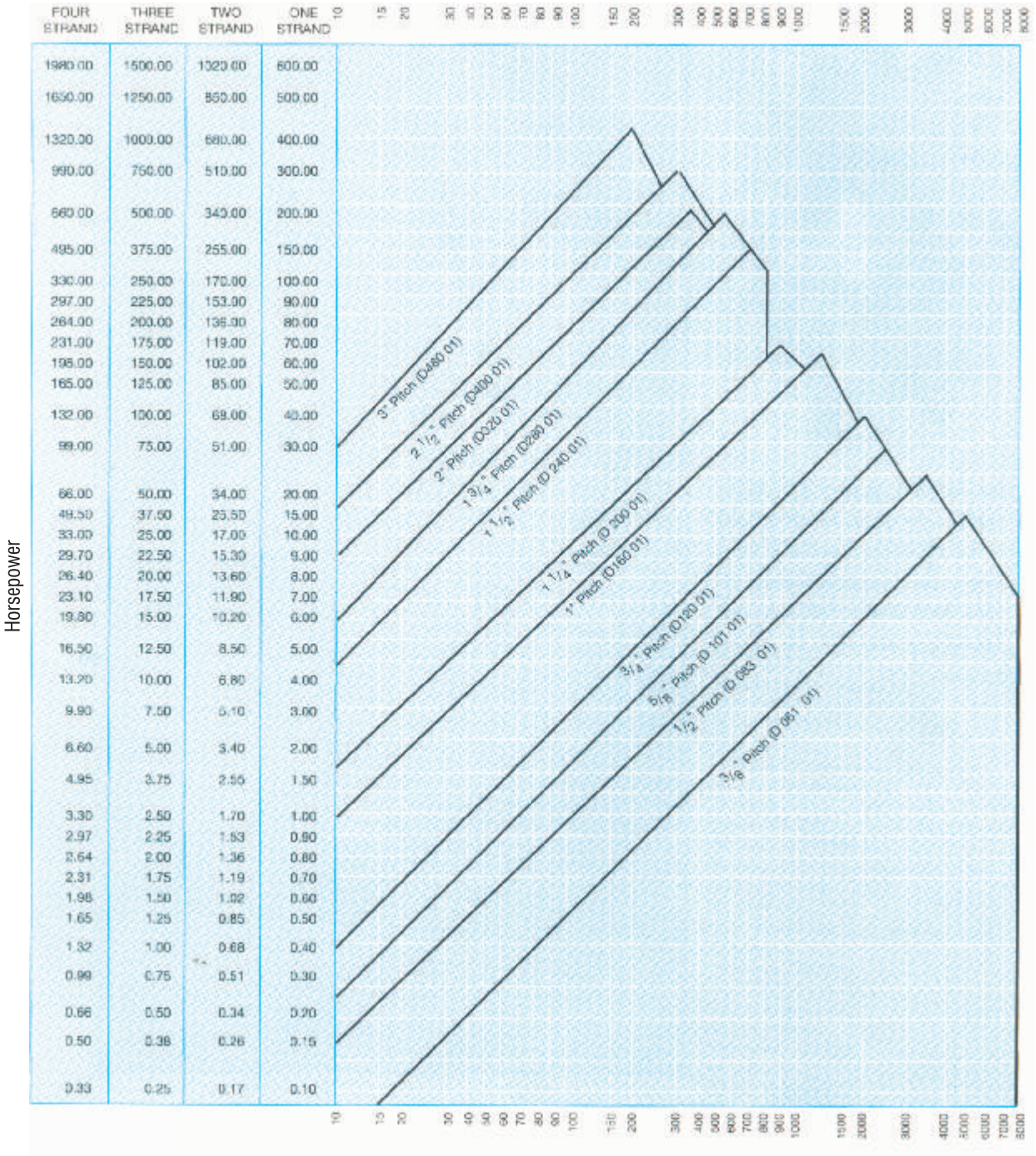
TENTATIVE SELECTION CHART FOR AMERICAN STANDARD CHAINS (19 TEETH PINION)



HORSEPOWER RATING CHART

TENTATIVE SELECTION CHART FOR BRITISH STANDARD CHAINS (19 TEETH PINION)

FOUR STRAND	THREE STRAND	TWO STRAND	ONE STRAND
1980.00	1500.00	1020.00	600.00
1650.00	1250.00	850.00	500.00
1320.00	1000.00	680.00	400.00
990.00	750.00	510.00	300.00
660.00	500.00	340.00	200.00
495.00	375.00	255.00	150.00
330.00	250.00	170.00	100.00
297.00	225.00	153.00	90.00
264.00	200.00	136.00	80.00
231.00	175.00	119.00	70.00
198.00	150.00	102.00	60.00
165.00	125.00	85.00	50.00
132.00	100.00	68.00	40.00
99.00	75.00	51.00	30.00
66.00	50.00	34.00	20.00
49.50	37.50	25.50	15.00
33.00	25.00	17.00	10.00
29.70	22.50	15.30	9.00
26.40	20.00	13.60	8.00
23.10	17.50	11.90	7.00
19.80	15.00	10.20	6.00
16.50	12.50	8.50	5.00
13.20	10.00	6.80	4.00
9.90	7.50	5.10	3.00
6.60	5.00	3.40	2.00
4.95	3.75	2.55	1.50
3.30	2.50	1.70	1.00
2.97	2.25	1.53	0.90
2.64	2.00	1.36	0.80
2.31	1.75	1.19	0.70
1.98	1.50	1.02	0.60
1.65	1.25	0.85	0.50
1.32	1.00	0.68	0.40
0.99	0.75	0.51	0.30
0.66	0.50	0.34	0.20
0.50	0.38	0.26	0.15
0.33	0.25	0.17	0.10



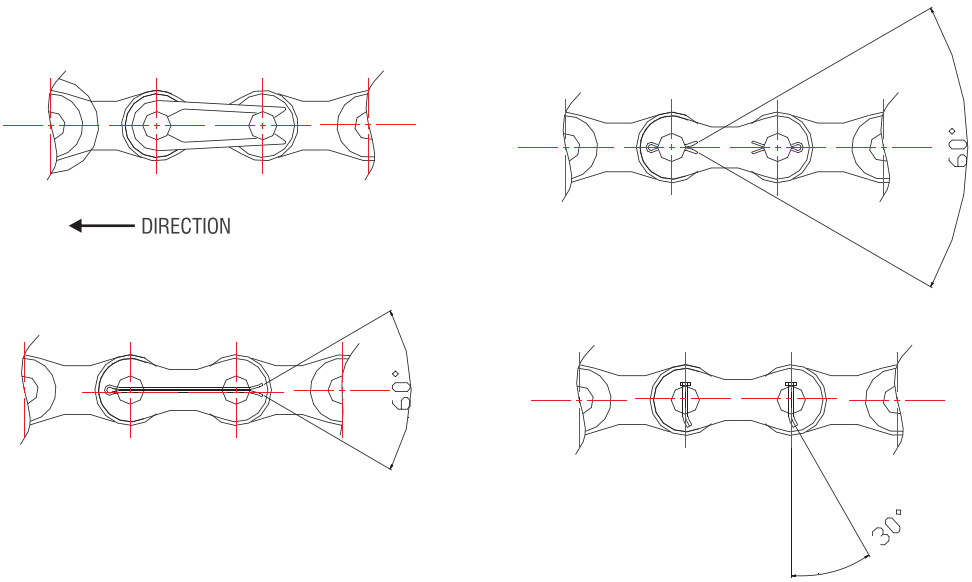
Horsepower

Pinion Speed (RPM)

WARNING

Comply with the following to avoid serious personal injury and critical accidents.

- Guards must be provided on all chain and sprocket installation as per ANSI / ASME B 15.1 - 1984 and ANSI / ASME B
- 20.1 1990 or other applicable safety standards. As and when these standards are revised, the updated edition should be followed.
- Power should be switched off before installation, removal, lubrication or service of a chain system.
- When connecting or disconnecting chain
  - Wear safety glasses, protective clothing, gloves and safety shoes
  - Support the chain to prevent movement
  - Use appropriate tools for connecting and disconnecting chains and sprockets
- Do not attempt to connect or disconnect chain unless the drive mechanism is well understood.
- Chain and sprocket selection should be made in accordance with our horsepower rating chart or our
- Recommendations.
- Regular maintenance is required for all chain drives.
- Connecting link should be attached as illustrated.



- Plating, welding and other operations may reduce strength and can cause breakage. Consult our engineers for recommendation.
- Do not re-use disassembled chain parts. Do not use reworked chain or join reworked chain with a new chain.
- Never use acid, alkali or general rust removal solvents to clean a chain. It may cause Hydrogen embrittlement.
- Never use a new chain on an old sprocket. Replace chains and sprockets together.

NOTES

CERTIFICATE

The TÜV CERT Certification Body
for QM Systems of RWTÜV Systems GmbH
hereby certifies in accordance with TÜV CERT
procedure that

IIDC INDIA

has established and applies a quality system for

ISO 9001:2000

RWTÜV

Certificate of Authority to use the Official API Monogram

American Petroleum Institute

* All dimensions indicated are in mm.
* All information contained in this catalogue is subject to change after publication.
* While all reasonable care has been taken in compiling the information contained in this catalogue, no responsibility is accepted for printing errors.

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