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Power transmission

CATENA
CHAIN


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K.S.F.®

Power transmission

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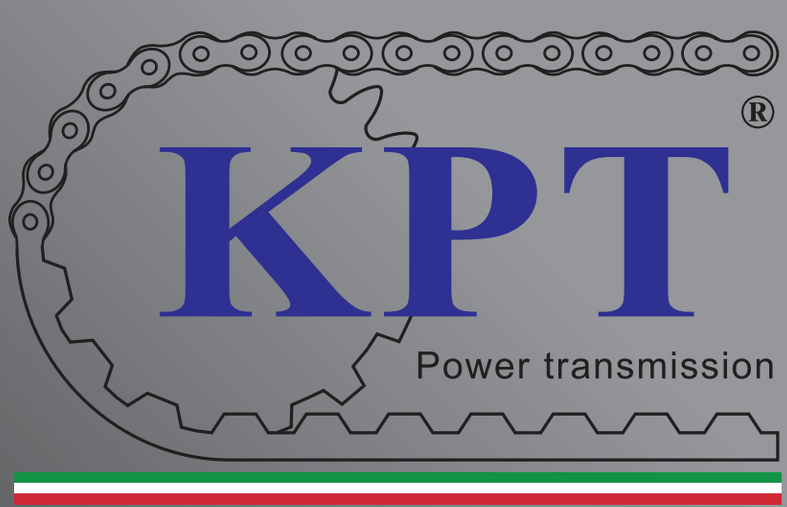
Bearings and Components



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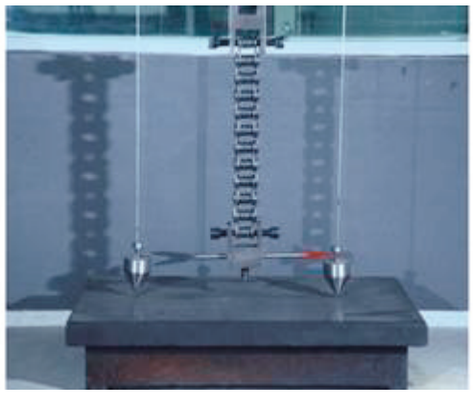
REPARTO CONTROLLO QUALITA' – QUALITY TEST DEPARTMENT



INFORMAZIONI TECNICHE – TECHNICAL INFORMATION

Le catene **KSF** sono prodotte in stabilimenti all'avanguardia. Sono applicati severi controlli di qualità per assicurare la conformità del prodotto agli standard ISO e agli standard industriali esistenti, principalmente ANSI, BS, DIN e JIS.
Le catene **KSF** per il settore automobilistico soddisfano la specifica tecnica del Sistema di Assicurazione Qualità ISO/TS16949.
Tale specifica allinea gli standard dei sistemi di qualità americano (QS-9000), tedesco (VDA6.1), francese (EAQF) e italiano (AVSQ) nell'ambito dell'industria automobilistica globale.
Tutte le catene **KSF** normalmente funzionano a un range di temperatura compreso tra –20 °C e +150 °C.

Un'eccezione è costituita dalle catene in acciaio inossidabile con un range tra –20 °C e +400 °C. Per temperature più elevate dovrebbe essere impiegata una lubrificazione alternativa.
È bene inoltre notare che per temperature superiori a +200 °C e inferiori a -20 °C i valori di carico di rottura sono ridotti.

The chains are produced in factories **KSF** forefront. Have applied strict quality controls to ensure compliance ISO product standards and existing industry standards, primarily ANSI, BS, DIN and JIS.
The **KSF** chains for the automotive industry meet the technical specifications of ISO/TS16949 Quality Assurance System.
This specification aligns to the standards of American quality systems (QS-9000), German (VDA6.1), French (EAQF) and Italian (AVSQ) within the global automotive industry.
All chains **KSF** normally operate at a temperature range between -20 ° C and +150 ° C.

An exception is made from stainless steel chains with a range between -20 ° C and +400 ° C. For higher temperatures should be used an alternative lubrication.
It should also be noted that for temperatures higher than +200 ° C and below -20 ° C, the values of tensile strength are reduced.

Composizione di una Catena a Rulli

Le principali dimensioni di una catena a rulli sono: il passo (P), il diametro del rulli (Dr) e la larghezza interna (W). Il passo è la distanza, misurata in millimetri, fra gli assi di due perni consecutivi della catena.
Il diametro del rullo è la misura, in millimetri, del diametro esterno dei rulli della catena.
La larghezza interna è la distanza, misurata in millimetri, che separa le due facce interne opposte delle piastre della maglia interna: spesso questa misura si identifica nominalmente con la larghezza del rullo della catena.
Le catene a rulli sono costituite da una serie di maglie interne ed esterne che si articolano l'una sull'altra,in mod da costruire un organo flessibile per la trasmissione del moto.

Roller Chain Composition

The main dimensions of a roller chain are the following: the pitch (P), the roller diameter (Dr) and the inside width (W).
The pitch is the distance, measured in millimeters, between the centers of two consecutive pins of the chain.
The roller diameter is the dimension, in millimeters, of the outside diameter of the chain rollers.
The inside width is the distance, measured in millimeters, between the two opposite inner sides of the inner link plates: often this dimension is nominally identified with the width of the chain roller.
Roller chains consist of a series of inner links and pin links, articulating together so to form a flexible device for the motion transmission.

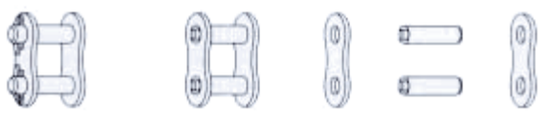
Fig. 1 - Schema di accoppiamento tra maglia interna e maglia esterna
Pict.1 – Scheme of connection between inner link and pin link

Fig. 1 a - Schema di accoppiamento Catena
Pict.1 a – Scheme of connection Chain

Maglia Interna (fig. 2) E' composta da due piastre sagomate, ciascuna provvista di due fori entro i quali vengono forzate due bussole.
Sulle bussole sono montati due rulli che riducono l'attrito durante l'ingranamento della catena con la ruota dentata.
Nelle catene a bussole, nella maglia interna, mancano i rulli.
Inner link (pict.2) the inner link consist of two shaped plates, each one provided with two holes through which two bushing are forced.
Two rollers are assembled on the bushings to reduce the friction during the gearing.
Note: bush chains do not have rollers.

Fig. 2 – Maglia interna
Pict. 2 – Inner link

Maglia Esterna (fig. 3) E' composta da due piastre collegate fra loro da due perni passanti nell'interno dei fori delle bussole di due maglie interne contigue, così da assicurare la continuità della catena (fig.1).
Se la catena è del tipo ribadita, i perni delle maglie sono ribaditi su entrambi i lati.
Se la catena è del tipo smontabile, i perni delle maglie esterne, da un alto sono ribaditi, mentre dall'altro lato sono muniti di copiglie o molletta o spine elastiche, così da permettere lo smontaggio della catena.
Pin link (pict.3) The pin link consists of two plates connected by two pins passing through the bushings holes of two contiguous inner links so to ensure the chain continuity (pict.1).
For riveted type chains, the pins of the pin links are riveted both sides.
For cottered type chains the pins of the pin links are riveted on one side while on the opposite side they are provided with cotters or spring clip or rollpins, so to allow the chain disassembly.



Tipo smontabile
Cottered type

Tipo ribadita
Riveted type

Fig. 3 – Maglia esterna
Pict. 3 – Pin link

Maglia giunto (fig. 4) E' una maglia esterna smontabile che si usa per collegare fra loro le estremità di una catena ribadita, in modo da formare un' anello chiuso.
Connecting link (pict.4) The connecting link is a cottered pin link which is used to connect the end sides of a riveted chain so to form an endless chain.

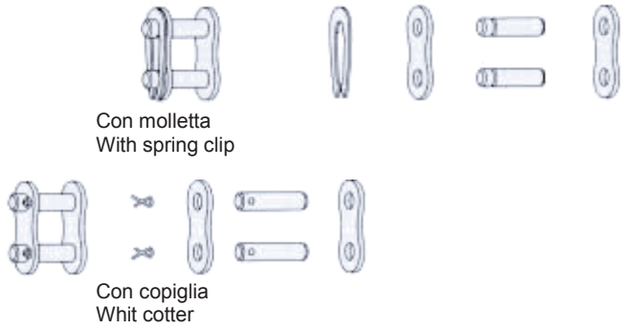


Fig. 4 – Maglia giunto
Pict. 4 – Conneting link

Maglia falsa (fig. 5) E' quella maglia che inserita nella catena permette di ottenere un' anello chiuso con numero dispari di passi (numero dispari di perni).
Essa è formata da un perno, una bussola, un rullo e da due piastre sagomate collegate fra loro per mezzo della bussola da un lato (parte di uguale larghezza di una maglia interna) e dall'altro lato per mezzo del perno (parte larga coma la maglia esterna).
La maglia falsa funziona quindi per metà come maglia interna e per metà come maglia esterna.
La maglia falsa può essere inserita nella catena all'atto del montaggio di questa in fabbrica e quindi avendo il perno smontabile coppigliato o con spina elastica, può essere montata congiuntamente con una maglia di giunzione regolare.
Nel montaggio in fabbrica di anelli chiusi di catena ribadita di numero dispari di passi si usa la maglia falsa a tre rulli (fig.6) composta dall'unione di una maglia falsa a ribadire e di una maglia interna.

Offset link (pict.5) The offset link is the link which is assembled in the chain to obtain an endless chain having and odd number of pitches (odd number of pins).
It consists of one pin, one bushing one roller and two shaped plates connected by the bushing one side (narrow side having the same width as the inner link) and by the pin the opposite side (wide side as the pin link).
Therefore the offset link is operating as half inner link and half pin link.
The offset link can be connected in the chain during the chain assembly in the factory and having the detachable pin cottered or with rollpin it can be assembly together with a regular connecting link.
In the factory for the assembly of endless riveted chains having odd number of pitches we use the offset section with three rollers (pict.6) which is made up by the connection of one riveted offset link and one inner link.

Fig.5 - Maglia falsa.
Pict.5 – Offset link

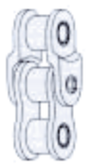


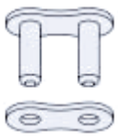
Fig. 6 – Maglia falsa a tre rulli
Pict.6 – Offset section with three rollers

Parti Catena – Chain Parts

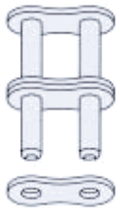
Maglia interna – Roller link

Semplice – Single

Maglia esterna – Pin link

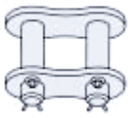


Semplice – Single

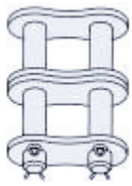


Multipla – Multiple

Giunto con copiglie – Cotter connecting link

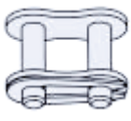


Semplice – Single

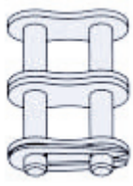


Multipla – Multiple

Giunto con molletta – Spring clip connecting link

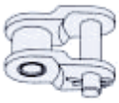


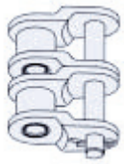
Semplice – Single



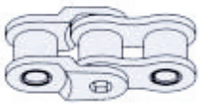
Multipla – Multiple

Maglia falsa con copiglia – Cotter offset link


Semplice – Single


Multipla – Multiple

Maglia falsa doppia – Double offset link


Semplice – Single


Multipla – Multiple

Molletta – Spring clip

Copiglia – Cotter

Perno giunto – Connecting pin

Norme base, per il Calcolo delle Trasmissioni a Catena

La determinazione dello sforzo motore, che si viene a creare nei trasportatori e negli elevatori a catena debbono sempre essere oggetto di studio specifico per una giusta determinazione e progettazione della trasmissione con l'utilizzo di catene a rulli.
Sollecitazioni, torsioni varie e flessioni, sono il problema iniziale da verificare e se possibile da neutralizzare già in fase progettuale.

Basic Formulary to Calculate Transmission with Chain

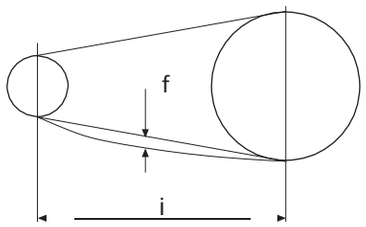
The identification of engine stress, which is present both in transporters and in chain elevators, must be studied in order to project and develop transmission with roller chains.
Strains, torsions and bends, if present, have to be neutralized during design.

Criteri di Progettazione di una Trasmissione a Catena

1) L'interasse tra ruota condotta e conduttrice, deve permettere alla catena di avvolgere la ruota conduttrice, almeno per un arco di cerchio di 120°.
2) Una tensione appropriata della catena è alla base di una buona trasmissione; a tal scopo occorre provvedere con galoppini dentati o altri mezzi normalmente in commercio (ciò quando non è possibile provvedere alla regolazione dell'interasse). La pratica porta a considerare che la freccia di flessione non debba essere superiore all'1% della dimensione dell'interasse (la quota f è da rilevarsi a metà di quest'ultimo).
3) Una buona lubrificazione, oltre a determinare il corretto ottenimento delle prestazioni fisiche, determina un valido deterrente alla normale usura della catena.

Design Criteria for a Transmission Chain

1) The centre-to-centre distance between the driving and driven wheels must allow the chain to wind around the driving wheel for a circle arc of at least of 120°.
2) Appropriate chain tension underlies good transmission; to this end it is necessary to use idler sprockets or other means normally found on the market (this is when it is not possible to regulate the centre-to-centre distance).
3) As well as ensuring proper performance, correct lubrication prevents chain wear.



$f < i/100$

Parametri da tener presente
Parameters to be remembered

Ambiente freddo Cold environment	-5°C	20 SAE
Ambiente normale Normal environment	+5 | +25°C	30 SAE
Ambient e caldo Warm environment	+25 | +45°C	40 SAE
Ambiente torrido Hot environment	+45 | +70°C	50 SAE
Altissime temperature Very high temperatures	Consultare specifiche per grassi adatti a forni Consult the specifications of greases suitable for ovens/furnaces	

La velocità e le dimensioni della catena, sono determinanti per il tipo di lubrificazione
The speed and dimensions of the chain are what dictate the type of lubrication.

ESEMPIO CATENA Chain example	**VELOCITÁ FINO Speed up to**	**SISTEMA System**
3/8	1Mt/sec	manuale manual
1”	1Mt/sec	a goccia drop type
3/8	2Mt/sec	a goccia drop type
1”	2Mt/sec	a bagno d’olio oil bath
3/8	10Mt/sec	lubrificazione forzata forced lubrication
1”	6Mt/sec	lubrificazione forzata forced lubrication

Esempio per la determinazione di una trasmissione a catena

1) Determinazione del rapporto di trasmissione
Il rapporto di trasmissione, (L) si ottiene dal quoziente tra la ruota condotta Z2 e la ruota conduttrice Z1. L=Z2/Z1

2) Coefficienti di correzione
Determinata la trasmissione, sarà utile parametrarla con i coefficienti C1 identificati tramite la tabella 1 (i dettagli alle tabelle 2-3).

3) Coefficiente C1
E' determinato dal tipo di carico a cui è soggetta la macchina, in funzione del lavoro che deve eseguire e dal tipo o quantità di inserimenti ciclici della parte conduttrice.

Example for determination of a chain transmission

1) Determining transmission ratio
The transmission ratio (L) is obtained from the quotient between the driven wheel Z2 and the driving wheel Z1.
L=Z2/Z1

2) Correction coefficients
Once the transmission has been determined, it will be useful to make it a parameter with coefficients C1 and C2 identified by means of table 1 (details in table 2 and 3).

3) C1 coefficient
This is determined by the type of load the machine is subjected to depending on the work that must be performed and type and quantity of cyclical inputs by the driving wheel.

Tab.1

	PARTE CONDUTTRICE - DRIVING PART		
Tipo di lavoro - Type of work	**Ciclo dolce** Gentle cycle	**Ciclo alternato leggero** Light alternate cycle	**Ciclo alternato medio** Medium alternate cycle
Carico costante – Constant load	1	1,1	1,3
Carico discontinuo - Discontinous load	1,4	1,5	1,7
Carico a strappi – Jerking load	1,8	1,9	2

Tab.2

Ciclo Cycle	**PARTE CONDUTTRICE - DRIVING PART**
Dolce Gentle	Motore elettrico - motore endotermico - motore idraulico - Electric motor - endothermic motor - hydraulic motor
Alternato leggero Light alternate	Motore a combustione interna ed accoppiamento meccanico - Internal combustion motor and mechanical coupling /
Alternato medio Medium alternate	Motori a combustione interna con pochi cilindri ed accoppiamento meccanico - Internal combustion motor with few cylinders and mechanical

Tab.3

Tipo di lavoro Type of work	TIPO DI MACCHINA CONDOTTA - DRIVEN PART
Carico costante **Constant load**	Pompe centrifughe - Trasportatori ad alimentazione costante - Calandre - Ventilatori - Essiccatoi - Agitatori di materiali a bassa densità Centrifuge pumps - Constant feed transporters - Calenders - Fans - Dryers - Low- density material mixers
Carico discontinuo **Discontinous load**	Compressori - Macchine per mescole - Trasportatori ad alimentazione non uniforme - Agitatori e miscelatori di solidi o ad alta densità Compressors - Mixing machines - Non-uniform feed transporters - Stirrers and mixers of solid or high-density materials
Carico a strappi **Jerking load**	Molini - Macchine lavorazione gomma - Presse - Punzonatrici - Macchine lavorazione terra - Compressori monocilindrici Mills - Rubber processing machines - Presses - Punches - Earth processing machines - Monocylindrical

USURA

Normalmente quando la catena scelta e in grado di sopportare, senza deformarsi, il tiro impostole dalla potenza trasmessa, uno dei fattori che limitano la durata della catena e l'usura delle superfici coniugate di lavoro "perno-bussola".
Si dice che una catena e usurata quanto l'allungamento determinato dall'usura delle superfici di contatto "perno-bussola" diviene eccessivo ed impedisce il corretto accoppiamento della catena con le ruote dentate della trasmissione.
Quando infatti l'allungamento supera determinati valori, il rullo della catena, all'atto di accoppiarsi con il dente della ruota dentata condotta, dalla parte non in tensione della catena, tende a portarsi sulla punta del dente anzichè sul fondo del vano fra due denti successivi.
Ciò da origine al fenomeno della catena che tende a saltare un dente della ruota dentata.
Tale fenomeno impone alla catena sollecitazioni dinamiche molto elevate e pertanto, quando l'allungamento raggiunge determinati valori (circa il 2% della lunghezza iniziale per catene di piccolo passo e il 3% per quelle di passo maggiore), la catena deve essere sostituita se non si vuole che la stessa si rompa.
E' noto infatti che la maggioranza delle trasmissioni viene progettata con l'intendimento che la catena termini la sua vita utile per usura e non per rottura di una delle sue parti componenti.
Si deduce dalle suddette considerazioni che il tiro totale sopportato dalla catena deve essere tale da permettere il raggiungimento di un certo valore percentuale di allungamento dovuto all'usura, in un tempo prefissato di funzionamento.
Normalmente, l'usura della catena e causata dalla rotazione dei perni rispetto alle bussole, dalla rotazione dei rulli

rispetto alle bussole, dalla rotazione dei rulli rispetto alle bussole e dal rotolamento dei rulli lungo il profilo dei denti delle ruote dentate.
Fra i molti i fattori che determinano l'usura più o meno rapida della catena il più importante e certamente la lubrificazione.
Particolare cura deve essere posta nel montaggio, lubrificazione e manutenzione della trasmissione a catena.

WEAR

The limiting factor in the life of a properly selected chain drive is the wear in the live-bearing area between pin and bushing.
A chain is "worn out" when elongation, due to this wearing of the pin-bushing contact area, is excessive and prevents proper meshing of the chain with the sprockets.
In fact, when elongation is excessive as the chain roller comes up to mesh with the tooth of the driven sprocket wheel (from the chain side not under tension), over-riding of the sprocket teeth may occur.
Such action induces particularly high peak loads, which, when the elongation reaches certain values (approx. 2% of the initial length for small pitch chains and 3% for those of longer pitch), the chain must be replaced.
The fact remains that the design of chains, as applied to an installation, anticipates the replacement point as the result of wear and not for breakage of a constituent part. It can be stated then, that the total load breakage of a anticipates the replacement point as the result of wear and not for breakage of a constituent part. It can be stated then, that the total load withstood by a chain must be such as to allow a certain elongation caused by wear in a predetermined utilization period.
Normal chain wear is caused by oscillation of the pins in the bushings, by the rotation of the rollers on the bushings and by the rolling contact of the rollers on the sprocket teeth.
The factors contributing to a more or less premature chain wear is the lack of adequate lubrication.
Great care must be exercised in installation, maintenance and lubrication operations for a chain drive.

FATICA

Tutti i materiali, sotto sforzi ripetuti più volte, presentano una resistenza spesso assai minore di quella che hanno quando il carico e applicato staticamente (cioè una sola volta) con intensità gradualmente crescente, come nelle ordinarie prove a trazione su provini.
Il carico limite a fatica viene definito come il carico massimo che può essere applicato un numero infinito di volte, senza che si produca rottura del materiale in esame.
Anche la catena e soggetta a rottura per fatica o, per meglio dire, il suo limite di resistenza a fatica e funzione dei limiti di resistenza a fatica degli elementi che la compongono, ossia: piastre, perni, bussole e rulli.
Questi limiti individuali sono quindi i fattori che determinano la capacità della catena di trasmettere un'assegnata potenza per un determinato periodo di tempo.
In base a quanto detto, si comprende facilmente che il limite di resistenza a fatica di una catena e più restrittivo di quanto non lo siano le considerazioni sulla capacita di sopportare carichi statici senza deformarsi.
Ne deriva, pertanto, che il carico statico di rottura, di una determinata catena, non può essere assunto quale valido indice della capacita di trasmissione di potenza da parte della catena in esame.
In altre parole, la scelta di una catena di trasmissione deve essere fatta in funzione del suo limite di resistenza a fatica.
Questo procedimento assicura che la vita utile della catena termini per usura, e non invece per rottura di una delle sue parti componenti.
Per ogni catena e per ogni numero di denti della ruota dentata relativa, esiste un diagramma della resistenza a fatica della catena stessa, in funzione della potenza da trasmettere e del numero di giri al 1' della ruota dentata.

FATIGUE

All materials, when subjected to repeated loads, display a resistance to fatigue somewhat lower than when the load is statically applied (dead load) with gradual increases.
The fatigue endurance capacity is defined as the maximum load to which a material can be subjected before failure occurs.
Roller chains will eventually "fail through fatigue" if subjected to high enough loads, in excess of the endurance capacity of the chain.
The "fail through fatigue" point is determined by the magnitude and frequency of such over-loads.
Each of these individual limits are important factors to consider in determining the ability of a chain to transmit a given power for a predetermined length of time.
On the basis of what has been mentioned, the reader can easily see that the load to which a chain can be subjected is much more restricted with high repeated loads than with static loads.
It follows then, that the ultimate strength of a given chain cannot be taken as a measure of chain performance.
A chain's true capacity rating is based upon wear durability and fatigue strength.
This ensures that the useful life of a chain is terminated through wear and not through failure of one of its constituent parts.
For each chain and matching sprocket there is a graph giving fatigue endurance data plotted for power versus sprocket wheel RPM.

LUBRIFICAZIONE

Un'adeguata lubrificazione e essenziale per garantire la lunga durata e la continuità di servizio di una trasmissione a catena.
Previene l'usura tra perno e bussola, rende più scorrevole il contatto tra i rulli e le ruote dentate, ammortizza l'impatto tra i rulli e le ruote dentate, dissipa il calore, non fa penetrare scorie e corpi estranei e protegge dall'ossidazione.
Per trasmissioni normali si raccomanda l'uso di un buon olio minerale.
Normalmente non e necessario l'utilizzo di detergenti, mentre può essere utile l'impiego di antischiuma, antiruggine e additivi che aumentano la resistenza della pellicola lubrificante.

LUBRICATION

For a maximum wear resistance within the chain drive correct lubrication is necessary.
Proper lubrication is essential to guarantee long life and satisfactory service.
It resists wear between pin and bushings, smooths engagement of the chain rollers with the sprockets, cushions roller to sprocket impact, dissipates heat, flushes away wear debris and foreign materials, and resists rust.
For normal installations a pure mineral oil is recommended.
Detergents normally are not necessary, but anti-foam, anti-rust, and film strength improving additives often are beneficial.

Room temperature	**-50 to 50°F**	**-20 to +80°F**	**23 to 41°F**	**41 to 77°F**	**77 to 113°F**	**113 to 158°F**
Temperatura ambiente	**-46 to/a +10°C**	**-29 to/a +27°C**	**-5 to/a +5°C**	**+5 to/a +25°C**	**+25 to/a +45°C**	**+45 to/a +70°C**
Class of oil viscosity	**VG 15**	**VG 22-32**	**VG 68**	**VG 100**	**VG 150**	**VG 220**
Classe di viscosità olio	(SAE 5)	(SAE 10)	(SAE 20)	(SAE 30)	(SAE 40)	(SAE 50)

Nota: assicurarsi che l'olio non sia contaminato, in particolare privo di sostanze abrasive.
Note: check the oil is not contaminated and in particular devoid of abrasive substances.

TIPI di LUBRIFICAZIONE – LUBRIFICATION TYPES

1 - LUBRIFICAZIONE MANUALE CON UN PENNELLO OD UN OLIATORE: ogni 8 ore, da applicare senza tiro sulla catena.
1 - OIL APPLIED MANUALLY WITH BRUSH OR OILER AT FREQUENT INTERVALS. once every 8 hours, when power to the drive is locked out.

2 - LUBRIFICAZIONE A GOCCIA TRAMITE UN GOCCIOLATORE: da 4 a 20 gocce al minuto in base alla velocità della catena.
2 - DRIP LUBRICATION FROM A DRIP LUBRICATOR. 4 to 20 drops per minute depending on chain speed.

- In entrambi questi 2 tipi di lubrificazione, una colorazione rossastra del lubrificante negli snodi della catena indica che l'olio utilizzato non e il più adatto. Quando si rilevano delle tracce di ruggine occorre rimuovere, pulire, rilubrificare e installare nuovamente la catena prima di riavviare.

- In both field I and field II lubrication a red-brown discoloration of the lubricant in the chain joint indicates that the oil is inadequate. When rust discoloration is found, remove, clean, re lubricate and re-install chain before continuing operation.

3 - LUBRIFICAZIONE A BAGNO D'OLIO E A DISCO. Quando viene utilizzato questo tipo di lubrificazione, la catena, nella parte più bassa del suo percorso, passa attraverso un bagno d'olio il cui livello viene mantenuto circa all'altezza della linea del passo della catena. La lubrificazione a disco viene effettuata tramite un disco che pesca nel bagno d'olio e deposita poi l'olio sulla catena.
3 - BATH OR DISK LUBRICATION. When this type of lubrication is used, the lower strand of the chain runs through a bath or pool of oil whose level is kept at about the chain pitch line. Disc type lubrication employs a rotating disc dipping in an oil bath.

4 - LUBRIFICAZIONE A CIRCOLAZIONE FORZATA. Questo tipo di lubrificazione e necessario per trasmissioni ad alte velocita o particolarmente impegnative. Una pompa manda un getto d'olio direttamente sulla catena.
Il getto deve essere indirizzato sul lato interno dell'anello di catena, possibilmente nel tratto non in tiro e subito prima che la catena ingrani con la ruota dentata.
4 - FORCED LUBRICATION, IF NECESSARY, WITH FILTER AND COOLER. Forced lubrication is needed for high speed, heavy duty drives. A pump continuously sprays oil under pressure onto the chain.
The oil should be fed inside the chain loop and at the lower strand just short of the point of engaging the sprocket.

SU RICHIESTA: E' possibile fornire catene a rulli a spezzoni o anelli nella lunghezza desiderata del cliente.

1- spezzoni aperti di catene da N passi, con terminali interni.
- spezzoni aperti di catene da N passi, compreso giunto.
- spezzoni aperti di catene da N passi, compreso giunto e falsa maglia.

2- anelli chiusi di catena da N passi compreso giunto.
- anelli chiusi di catena da N passi compreso maglia ribattuta.
- anelli chiusi di catena da N passi compreso giunto e falsa maglia.
- anelli chiusi di catena da N passi compreso maglia ribattuta e falsa maglia.

3 - spezzoni di catene a passo 3/8" al 1" semplice con alette anche a passo a posizione.

ON REQUEST: It 'can provide a roller chain segments or rings in the customer's desired length.

1 - open lengths of chains of N steps, with internal terminals.
- open portions of chains of N steps including the joint.
- open portions of chains of N steps, including the joint and connecting link.

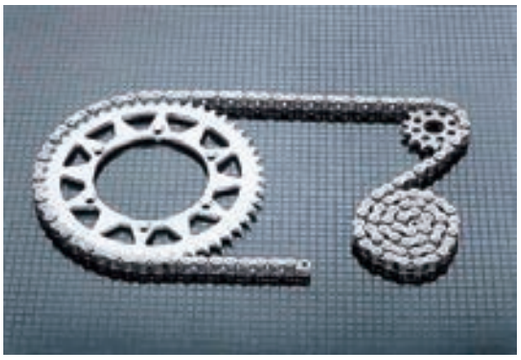
2 - closed loops of chain of N steps including joint.
- closed loops of chain mesh including N steps riveted.
- closed loops of chain of N steps including joint and connecting link.
- closed loops of chain of N steps including knitted jersey and false rebound.

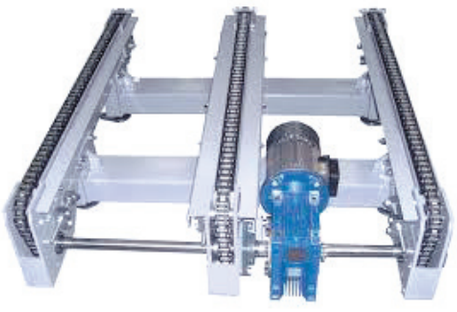
3 - lengths of chain pitch 3/8 "to 1" with wings too simple step-by-position.


K.S.F.
DRIVE CHAIN
K.S.F.
DRIVE CHAIN
K.S.F.
DRIVE CHAIN
K.S.F.
DRIVE CHAIN


K.S.F
KSF

Catena di Trasmissione – Transmission Chain



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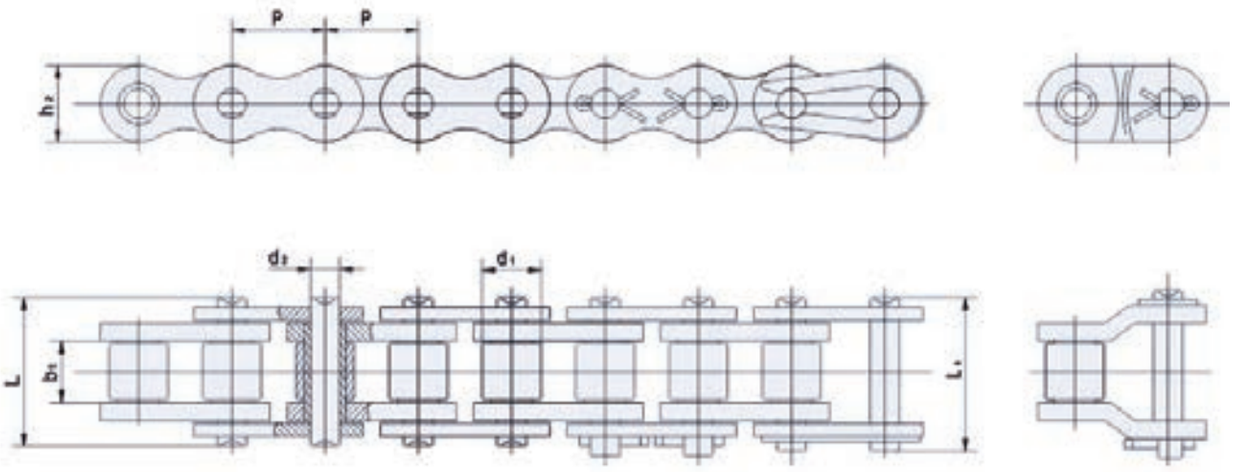
Serie Europea – European Series

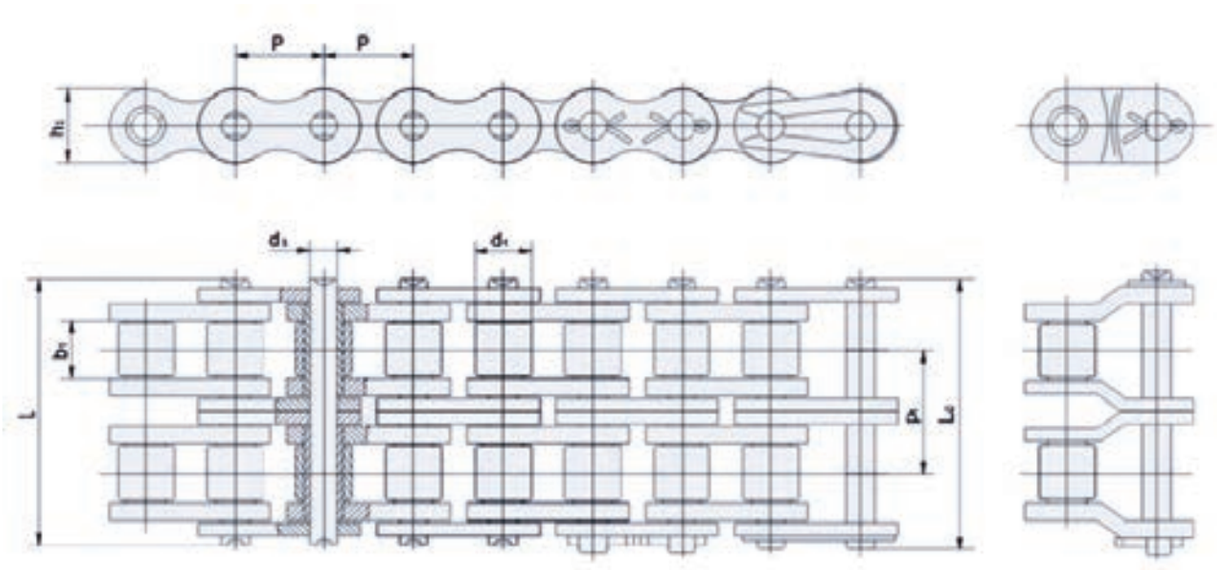


Catena Semplice – Simplex Roller Chain

DIN ISO	Passo Pitch	Diam.Rullo Roller diam.	Largh.fra le Piastre interne Width Between inner Plate	Diam.Perno Pin Diam.	Lunghezza Perno Pin Lenght		Altezza Piastra Inner Plate depth.	Carico di Rottura Massimo Ultimate Tensile Strength	Carico di Rottura Medio Average Tensile Strength	Peso al mt. Weight at meter
	P	d1 max	b1 min	d2 max	L max	Lc max	h2 max	Q min	Q0	q
	mm	mm	mm	mm	mm	mm	mm	KN	KN	kg/m
04B-1	6.00	4.00	2.80	1.85	6.80	7.80	5.00	3.00	3.40	0.11
05B-1	8.00	5.00	3.00	2.31	8.00	8.90	7.11	5.00	5.70	0.20
***06B-1**	9.525	6.35	5.72	3.28	13.20	14.20	8.20	9.00	10.20	0.41
08B-1	12.70	8.51	7.75	4.45	16.70	18.00	11.80	18.00	19.10	0.69
10B-1	15.875	10.16	9.65	5.08	19.60	21.00	14.70	22.40	26.50	0.93
12B-1	19.05	12.07	11.68	5.72	22.50	24.00	16.10	29.00	32.20	1.15
16B-1	25.40	15.88	17.02	8.28	36.00	37.20	21.05	60.00	70.40	2.71
20B-1	31.75	19.05	19.56	10.19	41.10	44.70	26.31	95.00	101.50	3.70
24B-1	38.10	25.40	25.40	14.63	53.30	57.50	33.30	160.00	174.00	7.10
28B-1	44.45	27.94	30.99	15.90	64.80	69.50	36.90	200.00	213.90	8.50
32B-1	50.80	29.21	30.99	17.81	66.20	71.00	42.10	250.00	267.50	10.25
40B-1	63.50	39.37	38.10	22.89	82.20	89.20	52.96	355.00	379.90	16.35
48B-1	76.20	48.26	45.72	29.24	99.10	107.00	63.80	560.00	599.00	25.00

*- Solo a Piastra Diritta – Only Straight Side Plate

Serie Europea – European Series

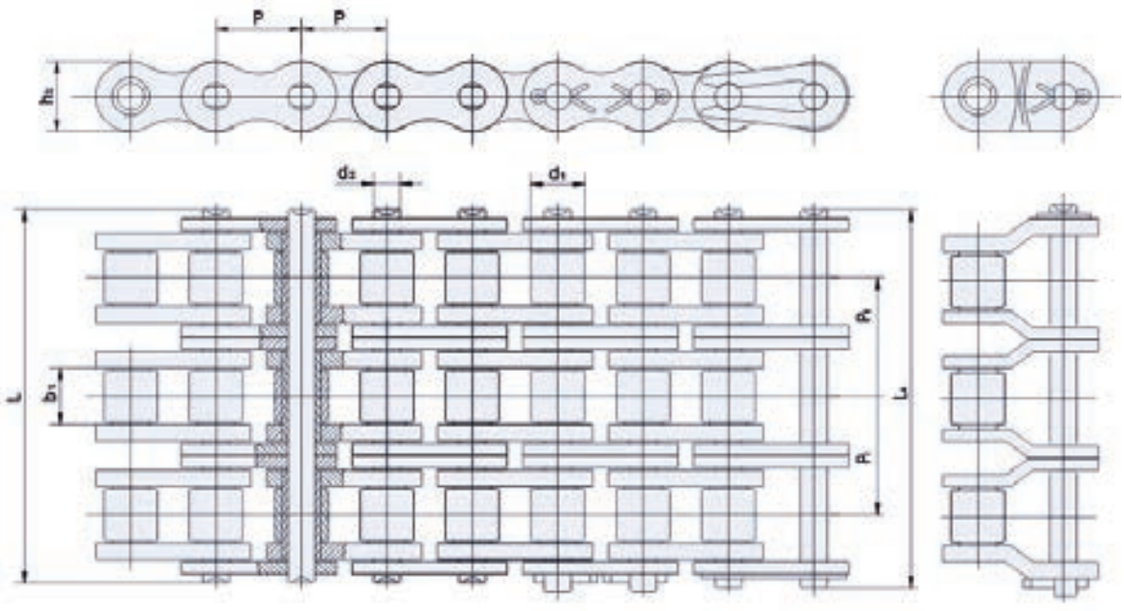


Catena Doppia – Duplex Roller Chain

DIN ISO	Passo Pitch	Diam.rullo Roller diam	Largh.fra le Piastre interne Width Between inner Plate	Diam.Perno Pin Diam	Lunghezza Perno Pin Lenght		Altezza Piastra Inner Plate depth.	Interasse Passo Transverse Pitch	Carico di Rottura Massimo Ultimate Tensile Strength	Carico di Rottura Medio Average Tensile Strength	Peso al mt. Weight at meter
	P	d1 max	b1 min	d2 max	L max	Lc max	h2 max	Pt	Q min	Q0	q
	mm	mm	mm	mm	mm	mm	mm	mm	KN	KN	kg/m
05B-2	8.00	5.00	3.00	2.31	13.90	14.50	7.11	5.64	7.80	10.40	0.33
***06B-2**	9.525	6.35	5.72	3.28	23.50	24.50	8.20	10.24	16.90	17.70	0.77
08B-2	12.70	8.51	7.75	4.45	31.00	32.10	11.80	13.92	32.00	37.30	1.34
10B-2	15.875	10.16	9.65	5.08	36.20	37.50	14.70	16.59	44.50	54.20	1.84
12B-2	19.05	12.07	11.68	5.72	42.10	43.60	16.10	19.46	57.80	65.70	2.31
16B-2	25.40	15.88	17.02	8.28	67.50	69.10	21.05	31.88	106.00	124.60	5.42
20B-2	31.75	19.05	19.56	10.19	77.20	80.90	26.30	36.45	170.00	210.00	7.20
24B-2	38.10	25.40	25.40	14.63	101.60	105.90	33.30	48.36	280.00	304.50	13.40
28B-2	44.45	27.94	30.99	15.90	124.10	129.10	36.90	59.56	360.00	385.30	16.60
32B-2	50.80	29.21	30.99	17.81	124.60	129.60	42.10	58.55	450.00	477.00	21.00
40B-2	63.50	39.37	38.10	22.89	154.50	161.50	52.96	72.29	630.00	667.50	32.00
48B-2	76.20	48.26	45.72	29.24	190.40	198.20	63.80	91.21	1000.00	1060.20	50.00

*- Solo a Piastra Diritta – Only Straight Side Plate

Serie Europea – European Series

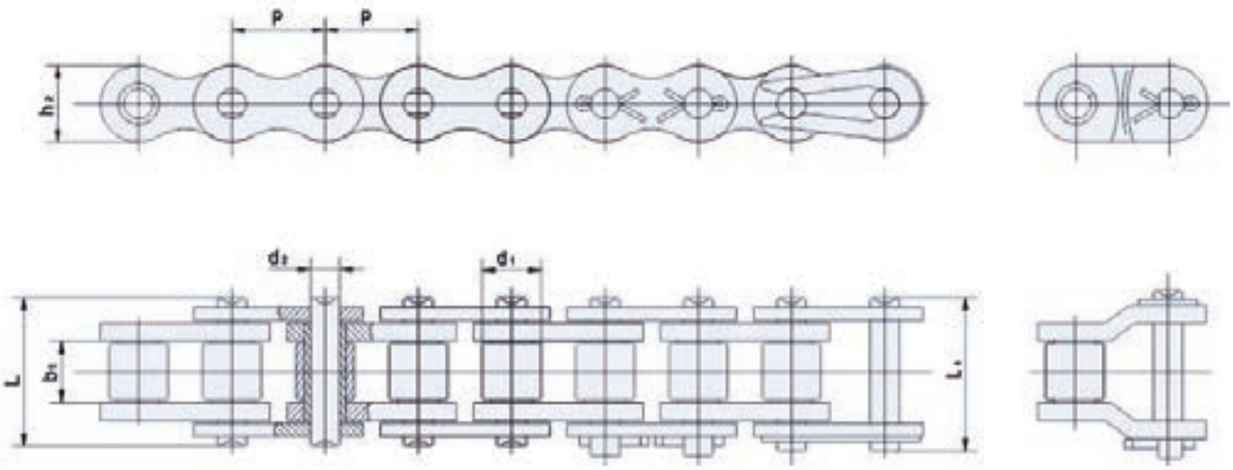


Catena Tripla – Triplex Roller Chain

DIN ISO	Passo Pitch	Diam.Rullo Roller diam	Largh.fra le Piastre interne Width Between inner Plate	Diam.Perno Pin Diam	Lunghezza Perno Pin Lenght		Altezza Piastra Inner Plate depth.	Interasse Passo Transverse Pitch	Carico di Rottura Massimo Ultimate Tensile Strength	Carico di Rottura Medio Average Tensile Strength	Peso al mt. Weight at meter
	P	d1 max	b1 min	d2 max	L max	Lc max	h2 max	Pt	Q min	Q0	q
	mm	mm	mm	mm	mm	mm	mm	mm	KN	KN	kg/m
05B-3	8.00	5.00	3.00	2.31	19.40	19.90	7.10	5.64	11.10	13.80	0.48
***06B-3**	9.525	6.35	5.72	3.28	33.50	34.60	8.20	10.24	24.90	30.10	1.16
08B-3	12.70	8.51	7.75	4.45	45.10	46.10	11.80	13.92	47.50	57.80	2.03
10B-3	15.875	10.16	9.65	5.08	52.70	54.10	14.70	16.59	66.70	84.50	2.77
12B-3	19.05	12.07	11.68	5.72	61.50	63.10	16.00	19.46	86.70	101.80	3.46
16B-3	25.40	15.88	17.02	8.28	99.80	101.20	21.00	31.88	160.00	203.70	8.13
20B-3	31.75	19.05	19.56	10.19	114.20	117.90	26.40	36.45	250.00	290.00	10.82
24B-3	38.10	25.40	25.40	14.63	150.10	154.60	33.20	48.36	425.00	493.00	20.10
28B-3	44.45	27.94	30.99	15.90	184.20	188.70	36.90	59.56	530.00	609.50	24.92
32B-3	50.80	29.21	30.99	17.81	183.10	188.00	42.10	58.55	670.00	770.50	31.56
40B-3	63.50	39.37	38.10	22.89	226.80	233.80	52.96	72.29	950.00	1092.50	48.10
48B-3	76.20	48.26	45.72	29.24	281.60	289.40	63.80	91.21	1500.00	1710.00	75.00

*- Solo a Piastra Diritta – Only Straight Side Plate

Serie ASA Americana – ASA American Series

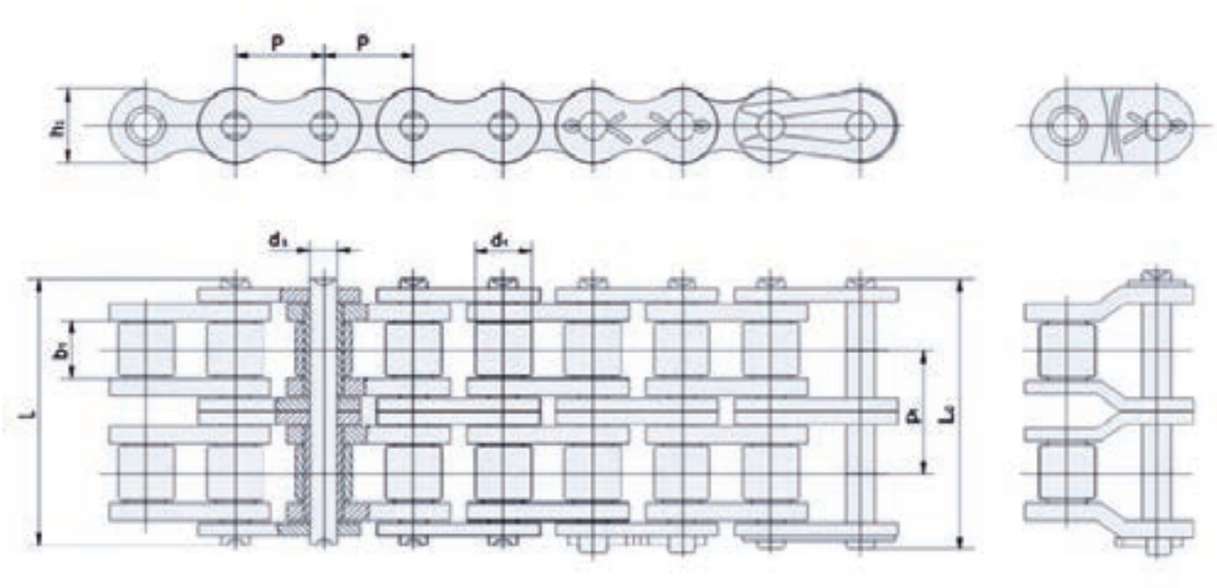


Catena Semplice – Simplex Roller Chain

DIN ISO	ANSI	Passo Pitch	Diam.Rullo Roller Diam.	Largh.fra le Piastre interne Width Between inner Plate	Diam.Perno Pin Diam.	Lunghezza Perno Pin Length		Altezza Piastra Inner Plate Depth.	Carico di Rottura Massimo Ultimate Tensile Strength	Carico di Rottura Medio Average Tensile Strength	Peso al mt. Weight at meter
		P	d1 max	b1 min	d2 max	L max	Lc max	h2 max	Q min	Q0	q
		mm	mm	mm	mm	mm	mm	mm	KN	KN	kg/m
*04C-1	*25	6.35	3.30	3.18	2.31	7.80	8.45	5.90	3.5	4.3	0.15
*06C-1	*35	9.525	5.08	4.77	3.58	12.15	13.1	8.95	7.9	9.8	0.33
085-1	41	12.7	7.77	6.25	3.58	13.75	15.4	9.90	6.67	11.7	0.41
08A-1	40	12.7	7.95	7.85	3.96	16.6	17.75	11.90	14.1	17.1	0.62
10A-1	50	15.875	10.16	9.40	5.08	20.90	22.2	15.09	22.2	26.4	1.02
12A-1	60	19.05	11.91	12.57	5.94	25.9	27.5	18.0	31.8	38.8	1.50
16A-1	80	25.4	15.88	15.75	7.92	32.80	34.9	24.10	56.7	64.8	2.60
20A-1	100	31.75	19.05	18.90	9.53	40.0	43.2	30.10	88.5	101.8	3.91
24A-1	120	38.1	22.23	25.22	11.10	50.45	53.4	36.10	127.0	147.1	5.62
28A-1	140	44.45	25.40	25.22	12.70	54.20	59.0	42.10	172.4	197.9	7.50
32A-1	160	50.8	28.58	31.55	14.27	64.30	69.6	48.10	226.8	260.2	10.10
36A-1	180	57.15	35.71	35.48	17.46	72.8	78.6	53.6	280.2	327.9	13.45
40A-1	200	63.5	39.68	37.85	19.85	80.3	87.2	60.0	353.8	405.0	16.15
48A-1	240	76.2	47.63	47.35	23.81	95.5	103.0	72.39	510.3	585.5	23.20

*- Solo a Piastra Diritta – Only Straight Side Plate

Serie ASA Americana – ASA American Series

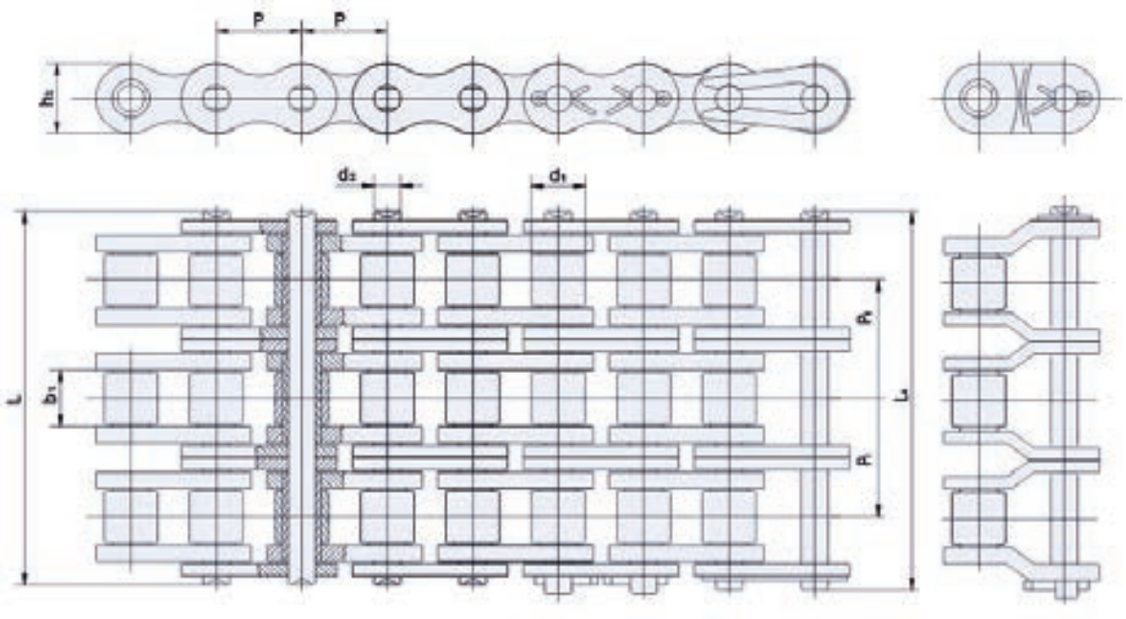


Catena Doppia – Duplex Roller Chain

DIN ISO	ANSI	Passo Pitch	Diam.Rullo Roller Diam.	Largh.fra le Piastre Interne Width Between inner Plate	Diam. Perno Pin Diam.	Lunghezza Perno Pin Length		Altezza Piastra Inner Plate Depth.	Interasse Passo Transverse Pitch	Carico di Rottura Massimo Ultimate Tensile Strength	Carico di Rottura Medio Average Tensile Strength	Peso al mt. Weight at meter
		P	d1 max	b1 min	d2 max	L max	Lc max	h2 max	Pt	Q min	Q0	q
		mm	mm	mm	mm	mm	mm	mm	mm	KN	KN	kg/m
*04C-2	*25-2	6.35	3.30	3.18	2.31	14.5	15.15	5.90	6.40	7.0	8.3	0.28
*06C-2	*35-2	9.525	5.08	4.77	3.58	22.5	23.4	8.95	10.13	15.8	19.1	0.63
08A-2	40-2	12.7	7.95	7.85	3.96	31.1	32.25	11.90	14.38	28.2	33.7	1.12
10A-2	50-2	15.875	10.16	9.40	5.08	39.0	40.3	15.00	18.11	44.4	55.3	2.00
12A-2	60-2	19.05	11.91	12.57	5.94	48.8	50.3	18.0	22.78	63.6	83.2	2.92
16A-2	80-2	25.4	15.88	15.75	7.92	61.9	64.2	24.10	29.29	113.4	140.0	5.15
20A-2	100-2	31.75	19.05	18.90	9.53	76.2	80.5	30.10	35.76	177.0	202.8	7.80
24A-2	120-2	38.1	22.23	25.22	11.10	95.4	99.7	36.0	45.44	254.0	291.4	11.70
28A-2	140-2	44.45	25.40	25.22	12.70	103.10	107.9	42.0	48.87	344.8	295.7	15.14
32A-2	160-2	50.8	28.58	31.55	14.27	122.90	128.1	48.0	58.55	453.6	520.5	20.14
36A-2	180-2	57.15	35.71	35.48	17.46	138.6	144.4	53.6	65.84	560.5	655.7	29.22
40A-2	200-2	63.5	39.68	37.85	19.85	151.9	158.8	60.0	71.55	707.6	748.8	32.24
48A-2	240-2	76.2	47.63	47.35	23.81	183.4	190.8	72.39	87.83	1020.6	1170.6	45.23

*- Solo a Piastra Diritta – Only Straight Side Plate

Serie ASA Americana – ASA American Series

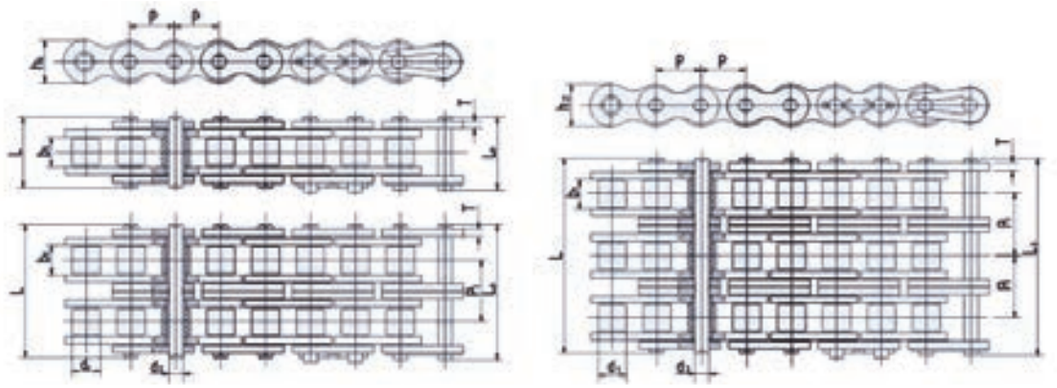


Catena Tripla – Triplex Roller Chain

DIN ISO	ANSI	Passo Pitch	Diam.Rullo Roller Diam.	Largh.fra le piastre interne Width Between inner Plate	Diam.Perno Pin Diam.	Lunghezza Perno Pin Length		Altezza Piastra Inner Plate Depth.	Interasse Passo Transverse Pitch	Carico di Rottura Massimo Ultimate Tensile Strength	Carico di Rottura Medio Average Tensile Strength	Peso al mt. Weight at meter
		P	d1 max	b1 min	d2 max	L max	Lc max	h2 max	Pt	Q min	Q0	q
		mm	mm	mm	mm	mm	mm	mm	mm	KN	KN	kg/m
*06C-3	*35-3	9.525	5.08	4.77	3.58	32.8	33.7	8.9	10.13	23.7	28.7	1.05
08A-3	40-3	12.7	7.95	7.85	3.96	45.6	47.0	11.9	14.38	42.3	50.1	1.90
10A-3	50-3	15.875	10.16	9.40	5.08	57.40	59.1	15.0	18.11	66.6	77.8	3.09
12A-3	60-3	19.05	11.91	12.57	5.94	71.5	73.2	18.0	22.78	95.4	111.1	4.54
16A-3	80-3	25.4	15.88	15.75	7.92	91.60	93.3	24.10	29.29	170.1	198.4	7.89
20A-3	100-3	31.75	19.05	18.90	9.53	111.6	116.3	30.00	35.76	265.5	309.5	11.77
24A-3	120-3	38.1	22.23	25.22	11.10	141.0	145.2	36.0	45.44	381.0	437.2	17.53
28A-3	140-3	44.45	25.40	25.22	12.70	151.80	156.8	42.0	48.87	517.2	593.1	22.20
32A-3	160-3	50.8	28.58	31.55	14.27	181.40	186.6	48.0	58.55	680.4	780.6	30.02
36A-3	180-3	57.15	35.71	35.48	17.46	204.4	210.2	53.6	65.84	840.7	983.8	38.22
40A-3	200-3	63.5	39.68	37.85	19.85	223.5	230.4	60.0	71.55	1061.4	1217.8	49.03
48A-3	240-3	76.2	47.63	47.35	23.81	271.3	278.6	72.39	87.83	1530.9	1756.6	71.60

*- Solo a Piastra Diritta – Only Straight Side Plate

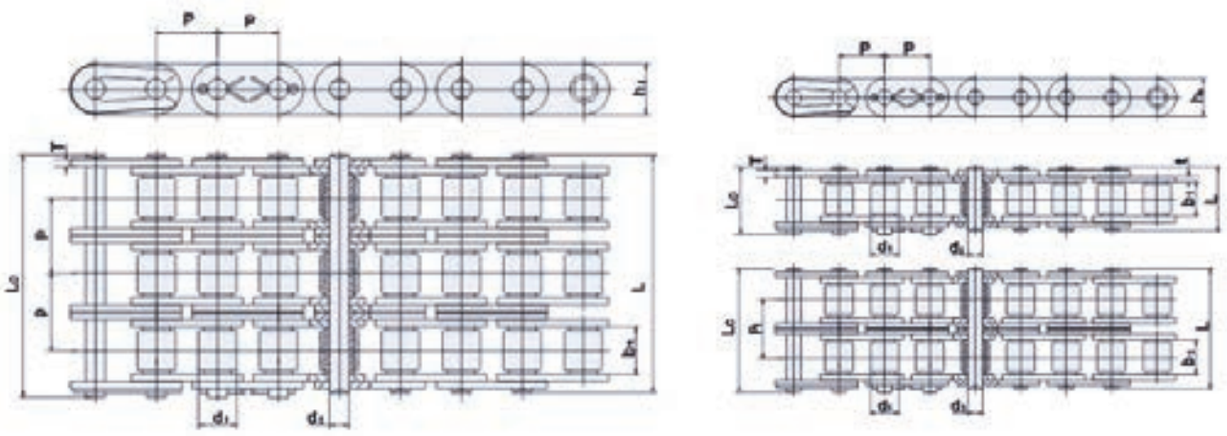
Serie Pesante ASA Americana – ASA Heavy American Series



Catena Semplice/Doppia/Tripla – Simplex/Duplex/Triplex Roller Chain

DIN ISO	ANSI	Passo Pitch	Diam. Rullo Roller Diam.	Largh.fra le Piastre Interne Width Between Inner Plate	Diam. Perno Pin Diam.	Lunghezza Perno Pin Lenght		Altezza Piastra Inner Plate depth.	Inter. Passo Transv. Pitch	Carico di Rottura Massimo Ultimate Tensile Strenght	Carico di Rottura Medio Average Tensile Strenght	Peso al mt. Weight at meter
		P	d1 max	b1 min	d2 max	L max	Lc max	h2 max	Pt	Q min	Q0	q
		mm	mm	mm	mm	mm	mm	mm	mm	KN	KN	kg/m
10AH-1	50H	15.875	10.16	9.40	5.08	22.1	23.4	150.9		22.2	27.7	1.25
12AH-1	60H	19.05	11.91	12.57	5.94	29.2	31.0	18.0		31.8	39.8	1.87
16AH-1	80H	25.4	15.88	15.75	7.92	36.2	37.7	24.0		56.7	67.6	3.10
20AH-1	100H	31.75	19.05	18.90	9.53	43.6	46.9	30.0		88.5	105.5	4.52
24AH-1	120H	38.1	22.23	25.22	11.10	53.5	57.5	35.7		127.0	150.4	6.60
28AH-1	140H	44.45	25.40	25.22	12.70	57.6	62.2	41.0		172.4	204.4	8.30
32AH-1	160H	50.8	28.58	31.55	14.27	68.2	73.0	47.8		226.8	266.8	10.30
12AH-2	60H-2	19.05	11.91	12.57	5.94	55.3	57.1	18.0	26.11	63.6	84.2	13.71
16AH-2	80H-2	25.4	15.88	15.75	7.92	68.8	70.3	24.0	32.59	113.4	142.5	6.15
20AH-2	100H-2	31.75	19.05	18.90	9.53	82.7	86.0	30.0	39.09	117.0	209.9	9.03
24AH-2	120H-2	38.1	22.23	25.22	11.10	102.4	106.4	35.7	48.87	254.0	296.4	13.13
28AH-2	140H-2	44.45	25.40	25.22	12.70	109.8	114.4	41.0	52.20	344.8	399.5	16.60
32AH-2	160H-2	50.8	28.58	31.55	14.27	130.1	134.9	47.8	61.90	453.6	528.6	20.20
12AH-3	60H-2	19.05	11.91	12.57	5.94	81.4	83.2	18.0	26.11	95.4	113.9	5.54
16AH-3	80H-2	25.4	15.88	15.75	7.92	101.4	102.9	24.0	32.59	170.1	203.4	9.42
20AH-3	100H-2	31.75	19.05	18.90	9.53	121.8	125.1	30.0	39.09	265.5	314.8	12.96
24AH-3	120H-2	38.1	22.23	25.22	11.10	151.2	155.2	35.7	48.87	381.0	444.4	19.64
28AH-3	140H-2	44.45	25.40	25.22	12.70	162.0	166.6	41.0	52.20	517.2	598.4	24.90
32AH-3	160H-2	50.8	28.58	31.55	14.27	192.0	196.8	47.8	61.90	680.4	787.3	30.10

Catena a Piastre Dritte – Chain with Straight side Plates

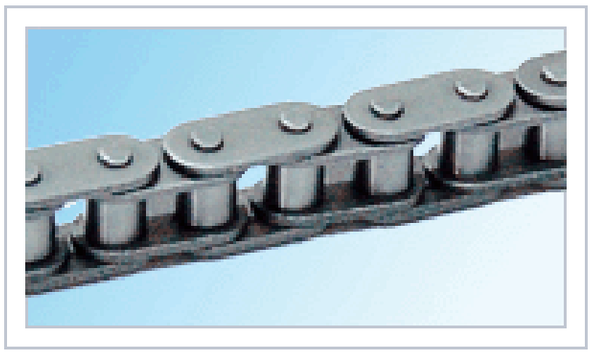


Serie Europea – European Series

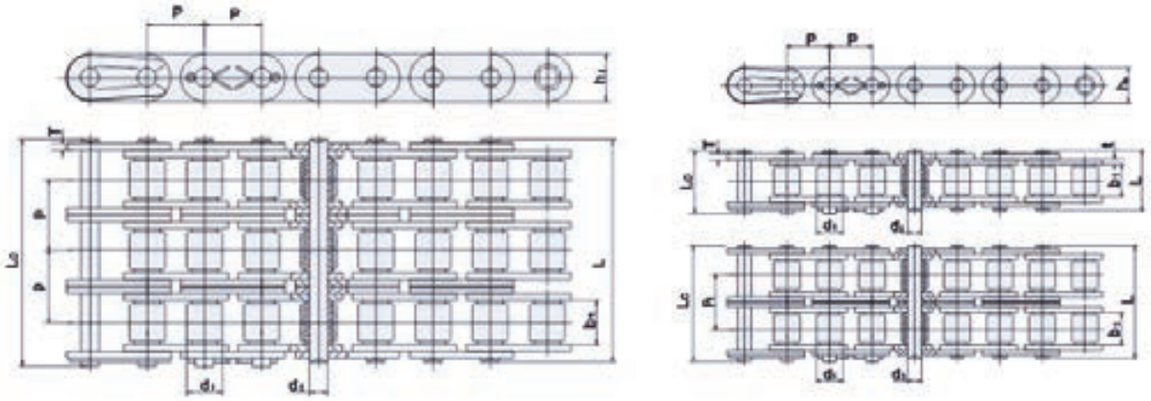
DIN ISO	Passo Pitch	Diam.Rullo Roller Diam.	Largh.fra le Piastre Interne Width Between inner Plate	Diam.Perno Pin Diam.	Lunghezza Perno Pin Lenght		Altezza Piastra Inner Plate depth.	Interasse Passo Transverse Pitch	Carico di Rottura Massimo Ultimate Tensile Strength	Carico di Rottura Medio Average Tensile Strength	Peso al mt. Weight at meter
	P	d1 max	b1 min	d2 max	L max	Lc max	h2 max	Pt	Q min	Q0	q
	mm	mm	mm	mm	mm	mm	mm	mm	KN	KN	kg/m
C08B-1	12.7	8.51	7.75	4.45	16.7	18.2	11.8		18.0	19.4	0.80
C10B-1	15.875	10.16	9.65	5.08	19.5	20.9	14.7		22.4	26.8	1.06
C12B-1	19.05	12.07	11.68	5.72	22.5	25.2	116.0		29.0	31.2	1.32
C16B-1	25.4	15.88	17.02	8.28	36.1	39.1	21.0		60.0	70.0	2.90
C20B-1	31.75	19.05	19.56	10.19	41.3	45.0	26.4		95.0	101.5	4.16
C24B-1	38.1	25.40	25.40	14.63	53.4	57.8	33.2		1160.0	174.0	7.47
C28B-1	44.45	27.94	30.99	15.90	65.1	69.5	36.7		200.0	214.0	9.90
C32B-1	50.8	29.21	30.99	17.81	66.0	71.0	42.0		250.0	267.4	110.45
C08B-2	12.7	8.51	7.75	4.45	31.2	32.2	11.8	13.92	32.0	37.4	1.45
C10B-2	15.875	10.16	9.65	5.08	36.1	37.5	48.0	16.59	44.5	57.9	2.00
C12B-2	19.05	12.07	11.68	5.72	42.0	44.7	53.6	19.46	57.8	65.7	2.62
C16B-2	25.4	15.88	17.02	8.28	68.0	71.0	60.0	31.88	106.0	124.4	5.80
C20B-2	31.75	19.05	19.56	10.19	77.8	81.5	72.39	36.45	170.0	210.0	8.23
C24B-2	38.1	25.40	25.40	14.63	101.7	106.2	5.90	48.36	280.0	304.5	14.77
C28B-2	44.45	27.94	30.99	15.90	124.6	129.1	8.95	59.56	360.0	385.3	19.68
C32B-2	50.8	29.21	30.99	17.81	124.6	129.6	11.90	58.55	450.0	477.0	20.62

DIN ISO	Passo Pitch	Diam.Rullo Roller Diam.	Largh.fra le Piastre Interne Width Between inner Plate	Diam.Perno Pin Diam.	Lunghezza Perno Pin Lenght		Altezza Piastra Inner Plate depth.	Interasse Passo Transverse Pitch	Carico di Rottura Massimo Ultimate Tensile Strength	Carico di Rottura Medio Average Tensile Strength	Peso al mt. Weight at meter
	P	d1 max	b1 min	d2 max	L max	Lc max	h2 max	Pt	Q min	Q0	q
	mm	mm	mm	mm	mm	mm	mm	mm	KN	KN	kg/m
C08B-3	12.7	8.51	7.75	4.45	45.1	461	15.00	13.92	47.5	50.4	2.10
C10B-3	15.875	10.16	9.65	5.08	52.7	54.1	18.0	16.59	66.7	79.6	2.87
C12B-3	19.05	12.07	11.68	5.72	61.5	64.2	21.10	19.46	186.7	101.9	3.89
C16B-3	25.4	15.88	17.02	8.28	99.8	102.9	30.10	31.88	160.0	188.0	8.70
C20B-3	31.75	19.05	19.56	10.19	114.2	117.9	36.0	36.45	250.0	266.7	111.34
C24B-3	38.1	25.40	25.40	14.63	150.1	154.6	42.0	48.36	425.0	462.2	22.10
C28B-3	44.45	27.94	30.99	15.90	184.2	188.7	48.0	59.56	530.0	561.7	29.47
C32B-3	50.8	29.21	30.99	17.81	183.2	188.2	53.6	58.55	670.0	710.3	30.85

- La Boccola della Catena dim.**d1** in tabella indica il diametro esterno della Boccola
- Bushing Chain **d1** in the table indicate the external diameter of the bushing



Serie ASA Americana – ASA American Series



DIN ISO	ANSI	Passo Pitch	Diam. Rullo Roller Diam.	Largh.fra le Piastre Interne Width Between inner Plate	Diam. Perno Pin Diam.	Lunghezza Perno Pin Lenght		Altezza Piastra Inner Plate depth.	Interasse Passo Transverse Pitch	Carico di Rottura Massimo Ultimate Tensile Strenght	Carico di Rottura Medio Average Tensile Strenght	Peso al mt. Weight at meter
		P	d1 max	b1 min	d2 max	L max	Lc max	h2 max	Pt	Q min	Q0	q
		mm	mm	mm	mm	mm	mm	mm	mm	KN	KN	kg/m
C08A-1	C40	12.7	7.95	7.85	3.96	16.6	18.8	12.0		14.1	17.2	0.73
C10A-1	C50	15.875	10.16	9.40	5.08	20.7	23.3	15.09		22.2	26.6	1.23
C12A-1	C60	19.05	11.91	12.57	5.94	25.9	28.3	18.0		31.8	38.8	1.78
C16A-1	C80	25.4	15.88	15.75	7.92	32.7	36.5	24.0		56.7	64.9	3.09
C20A-1	C100	31.75	19.05	18.90	9.53	40.4	44.7	30.0		88.5	101.5	4.56
C24A-1	C120	38.1	22.23	25.22	11.10	50.3	54.3	35.7		127.0	147.0	6.86
C28A-1	C140	44.45	25.40	25.22	12.70	54.4	59.0	41.0		172.4	197.5	8.49
C32A-1	C160	50.8	28.58	31.55	14.27	64.8	69.6	47.8		226.8	260.2	11.50
C08A-2	C40-2	12.7	7.95	7.85	3.96	31.0	33.2	12.0	14.38	28.2	33.8	1.43
C10A-2	C50-2	15.875	10.16	9.40	5.08	38.9	41.4	15.09	18.11	44.4	55.4	2.42
C12A-2	C60-2	19.05	11.91	12.57	5.94	48.8	51.1	18.0	22.78	63.6	83.2	3.53
C16A-2	C80-2	25.4	15.88	15.75	7.92	62.7	65.8	24.0	29.29	113.4	140.0	6.12
C20A-2	C100-2	31.75	19.05	18.90	9.53	76.4	80.5	30.0	35.76	177.0	202.7	9.08
C24A-2	C120-2	38.1	22.23	25.22	11.10	95.8	99.7	35.7	45.44	254.0	291.4	13.60
C28A-2	C140-2	44.45	25.40	25.22	12.70	103.3	107.9	41.0	48.87	344.8	395.5	16.86
C32A-2	C160-2	50.8	28.58	31.55	14.27	123.3	128.1	47.8	58.55	453.6	520.5	22.90
C08A-3	C40-3	12.7	7.95	7.85	3.96	45.4	47.6	12.0	14.38	42.3	50.2	2.14
C10A-3	C50-3	15.875	10.16	9.40	5.08	57.0	59.5	15.09	18.1	66.6	77.7	3.62
C12A-3	C60-3	19.05	11.91	12.57	5.94	71.5	73.9	18.0	22.78	195.4	111.1	5.28
C16A-3	C80-3	25.4	15.88	15.75	7.92	91.7	95.1	24.0	29.29	170.1	198.4	9.10
C20A-3	C100-3	31.75	19.05	18.90	19.53	112.2	116.3	30.0	35.76	265.5	309.7	13.60
C24A-3	C120-3	38.1	22.23	25.22	11.10	141.4	145.2	35.7	45.44	381.0	437.2	20.43
C28A-3	C140-3	44.45	25.40	25.22	12.70	152.2	156.8	41.0	48.87	517.2	593.4	25.23
C32A-3	C160-3	50.8	28.58	31.55	14.27	181.8	186.6	47.8	58.55	680.4	780.6	34.19

- La Boccola della Catena dim.**d1** in tabella indica il diametro esterno della Boccola
- Bushing Chain **d1** in the table indicate the external diameter of the bushing

Catene di Trasmissione Speciali – Transmission Special Chains

SERIE NICHELATA CHIMICAMENTE (NP)

La nichelatura chimica delle catene **KSF….. NP** garantisce un'ottima aderenza del rivestimento al metallo di base.
Il rivestimento è uniforme e compatto.
Queste caratteristiche assicurano un'ottima resistenza alla corrosione, anche in ambienti leggermente corrosivi (esterni, esposti a contatto con acqua di mare etc.). ulteriormente incrementata dalla presenza di una percentuale controllata di fosforo, garantisce un'ottima resistenza all'usura e riduce l'attrito.
Tutti i particolari vengono nichelati chimicamente prima del montaggio.
La resistenza meccanica di queste catene è la stessa delle catene standard.
Aspetto argenteo brillante.
Frequenti le applicazioni in campo alimentare.
Solitamente queste catene non vengono fornite pre-lubrificate onde evitare l'utilizzo di lubrificanti non compatibili con l'applicazione (non conosciuta a priori) a cui sono destinate.
Le catene vengono lubrificate con il lubrificante più adatto al momento dell'installazione (vedere paragrafo selezione lubrificante).
Le catene con nichelatura galvanica (NGP) e quelle con zincatura galvanica
(WZP) possono essere prodotte su richiesta.
Questi rivestimenti sono entrambi più economici rispetto alla serie NP
– in particolare le catene WZP – ma le loro caratteristiche di comportamento, in termini di resistenza alla corrosione ed all'usura, sono inferiori se paragonate alla serie nichelata chimicamente che è sempre disponibile a magazzino.
Catene con altri trattamenti particolari, come la nitrurazione, possono essere fornite su richiesta.
Il processo di nitrurazione richiede l'utilizzo di speciali acciai legati.
Viene effettuato sui particolari bonificati e produce uno strato esterno di 0,2 – 0,3 mm di spessore (max.) di nitruri di ferro(Fe4N) che aumentano in modo considerevole la durezza superficiale.
La nitrurazione permette di ottenere valori di durezza superficiale fino a 1.000 – 1.200 HV, mentre con i tradizionali processi di cementazione si ottengono valori intorno a 650-700 HV.

CHEMICALLY NICKEL PLATED SERIES (NP SERIES)

The chemical plating of the **KSF …. NP** chains provides a very good adherence of the plating to the base metal.
Plating is uniform and compact.
These characteristics provide a very good corrosion resistance to slightly corrosive environments (outdoors, exposure to sea water etc).
The high surface hardness, which is further improved by the presence of controlled percentages of phosphorus, provides a very good wear resistance and low friction coefficient.
All components are nickel plated prior to assembly.
The mechanical strength of the chain is the same as in the standard (not plated chains).
Excellent silver like appearance.
Frequent applications in the food / food packaging industries.
Normally these chains are not supplied pre-lubricated to avoid the use of lubricants not compatible with the application where the chains will be used.
When installed, the chains should be lubricated with the selected lubricant (see Lubricant selection table for more).
Galvanic nickel plated (NGP) and zinc-chromium plated (WZP) chains can be manufactured on request.
Both these platings are more economical than NP series
– in particular WZP chains- but their performance characteristics, in terms of corrosion resistance and wear resistance are lower if compared to the Chemically Nickel plated series always in stock.
Chains with other special treatments, such as nitriding, can be supplied on request.
The nitriding process requires the use of special alloy steels.
It is done on thru-hardened components and generates an outer layer 0.2 to 0.3mm thick (max) of iron nitrides (Fe4N) which significantly increase surface hardness.
Nitriding allows to get values of surface hardness up to 1000÷1200 HV, compared to the 650÷700 HV of the traditional carburizing process followed for standard chains.

CATENE A RULLI IN ACCIAIO INOX (SERIE SS)

Richieste per applicazioni in ambienti corrosivi (presenza di agenti chimici, di soluzioni acide o alcaline), oppure per funzionamento a temperature al di sotto dello zero o temperature molto elevate.
La serie standard **KSF …. SS** è interamente costruita in acciaio inox AISI 302-304.
Queste leghe di acciaio al cromo-nickel (composizione
18/8 o 18/10) sono incrudite per migliorare la resistenza meccanica.
Quando incruditi questi acciai diventano leggermente magnetici.
Questi acciai possono sopportare temperature fino a 400°C (752°F) senza problemi.
Per applicazioni con temperature superiori, consultare il nostro Servizio Tecnico.
Gli acciai inox temprati, serie AISI 410 martensitici, vengono utilizzati principalmente per la costruzione dei particolari tondi (perni, bussole e rulli) per aumentare la resistenza all'usura.
La loro resistenza meccanica è superiore rispetto agli acciai AISI 300 ma la loro resistenza agli agenti corrosivi è inferiore.

Sono acciai magnetici.
Produzione su richiesta.
Gli acciai inox AISI 600 PH, acciai indurenti per precipitazione, vengono utilizzati principalmente per la costruzione dei particolari tondi quando è richiesta una più elevata resistenza meccanica unita ad una buona resistenza alla corrosione.
Sono acciai magnetici.
Produzione su richiesta.
Le catene inox sono disponibili sia nella serie europea sia nella serie ANSI.
Le catene in acciaio inox hanno caratteristiche meccaniche generalmente inferiori rispetto alle catene in acciaio al carbonio ed il loro costo è molto più elevato.
Per impieghi in ambienti leggermente corrosivi le catene **KSF …. NP** nichelate chimicamente possono rappresentare la soluzione più adeguata.

STAINLESS STEEL CHAINS (SS SERIES)

Required in corrosive environments (presence of chemical agents as alkalis or acids), temperature below freezing point and high temperature applications.
AISI 302-304 austenitic nonmagnetic steels are used for the standard **KSF …. SS** series.
These chromium-nickel steel alloys (18/8 or 18/10 % composition) are worked hardened in order to improve mechanical resistance.
When worked hardened, these steels become slightly magnetic.
These steels can withstand operating temperatures up to 400 °C (752 °F) without problems.
For higher temperatures please consult our Technical Service.
AISI 410 martensitic, thru hardened stainless steels are used in particular on rounded parts (pins and bushings) to increase wear resistance.
Their mechanical strength is higher than AISI 300 steels but their resistance to corrosive environments is lower.
These are magnetic steels.
Production on request.
AISI 600 hardened by precipitation (PH) stainless steels are used in particular for rounded parts (pins, bushings and rollers) when a better mechanical resistance coupled with a very good corrosion resistance is required.
Production on request.
Magnetic steels.
KSF …. SS chains are available in European and ANSI standard series.
Stainless steel chains in general have lower mechanical characteristics than carbon steel chains and their cost is much higher.
For mildly corrosive environments **,KSF …. NP** Chemically Nickel
plated chains might be a more adequate solution.

CATENE A RULLI CON O-RING

Il concetto delle catene O-Ring si origina dalla necessità di dotare la catena di un sistema autolubrificante.
La caratteristica delle catene O-Ring sono gli anelli elastici o-ring posizionati sulle estremità delle bussole che fuoriescono leggermente dalle piastre interne.
Gli o-ring sono schiacciati contro le pareti delle piastre interne ed esterne.
Durante il montaggio della catena, gli o-ring sigillano il lubrificante presente tra perno e bussola.
Questo lubrificante sigillato rimane isolato dall'ambiente esterno (che potrebbe essere abrasivo e/o corrosivo) mantenendo l'interno dell'articolazione ben lubrificato.
Gli o-ring per le catene di trasmissione e trasporto sono costruiti con una speciale gomma nitrilica che può avere caratteristiche diverse conformemente al tipo di applicazione a cui sono destinate.
Possono essere costruiti con materiali capaci di resistere ad alte temperature (Viton), materiali resistenti all'usura meccanica (gomma nitrilica, idrogenata, poliuretano) o avere sezioni dalla geometria particolare (circolare, quadrata, X-Ring, V-Ring, ecc.).
Gli o-ring delle nostre catene O-Ring standard hanno sezione circolare e possono sopportare temperature fino a 100°C (212°F).
Su richiesta specifica possono essere fornite alternative speciali.
Le bussole delle catene O-Ring sono solide per garantire la tenuta ermetica
Oltre a ciò, grazie alla caratteristica di avere dimensioni maggiori rispetto alle bussole delle catene standard, offrono una maggiore superficie di lavoro , aumentando in questo modo la vita della catena.
Anche i rulli sono solidi e prodotti con un elevato grado di accuratezza.
Le prove hanno dimostrato che le catene O-Ring sono più silenziose delle catene standard.
L'avere una minore flessibilità rispetto alle catene standard ha una scarsa rilevanza agli effetti della perdita di potenza.
Le catene **KSF ….. O-Ring** hanno le stesse caratteristiche meccaniche delle catene standard in acciaio al carbonio e le loro prestazioni sono di gran lunga superiori alle catene con bussole sinterizzate.
Il concetto degli O-Ring è stato introdotto da produttori Italiani agli inizi degli
anni 80 applicato alle catene moto.
Da allora le catene O-Ring hanno trovato impiego in un numero sempre più vasto di applicazioni industriali, come ad esempio nell'industria chimica, nell'edilizia, macchine per il confezionamento, per l'agricoltura e l'industria tessile,

l'industria della carta e della stampa ed in generale per tutte quelle applicazioni in cui le condizioni di lavoro possono incidere sfavorevolmente sulla durata della catena.
In più, le catene **KSF …. O-Ring** sono state ampiamente introdotte nelle trasmissioni posizionate in aree di difficile accesso o nei casi in cui non è possibile fermare i macchinari ma è comunque richiesta una manutenzione frequente e la lubrificazione della catena non è possibile.
Sulle catene **KSF …. O-Ring** è anche possibile utilizzare gli attacchi.
Disponibili sia nella serie europea che nella serie ANSI.
Catene doppie **KSF …. O-Ring** possono essere prodotte su richiesta.

O-RING CHAINS

The O-Ring chain concept derives from the need to equip the chain with a self-lubrication system.
The O-RING chains feature elastic O-Rings which are fitted on the extremities of the bushings that slightly protrude from the internal plates.
O-Rings are compressed against the walls of the internal and external plates.
O-Rings seal the lubricant which is placed between the pin and bushing during chain assembly.
The sealed joint isolates moving parts from the surrounding environment (which may be abrasive and/or corrosive) while keeping the interior of the articulation well lubricated.
Transmission and conveyor chain O-Rings are made of a special nitrylic rubber and may have different characteristics, depending on the exact type of chain application.
They may be made of materials capable of withstanding high temperatures (Viton), materials resistant to mechanical wear (nitrylic, hydrogenated, polyurethane rubbers) or have different crosssection geometry (circular, square, X-Ring, V-Ring, etc).
Our standard O-Ring chain features circular O-Rings that can withstand up to 100°C (212°F) operating temperatures.
Special alternatives available on request.
Bushings of O-Ring chains are solid to guarantee a hermetic sealing of the articulation.
Also, given that they are wider than standard chain bushings, the working surface of the articulation is larger, which enhances even more the durability of these chains.
These chains feature solid rollers which are manufactured with a high thickness accuracy.
Tests have showed that O-Ring chains generate less noise than standard chains
Though their flexibility is lower than standard chains, this fact has a negligible effect on power loss.
KSF …. O-RING chains have the same mechanical characteristics of standard carbon steel **KSF** chain and their mechanical performance is much better than sintered bushing chains.
The O-Ring technology was first introduced by Italian Producers in the early 80s for motorcycle chains.
Since then we have introduced O-Ring chains in a wide range of industrial applications, such as chemical plants, construction sites, packaging machinery, work vehicles, agricultural machinery, textile machinery, paper mills and in general in all applications in which working conditions have an adverse effect on chain durability.
Additionally, **KSF … O-RING** chains have been widely introduced in transmission drives located in difficult-to-reach areas, or where the machine cannot be stopped and frequent maintenance and lubrication of the chain is thus not possible.
Attachments can be used on **KSF … O-Ring** chains.
Available in European and ANSI standard series.
Special double strand **KSF …. O-Ring** chains can be manufactured on request.

CATENE A RULLI PASSO DOPPIO

Sono derivate dalle catene della Serie Europea e ANSI dalle quali differiscono in quanto hanno le piastre di passo doppio, mentre i perni, le bussole e i rulli hanno le stesse dimensioni delle catene standard corrispondenti.
Trovano impiego, per la loro economicità, in trasmissioni con interassi notevoli, con carichi e velocità relativamente bassi (la velocità massima consigliata del pignone è di 500 giri 1').
Disponibili nella versione nichelata e in acciaio inox.

DOUBLE PITCH ROLLER CHAINS

These chains are derived from the European and ANSI standard chains and differ in that the pitch is exactly twice that of the standard chains, while pins, bushings and rollers maintain the same dimensions of the corresponding standard chains.
These chains represent an extremely cost effective solution in applications where large center distances exist and where loads and speeds are relatively low (500 r.p.m. is the maximum recommended rotating speed on the small sprocket).
Available with nickel plating and in stainless steel versions.

CATENE PER TRASMISSIONI PESANTI (Serie KABEL)

Queste catene vengono anche denominate catene KABEL, catene a maglie false.
Vengono utilizzate in diverse applicazioni di trasmissione, trasporto e sollevamento in condizioni operative disagevoli.
Il loro campo di applicazione più comune può essere ad esempio la motorizzazione dei cingoli delle grosse macchine da costruzione, le trasmissioni degli alimentatori dei grossi frantoi per pietra e minerali, le macchine da miniera, i grossi vagli, i molini a pale etc.
In altre parole, laddove vi è la necessità di trasmettere forti potenze a basse o bassissime velocità, con carichi a strappi, in presenza di fango, materiali abrasivi, pietre, le catene KABEL rappresentano la soluzione ideale, economica e sicura del problema.
La velocità delle ruote dentate minori deve essere compresa tra 1/4 di giri al 1' e 200 giri al 1'.
Solo poche catene KABEL sono state unificate.

HEAVY DUTY DRIVE CHAINS (KABEL Series)

These chains are also called KABEL chains, cranked link or offset sidebars chains given their design.
design.
These chains are intended for use in a wide range of power transmission, conveying and elevating applications under adverse operating conditions.
Usual applications are driving heavy duty earth moving construction equipment, driving large stone and mineral crushing complexes, mining equipment, ball mills, oil rigs, etc..
In other words, applications whe re the requirement is to provide massive power at either low or very low speed and where loads are unevenly applied and where mud, stones and abrasive materials are constantly present.
The rotational speed of the small sprocket should be between 1/4 of r.p.m. and 200 r.p.m..
Only a few KABEL chains have been standardized.

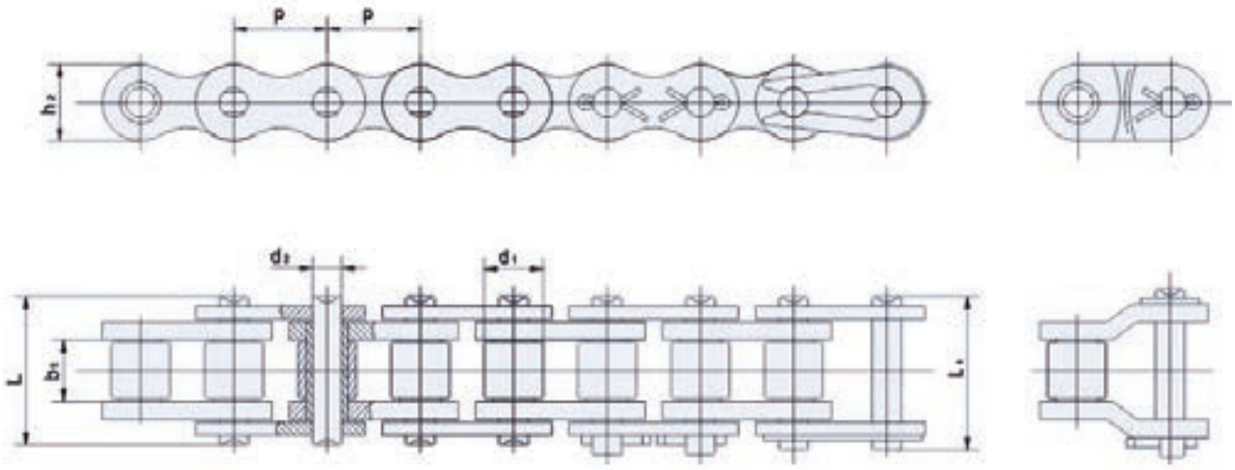
CATENE A RULLI DI DIMENSIONI SPECIALI

KSF produce una gamma di catene di dimensioni speciali e/o a disegno, non conformi agli standard internazionali, per applicazioni specifiche in cui lo spazio di lavoro della catena è troppo ridotto per una catena di dimensioni standard ma è comunque richiesta un'elevata resistenza meccanica.

SPECIAL DIMENSION ROLLER CHAINS

A number of special size chains, which do not conform to international standards or at drawings, are manufactured by **KSF** for specific applications where either the available spaces for the chain to run are too small for a standard sized chain and a relatively high mechanical resistance is needed.

Catena a Rulli Nichelata – Nichel Plated Roller Chain



DIN ISO	Passo Pitch	Diam.Rullo Roller diam.	Largh.fra le Piastre interne Width Between inner Plate	Diam.Perno Pin Diam.	Lunghezz. Perno Pin Lenght		Dimensioni Piastra Plate Dimension		Carico di Rottura Massino Ultimate Tensile Strength	Peso al mt. Weight for meter.
	P	d1 max	b1 min	d2 max	L max	Lc max	h2 max	t/T max	Q min	q
	mm	mm	mm	mm	mm	mm	mm	mm	KN	Kg/m
*25NP	6.350	3.30	3.18	2.31	7.90	8.40	6.00	0.80	3.50	0.15
*35NP	9.525	5.08	4.77	3.58	12.40	13.17	9.00	1.30	7.90	0.33
40NP	12.700	7.95	7.85	3.96	16.60	17.80	12.00	1.50	14.10	0.62
50NP	15.875	10.16	9.40	5.08	20.70	22.20	15.09	2.03	22.20	1.02
60NP	19.050	11.91	12.57	5.94	25.90	27.70	18.00	2.42	31.80	1.50
80NP	25.400	15.88	15.75	7.92	32.70	35.00	24.00	3.25	56.70	2.60
100NP	31.750	19.05	18.90	9.53	40.40	44.,70	30.00	4.00	88.50	3.91
120NP	38.100	22.23	25.22	11.10	50.30	54.30	35.70	4.80	127.00	5.62
140NP	44.450	25.40	25.22	12.70	54.40	59.00	41.00	5.60	172.40	7.50
160NP	50.800	28.58	31.55	14.27	64.80	69.60	47.80	6.40	226.80	10.10
04BNP	6.000	4.00	2.80	1.85	6.80	7.80	5.00	0.60	3.00	0.11
05BNP	8.000	5.00	3.00	2.31	8.20	8.90	7.10	0.80	5.00	0.20
#06BNP	9.525	6.35	5.72	3.28	13.15	14.10	8.20	1.30	9.00	0.41

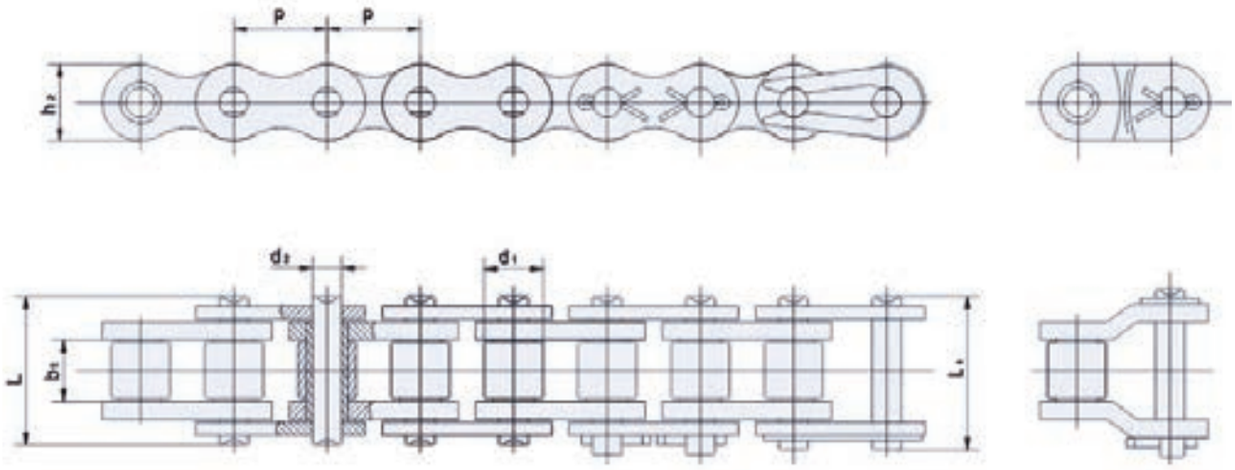
DIN ISO	Passo Pitch	Diam.Rullo Roller diam.	Largh.fra le Piastre interne Width Between inner Plate	Diam.Perno Pin Diam.	Lunghezz. Perno Pin Lenght		Dimensioni Piastra Plate Dimension		Carico di Rottura Massino Ultimate Tensile Strength	Peso al mt. Weight for meter.
	P	d1 max	b1 min	d2 max	L max	Lc max	h2 max	t/T max	Q min	q
	mm	mm	mm	mm	mm	mm	mm	mm	KN	Kg/m
08BNP	12.700	8.51	7.75	4.45	16.70	18.20	11.80	1.60	18.00	0.69
10BNP	15.875	10.16	9.65	5.08	19.50	20.90	14.70	1.70	22.40	0.93
12BNP	19.050	12.07	11.68	5.72	22.50	24.20	16.00	1.85	29.00	1.15
16BNP	25.400	15.88	17.02	8.28	36.10	37.40	21.00	4.15	60.00	2.71
20BNP	31.750	19.05	19.56	10.19	41.30	45.00	26.40	4.5	95.00	3.70
24BNP	38.100	25.40	25.40	14.63	53.4	57.80	33.20	6.0	160.00	7.10
28BNP	44.450	27.94	33.99	15.90	65.10	69.50	36.70	7.5	200.00	8.50
32BNP	50.800	29.21	30.99	17.81	66.00	71.00	42.00	7.0	250.00	10.25

- La Boccola della Catena dim.**d1** in tabella indica il diametro esterno della Boccola

- Bushing Chain **d1** in the table indicate the external diameter of the bushing

*- Solo a Piastra Diritta – Only Straight Side Plate

Catena a Rulli Zincata – Zinc Plated Roller Chain



DIN ISO	Passo Pitch	Diam.Rullo Roller diam.	Largh.fra le Piastre interne Width Between inner Plate	Diam.Perno Pin Diam.	Lunghezz. Perno Pin Lenght		Dimensioni Piastra Plate Dimension		Carico di Rottura Massino Ultimate Tensile Strength	Peso al mt. Weight for meter.
	P	d1 max	b1 min	d2 max	L max	Lc max	h2 max	t/T max	Q min	q
	mm	mm	mm	mm	mm	mm	mm	mm	KN	Kg/m
*25WZP	6.350	3.30	3.18	2.31	7.90	8.40	6.00	0.80	3.50	0.15
*35WZP	9.525	5.08	4.77	3.58	12.40	13.17	9.00	1.30	7.90	0.33
41WZP	12.700	7.77	6.25	3.58	13.75	15.00	9.91	1.30	6.67	0.41
40WZP	12.700	7.95	7.85	3.96	16.60	17.80	12.00	1.50	14.10	0.62
50WZP	15.875	10.16	9.40	5.08	20.70	22.20	15.09	2.03	22.20	1.02
60WZP	19.050	11.91	12.57	5.94	25.90	27.70	18.00	2.42	31.80	1.50
80WZP	25.400	15.88	15.75	7.92	32.70	35.00	24.00	3.25	56.70	2.60
100WZP	31.750	19.05	18.90	9.53	40.40	44.70	30.00	4.00	88.50	3.91
120WZP	38.100	22.23	25.22	11.10	50.30	54.30	35.70	4.80	127.00	5.62
140WZP	44.450	25.40	25.22	12.70	54.40	59.00	41.00	5.60	172.40	7.50
160WZP	55.800	28.58	31.55	14.27	64.80	69.60	47.80	6.40	226.80	10.10
04BWZP	6.000	4.00	2.80	1.85	6.80	7.80	5.00	0.60	3.00	0.11

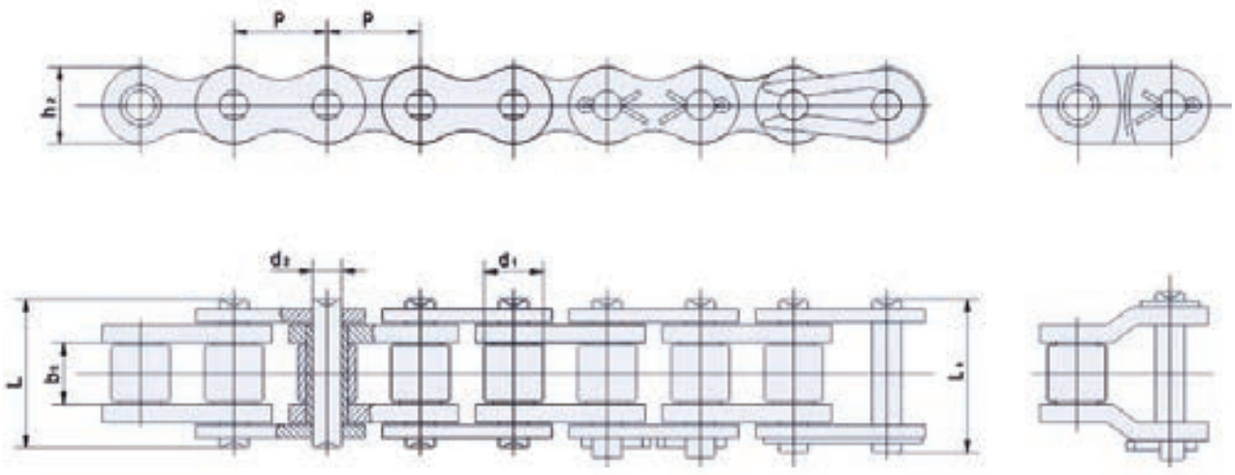
DIN ISO	Passo Pitch	Diam.Rullo Roller diam.	Largh.fra le Piastre interne Width Between inner Plate	Diam.Perno Pin Diam.	Lunghezz. Perno Pin Lenght		Dimensioni Piastra Plate Dimension		Carico di Rottura Massino Ultimate Tensile Strength	Peso al mt. Weight for meter.
	P	d1 max	b1 min	d2 max	L max	Lc max	h2 max	t/T max	Q min	q
	mm	mm	mm	mm	mm	mm	mm	mm	KN	Kg/m
05BWZP	8.000	5.00	3.00	2.31	8.20	8.90	7.10	0.80	5.00	0.20
#06BWZP	9.525	6.35	5.72	3.28	13.15	14.10	8.20	1.30	9.00	0.41
08BWZP	12.700	8.51	7.75	4.45	16.70	18.20	11.80	1.60	18.00	0.69
10BWZP	15.875	10.16	9.65	5.08	19.50	20.90	14.70	1.70	22.40	0.93
12BWZP	19.050	12.07	11.68	5.72	22.50	24.20	16.00	1.85	29.00	1.15
16BWZP	25.400	15.88	17.02	8.28	36.10	37.40	21.00	4.15	60.00	2.71
20BWZP	31.750	19.05	19.56	10.19	41.30	45.00	26.40	4.50	95.00	3.70
24BWZP	38.100	25.40	25.40	14.63	53.40	57.80	33.20	6.00	160.00	7.10
28BWZP	44.450	27.94	30.99	15.90	65.10	69.50	36.70	7.50	200.00	8.50
32BWZP	50.800	29.21	30.99	17.81	66.00	71.00	42.00	7.00	250.00	10.25

- La Boccola della Catena dim.**d1** in tabella indica il diametro esterno della Boccola

- Bushing Chain **d1** in the table indicate the external diameter of the bushing

*- Solo a Piastra Diritta – Only Straight Side Plate

Catena a Rulli in Acciaio INOX – Stainless Steel Roller Chain



DIN ISO	Passo Pitch	Diam.Rullo Roller diam.	Largh.fra le Piastre interne Width Between inner Plate	Diam.Perno Pin Diam.	Lunghezz. Perno Pin Lenght		Dimensioni Piastra Plate Dimension		Carico di Rottura Massino Ultimate Tensile Strength	Peso al mt. Weight for meter.
	P	d1 max	b1 min	d2 max	L max	Lc max	h2 max	t/T max	Q min	q
	mm	mm	mm	mm	mm	mm	mm	mm	KN	Kg/m
*25SS	6.350	3.30	3.18	2.31	7.90	8.40	6.00	0.80	2.568	0.15
*35SS	9.525	5.08	4.77	3.58	12.40	13.17	9.00	1.30	5.512	0.33
40SS	12.700	7.95	7.85	3.96	16.60	17.80	2.00	1.50	9.621	0.63
41SS	12.700	7.77	6.25	3.58	13.75	15.00	9.91	1.30	6.136	0.46
50SS	15.875	10.16	9.40	5.08	20.70	22.20	15.09	2.03	15.345	1.03
60SS	19.050	11.91	12.57	5.94	25.90	27.70	18.00	2.42	21.749	1.51
80SS	25.400	15.88	15.75	7.92	32.70	35.00	24.00	3.25	38.988	2.62
100SS	31.750	19.05	18.90	9.53	40.40	44.70	30.00	4.00	60.136	3.94
120SS	38.100	22.23	25.22	11.10	50.30	54.30	35.70	4.80	72.516	5.72
140SS	44.450	25.40	25.22	12.70	54.40	59.00	41.00	5.60	94.213	7.70
04BSS	6.000	4.00	2.80	1.85	6.80	7.80	5.00	0.60	2.455	0.11

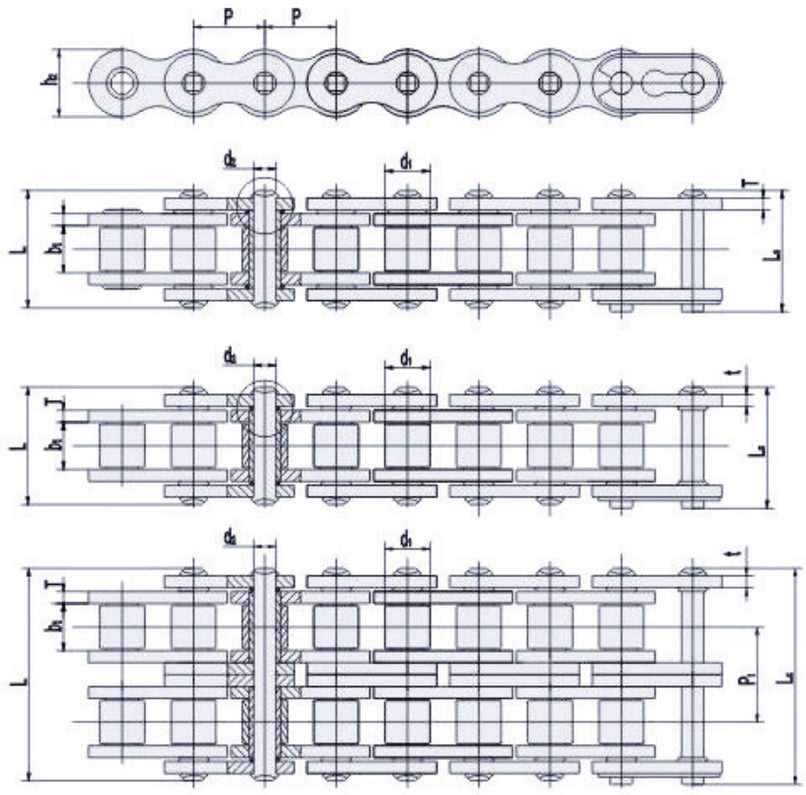
DIN ISO	Passo Pitch	Diam.Rullo Roller diam.	Largh.fra le Piastre interne Width Between inner Plate	Diam.Perno Pin Diam.	Lunghezz. Perno Pin Lenght		Dimensioni Piastra Plate Dimension		Carico di Rottura Massino Ultimate Tensile Strength	Peso al mt. Weight for meter.
	P	d1 max	b1 min	d2 max	L max	Lc max	h2 max	t/T max	Q min	q
	mm	mm	mm	mm	mm	mm	mm	mm	KN	Kg/m
05BSS	8.000	5.00	3.00	2.31	8.20	8.90	7.10	0.80	3.795	0.20
#06BSS	9.525	6.35	5.72	3.28	13.15	14.10	8.20	1.30	6.214	0.41
08BSS	12.700	8.51	7.75	4.45	16.70	18.20	11.80	1.60	12.272	0.70
10BSS	15.875	10.16	9.65	5.08	19.50	20.90	14.70	1.70	14.532	0.94
12BSS	19.050	12.07	11.68	5.72	22.50	24.20	16.00	1.85	18.542	1.16
16BSS	25.400	15.88	17.02	8.28	36.10	37.40	21.00	4.15	40.909	2.73
20BSS	31.750	19.05	19.56	10.19	41.30	45.00	26.40	4.50	59.134	3.73
24BSS	38.100	25.40	25.40	14.63	53.40	57.80	33.20	6.00	104.254	7.20
32BSS	50.800	29.21	30.99	17.81	66.00	71.00	42.00	7.00	150.340	10.22

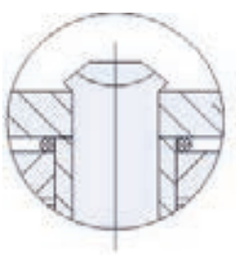
- La Boccola della Catena dim.**d1** in tabella indica il diametro esterno della Boccola

- Bushing Chain **d1** in the table indicate the external diameter of the bushing

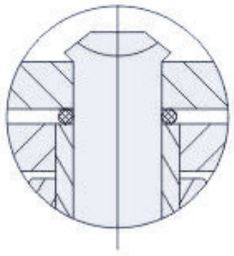
*- Solo a Piastra Diritta – Only Straight Side Plate

Catena a Rulli con O-RING – O-RING Roller Chain





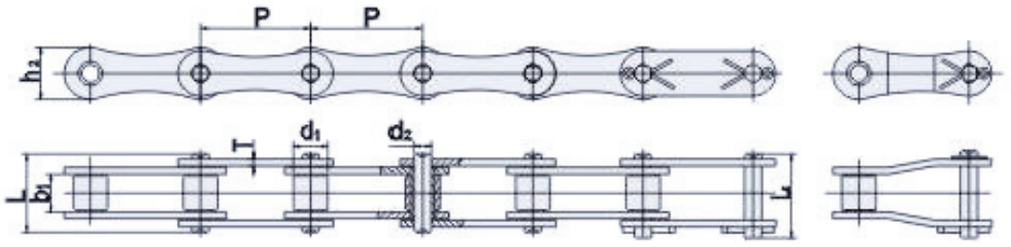
O type



SLR type

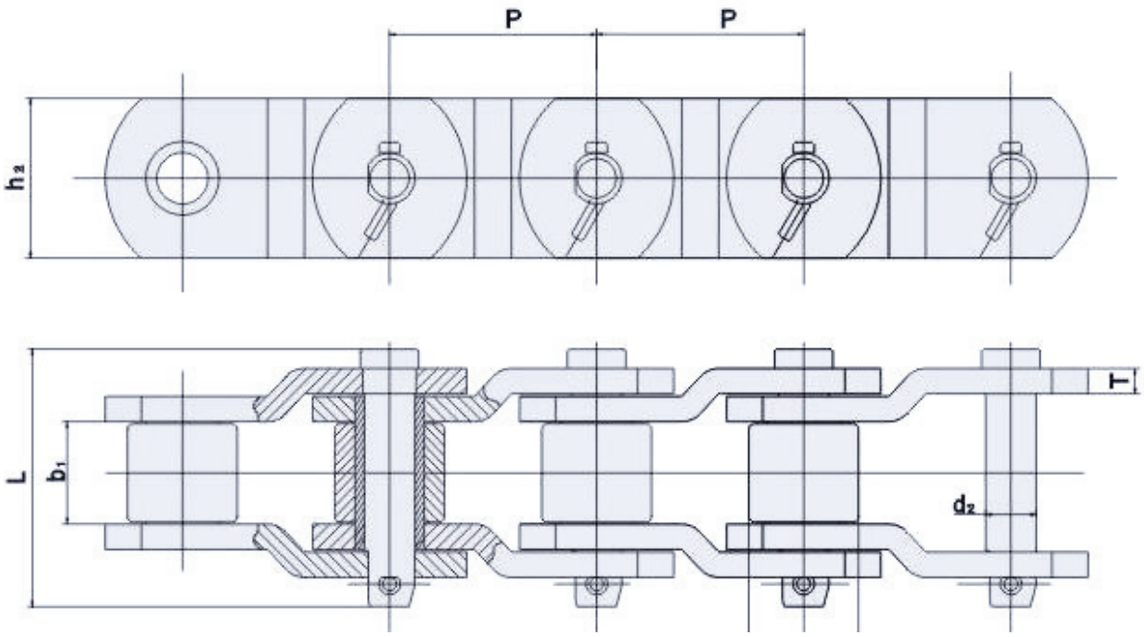
Catena No. Chain No.	Passo Pitch	Diam.Rullo Roller diam.	Largh.fra le Piastre interne Width Between inner Plate	Diam.Perno Pin Diam.	Lunghezz. Perno Pin Lenght		Dimensioni Piastra Plate Dimension		Interasse Piastra Transverse Pitch	Carico di Rottura Massino Ultimate Tensile Strength	Tipo Type
	P	d1 max	b1 min	d2 max	L max	Lc max	h2 max	t/T max	Pt	Q min	C
	mm	mm	mm	mm	mm	mm	mm	mm	mm	KN	
60SLR	19.050	11.91	12.57	5.94	27.50	29.30	18.00	2.42		31.10	SLR
12BSLR	19.050	12.07	11.68	5.72	23.60	25.30	16.00	1.85		32.80	SLR
16BSLR	25.400	15.88	17.02	8.28	38.10	40.60	21.00	3.10		60.00	SLR
60SLR-2	19.050	11.91	12.57	5.94	50.30	52.10	18.00	2.42	22.78	62.20	SLR
12BSLR-2	19.050	12.07	11.68	5.72	43.10	44.80	16.00	1.85	19.46	57.60	SLR
16BSLR-2	25.400	15.88	17.02	8.28	70.00	72.50	21.00	4.00	31.88	106.00	SLR
40-OR	12.700	7.92	7.85	3.96	19.55	20.65	12.00	1.50		13.80	O
50-OR	15.875	10.16	9.40	5.08	23.20	24.50	15.00	2.03		21.80	O
60-OR	19.050	11.91	12.57	5.94	28.65	30.50	18.00	2.42		31.10	O
80-OR	25.400	15.88	15.75	7.92	35.85	39.00	24.00	3.25		55.60	O
C2040-OR	25.400	7.92	7.85	3.96	19.55	20.65	12.00	1.50		13.80	O
C2042-OR	25.400	15.88	7.85	3.96	19.55	20.65	12.00	1.50		13.80	O
C2050-OR	31.750	10.16	9.40	5.08	23.20	24.50	15.00	2.03		21.80	O
C2052-OR	31.750	19.05	9.40	5.08	23.20	24.50	15.00	2.03		21.80	O
C2060-OR	38.100	11.91	12.57	5.94	28.65	30.50	18.00	2.42		31.50	O
C2062-OR	38.100	22.23	12.57	5.94	28.65	30.50	18.00	2.42		31.50	O
C2080-OR	50.800	15.88	15.75	7.92	35.05	39.00	24.00	3.25		55.60	O
C2082-OR	50.800	28.58	15.75	7.92	35.05	39.00	24.00	3.25		55.60	O

Catena di Trasmissione a Passo Doppio – Double Pitch Transmission Chain



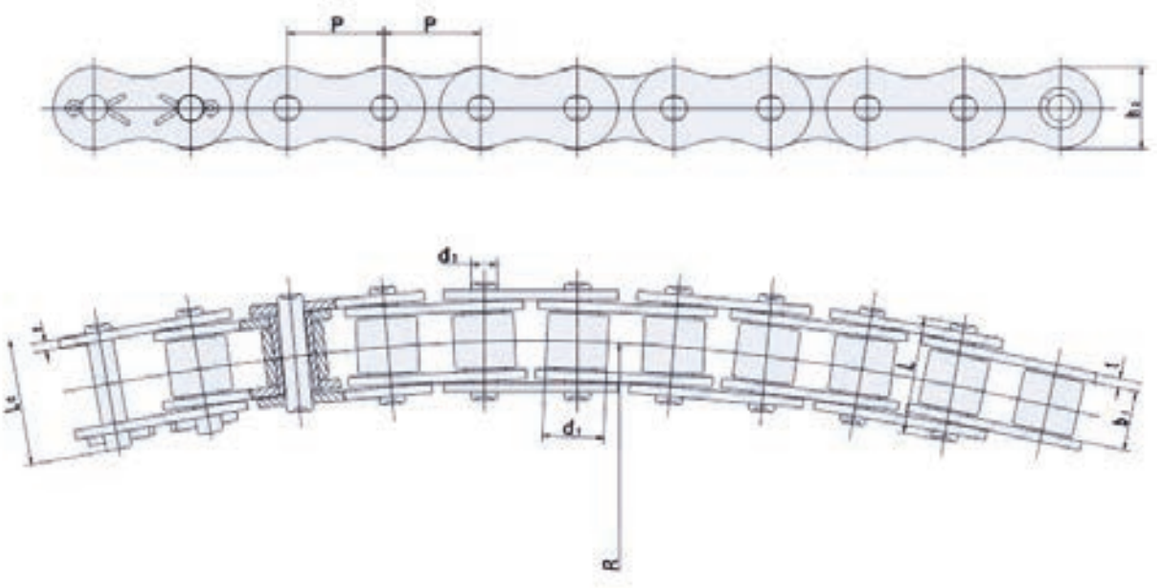
DIN ISO Chain No.	ANSI Chain.No	Passo Pitch	Diam.Rullo Roller diameter	Largh.fra le Piastre Interne Width Between inner plates	Diam.Perno Pin Diameter	Lunghezza Perno Pin Length		Altezza Piastra Inner plate depth	Carico di Rottura Massimo Ultimate tensile strength	Carico di Rottura Medio Average tensile strength	Peso al mt. Weight per meter
		P	d1 max	b1 min	d2 max	L max	Lc max	h2 max	Q min	Q0	q
		mm	mm	mm	mm	mm	mm	mm	KN	KN	kg/m
208A	**2040**	25.4	7.95	7.85	3.96	16.6	18.8	12.0	14.1	16.3	0.42
208B		25.4	8.51	7.75	4.45	16.7	18.2	11.8	18.0	19.5	0.45
210A	**2050**	31.75	10.16	9.40	5.08	20.7	23.3	15.0	22.0	26.0	0.73
210B		31.75	10.16	9.65	5.08	19.5	20.9	14.7	22.4	26.5	0.65
212A	**2060**	38.1	11.90	12.57	5.94	25.9	28.3	18.0	31.8	33.6	1.02
212B		38.1	12.07	11.68	5.72	22.5	25.2	16.0	29.0	32.2	0.76
216A	**2080**	50.8	15.88	15.75	7.92	32.7	36.5	24.0	56.7	65.0	1.70
216AH		50.8	15.88	15.75	7.92	36.2	39.4	24.0	56.7	68.8	2.17
216B		50.8	15.88	17.02	8.28	36.1	39.1	21.0	60.0	70.8	1.75
220A	**2100**	63.5	19.05	18.90	9.53	40.4	44.7	30.0	88.5	101.8	2.55
220B		63.5	19.05	19.56	10.19	41.3	45.0	26.4	95.0	101.5	2.62
224A	**2120**	76.2	22.23	25.22	11.1	50.3	54.3	35.7	127.0	147.1	4.06
224B		76.2	25.4	25.4	14.63	53.4	57.8	33.2	160.0	174.0	4.70
228B		88.9	27.94	30.99	15.90	65.1	69.5	36.7	200.0	214.4	6.23
232B		101.6	29.21	30.99	17.81	66.0	71.0	42.0	250.0	267.5	6.72

Catena di Trasmissione Pesante – Heavy-duty Transmission Chain



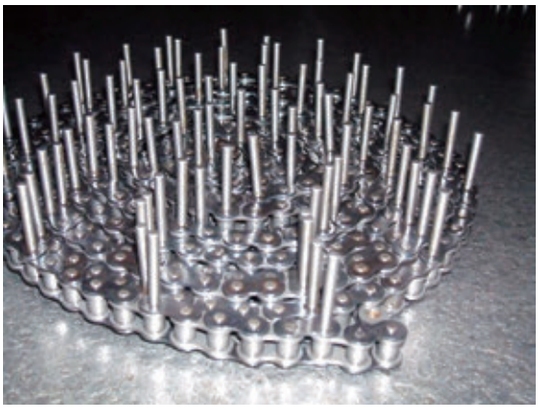
Catena No. Chain No.	Passo Pitch	Diam.Rullo Roller diameter	Largh.fra le Piastre Interne Width Between inner plates	Diam.Perno Pin diameter	Lunghezza Perno Pin Length	Dim. Piastra Plate Dimension	Dim. Piastra Plate Dimension	Carico di rottura Massimo Ultimate tensile strength	Carico di Rottura Medio Average tensile strength	Peso al mt. Weight per meter
	P	d1 max	b1 min	d2 max	L max	h2 max	T max	Q min	Qo	q
	mm	mm	mm	mm	mm	mm	mm	KN	KN	kg/m
2010	63.50	31.75	38.10	15.90	90.70	47.80	7.90	250.00	270.00	14.00
2510	78.10	31.75	36.90	16.00	94.80	40.00	8.00	271.00	292.60	10.72
2512	77.90	41.28	39.60	19.05	100.00	57.00	9.70	340.00	367.20	18.40
2512F2	77.90	41.28	38.50	19.05	103.40	60.00	10.00	400.00	420.00	20.28
2814	88.90	44.45	36.60	22.23	117.60	58.00	12.70	471.00	507.60	25.70
3214	103.20	44.45	48.00	22.00	123.50	55.00	13.00	476.00	514,00	23,60
3315	103.45	45.24	49.30	23.85	130.00	63.50	14.20	550.00	594.00	27.71
3618	114.30	57.15	52.30	27.97	138.00	79.20	14.20	760.00	820.80	41.20
4020	127.00	63.50	69.90	31.78	165.70	88.90	15.70	987.00	1069.20	48.60
2184	152.40	76.20	35.00	22.20	96.00	51.00	9.50	330.00	378.00	18.17
SS588	66.27	22.23	28.60	11.11	63.70	28.60	6.30	130.00	144.00	5.46
SS568H	77.90	41.30	39.70	19.05	97.60	57.00	9.50	340.00	367.20	19.80
SS40H	78.11	31.75	38.10	15.88	97.00	41.50	9.50	250.00	280.00	12.60
SS124	103.20	44.45	49.20	22.23	127.20	57.00	12.70	560.00	590.00	22.57

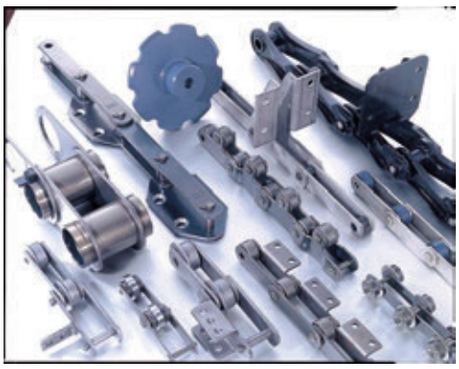
Catena a Rulli per Curve – Side Bow Roller Chain

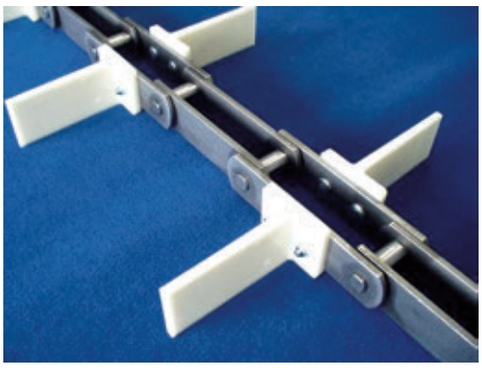


DIN ISO	Passo Pitch	Diam.Rullo Roller Diam.	Largh.fra le Piastre Interne Width Between inner Plate	Diam.Perno Pin Diam.	Lunghezza Perno Pin Lenght		Altezza Piastra Inner Plate depth.	Spessore Piastra Plate Thickness	Raggio di Curvat. Sideflex Radius	Carico di Rottura Massimo Ultimate Tensile Strength	Peso al mt. Weight at meter
	P	d1 max	b1 min	d2 max	L max	Lc max	h2 max	t/T max	R min	Q min	q
	mm	mm	mm	mm	mm	mm	mm	mm	mm	KN	kg/m
40SB	12.70	7.95	7.85	3.96	16.9	18.1	11.7	1.5	350	13.8	0.80
43SB	12.70	7.95	7.85	3.45	18.3	19.5	11.7	1.5	305	12.0	0.64
50SB	15.875	10.16	9.40	4.37	20.7	22.7	14.9	2.03	400	20.6	1.09
60SB	19.05	11.91	12.57	5.34	26.6	28.4	18.0	2.42	500	15.7	1.54
63SB	19.05	11.91	12.68	5.08	28.8	30.6	17.2	2.42/2.03	350	12.5	1.40
80SB	25.40	15.88	15.75	7.19	34.0	37.3	24.0	3.25	711	40.9	2.60
08BSB	12.70	8.51	7.75	3.97	17.4	18.7	11.8	1.6	400	14.0	0.70
08BSBF1	12.70	8.51	7.75	3.97	16.3	17.6	11.8	1.6/1.2	400	12.8	0.65
10BSB	15.875	10.16	9.65	4.50	20.1	21.5	14.7	1.7	400	15.6	0.93
12BSB	19.05	12.07	11.68	5.12	23.1	24.8	16.0	1.85	500	20.5	1.16
C2050SB	31.75	10.16	9.40	5.08	21.3	22.6	15.0	2.03	800	21.8	0.84

Catena per Trasporto Leggero – Light Conveyor Chain







INTRODUZIONE

Le catene per trasporto leggero sono adoperate in numerosissime applicazioni industriali come ad esempio il confezionamento, l'alimentare, i settori cosmetico, farmaceutico, imbottigliamento, il settore vetraio e l'industria in generale.
Normalmente queste catene sono costruite usando i componenti delle catene a rulli standard ed attacchi (perni estesi, spintori, snap-on), o particolari progettati appositamente.
I materiali impiegati variano da acciai al carbonio di alta qualità, acciai inossidabili, resine plastiche, acciai al carbonio con rivestimenti speciali (nichelatura chimica, zinco-cromatura, etc) e acciai che subiscono trattamenti termochimici superficiali mirati ad aumentare la durezza superficiale, quali la cromizzazione e la nitrurazione.
Le applicazioni del trasporto leggero richiedono che la catena lavori in forma estremamente precisa.
KSF ha sviluppato una serie di processi tali da garantire al cliente un prodotto di qualità superiore.
In aggiunta ai processi di precarico e rodaggio, che sono eseguiti sull'intera produzione **KSF**, le catene Trasporto Leggero possono essere fornite con le seguenti caratteristiche:

Tolleranze sullo sviluppo della catena

Regina può offrire catene con tolleranze inferiori (più strette) di quelle richieste dalle norme ISO.

Appaiamento

Nel caso di catene previste per utilizzo in parallelo, particolari accorgimenti di produzione dei componenti, di montaggio, rodaggio e misurazione consentono di fornire catene appaiate con differenze sulla lunghezza totale o su tratti specifici entro tolleranze ristrette.

Catene destre e catene sinistre

Normalmente lavorano in parallelo. Vedi appaiamento.

Spezzoni componibili

Nel caso di lunghi tratti con specifiche tolleranze sullo sviluppo totale, **KSF** fornisce catene in spezzoni preventivamente tagliati, controllati sullo sviluppo e contrassegnati per facilitare la loro connessione e l'ottenimento delle tolleranze richieste sullo sviluppo.

Lubrificazione speciale per applicazioni specifiche

Le catene **KSF** sono fornite pre lubrificate (a).
Possono essere forniti diversi tipi di lubrificazione:
•Standard: per una buona protezione all'ossidazione e per un aumento della resistenza all'usura.
•Al bisolfuro di molibdeno, in caso di carichi elevati e/o temperature elevate (sino a 450°C).
•Lubrificanti sintetici per basse (-47°C) ed alte (fino a 250°C) temperature di lavoro.
•Lubrificanti per applicazioni nell'industria alimentare (approvazione della FDA).

Catene per un solo cliente

KSF può fornire catene studiate appositamente per risolvere problematiche specifiche di un cliente in regime di esclusività.

(a) Eccetto nel caso delle catene in acciaio inox o nichelate chimicamente, dato che non richiedono di una protezione aggiuntiva contro la corrosione e dove l'applicazione finale non è conosciuta.

INTRODUCTION

Light conveyor chains are used in a wide variety of applications such as packaging, food, cosmetics, pharmaceutical, bottling, glass containers, manufacturing and many other industrial applications.
These chains are usually manufactured using the components of standard transmission roller chains and specially designed attachments or parts suitable for conveying applications.
Raw materials used are high quality carbon steels, stainless steels, plastic resins, carbon steels with protective coatings (nickel plating, zinc-chromium plating, brass plating, etc) and carbon steels that undergo special surface hardening treatments like chromizing and nitriding.
Conveying applications require that the chains work with very high precision.
In order to achieve this **KSF** follows a number of production processes that have been developed over the years to supply the customer with the best possible product.
A part from the pre-loading and running-in processes, which are performed on the entire **KSF** production, thus including light conveying chains, **KSF** can supply Light Conveyor Chains with:

Special length tolerances

Some applications might require narrower tolerances in length well within the International Standard tolerances.

Matching

When chains must work in parallel, special assembling, running-in and measuring criteria are followed to obtain matched chains with limited variation on the total chain length, or on a specific strand.

Left and right handed chains

Normally they work in parallel. See Matching

Cut lengths to be compounded

For longer conveying systems (with special tolerance on the total length) **KSF** supplies cut chains, checked in their lengths and tagged to make it possible after connecting them together to reach the required tolerance on the total length.

Special lubrication for a specific application
KSFchains are supplied pre-lubricated (a)
Different lubrication grades can be supplied:
•Standard: for protection against corrosion and initial increased wear resistance
•Molybdenum bisulphide lubricants for chains subject to high loads or high temperatures (up to 450°C).
•Synthetic lubricants for low (-47°C) and high (up to 250°C) temperatures operation.
•Lubricants for food applications FDA approved.
One customer chains
KSF can supply chains purpose-designed to meet unique customer requirements.

(a) Except for stainless steel or nickel plated chains, that do not need additional corrosion protection and where the final destination of the chains in not known.

COME ORDINARE UNA CATENA TRASPORTO LEGGERO

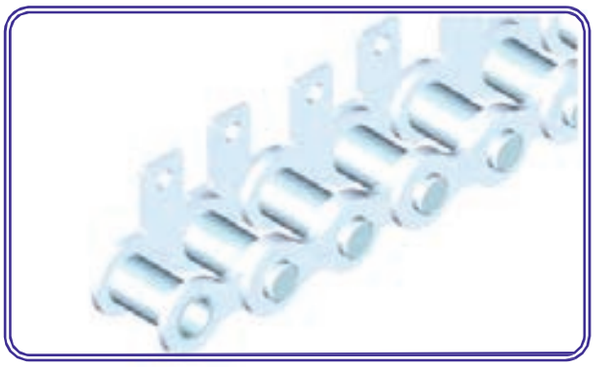
Designazione della catena /Designazione attacco / Composizione catena x Numero di passi
La composizione della catena viene indicata con due numeri separati da un punto (**X.YZ**)
X può essere:
- **4**: se l'attacco è montato sulle maglie interne
- **7:** se l'attacco è montato sulle maglie esterne
- **0**: se l'attacco è montato alternato sulle maglie interne ed esterne.

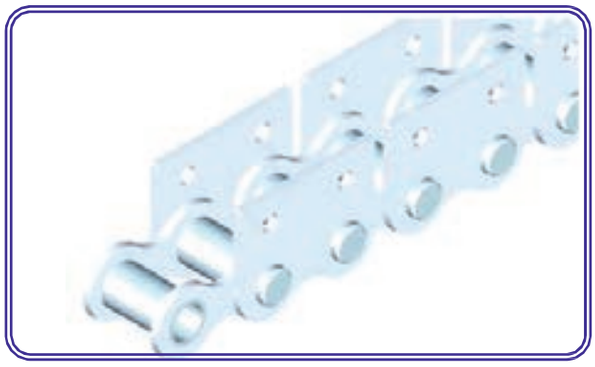
YZ può variare da 01 a un numero di passi N.
Questi due numeri indicano la distanza in passi corrispondente alla frequenza dell'attacco.
la distanza in passi corrispondente alla frequenza dell'attacco.
126 / D1 / 0.01
Attacco D1 (perno esteso) montato su ogni passo su una catena **KSF** codice 126 (08 B-1)
ASA50 / M35 / 7.05
Attacco M35 montato ogni 5 passi sulle maglie esterne (per ammettere un numero dispari di passi si utilizza una maglia falsa fra gli attacchi).
La catena base è una A50 (10 A-1).
A80 / K2 / 4.12
L'attacco K2 da montarsi ogni 12 passi sulla maglia interna.
La catena base è una A80 (16 A-1.

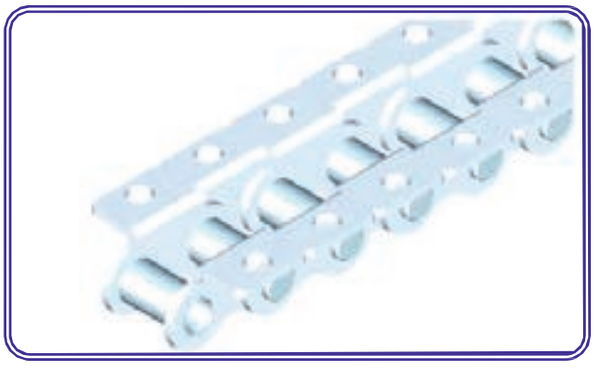
HOW TO ORDER A LIGHT CONVEYOR CHAIN

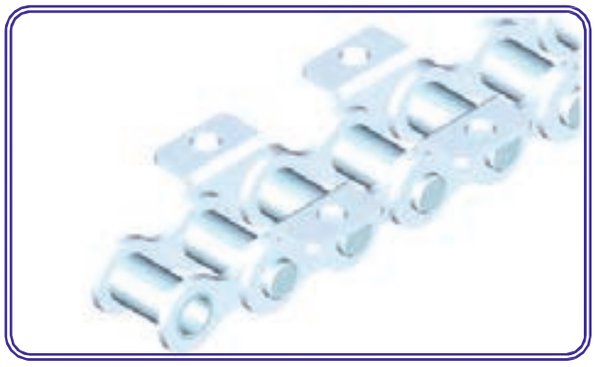
Chain code / Attachment code / Attachment combination code x Number of pitches
Attachment combination code: (**X.YZ**)
X can be:
- **4**: indicates that the attachment should be placed on the inner (roller) link.
- **7**: indicates that the attachment should be paced on the outer (pin) link
- **0:** indicates that the attachment should be placed on the inner and the outer links alternatively

YZ can range from 01 to N number of pitches.
It shows the distance in pitches corresponding to the frequency of the attachment.
Examples:
126 / D1 / 0.01
Attachment D1 to be placed every pitch on chain **KSF** code N°126 (08 B-1)
every pitch on chain Regina
ASA50 / M35 /7.05
Attachment M35 to be placed every 5 pitches on the outer link (to allow a uneven number of pitches an offset link is fitted between the attachments).
Base chain is A50 (10 A-1)
A80 / K2 / 4.12
Attachment K2 to be placed every 12 pitches on the inner link.
Base chain is A80 (16 A-1).

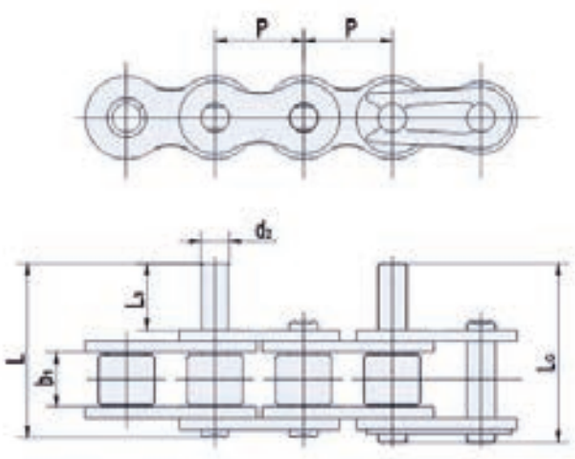




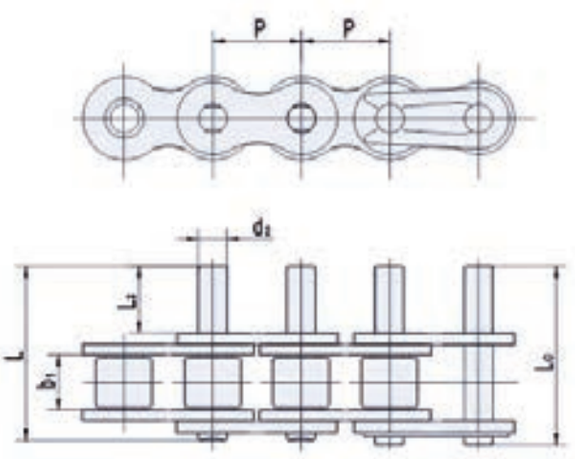




Catena da trasporto a perni sporgenti – Short pitch conveyor chain with extended pins



D-1



D-3

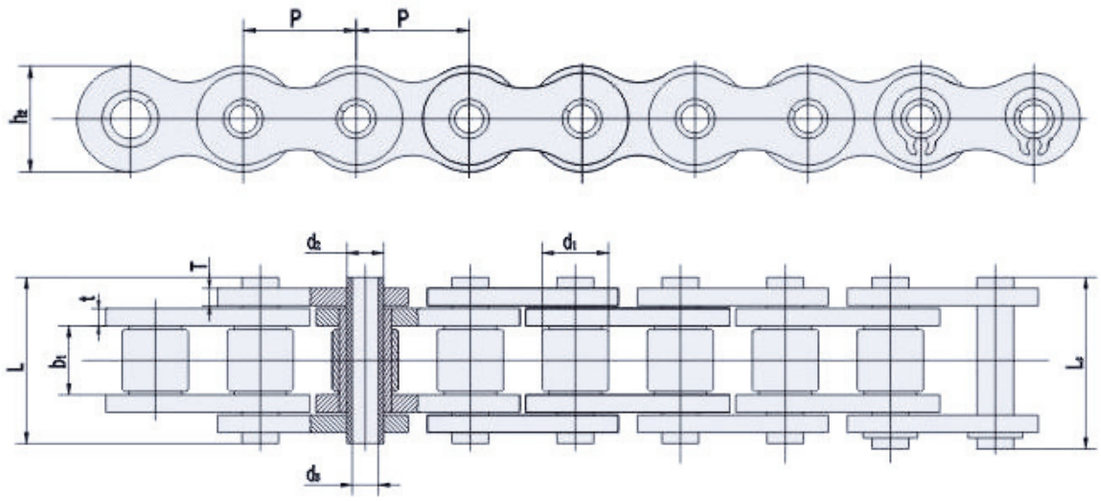
DIN ISO	ANSI	Passo - Pitch	Largh.fra le Piastre Interne Width Between inner Plate	Dimensioni Attacchi Attachment Dimension		Dimensioni Attacchi Attachment Dimension	
		P	b1	d2	L3	L	Lc
		mm	mm	mm	mm	mm	mm
*06C	35	9.525	4.77	3.58	9.5	20.8	21.6
08A	40	12.700	7.85	3.96	9.5	25.1	26.2
10A	50	15.875	9.40	5.08	11.9	31.3	33.1
12A	60	19.050	12.57	5.94	14.3	38.6	40.6
16A	80	25.400	15.75	7.92	19.1	50.3	53.3
20A	100	31.750	18.90	9.53	23.8	61.8	66.1
24A	120	38.100	25.22	11.10	28.6	76.4	80.4
28A	140	44.450	25.22	12.70	33.3	84.8	89.4
32A	160	50.800	31.55	14.27	38.1	99.6	104.4
08B		12.700	7.75	4.45	9.5	25.1	26.6
10B		15.875	9.65	5.08	11.9	30.1	31.5
12B		19.050	11.68	5.72	14.3	35.4	37.1
16B		25.400	17.02	8.28	19.1	53.0	54.3

- Solo a Piastra Diritta – Only Straight Side Plate

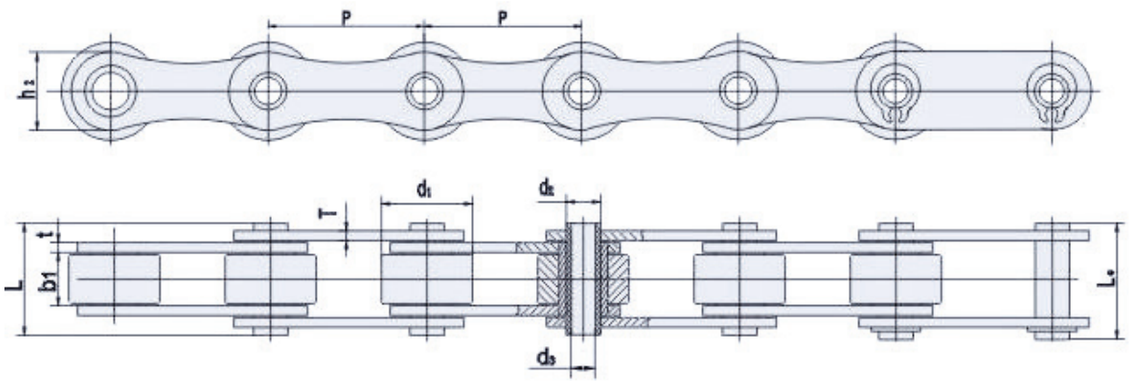
- **Disponibili su richiesta versioni – Zincata (WZP ….) Nichelata (NP ….) Inox (SS ….)**
- **Versions available on request Zinc-plated (WZP ….) Nichel-plated (NP ….) Stainless Steel (SS ….)**

Catena da Trasporto a Perno Forato – Hollow Pin Conveyor Chain

(Type A)



(Type B)

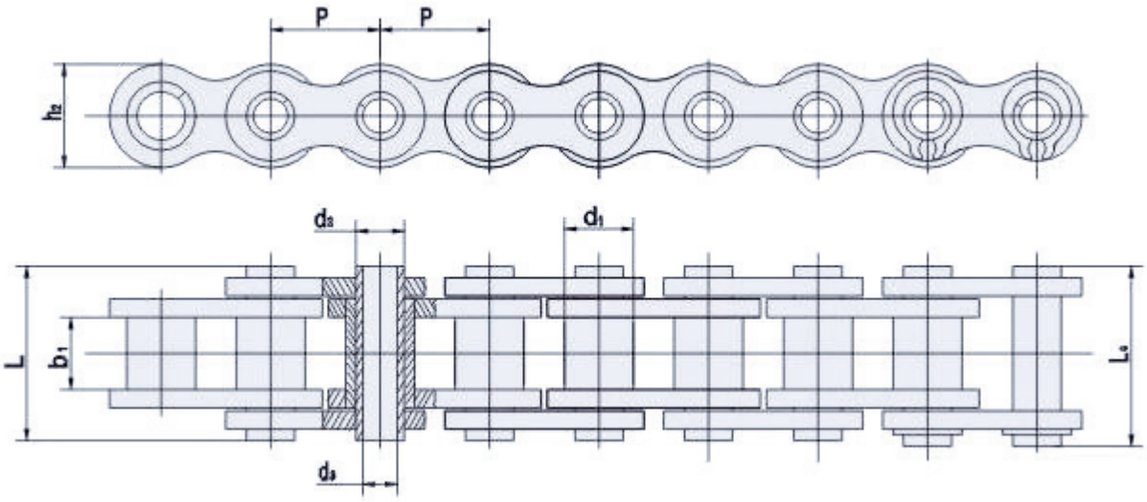


Catena No. Chain No.	Passo Pitch	Diam. Rullo Roller diam.	Largh.fra le Piastre Interne Width Between inner plates	Diam.Perno Pin diameter		Lungh.Perno Pin Length		Altezza Piastra Inner plate depth	Spessore Piastra Plate tickness	Carico di Rottura Massimo Ultimate Tensile Strength	Carico di Rottura Medio Average Tensile Strength	Peso per mt. Weight per meter	Tipo Type
	P	d1 max	b1 min	d2 max	d3 max	L max	Lc max	h2 max	t/T	Q min	Q0	q	
	mm	mm	mm	mm	mm	mm	mm	mm	mm	KN	KN	kg/m	
08BHP	12.700	8.510	7.75	6.37	4.00	16.70	18.00	11.80	1.60	11.00	12.40	0.61	A
10BHP	15.875	10.16	9.65	5.94	4.04	19.30	20.60	14.70	1.70	17.00	20.80	0.86	A
12BHP	19.050	12.07	11.68	6.50	4.00	21.60	22.80	15.90	1.85	23.60	25.90	1.09	A
60HP	19.050	11.91	12.70	7.00	5.01	25.50	26.60	18.00	2.42	20.00	22.40	1.35	A
16BHPF1	25.400	15.88	12.70	9.53	7.05	30.08	32.20	23.00	4.15	40.00	45.00	2.28	A
HP35	35.000	20.00	16.00	13.35	10.20	30.40	31.60	26.30	2.50	23.52	26.40	2.02	A
HP50F2	50.000	31.00	15.00	13.20	10.20	36.50	38.00	25.00	4.00	40.00	43.20	3.40	B
HP38.1	38.100	20.00	18.00	8.00	5.30	19.60	20.70	17.30	2.03	25.00	28.80	0.98	B
HP38.1F1	38.100	20.00	18.00	10.50	5.10	39.00	40.30	22.00	4.00	60.00	64.30	2.59	B
HP50.8	50.800	30.00	10.50	11.40	8.20	27.40	28.60	26.00	3.10	50.00	53.60	2.56	B
HP63	63.000	30.00	10.00	11.40	8.10	26.70	28.10	26.50	3.10	50.00	53.60	2.07	B
HP100	100.00	30.00	10.50	11.40	8.20	27.40	28.60	26.00	3.10	50.00	53.60	1.56	B

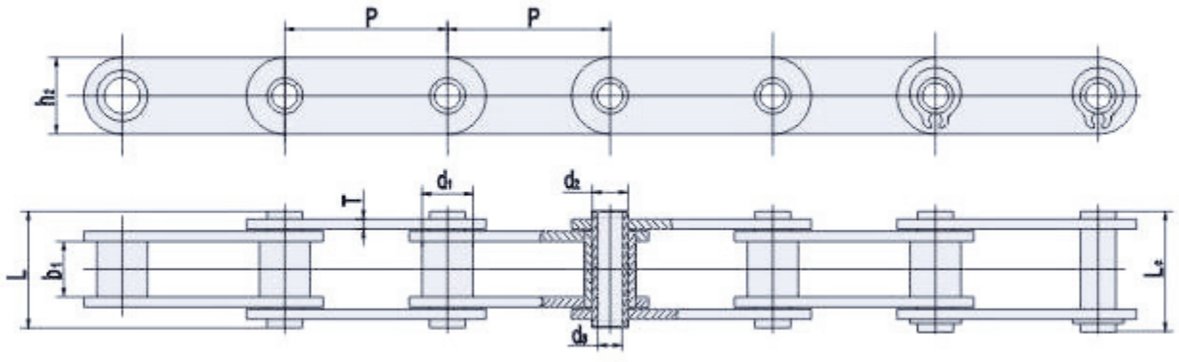
- **Disponibili su richiesta versioni – Zincata (WZP ….) Nichelata (NP ….) Inox (SS ….)**
- **Versions available on request Zinc-plated (WZP ….) Nichel-plated (NP ….) Stainless Steel (SS ….)**

Catena da Trasporto a Perno Forato – Hollow Pin Conveyor Chain

(Type A)



(Type B)

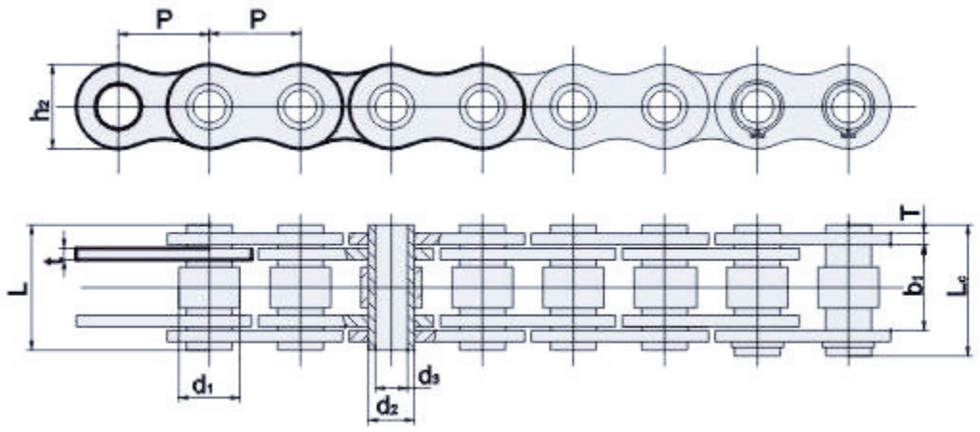


Catena No. Chain No.	Passo Pitch	Diam. Rullo Roller diam.	Largh.fra le Piastre Interne Width Between inner plates	Diam.Perno Pin diameter		Lungh.Perno Pin Length		Altezza Piastra Inner plate depth	Spessore Piastra Plate tickness	Carico di Rottura Massimo Ultimate Tensile Strength	Carico di Rottura Medio Average Tensile Strength	Peso per mt. Weight per meter	Tipo Type
	P	d1 max	b1 min	d2 max	d3 max	L max	Lc max	h2 max	t/T	Q min	Q0	q	
	mm	mm	mm	mm	mm	mm	mm	mm	mm	KN	KN	kg/m	
08BHPF	12.700	8.51	7.75	6.55	4.50	16.40	17.60	11.80	1.60	11.10	12.10	0.56	A
40HP	12.700	7.95	7.85	5.63	4.00	16.50	17.60	12.00	1.50	11.00	12.2	0.54	A
50HP	15.875	10.16	9.40	7.03	5.13	20.70	21.90	15.09	2.03	20.00	22.60	0.91	A
60HP	19.050	11.91	12.70	8.31	6.00	25.90	26.80	18.00	2.42	24.00	26.90	1.29	A
60HPF1	19.050	11.91	12.70	8.31	5.01	25.50	26.80	18.00	2.42	28.00	30.90	1.37	A
80HP	25.400	15.88	15.75	11.40	8.05	32.70	33.80	24.00	3.25	50.00	58.30	2.26	A
C204HP	25.400	7.95	7.85	5.63	4.00	16.50	17.60	12.00	1.50	11.00	12.60	0.46	B
C205HP	31.750	10.16	9.40	7.03	5.13	20.70	21.90	15.00	2.03	20.40	22.80	0.76	B
C2060HP	38.100	11.91	12.70	8.33	6.00	25.90	26.80	18.00	2.42	24.00	27.10	1.02	B
HP40F1	40.000	18.00	22.00	12.00	8.00	47.50	48.20	35.00	5.00	57.00	63.80	5.38	B
C2080HP	50.800	15.88	15.75	11.50	8.05	32.50	33.80	24.00	3.25	50.00	55.20	1.81	B
HP50F1	50.800	26.00	14.50	20.00	14.70	35.30	36.20	40.00	3.10	30.00	33.60	3.98	B

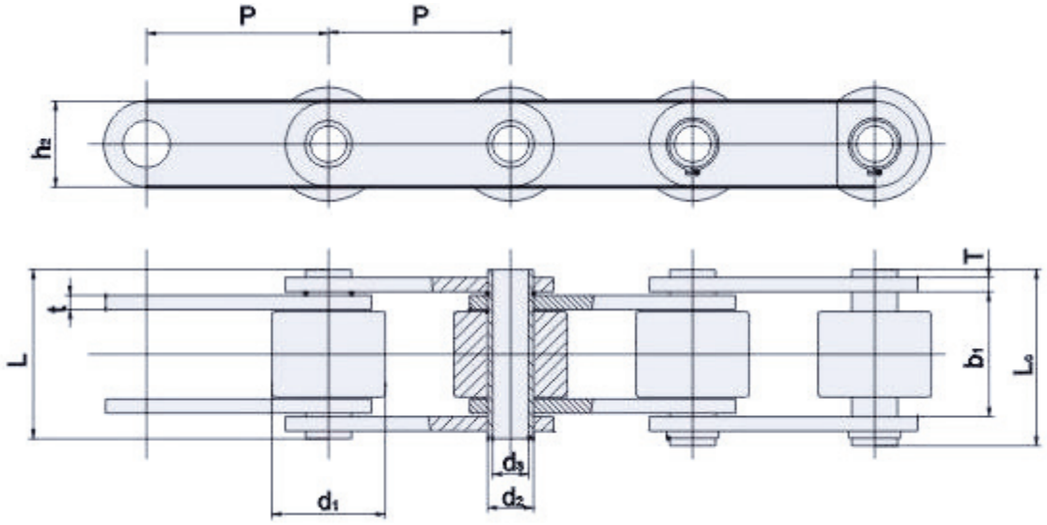
- **Disponibili su richiesta versioni – Zincata (WZP ….) Nichelata (NP ….) Inox (SS ….)**
- **Versions available on request Zinc-plated (WZP ….) Nichel-plated (NP ….) Stainless Steel (SS ….)**

Catena da Trasporto a Perno Forato – Hollow Pin Conveyor Chain

(Type A)

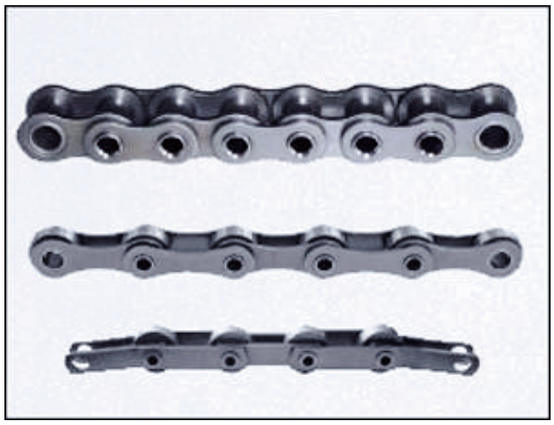


(Type B)

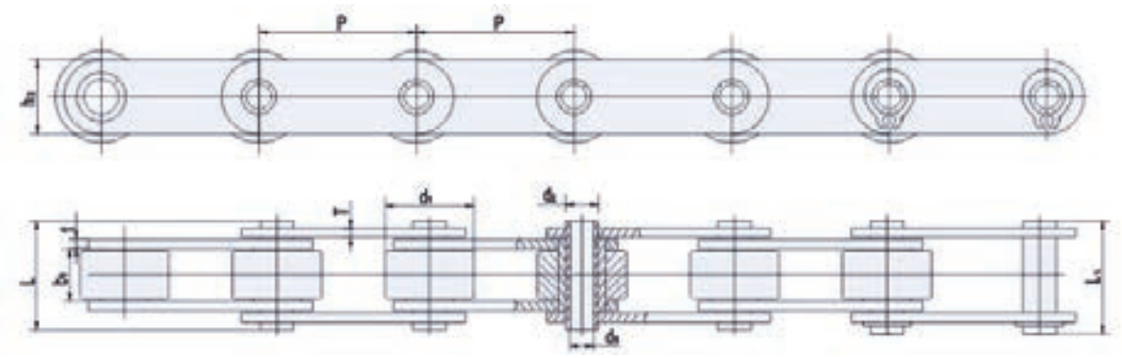


Catena No. Chain No.	Passo Pitch	Diam. Rullo Roller diam.	Largh.fra le Piastre Interne Width Between inner plates	Diam.Perno Pin diameter		Lungh.Perno Pin Length		Altezza Piastra Inner plate depth	Spessore Piastra Plate tickness	Carico di Rottura Massimo Ultimate Tensile Strength	Carico di Rottura Medio Average Tensile Strength	Peso per mt. Weight per meter	Tipo Type
	P	d1 max	b1 min	d2 max	d3 max	L max	Lc max	h2 max	t/T	Q min	Q0	q	
	mm	mm	mm	mm	mm	mm	mm	mm	mm	KN	KN	kg/m	
08BHPF2	12.700	8.51	13.20	6.65	5.20	18.00	19.20	11.80	1.60	10.00	11.40	0.50	A
08BHPF3	12.700	8.51	13.40	6.65	4.00	19.00	20.20	11.80	1.70	14.00	16.80	0.69	A
10BHPF1	15.875	10.16	13.41	7.03	5.00	19.20	20.20	14.00	1.85	17.00	20.60	0.83	A
10BHPF2	15.875	10.16	10.40	7.03	5.00	17.00	18.00	14.00	1.85	15.00	17.30	0.74	A
12BHPF1	19.050	12.07	16.00	8.03	5.40	22.70	23.90	15.80	1.85	25.00	28.80	0.74	A
16BHPF1	25.400	15.88	25.58	11.50	8.10	36.10	37.60	21.00	3.10	45.00	52.20	1.09	A
50HPF1	15.875	10.16	13.60	7.03	5.13	20.70	21.90	14.40	2.03	18.00	21.60	0.92	A
60HPF2	19.050	11.91	11.23	5.63	4.05	16.50	17.60	10.40	1.50	10.00	10.80	0.62	A
63HP	63.000	40.00	23.50	16.00	12.00	35.30	38.30	28.60	4.00	65.00	71.50	4.14	B
63HPF2	63.000	40.00	25.80	14.00	8.20	39.10	41.10	20.00	5.00	50.00	65.70	4.17	B
63HPF4	63.000	40.00	23.50	16.00	12.30	34.70	37.70	28.60	4.00	44.00	57.20	4.13	B
63HPF6	63.000	40.00	28.94	16.00	10.30	41.80	43.40	28.60	4.00	44.00	57.20	5.18	B
C2122HPF1	76.200	47.60	29.00	17.81	12.70	43.30	44.70	38.10	4.80	53.34	59.20	7.05	B

- **Disponibili su richiesta versioni – Zincata (WZP ….) Nichelata (NP ….) Inox (SS ….)**
- **Versions available on request Zinc-plated (WZP ….) Nichel-plated (NP ….) Stainless Steel (SS ….)**



Catena da Trasporto a Perno Forato – Hollow Pin Conveyor Chain

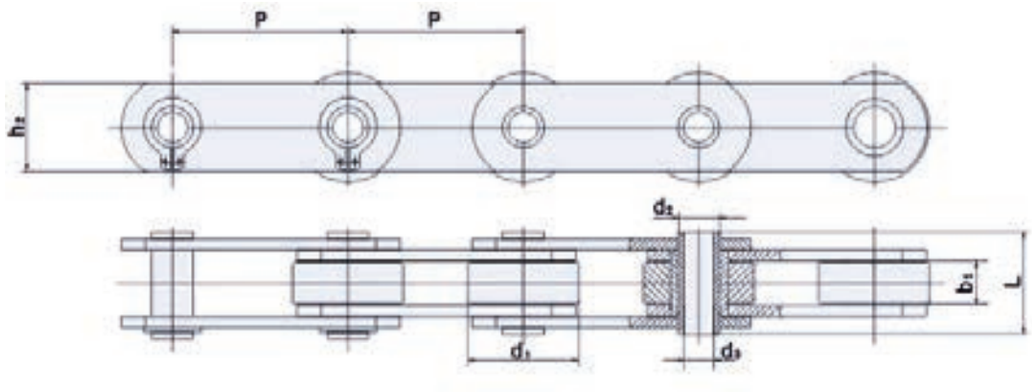


Catena No. Chain No.	Passo Pitch	Diam. Rullo Roller diam.	Largh.fra le Piastre Interne Width Between inner plates	Diam.Perno Pin diameter		Lunghezza Perno Pin Length		Altezza Piastra Inner plate depth	Spessore Piastra Plate tickness	Carico di Rottura Massimo Ultimate Tensile Strength	Carico di Rottura Medio Average Tensile Strength	Peso per mt. Weight per meter
	P	d1 max	b1 min	d2 max	d3 max	L max	Lc max	h2 max	t/T	Q min	Q0	q
	mm	mm	mm	mm	mm	mm	mm	mm	mm	KN	KN	kg/m
C2042HP	25.4	15.88	7.85	5.63	4.00	16.6	17.4	12.0	11.0	13.4	0.82	0.82
C2052HP	31.75	19.05	9.53	7.22	5.13	20.5	21.8	15.0	20.4	23.5	1.25	1.25
C2062HP	38.1	22.23	12.70	8.31	6.00	25.8	26.8	17.0	24.0	27.8	1.72	1.72
C2082HP	50.8	28.58	15.75	11.10	8.03	32.7	33.9	24.0	52.0	57.1	3.54	3.54
C2052HPF1	31.75	19.05	4.40	7.03	5.12	20.0	21.5	15.3	15.0	17.3	1.21	1.21
C2042H-HP	25.40	15.88	7.85	5.63	4.00	18.80	19.90	12.00	2.03	11.00	13.20	0.95
C2052H-HP	31.75	19.05	9.53	7.22	5.12	22.10	23.40	15.00	2.42	20.40	23.50	1.44
C2062H-HP	38.10	22.23	12.70	8.33	6.00	29.20	30.20	17.00	3.25	24.00	27.60	1.99
C2082H-HP	50.80	28.58	15.75	11.40	8.05	36.20	37.60	24.00	4.00	50.00	56.50	3.26
HP40	40.00	22.00	8.75	9.00	6.00	23.00	24.20	18.00	2.50	20.00	21.00	1.49
HP50	50.00	31.00	14.50	13.20	10.40	31.10	32.5	25.00	3.10	30.00	34.20	3.29
HP50F4	50.00	31.00	15.00	13.20	10.20	35.00	37.00	25.00	4.00	40.00	44.80	3.73
63HPF1	63.00	40.00	15.00	16.00	12.10	35.00	36.20	28.50	4.00	50.00	56.70	4.20
DH4202HP	50.80	31.80	15.00	14.00	10.10	36.30	39.00	26.00	3.80	42.00	51.60	3.75
DH4203HP	76.20	31.80	15.00	14.00	10.10	36.30	39.00	26.00	3.80	42.00	47.10	3.01
DH4204HP	101.60	31.80	15.00	14.00	10.10	36.30	39.00	26.00	3.80	42.00	51.60	2.63
DH8403HP	76.20	47.60	19.00	19.05	13.60	43.80	46.30	39.00	3.80	84.30	130.30	6.81
DH8404HP	101.60	47.60	19.00	19.05	13.60	43.80	46.30	39.00	3.80	84.30	130.30	5.78
DH8406HP	152.40	47.60	19.00	19.05	13.60	43.80	46.30	39.00	3.80	84.00	130.30	5.18
HP100	100.00	45.00	22.00	16.00	12.00	46.00	47.50	35.00	5.00	75.00	90.00	6.20
HP100F1	100.00	45.00	22.00	18.00	12.00	47.20	48.50	35.00	5.00	75.00	90.00	6.15

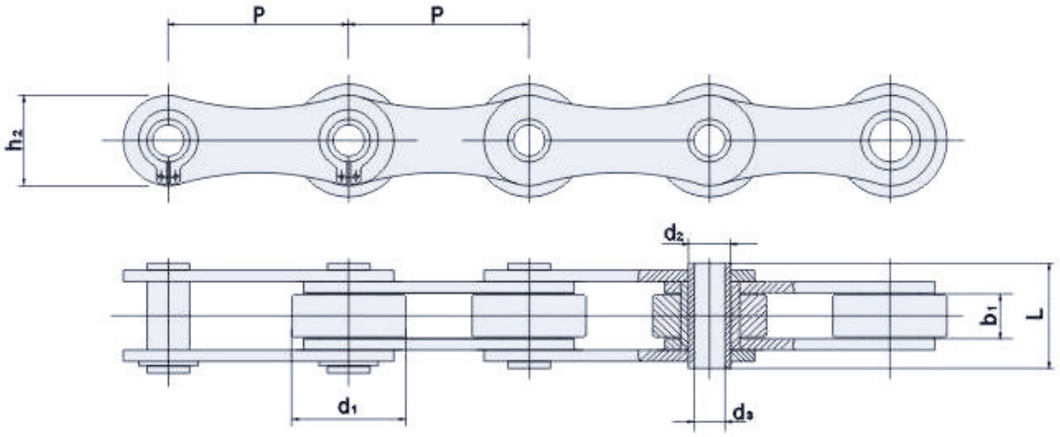
- **Disponibili su richiesta versioni – Zincata (WZP ….) Nichelata (NP ….) Inox (SS ….)**
- **Versions available on request Zinc-plated (WZP ….) Nichel-plated (NP ….) Stainless Steel (SS ….)**

Catena da Trasporto a Perno Forato – Hollow Pin Conveyor Chain

(Type A)



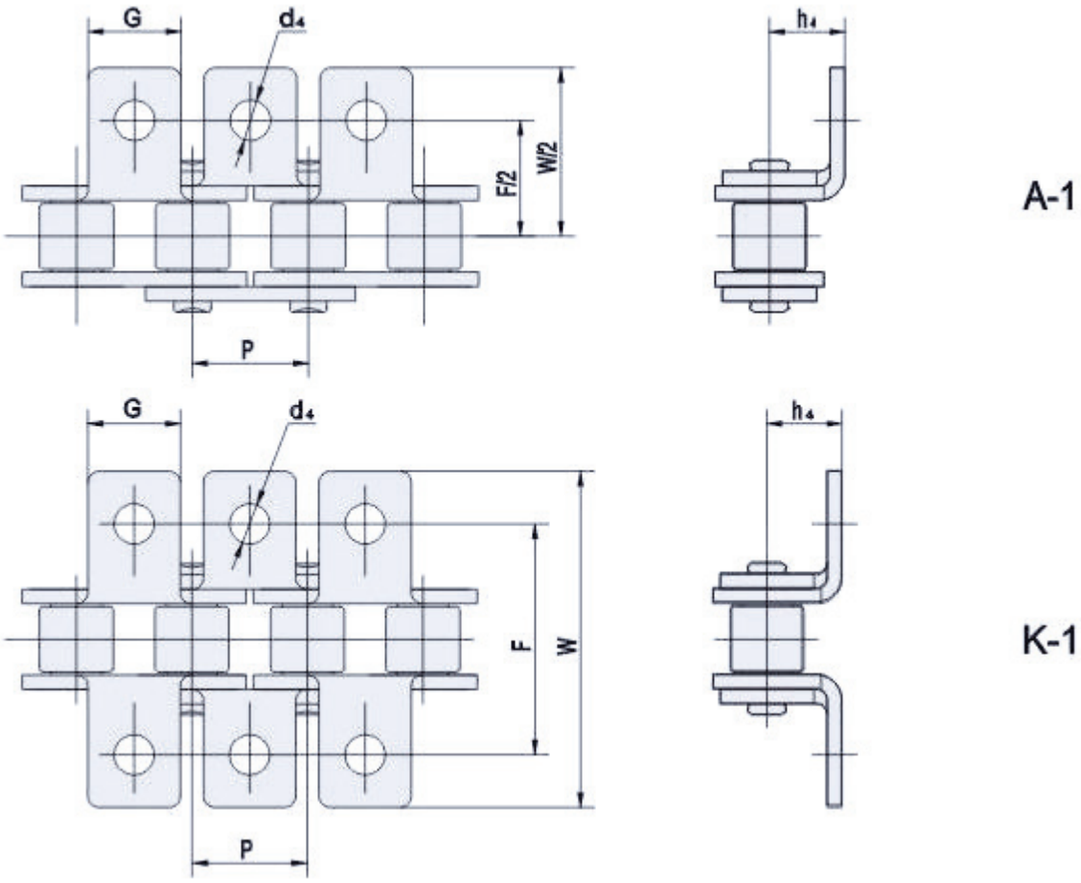
(Type B)



Catena No. Chain No.	Passo Pitch	Diam.Rullo Roller diameter	Largh.fra le Piastre Interne - Width Between inner plates	Diam.Perno Pin Diameter		Altezza Piastra Plate Depth	Lunghezza Perno Pin Length	Carico di Rottura Breaking Load	Tipo Type
	P	d1 max	b1 min	d2 max	d3 max	h2 max	L max	Q min	
	mm	mm	mm	mm	mm	mm	mm	KN	
KC76.71	76.71	47.63	19.05	18.00	12.50	38.10	44.50	125.00	A
KC76.2	76.20	47.63	19.05	18.00	13.10	38.10	44.50	125.00	A
KC76.2A	76.20	47.63	19.05	18.00	13.10	38.10	37.60	83.00	A
260	41.75	17.00	20.50	11.00	8.30	21.40	36.40	27.00	B
262	50.80	30.00	10.00	11.50	8.20	25.60	25.90	60.00	B

- **Disponibili su richiesta versioni – Zincata (WZP ….) Nichelata (NP ….) Inox (SS ….)**
- **Versions available on request Zinc-plated (WZP ….) Nichel-plated (NP ….) Stainless Steel (SS ….)**

Catena da Trasporto con Attacchi – Conveyor Chain with Attachments

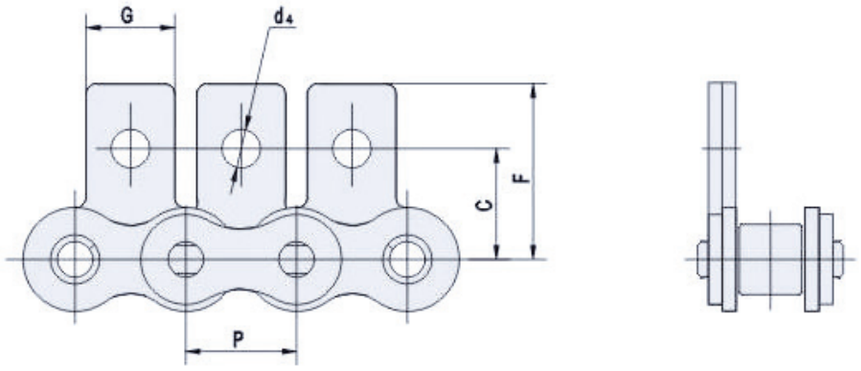


DIN ISO	ANSI	P	G	F	W	T	h4	d4
		mm	mm	mm	mm	mm	mm	mm
08A	40	12.7	9.5	25.4	35.2	1.5	7.9	3.4
10A	50	15.875	12.7	31.75	46.2	2.03	10.3	5.5
12A	60	19.05	15.9	38.1	55.6	2.42	11.9	5.5
16A	80	25.4	19.1	50.8	64.8	3.25	15.9	6.8
20A	100	31.75	25.4	63.5	87.3	4.0	19.8	9.2
24A	120	38.1	28.6	76.2	108.5	4.8	23.0	11.0
28A	140	44.45	34.9	88.9	123	5.6	28.6	11.4
32A	160	50.8	38.1	101.6	142.8	6.4	31.8	13.1
*06B		9.525	8.0	19.04	27	1.3	6.5	3.5
08B		12.7	9.5	25.4	36.4	1.6	8.9	4.5
10B		15.875	14.3	31.76	44.6	1.7	10.31	5.3
12B		19.05	16.0	38.1	52.4	1.85	13.46	6.4
16B		25.4	19.1	50.8	72.6	3.1	15.88	6.4

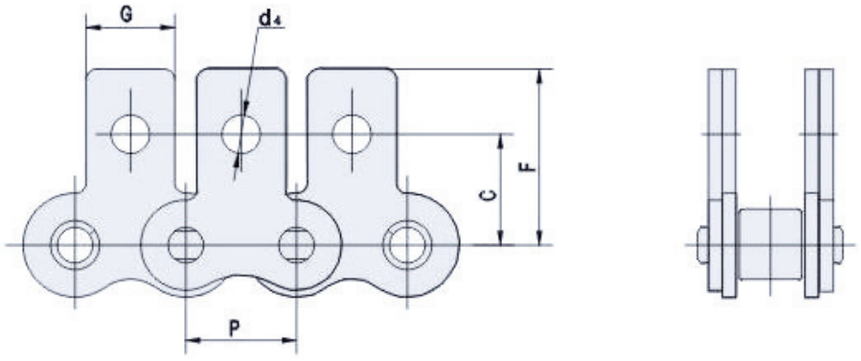
- **Disponibili su richiesta versioni – Zincata (WZP ….) Nichelata (NP ….) Inox (SS ….)**
- **Versions available on request Zinc-plated (WZP ….) Nichel-plated (NP ….) Stainless Steel (SS ….)**

Catena da Trasporto con Attacchi – Conveyor Chain with Attachments

SA-1



SK-1

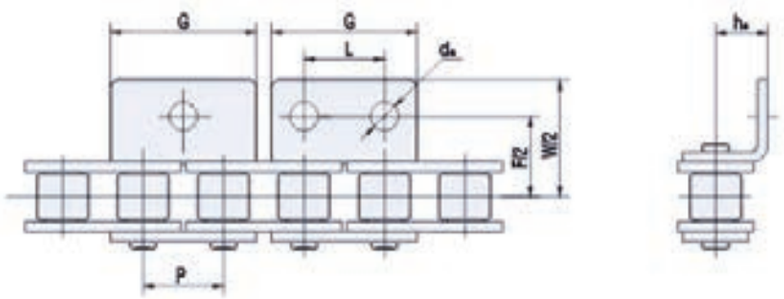


DIN ISO	ANSI	P	G	C	F	T	d4
		mm	mm	mm	mm	mm	mm
08A	40	12.7	9.5	12.7	19.05	1.5	3.4
10A	50	15.875	12.7	15.9	25.25	2.03	5.5
12A	60	19.05	15.9	18.3	29.33	2.42	5.5
16A	80	25.4	19.1	24.6	34.7	3.25	6.8
20A	100	31.75	25.4	31.8	43.3	4.0	9.2
24A	120	38.1	28.6	36.5	51.6	4.8	11.0
28A	140	44.45	34.9	44.5	62.0	5.6	11.4
32A	160	50.8	38.1	50.8	69.85	6.4	13.1
*06B		9.525	8.0	9.52	13.5	1.3	3.5
08B		12.7	9.5	13.35	18.9	1.6	4.5
10B		15.875	14.3	16.5	22.95	1.7	5.3
12B		19.05	16.0	21.45	28.6	1.85	6.4
16B		25.4	19.1	23.15	34	3.1	6.4

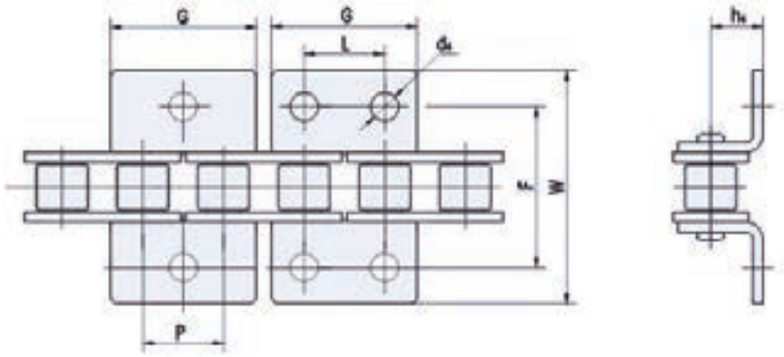
- **Disponibili su richiesta versioni – Zincata (WZP ….) Nichelata (NP ….) Inox (SS ….)**
- **Versions available on request Zinc-plated (WZP ….) Nichel-plated (NP ….) Stainless Steel (SS ….)**

Catena da Trasporto con Attacchi – Conveyor Chain with Attachments

WA-1 WA-2



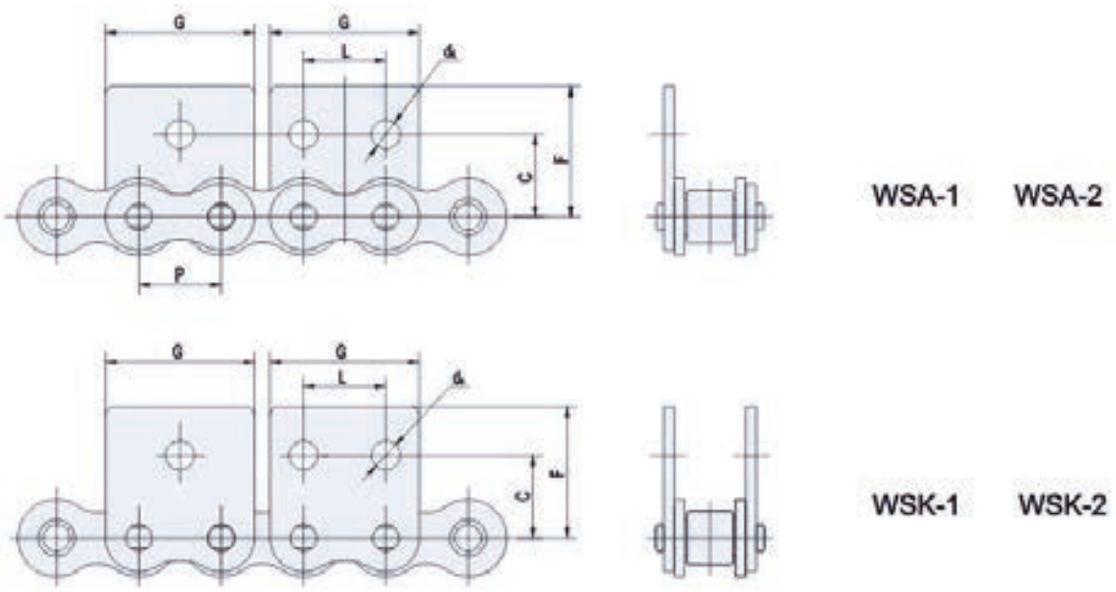
WK-1 WK-2



DIN ISO Chain No.	P	G	L	F	W	h4	d4
	mm	mm	mm	mm	mm	mm	mm
08A	12,700	23.00	12.70	25.40	35.60	7.90	3.40
10A	15,875	28.00	15.875	31.75	46.80	10.30	5.50
12A	19,050	34.65	19.050	38.10	56.40	11.90	5.50
16A	25.400	45.90	25.400	50.80	73.20	15.90	6.80
20A	31.750	57.65	31.750	63.50	89.80	19.80	9.20
24A	38.100	69.30	38.100	76.20	108.80	23.00	9.80
28A	44.450	80.45	44.450	88.90	123.00	28.60	11.40
32A	50.800	92.00	50.800	101.60	142.80	31.75	13.10
08B	12.700	24.00	12.700	25.40	36.40	8.90	4.30
10B	15.875	29.58	15.875	31.80	44.60	10.31	5.30
12B	19.050	34.05	19.050	38.10	52.40	13.46	6.40
16B	25.400	46.40	25.400	50.80	72.60	15.88	6.40
20B	31.750	58.10	31.750	63.00	100.50	19.80	9.00

- **Disponibili su richiesta versioni – Zincata (WZP ….) Nichelata (NP ….) Inox (SS ….)**
- **Versions available on request Zinc-plated (WZP ….) Nichel-plated (NP ….) Stainless Steel (SS ….)**

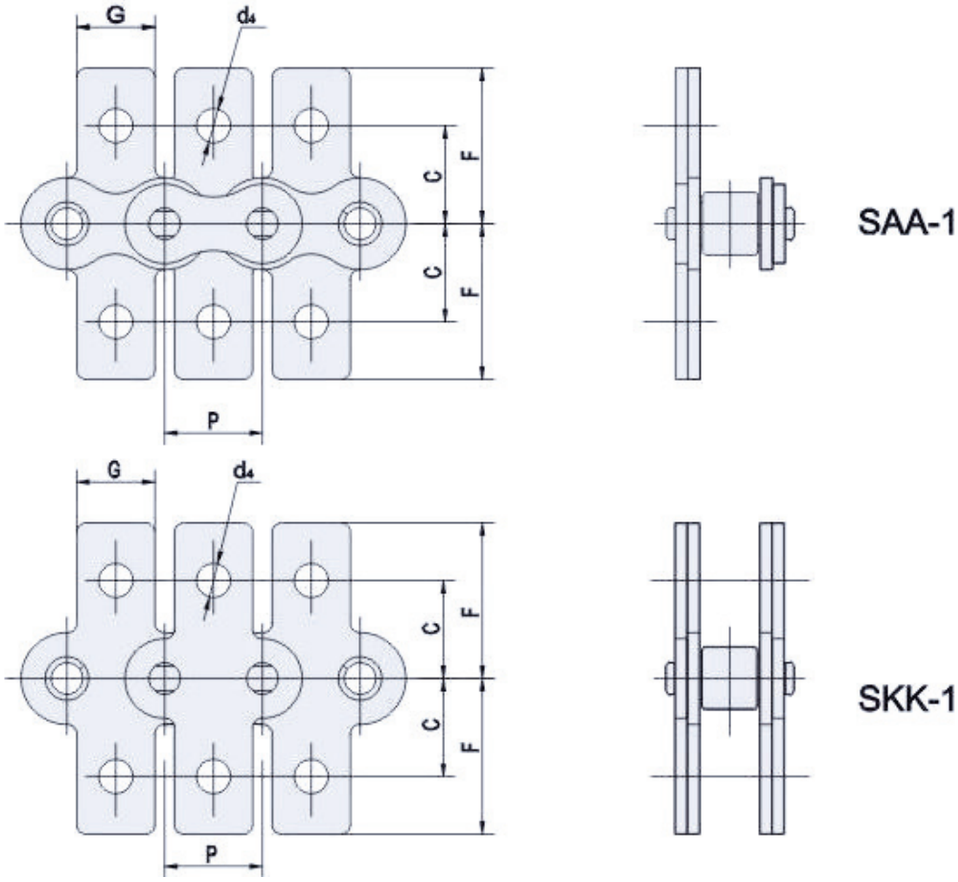
Catena da Trasporto con Attacchi – Conveyor Chain with Attachments



DIN ISO Chain No.	P mm	G mm	L mm	C mm	F mm	d4 mm
06C	9.525	17.32	9.525	9.50	14.55	2.8
08A	12.700	23.00	12.700	12.70	17.40	3.4
10A	15.875	28.00	15.875	15.90	23.05	5.5
12A	19.050	34.65	19.050	18.30	26.86	5.5
16A	25.400	45.90	24.400	24.60	35.45	6.8
20A	31.750	57.65	31.750	31.80	44.00	9.2
24A	38.100	69.30	38.100	36.50	51.60	9.8
28A	44.450	80.45	44.450	44.50	62.00	11.4
32A	50.800	92.00	50.800	50.80	69.85	13.1
08B	12.700	23.30	12.700	13.35	18.90	4.3
10B	15.875	29.58	15.875	16.50	22.95	5.3
12B	19.050	34.05	19.050	21.45	28.60	6.4
16B	25.400	46.40	25.400	23.15	34.00	6.4
20B	31.750	58.10	31.750	30.50	45.70	9.0

- **Disponibili su richiesta versioni – Zincata (WZP ….) Nichelata (NP ….) Inox (SS ….)**
- **Versions available on request Zinc-plated (WZP ….) Nichel-plated (NP ….) Stainless Steel (SS ….)**

Catena da Trasporto con Attacchi – Conveyor Chain with Attachments

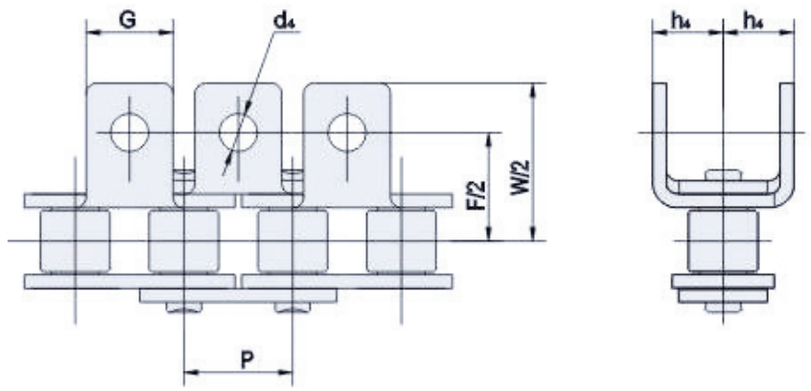


DIN ISO Chain No.	P	G	C	F	d4
	mm	mm	mm	mm	mm
08A	12.700	9.5	12.70	19.05	3.4
10A	15.875	12.7	15.90	25.25	5.5
12A	19.050	15.9	18.30	29.33	5.5
16A	25.400	19.1	24.60	34.70	6.8
20A	31.750	25.4	31.80	43.30	9.2
*06B	9.525	8.0	9.52	13.50	3.5
08B	12.700	9.5	13.35	18.90	4.3
10B	15.875	14.3	16.50	22.95	5.3
12B	19.050	16.0	21.45	28.60	6.4
16B	25.400	19.1	23.15	34.00	6.4
20B	31.750	35.0	30.50	45.70	9.0

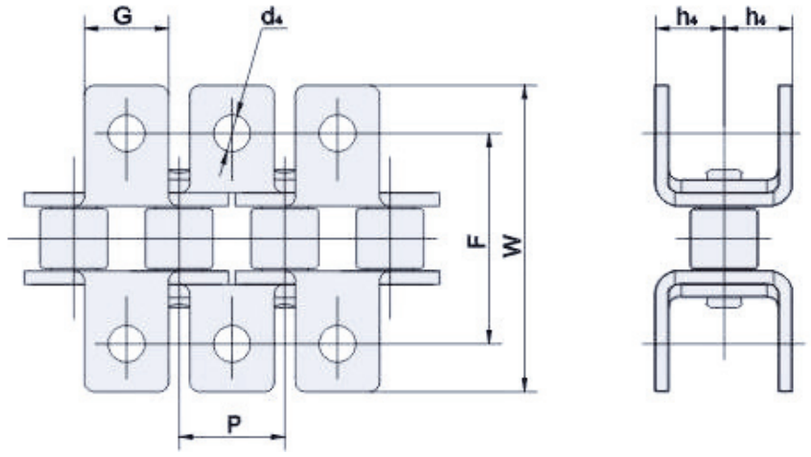
- **Disponibili su richiesta versioni – Zincata (WZP ….) Nichelata (NP ….) Inox (SS ….)**
- **Versions available on request Zinc-plated (WZP ….) Nichel-plated (NP ….) Stainless Steel (SS ….)**
- - Solo a Piastra Diritta – Only Straight Side Plate

Catena da Trasporto con Attacchi – Conveyor Chain with Attachments

AA-1



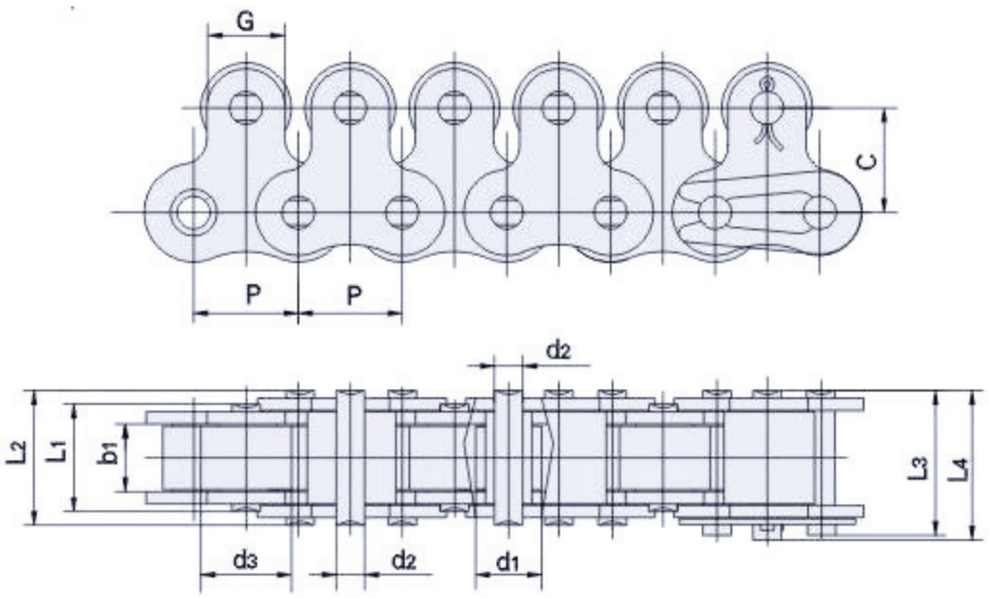
KK-1



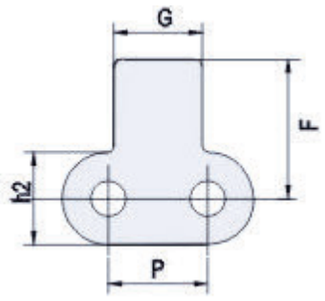
DIN ISO Chain No.	P	G	F	W	h4	d4
	mm	mm	mm	mm	mm	mm
08A	12.700	9.5	25.40	35.2	7.90	3.4
10A	15.875	12.7	31.75	46.2	10.30	5.5
12A	19.050	15.9	38.10	55.6	11.90	5.5
16A	25.400	19.1	50.80	64.8	15.90	6.8
20A	31.750	25.4	63.50	87.3	19.80	9.2
*06B	9.525	8.0	19.04	27.0	6.50	3.5
08B	12.700	9.5	25.40	36.4	8.90	4.5
10B	15.875	14.3	31.75	44.6	10.31	5.3
12B	19.050	16.0	38.10	52.4	13.46	6.4
16B	25.400	19.1	50.80	72.6	15.88	6.4
20B	31.750	35.0	63.50	100.5	19.80	9.0

- **Disponibili su richiesta versioni – Zincata (WZP ….) Nichelata (NP ….) Inox (SS ….)**
- **Versions available on request Zinc-plated (WZP ….) Nichel-plated (NP ….) Stainless Steel (SS ….)**
- - Solo a Piastra Diritta – Only Straight Side Plate

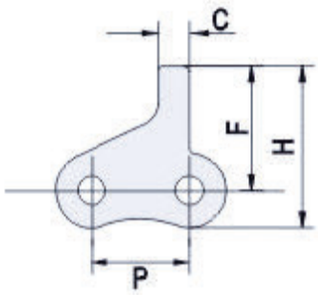
Catena da Trasporto con Attacchi – Conveyor Chain with Attachments



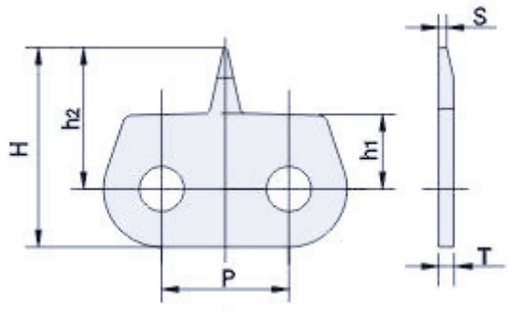
Catena No. Chain No.	Passo Pitch	Diam.Rullo Roller diameter		Largh.fra le Piastre Interne Width between inner plate	Diam. Perno Pin diameter	Lungh.Perno Pin Length		Lungh.Perno Pin Length		Dimensioni Piastra Plate dimension		Carico di Rottura Massimo Ultimate tensile stength	Peso al mt Weight per meter
	P	d2 max	d3 max	b1 min	d 2 max	L1 max	L2 max	L3 max	L4 max	G	C	Q min	q
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	KN	Kg/m
40-1-1LTR	12.700	7.95	11.00	7.85	3.96	13.50	16.60	17.80	18.60	9.5	12.70	14.10	1.44
50-1-1LTR	15.875	10.16	15.00	9.40	5.08	16.50	20.90	22.20	12.70	12.7	15.90	22.20	2.30
60-1-1LTR	19.050	11.91	18.00	12.57	5.94	21.00	25.90	27.50	28.60	15.90	18.30	31.80	3.40
80-1-1LTR	25.400	15.88	24.00	15.75	7.92	26.20	32.80	34.90	35.50	19.10	24.60	56.70	5.90
100-1-1LTR	31.750	19.05	30.00	18.90	9.53	32.30	40.00	43.40	43.4	25.40	31.80	88.50	8.90



Catena No. Chain No.	P	G	F	h2
	mm	mm	mm	mm
C08B-SAOY1	12.700	11.30	20.00	11.80
C08B-SAOY2	12.700	11.30	17.30	11.80

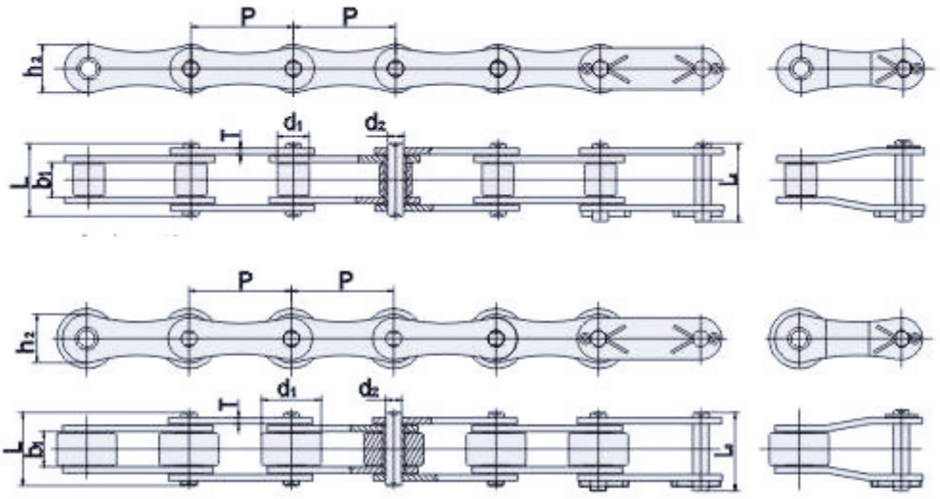


Catena No. Chain No.	P	C	F	H
	mm	mm	mm	mm
05B-SAOY1	8.00	2.50	10.00	13.00



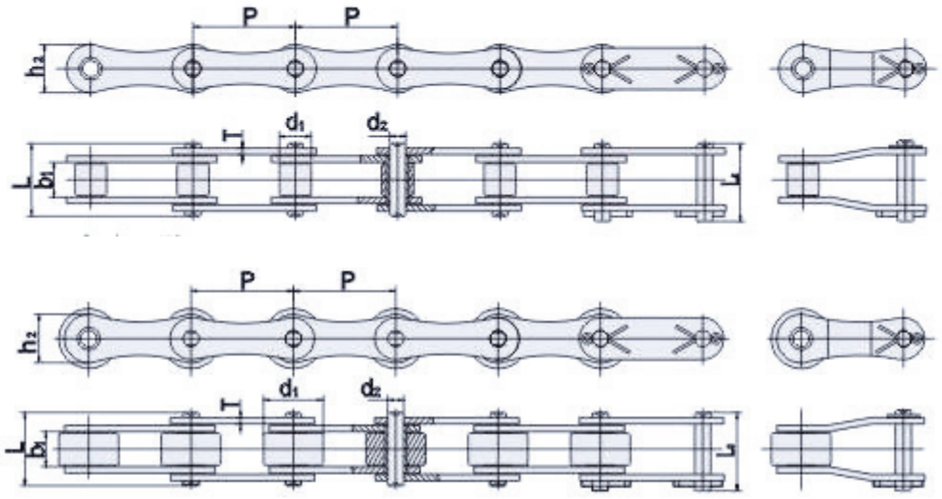
Catena No. Chain No.	P	h 1	h 2	T	S
	mm	mm	mm	mm	mm
08BF4	12.70	8.00	14.10	1.60	0.80

Catena da Trasporto a Doppio Passo – Double Pitch Conveyor Chain



DIN ISO	ANSI	Passo Pitch	Diam. Rullo Roller Diam.	Largh.fra le Piastre Interne Width Between inner Plate	Diam. Perno Pin Diam.	Lunghezza Perno Pin Lenght		Altezza Piastra Inner Plate depth.	Spessore Piastra Plate Thickness	Carico di Rottura Massimo Ultimate Tensile Strenght	Carico di Rottura Medio Average Tensile Strenght	Peso al mt. Weight at meter
		P	d1 max	b1 min	d2 max	L max	Lc max	h2 max	T	Q min	Q0	q
		mm	mm	mm	mm	mm	mm	mm	mm	KN	KN	kg/m
208A	2040	25.40	7.92	7.85	3.96	16.60	15.75	12.00	1.50	14.10	16.70	0.427
208AL	2042	25.40	15.88	7.85	3.96	16.60	15.75	12.00	1.50	14.10	16.70	0.780
208AH	2040H	25.40	7.92	7.85	3.96	18.80	19.90	12.00	2.03	14.10	17.20	0.530
208B		25.40	8.51	7.75	4.45	16.70	18.00	11.80	1.60	18.00	19.40	0.480
208BL		25.40	15.88	7.75	4.45	16.70	18.00	11.80	1.60	18.00	19.40	0.610
210A	2050	31.75	10.16	9.40	5.08	20.90	22.20	15.00	2.03	22.20	28.10	0.687
210AL	2052	31.75	19.05	9.40	5.08	20.90	22.20	15.00	2.03	22.20	28.10	1.170
212A	2060	38.10	11.91	12.57	5.94	25.90	27.50	18.00	2.42	31.80	36.80	1.020
212AL	2062	38.10	22.23	12.57	5.94	25.00	27.50	18.00	2.42	31.80	36.80	1.740
212AH	2060H	38.10	11.91	12.57	5.94	29.30	31.00	18.00	3.25	31.80	41.60	1.280
212AHL	2062H	38.10	22.23	12.57	5.94	29.30	31.00	18.00	3.25	31.80	41.60	1.990
216A	2080	50.80	15.88	15.75	7.92	32.80	34.90	24.00	3.25	56.70	65.70	1.820
216AL	2082	50.80	28.58	15.75	7.92	32.80	34.90	24.00	3.25	56.70	65.70	2.880
216AH	2080H	50.80	15.88	15.75	7.92	36.20	37.70	24.00	4.00	56.70	70.00	2.140
216AHL	2082H	50.80	28.56	15.75	7.92	36.20	37.70	24.00	4.00	56.70	70.00	3.200

Catena da Trasporto a Doppio Passo – Double Pitch Conveyor Chain

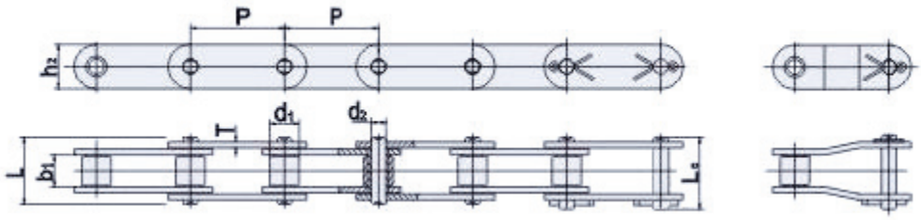


DIN ISO	ANSI	Passo Pitch	Diam. Rullo Roller Diam.	Largh.fra le Piastre Interne Width Between inner Plate	Diam. Perno Pin Diam.	Lunghezza Perno Pin Lenght		Altezza Piastra Inner Plate depth.	Spessore Piastra Plate Thickness	Carico di Rottura Massimo Ultimate Tensile Strenght	Carico di Rottura Medio Average Tensile Strenght	Peso al mt. Weight at meter
		P	d1 max	b1 min	d2 max	L max	Lc max	h2 max	T	Q min	Q0	q
		mm	mm	mm	mm	mm	mm	mm	mm	KN	KN	kg/m
220A	2100	63.50	19.05	18.90	9.53	40.00	43.40	30.00	4.00	88.50	102.60	2.790
220AL	2102	63.50	39.67	18.90	9.53	40.00	43.40	30.00	4.00	88.50	102.60	4.990
220AH	2100H	63.50	19.05	18.90	9.53	43.00	46.90	30.00	4.80	88.50	112.40	3.200
220AHL	2102H	63.50	39.67	18.90	9.53	43.60	46.90	30.00	4.80	88.50	112.40	5.400
224A	2120	76.20	22.23	25.22	11.10	50.45	53.50	35.70	4.80	127.00	147.30	4.010
224AL	2122	76.20	44.45	25.22	11.10	50.45	53.50	35.70	4.80	127.00	147.30	6.960
224AH	2120H	76.20	22.23	25.22	11.10	53.50	57.50	35.70	5.60	127.00	160.90	4.490
224AHL	2122H	76.20	44.45	25.22	11.10	53.50	57.50	35.70	5.60	127.00	160.90	7.430
232A	2160	101.60	28.58	31.75	14.27	34.50	68.70	47.80	6.40	226.80	278.90	7.010
232AL	2162	101.60	57.15	31.75	14.27	64.50	68.70	47.80	6.40	226.80	278.90	12.420
232AH	2160H	101.60	28.58	31.75	14.27	68.20	73.00	47.80	7.20	226.80	285.80	7.700
232AHL	2162H	101.60	57.15	31.75	14.27	68.20	73.00	47.80	7.20	226.80	285.80	13.100

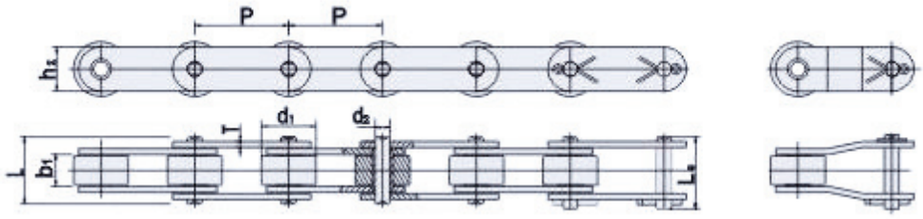
- **Disponibili su richiesta versioni – Zincata (WZP ….) Nichelata (NP ….) Inox (SS ….)**
- **Versions available on request Zinc-plated (WZP ….) Nichel-plated (NP ….) Stainless Steel (SS ….)**

Catena da Trasporto a Doppio Passo – Double Pitch Conveyor Chain

Small roller type



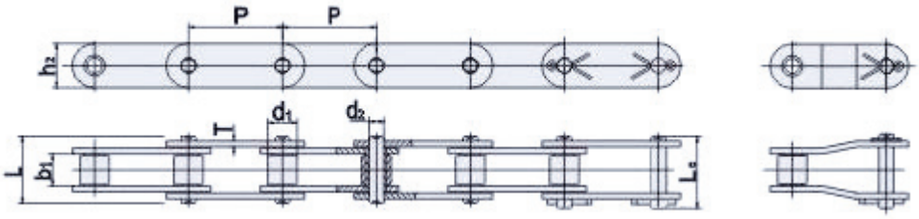
Large roller type



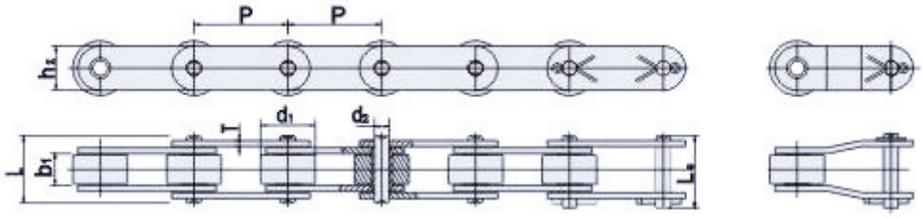
DIN ISO	ANSI	Passo Pitch	Diam. Rullo Roller Diam.	Largh.fra le Piastre Interne Width Between inner Plate	Diam. Perno Pin Diam.	Lunghezza Perno Pin Lenght		Altezza Piastra Inner Plate depth.	Spessore Piastra Plate Thickness	Carico di Rottura Massimo Ultimate Tensile Strenght	Carico di Rottura Medio Average Tensile Strenght	Peso al mt. Weight at meter
		P	d1 max	b1 min	d2 max	L max	Lc max	h2 max	T	Q min	Q0	q
		mm	mm	mm	mm	mm	mm	mm	mm	KN	KN	kg/m
C206A	C2040	25.40	7.92	7.85	3.96	16.60	17.75	12.00	1.50	14.10	16.70	0.516
C206AL	C2042	25.40	15.88	7.85	3.96	16.60	17.75	12.00	1.50	14.10	16.70	0.806
C206AH	C2040H	25.40	7.92	7.85	3.96	18.80	19.90	12.00	2.03	14.10	17.20	0.651
C208B		25.40	8.51	7.75	4.45	16.70	18.20	11.80	1.60	18.00	19.40	0.550
C208BL		25.40	15.88	7.75	4.45	16.70	18.20	11.80	1.60	18.00	19.40	0.883
C210A	C2050	31.75	10.16	9.40	5.08	20.90	22.20	15.00	2.03	22.20	28.10	0.846
C210AL	C2052	31.75	19.05	9.40	5.08	20.90	22.20	15.00	2.03	22.20	28.10	1.322
C212A	C2060	38.10	11.91	12.57	5.94	25.90	27.50	18.00	2.42	31.80	36.80	1.237
C212AL	C2062	38.10	22.23	12.57	5.94	25.90	27.50	18.00	2.42	31.80	36.80	1.950
C212AH	C2060H	38.10	11.91	12.57	5.94	29.30	31.00	18.00	3.25	31.80	41.60	1.560
C212AHL	C2062H	38.10	22.23	12.57	5.94	29.30	31.00	18.00	3.25	31.80	41.60	2.270
C216A	C2080	50.80	15.88	15.75	7.92	32.80	34.90	24.00	3.25	56.70	65.70	2.170
C216AL	C2080	50.80	28.58	15.75	7.92	32.80	34.90	24.00	3.25	56.70	65.70	3.230

Catena da Trasporto a Doppio Passo – Double Pitch Conveyor Chain

Small roller type



Large roller type

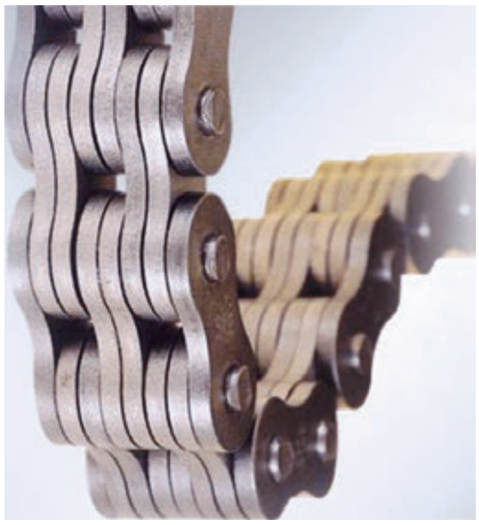


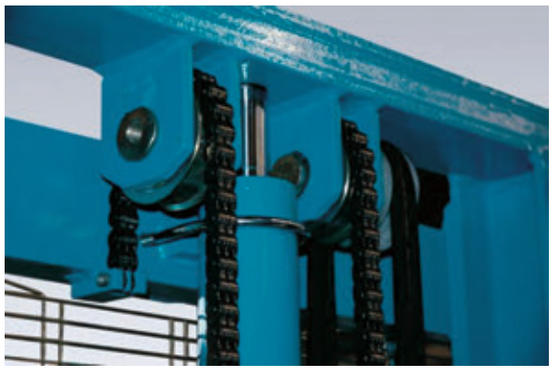
DIN ISO	ANSI	Passo Pitch	Diam. Rullo Roller Diam.	Largh.fra le Piastre Interne Width Between inner Plate	Diam. Perno Pin Diam.	Lunghezza Perno Pin Lenght		Altezza Piastra Inner Plate depth.	Spessore Piastra Plate Thickness	Carico di Rottura Massimo Ultimate Tensile Strenght	Carico di Rottura Medio Average Tensile Strenght	Peso al mt. Weight at meter
		P	d1 max	b1 min	d2 max	L max	Lc max	h2 max	T	Q min	Q0	q
		mm	mm	mm	mm	mm	mm	mm	mm	KN	KN	kg/m
C216AH	C2080H	50.80	15.88	15.75	7.92	36.20	37.70	24.00	4.00	56.70	70.00	2.560
C216AHL	C2082H	50.80	28.58	15.75	7.92	36.20	37.70	24.00	4.00	56.70	70.00	3.630
C220A	C2100	63.50	19.05	18.90	9.53	40.00	43.40	30.00	4.00	88.50	102.60	3.290
C220AL	C2102	63.50	39.67	18.90	9.53	40.00	43.40	30.00	4.00	88.50	102.60	5.480
C220AH	C2100H	63.50	19.05	18.90	9.53	43.60	46.90	30.00	4.80	88.50	112.40	3.780
C220AHL	C2102H	63.50	39.67	18.90	9.53	43.60	46.90	30.00	4.80	88.50	112.40	5.970
C224A	C2120	76.20	22.23	25.22	11.10	50.45	53.50	35.70	4.80	127.00	147.30	4.750
C224AL	C2122	76.20	44.45	25.22	11.10	50.45	53.50	35.70	4.80	127.00	147.30	7.690
C224AH	C2120H	76.20	22.23	25.22	11.10	53.50	57.50	35.70	5.60	127.00	160.90	5.340
C224AHL	C2122H	76.20	44.45	25.22	11.10	53.50	57.50	35.70	5.60	127.00	160.90	8.290
C232A	C2160	101.60	28.58	31.75	14.27	64.50	66.70	47.80	6.40	226.80	278.90	8.230
C232AL	C2162	101.60	57.15	31.75	14.27	64.50	66.70	47.80	6.40	226.80	278.90	13.630
C232AH	C2160H	101.60	28.58	31.75	14.27	66.20	73.00	47.80	7.20	226.80	285.80	9.07
C232AHL	C2162H	101.60	57.15	31.75	14.27	66.20	73.00	47.80	7.20	226.80	285.80	14.47

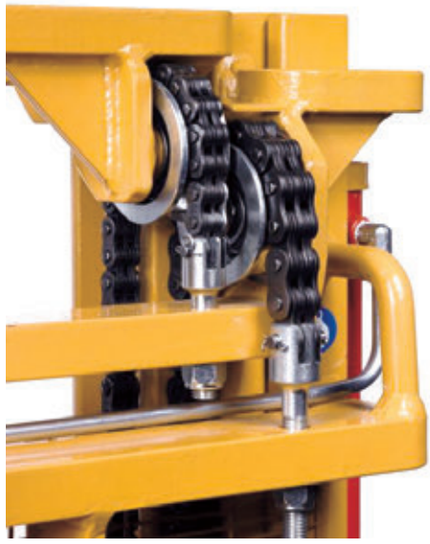
- **Disponibili su richiesta versioni – Zincata (WZP ….) Nichelata (NP ….) Inox (SS ….)**
- **Versions available on request Zinc-plated (WZP ….) Nichel-plated (NP ….) Stainless Steel (SS ….)**


K.S.F.
DRIVE CHAIN
K.S.F.
K.S.F.
K.S.F.
K.S.F.

Catena Fleyer – Fleyer Chain







INTRODUZIONE

Le catene per “Trazione” trasferiscono una forza da un punto ad un’ altro lavorando quindi solitamente in condizioni di moto di traslazione alterno (le catene per la trasmissione invece, vengono impiegate per trasferire potenza da un ’albero rotante ad un altro).
La catena trazione generalmente non è chiusa ad anello.
E’ costituita da sole piastre e perni ribaditi.

INTRODUCTION

“Tension linkage” (also called leaf chains, or fleyer chains) chains are a means of transmiting reciprocating motion, or lift, rather than continuous rotative power (like in power transmission chains).
A predominating feature is that the chain does not have to be formed endless.
The chain is built of interlaced plates held together by riveted pins.

VANTAGGI DELLA CATENA TRAZIONE IN CONFRONTO ALLA FUNE D’ACCIAIO

Evidenziamo qui di seguito gli aspetti in cui la catena offre indubbi vantaggi rispetto alle funi in acciaio:
1. La catena può avvolgersi su una puleggia di diametro inferiore che nel caso della fune d’acciaio.
2. La catena può essere lubrificata più facilmente e più efficacemente.
3. La catena è facile da montare e smontare. Gli attacchi terminali, non dovendo lavorare per attrito, come nel caso dei morsetti delle funi, non richiedono frequenti controlli ed aggiustaggi.
4. Con l’uso della catena a rulli, a bussole od a perni, è possibile trasformare, a mezzo di una ruota dentata, un moto rotatorio in moto traslatorio, senza pericolo di slittamento, cosa non realizzabile con normali funi di acciaio e relative pulegge.

TENSION LINKAGE CHAIN ADVANTAGES AS COMPARED TO WIRE CABLES

We highlight herewith the advantageous characteristics of tension linkage chains as compared to wire cables:
1. Chains can flex over a smaller radius than cables.
2. Chains can be lubricated much easier and effectively than cables.
3. Chains are easy to install and remove. Chain connectors, since they
do not depend on friction clamps, do not require frequent inspection do not depend on friction clamps, do not require frequent inspection and tightening.
4. Roller or hoist chains meshed with a sprocket provide positive translation of rotary motion to linear motion, which is not possible to obtain between a cable and a sheave.

COSTRUZIONE

Le catene Fleyer **KSF** sono costruite per resistere alle più severe condizioni di impiego, in presenza di carichi a strappi, sollecitazioni dinamiche derivate dall’uso dei carrelli elevatori su percorsi accidentati, e quando la resistenza a fatica è una caratteristica determinante.
La costruzione a piastre e perni garantisce una maggior possibilità di carico nei confronti delle catene a rulli; anche il carico di rottura, a parità di ingombro, rispetto alle catene a rulli, risulta decisamente superiore.
Per poter garantire il miglior risultato, soprattutto in presenza di sollecitazioni dinamiche, le piastre sono costruite in acciaio di qualità bonificato, mentre i perni sono di acciaio legato e opportunamente trattati per ottimizzare le caratteristiche di resistenza all’usura e di resistenza meccanica.

CONSTRUCTION

KSF tension linkage (Fleyer) chains are designed and built to perform effectively even in the most severe operating conditions, in presence of shock loads, dynamic stresses caused for example by the use of fork lifts trucks in bumpy terrains, and when a high fatigue resistance is an essential characteristic.
The plates and pin design allow higher breaking loads and lower space requirements than roller chains.
In order to guarantee a better performance, in particular, when dynamic loads are present, plates are made out of through hardened top quality steels whereas pins are made of specially treated alloy steels to optimize wear-resistance and mechanical resistance properties.

CONTROLLO QUALITA’

Il servizio Controllo Qualità **KSF** segue le diverse fasi della produzione garantendo che la qualità dei materiali, le dimensioni e le tolleranze dei componenti, le caratteristiche meccaniche dopo i trattamenti termici e le operazioni di precarico-controllo finale rientrano negli standard di qualità previsti.
Il rigoroso controllo dalla accettazione materiali sino ai tests finali è effettuato in pieno accordo con le direttive ISO 9001.

QUALITY CONTROLS

Materials employed, production processes, tolerances of components, heat treatments, preloading and final checks are all specified and controlled following the most demanding standards.
All quality checks are perfomed in strict accordance to ISO 9001 certified procedures.

PRECARICO

Tutte le catene Fleyer **KSF** a montaggio ultimato sono sottoposte ad un precarico che rende possibile:
a) Controllo al 100% della produzione: Normalmente il precarico è eseguito con valori di carico nettamente superiori a quelli di esercizio. Risultato: garanzia assoluta di qualità.
b) Incremento della resistenza a fatica: Proprio per effetto dell'assestamento dei particolari componenti la catena e della conseguente miglior distribuzione dei carichi sugli stessi.

PRELOADING

100% of our production is preloaded, process that enables:
a) The control of 100% of the production , since preloading is done above the normal working loads at which the chain will operate.
b) The increase in fatigue resistance, thanks to the balancing effect of the stresses on the various components.

RESISTENZA A FATICA

Il limite di fatica è la caratteristica principale di questo tipo di catene.
La combinazione dei diversi fattori, acciai di qualità
impiegati, tolleranze di fabbricazione, caratteristiche impiegati, tolleranze di fabbricazione, caratteristiche di finitura e precarico, controllo di qualità, fanno si che le catene Fleyer **KSF** offrano un limite di fatica molto elevato.

RESISTANCE TO FATIGUE

Fatigue resistance is the main characteristic of these types of chains.
Years of continuous work of our Research & Development Center has enabled the optimization of the quality of the steels employed, production tolerances, mechanical characteristics after heat treatment, finishing and preloading processes and quality checks.
As a consequence, **KSF** tension linkage chains reach excellent fatigue resistance values.

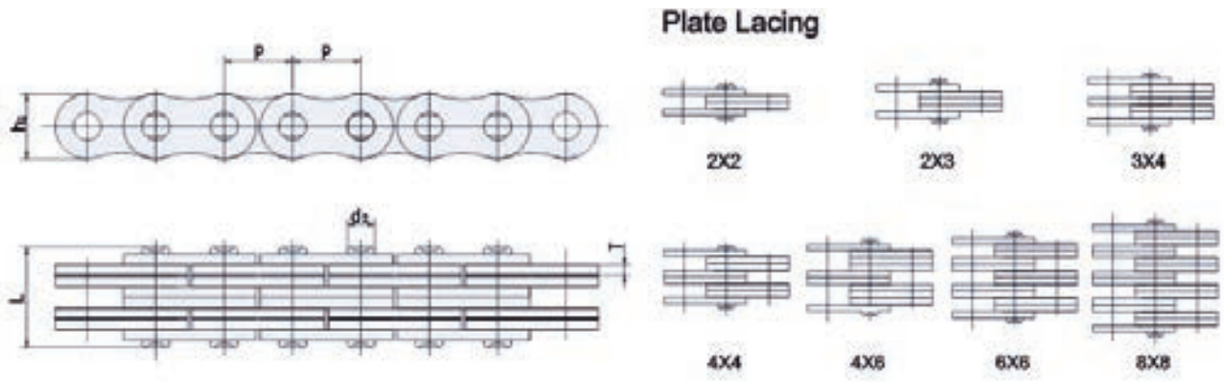
CERTIFICATO DI COLLAUDO

I valori minimi dei carichi di rottura sono fissati dalle norme ISO (International Standard Organisation) o da altre norme (UNI, DIN, BS, ANSI, etc.) in funzione dei tipi di catena.
I carichi minimi di rottura delle Fleyer **KSF** soddisfano e il più delle volte superano in larga misura i carichi previsti dalle norme.
Nel caso specifico del carico di rottura, in base a criteri statistici, vengono prelevati campioni dalla produzione e sottoposti a prova di trazione.
I carichi di rottura ottenuti sono registrati ed archiviati.
In caso di necessità, e quando richiesto in sede d'ordinazione, **KSF** è in condizione di fornire il «Certificato di collaudo» dello stesso lotto o della stessa catena fornita al Cliente.

TEST CERTIFICATE

Minimum tensile strength values are specified by international standards (ISO) or by other norms(UNI, DIN, BS, ANSI, etc).
Minimum tensile breaking loads of **KSF** chains are equal or higher (usually well in excess) of what specified by the norms.
Traction lab tests are performed on production runs on a statistical basis.
Test certificates on each order delivered to the customer can be supplied, provided these are requested when ordering.

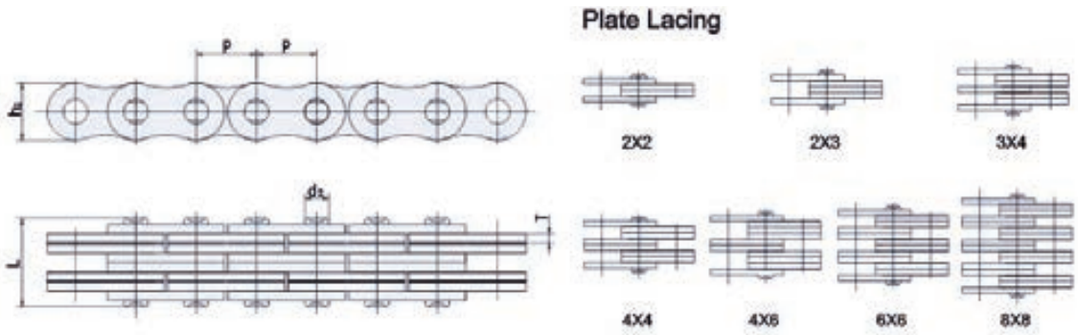
Catena Fleyer – Fleyer Chain



ISO Catena No. Chain No.	ANSI Catena No. Chain No.	Passo Pitch	Compos. Catena Chain lacing	Altezza Piastra Plate depth	Spessore Piastra Plate thick ness	Diam. Perno Pin diameter	Lungh. Perno Pin Length	Carico di Rottura Massimo Ultimate tensile strength	Carico di Rottura Medio Average tensile strength	Peso al mt. Weight per meter
		P		h2 max	T max	d2 max	L max	Q min	Qo	q
		mm		mm	mm	mm	mm	KN	KN	kg/m
LH0822	BL422	12.7	2×2	12.07	2.08	5.09	11.15	22.2	27.9	0.64
LH0823	BL423		2×3				13.16	22.2	27.6	0.8
LH0834	BL434		3×4				17.4	33.4	41.6	1.12
LH0844	BL444		4×4				19.51	44.5	56.0	1.28
LH0846	BL446		4×6				23.75	44.5	56.2	1.6
LH0866	BL466		6×6				27.99	66.7	81.7	1.92
LH0888	BL488		8×8				36.45	89.0	109.5	2.56
LH1022	BL522	15.875	2×2	15.09	2.44	5.96	12.9	33.4	42.8	0.88
LH1023	BL523		2×3				15.37	33.4	42.9	1.1
LH1034	BL534		3×4				20.32	48.9	63.7	1.5
LH1044	BL544		4×4				22.78	66.7	84.5	1.8
LH1046	BL546		4×6				27.74	66.7	84.6	2.2
LH1066	BL566		6×6				32.69	100.1	125.1	2.65
LH1088	BL588		8×8				42.57	133.4	169.8	3.5

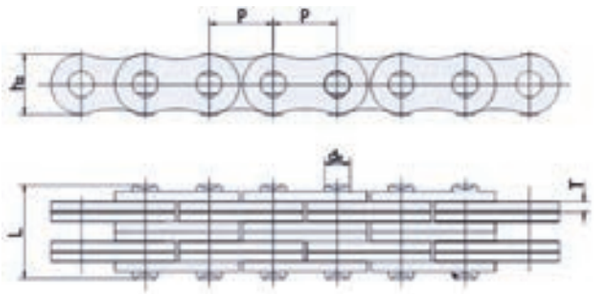
ISO Catena No. Chain No.	ANSI Catena No. Chain No.	Passo Pitch	Compos. Catena Chain lacing	Altezza Piastra Plate depth	Spessore Piastra Plate thick ness	Diam. Perno Pin diameter	Lungh. Perno Pin Length	Carico di Rottura Massimo Ultimate tensile strength	Carico di Rottura Medio Average tensile strength	Peso al mt. Weight per meter
		P		h2 max	T max	d2 max	L max	Q min	Qo	q
		mm		mm	mm	mm	mm	KN	KN	kg/m
LH1222	BL622	19.05	2×2	18.11	3.3	7.94	17.37	48.9	63.6	1.45
LH1223	BL623		2×3				20.73	48.9	63.7	1.8
LH1234	BL634		3×4				27.43	75.6	102.6	2.5
LH1244	BL644		4×4				30.78	97.9	122.6	2.9
LH1246	BL646		4×6				37.49	97.9	122.5	3.6
LH1266	BL666		6×6				44.2	146.8	190.8	4.3
LH1288	BL688		8×8				57.61	195.7	238.9	5.8
LH1622	BL822	25.4	2×2	24.13	4.09	9.54	21.34	84.5	108.2	2.2
LH1623	BL823		2×3				25.48	84.5	108.5	2.7
LH1634	BL834		3×4				33.76	129.0	143.6	3.8
LH1644	BL844		4×4				37.90	169.0	214.7	4.3
LH1646	BL846		4×6				46.18	169.0	214.6	5.4
LH1666	BL866		6×6				54.46	253.6	324.7	6.5
LH1688	BL888		8×8				71.02	338.1	432.7	8.6
LH2022	BL1022	31.75	2×2	30.18	4.9	11.11	25.37	115.6	146.9	3.4
LH2023	BL1023		2×3				30.33	115.6	146.9	4.3
LH2034	BL1034		3×4				40.23	182.4	231.6	6.0
LH2044	BL1044		4×4				45.19	231.3	291.5	6.9
LH2046	BL1046		4×6				55.09	231.3	291.6	8.6
LH2066	BL1066		6×6				65.00	347.0	430.3	10.3
LH2088	BL1088		8×8				84.81	462.6	555.2	13.8

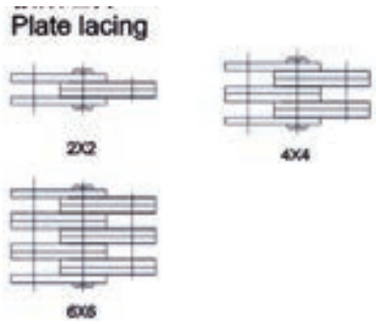
Catena Fleyer – Fleyer Chain



ISO Catena No. Chain No.	ANSI Catena No. Chain No.	Passo Pitch	Compos. Catena Chain lacing	Altezza Piastra Plate depth	Spessore Piastra Plate thick ness	Diam. Perno Pin diameter	Lungh. Perno Pin Length	Carico di Rottura Massino Ultimate tensile strength	Carico di Rottura Medio Average tensile strength	Peso la mt. Weight per meter
		P		h2 max	T max	d2 max	L max	Q min	Q0	q
		mm		mm	mm	mm	mm	KN	KN	kg/m
LH2422	BL1222	38.1	2×2	36.2	5.77	12.71	29.62	151.2	192.1	4.6
LH2423	BL1223		2×3				35.43	151.2	192.0	5.8
LH2434	BL1234		3×4				47.07	244.6	308.3	8.1
LH2444	BL1244		4×4				52.88	302.5	381.1	9.3
LH2446	BL1246		4×6				64.52	302.5	381.1	11.6
LH2466	BL1266		6×6				76.15	453.7	543.7	13.9
LH2488	BL1288		8×8				99.42	605.0	726.0	18.6
LH2822	BL1422	44.45	2×2	42.24	6.55	14.29	33.55	191.3	225.7	6.1
LH2823	BL1423		2×3				40.16	191.3	225.9	7.6
LH2834	BL1434		3×4				53.37	315.8	372.6	10.6
LH2844	BL1444		4×4				59.97	382.6	451.3	12.2
LH2846	BL1446		4×6				73.18	382.6	451.2	15.2
LH2866	BL1466		6×6				86.39	578.3	682.4	18.2
LH2888	BL1488		8×8				112.8	765.1	902.9	24.3
LH3222	BL1622	50.8	2×2	48.26	7.52	17.46	39.01	289.1	341.1	8.0
LH3223	BL1623		2×3				46.58	289.1	341.3	10.0
LH3234	BL1634		3×4				61.72	440.4	519.6	14.0
LH3244	BL1644		4×4				69.29	578.3	680.5	16.0
LH3246	BL1646		4×6				84.43	578.3	680.4	20.0
LH3266	BL1666		6×6				99.57	857.4	100.9	24.0
LH3288	BL1688		8×8				129.84	1156.5	1364.6	32.0
LH4022	BL2022	63.5	2×2	60.33	9.91	23.81	51.74	433.7	511.9	15.8
LH4023	BL2023		2×3				61.70	433.7	511.7	19.8
LH4034	BL2034		3×4				81.61	649.4	766.3	27.7
LH4044	BL2044		4×4				91.57	867.4	1023.5	31.6
LH4046	BL2046		4×6				111.48	867.4	1023.7	39.5
LH4066	BL2066		6×6				131.39	1301.1	1535.2	47.4
LH4088	BL2088		8×8				171.22	1734.8	2046.6	63

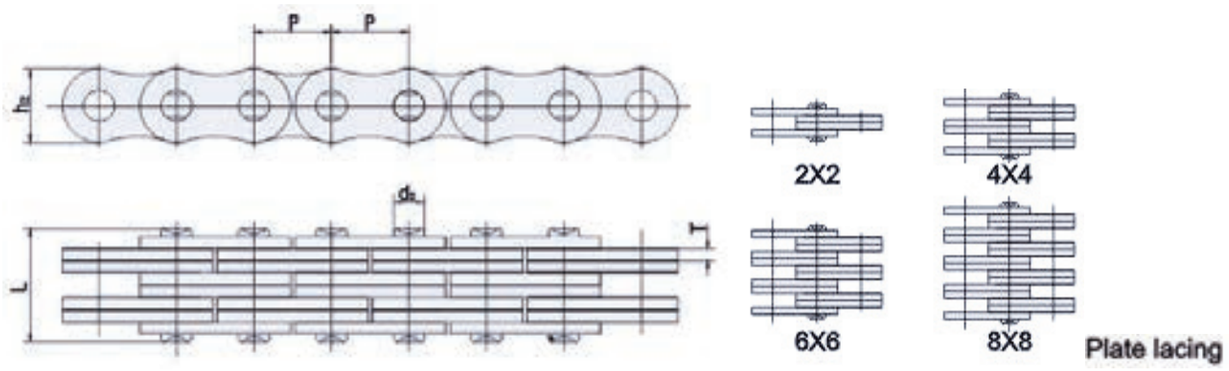
Catena Fleyer – Fleyer Chain





ANSI Catena No. Chain No.	Passo Pitch	Compos. Catena Chain lacing	Altezza Piastra Plate depth	Spessore Piastra Plate thick ness	Diam. Perno Pin diameter	Lungh. Perno Pin Length	Carico di Rottura Massino Ultimate tensile strength	Carico di Rottura Medio Average tensile strength	Peso la mt. Weight per meter
	P		h2 max	T max	d2 max	L max	Q min	Q0	q
	mm		mm	mm	mm	mm	KN	KN	kg/m
AL422	12.700	2X2	10.40	1.50	3.96	8.50	14.10	17.00	0.39
AL444		4X4				14.90	28.20	35.40	0.77
AL466		6X6				20.80	42.30	53.00	1.14
AL522	15.875	2X2	13.07	2.03	5.06	11.05	22.00	27.60	0.65
AL544		4X4				19.40	44.00	54.70	1.27
AL566		6X6				27.10	66.00	82.20	1.88
AL622	19.050	2X2	15.50	2.42	5.94	13.00	37.00	44.70	0.94
AL644		4X4				22.70	63.70	77.00	1.85
AL666		6X6				32.10	100.00	121.60	2.75
AL822	25.400	2X2	20.50	3.25	7.92	16.50	56.70	68.20	1.63
AL844		4X4				29.40	113.40	135.30	3.23
AL866		6X6				44.20	170.00	202.90	4.82
AL1022	31.750	2X2	26.00	4.00	9.53	20.30	88.50	107.60	2.53
AL1044		4X4				36.70	177.00	204.20	4.96
AL1066		6X6				52.60	265.00	315.90	7.39
AL1222	38.100	2X2	31.00	4.60	11.10	25.40	127.00	151.60	3.60
AL1244		4X4				45.20	254.00	300.20	7.05
AL1266		6X6				65.00	381.00	428.70	10.55
AL1422	44.450	2X2	36.50	5.60	12.70	28.60	151.23	182.37	5.07
AL1444		4X4				51.50	327.70	414.00	9.94
AL1466		6X6				74.60	559.00	620.50	14.82
AL1622	50.800	2X2	41.60	6.40	14.27	32.50	235.00	284.10	6.58
AL1644		4X4				58.00	471.00	523.60	12.93
AL1666		6X6				84.40	706.00	784.90	19.36

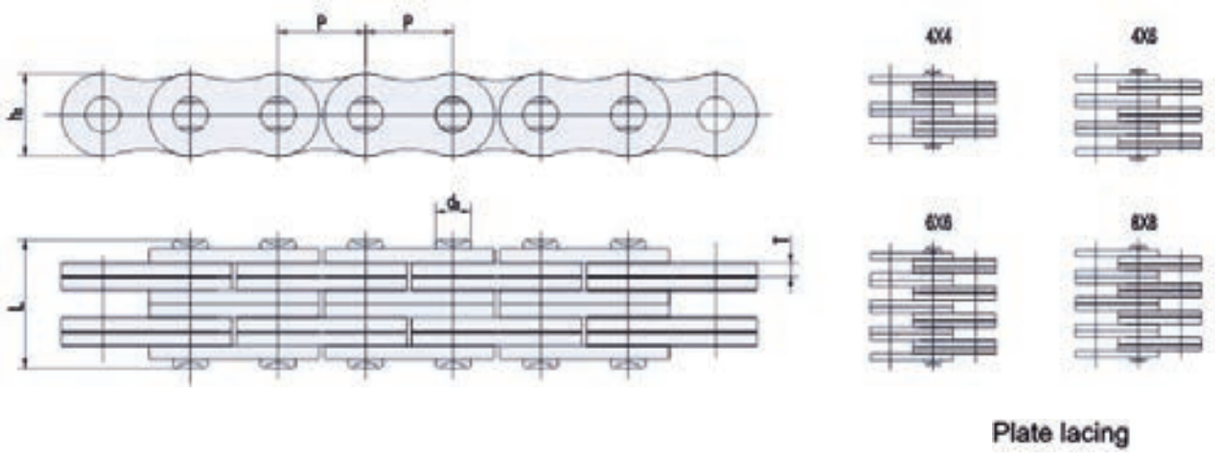
Catena Fleyer – Fleyer Chain



ISO Catena No. Chain No.	Passo Pitch	Compos. Catena Chain lacing	Altezza Piastra Plate depth	Spessore Piastra Plate thick ness	Diam. Perno Pin diameter	Lungh. Perno Pin Length	Carico di Rottura Massino Ultimate tensile strength	Carico di Rottura Medio Average tensile strength	Peso la mt. Weight per meter
	P		h2 max	T max	d2 max	L max	Q min	Q0	q
	mm		mm	mm	mm	mm	KN	KN	kg/m
LL0822	12.700	2X2	10.90	1.55	4.45	8.90	18.00	20.70	0.43
LL0844		4X4				15.60	36.00	36.30	0.83
LL0866		6X6				22.00	54.00	51.60	1.23
LL0888		8X8				28.50	72.00	80.00	1.64
LL1022	15.875	2X2	13.60	1.65	5.08	9.40	22.00	25.80	0.57
LL1044		4X4				16.20	44.00	52.90	1.10
LL1066		6X6				22.90	66.00	76.30	1.64
LL1088		8X8				28.80	88.00	101.90	2.17
LL1222	19.050	2X2	16.00	1.90	5.72	10.00	29.00	33.80	0.76
LL1244		4X4				17.40	58.00	66.80	1.50
LL1266		6X6				25.10	97.00	100.20	2.23
LL1288		8X8				32.90	118.00	132.90	2.97
LL1622	25.400	2X2	21.00	3.10	8.28	17.00	60.00	66.10	1.64
LL1644		4X4				29.40	120.00	129.80	3.20
LL1666		6X6				42.40	180.00	197.80	4.77
LL1688		8X8				54.90	240.00	278.00	6.35
LL2022	31.750	2X2	26.00	3.50	10.19	18.70	95.00	108.90	2.44
LL2044		4X4				33.20	190.00	219.00	4.79
LL2066		6X6				47.80	285.00	325.00	7.14
LL2088		8X8				64.00	380.00	435.10	9.52

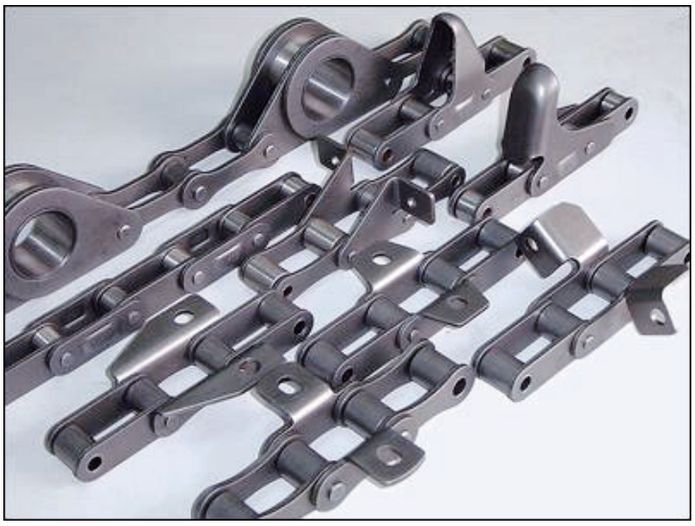
ISO Catena No. Chain No.	Passo Pitch	Compos. Catena Chain lacing	Altezza Piastra Plate depth	Spessore Piastra Plate thick ness	Diam. Perno Pin diameter	Lungh. Perno Pin Length	Carico di Rottura Massino Ultimate tensile strength	Carico di Rottura Medio Average tensile strength	Peso la mt. Weight per meter
	P		h2 max	T max	d2 max	L max	Q min	Q0	q
	mm		mm	mm	mm	mm	KN	KN	kg/m
LL2422	38.100	2X2	33.00	5.20	14.63	25.40	170.00	194.70	4.31
LL2444		4X4				45.50	340.00	380.20	8.45
LL2466		6X6				65.80	510.00	569.80	12.57
LL2488		8X8				86.60	680.00	775.20	16.58
LL2822	44.450	2X2	36.70	6.45	15.90	32.20	200.00	224.70	5.10
LL2844		4X4				56.40	400.00	448.30	9.90
LL2866		6X6				80.30	600.00	672.50	14.60
LL2888		8X8				105.20	800.00	896.00	19.40
LL3222	50.800	2X2	41.90	6.45	17.81	33.40	260.00	291.30	6.77
LL3244		4X4				59.20	520.00	582.90	13.25
LL3266		6X6				85.00	780.00	874.00	19.73
LL3288		8X8				112.20	1040.00	1176.00	26.26

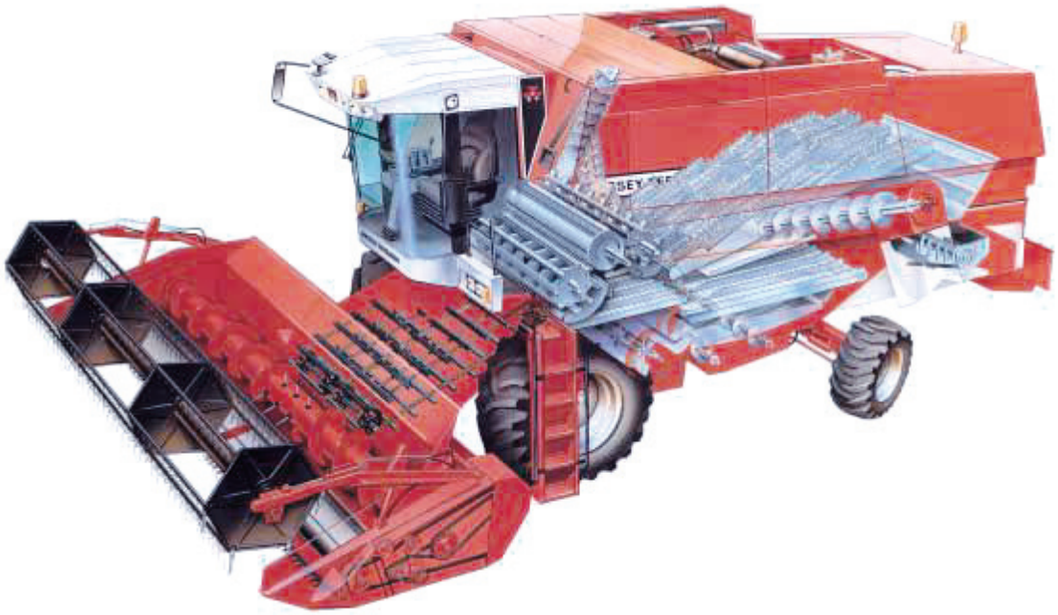
Catena Fleyer – Fleyer Chain



Catena No. Chain No.	Passo Pitch	Compos. Catena Chain lacing	Altezza Piastra Plate depth	Spessore Piastra Plate thick ness	Diam. Perno Pin diameter	Lungh. Perno Pin Length	Carico di Rottura Massino Ultimate tensile strength	Carico di Rottura Medio Average tensile strength	Peso la mt. Weight per meter
	P		h2 max	T max	d2 max	L max	Q min	Q0	q
	mm		mm	mm	mm	mm	KN	KN	kg/m
BL1268	38.10	6X6	35.70	5.60	12.70	79.30	453.70	543.60	15.10
BL1644		4X4				65.60	573.80	680.40	17.80
BL1646	50.80	4X6	48.26	7.20	17.46	80.00	578.30	680.40	22.20
BL1666		6X6				95.50	857.40	1000.70	26.60
BL2088Y1	63.50	8X8	58.20	9.70	23.80	169.50	1734.80	2000.00	41.80
LL3244Y1	50.80	4X4	43.10	6.00	17.76	54.00	520.00	600.00	12.60
LL3288Y2	50.80	8X8	42.00	6.40	17.81	110.50	1040.00	1200.00	25.90
LL4066	63.50	6X6	52.70	8.00	22.89	106.50	1080.00	1245.00	30.00
LL4088	63.50	8X8	52.70	8.00	22.89	140.00	1400.00	1610.00	41.30

Catena Agricola – Agricultural Chain





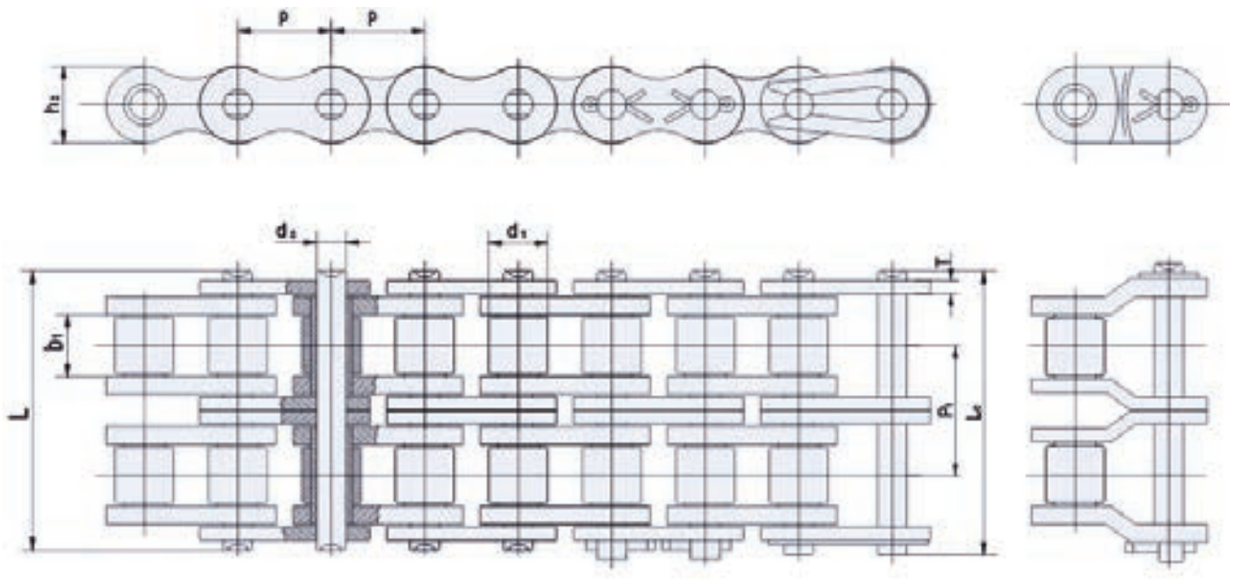
INTRODUZIONE

Le catene **KSF** dedicate alle applicazioni in campo agricolo, adoperate per la raccolta ed il trasporto, sono progettate per ottenere le massime prestazioni in impieghi con lubrificazione limitata o totalmente assente ed in presenza di polveri abrasive, unite a dinamiche di carico estremamente variabili con picchi molto elevati di potenza assorbita.
L'utilizzo delle macchine agricole a tutte le latitudini e la tipica concentrazione della loro attività in tempi definiti e compressi, nei quali ogni fermata imprevista costituisce un costo insostenibile, implica che le catene destinate a questo settore debbono essere fabbricate secondo elevati standard qualitativi, tali da garantire la completa affidabilità del prodotto nelle condizioni di impiego prescritte.
Abbiamo sviluppato, la più ampia gamma di catene con perni speciali e di catene con anelli di tenuta (serie O-Ring).
L'efficacia di queste soluzioni innovative è nota da più stagioni ai maggiori costruttori mondiali di mietitrebbiatrici e barre da mais.
L'impiego di queste tecnologie , per l'effettivo aumento della vita utile delle catene e per l'assenza di interventi di manutenzione, ammessa nel caso di catene O-Ring, è in costante aumento nel settore agricolo.

INTRODUCTION

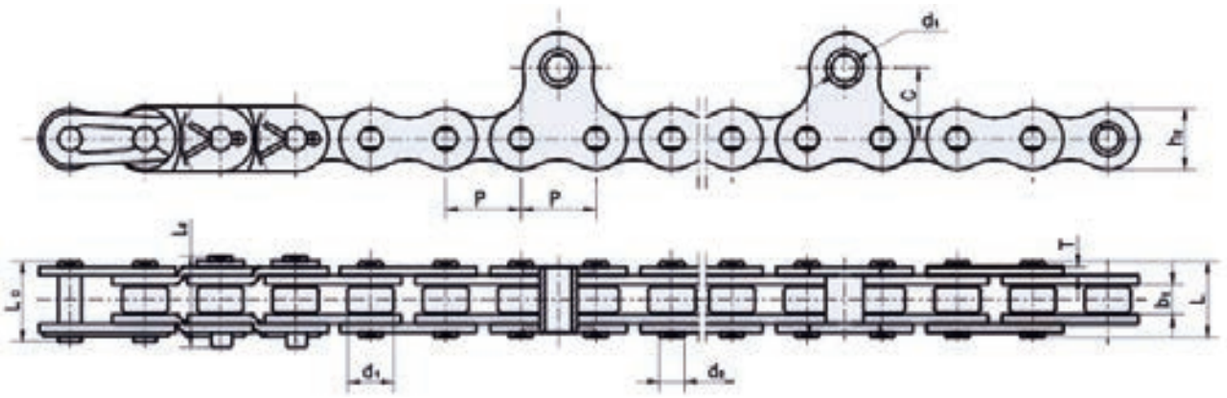
KSF agricultural chains, used for harvesting and conveying, have been designed to work in the toughest conditions: unfrequent lubrication or even absence of lubrication, dusty environments, uneven and high shock loads.
Agricultural machinery are used in very different ambient and terrain conditions throughout the world.
Furthermore they are utilized very intensively in relatively short periods of time which imply that unexpected stoppages cause unsustainable costs.
Thus **KSF** manufactures only high quality and highly dependable agricultural chains.
We have developed innovative technical solutions that are applied also to agricultural applications.
Special pins chains and self-lubricating chains with O-Ring (O-Ring chain series, which is by all purposes a maintenance-free chain) have been used since many harvesting seasons by the leading manufacturers of combine harvesters and corn-picker units, with the greatest success.

Catena Agricola – Agricultural Chain



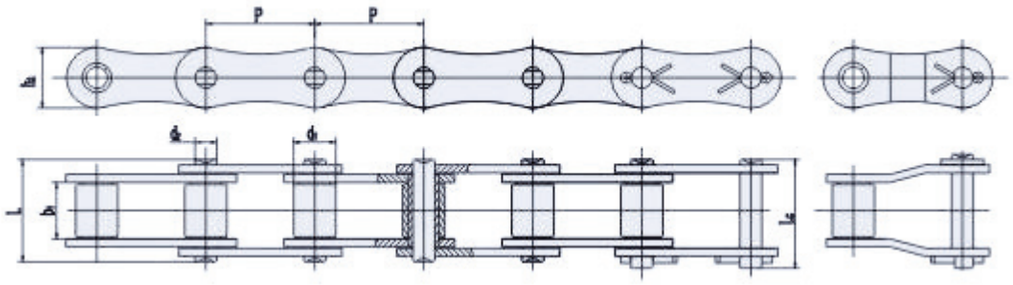
DIN ISO	Passo Pitch	Diam. Rullo Roller diameter	Largh.fra le Piastre Interne Width Between inner plates	Diam. Perno Pin Diameter	Lungh.Perno Pin Length		Altezza Piastra Inner plate depth	Spessore Piastra Plate thicknees	Interasse Passo Transverse Pitch	Carico di Rottura Massimo Ultimate tensile strength	Carico di Rottura Medio Average tensile strength	Peso al mt Weight per meter
	P	d1 max	b1 min	d2 max	L max	Lc max	h2 max	T	Pt	Q min	Qo	q
	mm	mm	mm	mm	mm	mm	mm	mm	mm	KN	KN	kg/m
08B-2	12.70	8.51	7.75	4.45	31.00	32.10	11.80	1.60	13.92	32.00	37.40	1.34
12A-2	19.05	11.91	12.57	5.94	48.80	50.30	18.00	2.42	22.78	63.60	83.20	2.92
12AH-2	19.05	11.91	12.57	5.94	55.30	57.10	18.00	3.25	26.11	63.60	84.50	3.71
16A-2	25.40	15.88	15.75	7.92	61.90	64.20	24.00	3.25	29.29	113.40	140.00	5.15

Catena Agricola – Agricultural Chain



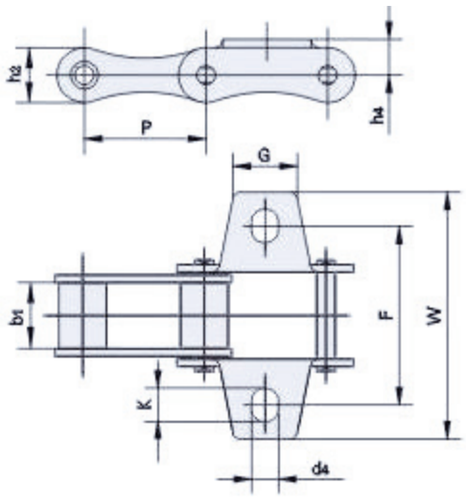
Catena No. Chain No.	Passo Pitch	Diam. Rullo Roller diameter		Largh.fra le Piastre Interne Width between inner plate	Diam. Perno Pin diameter	Lungh. Perno Pin Length		Lungh. Perno Pin Length	Altezza Piastra Inner Plate depth	Spessore Piastra Plate Thick.	Dim. Attacco Attach. Dimension	Dim. Attacco Attach. Dimension	Carico di Rottura Massimo Ultimate Tensile strength
	P	d1 max	d 1 max	b1 min	d 2 max	L max	Lo max	L4 max	h 2 max	T	d 2 max	C	Q min
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	KN
415Y1	12.70	7.77	7.77	4.90	3.64	11.0	12.1	12.95	9.5	1.1	4.02	12.00	6.86
415Y2	12.70	7.77	7.77	4.90	3.64	11.0	12.1	12.95	9.5	1.1	4.02	12.00	6.86
415Y3	12.70	7.77	7.77	4.90	3.64	11.0	12.1	12.95	9.5	1.1	4.02	12.00	6.86
415Y4	12.70	7.77	7.77	4.90	3.64	11.8			9.6	1.3	4.00	12.00	10.30
415Y5	12.70	7.77	7.77	4.90	3.64	11.8	13.0	14.44	9.6	1.3	4.00	12.00	10.30
415S	12.70	7.77	7.77	4.90	3.96	12.8	14.3	15.70	12.0	1.5	4.02	12.00	15.69
415FA	12.70	7.77	7.77	4.90	3.96	12.8	14.3	15.70	12.0	1.5	4.02	12.00	13.80
415SY1	12.70	7.77	7.77	4.90	3.96	13.0	14.5		10.4	1.5	4.50	12.00	13.93
415SY2	12.70	7.77	7.77	4.90	3.96	13.0	14.5		10.4	1.5	4.50	12.00	13.93
415SY3	12.70	7.77	7.77	4.90	3.96	12.8	14.3	15.70	12.0	1.5	4.02	12.00	15.69
415SY4	12.70	7.77	7.77	4.90	3.96	13.0	14.5	15.70	12.0	1.5	4.00	12.00	13.80
420Y1	12.70	7.77	7.77	4.90	3.96	14.7	16.1	18.50	12.0	1.5	4.00	12.00	16.00

Catena Agricola – Agricultural Chain



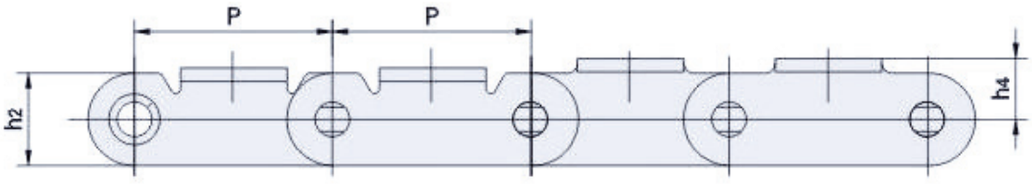
Catena No. Chain No.	Passo Pitch	Diam. Rullo Roller diameter	Largh.fra le Piastre Interne Width Between inner plates	Diam. Perno Pin diameter	Lungh.Perno Pin Length	Altezza Piastra Inner plate depth	Carico di Rottura Massimo Ultimate tensile strength
	P	d1 max	b1 min	d2 max	L max	h2 max	Q min
	mm	mm	mm	mm	mm	mm	KN
S32	29.21	11.43	15.86	4.45	26.7	13.40	20.00
S42	34.93	14.27	19.05	7.01	34.20	19.70	42.30
S45	41.40	15.24	22.23	5.74	36.90	17.20	32.90
S52	38.10	15.24	22.23	5.74	36.90	17.20	32.90
S55	41.40	17.78	22.23	5.74	36.90	17.20	32.90
S62	41.91	19.05	26.40	5.74	40.00	17.20	34.70
S77	58.34	18.26	22.23	8.92	43.30	25.80	56.10
S88	66.27	22.86	28.58	8.92	49.70	26.00	56.10
A550	41.40	16.70	19.81	7.16	34.50	19.05	47.50
A620	42.01	17.91	24.51	7.16	41.50	19.05	47.50

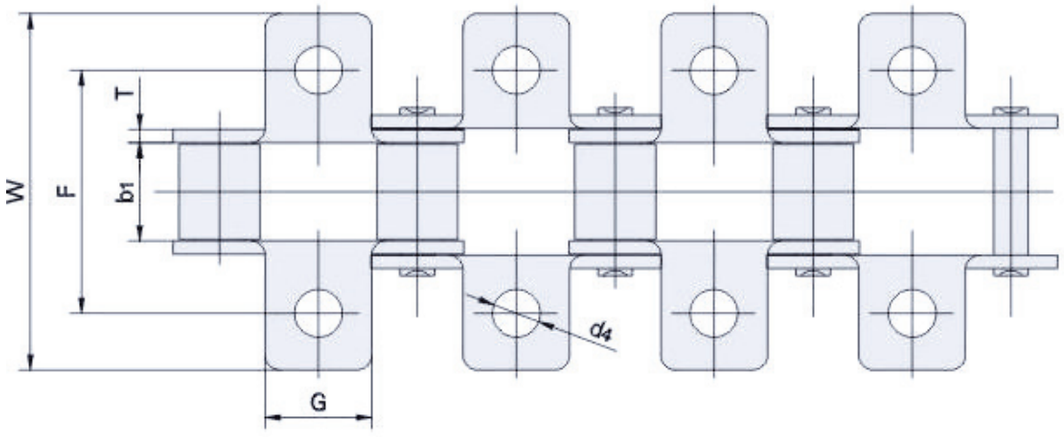
Catena Agricola – Agricultural Chain



Catena No. Chain No.	P	b 1	G	F	W	h 4	d 4	K
	mm	mm	mm	mm	mm	mm	mm	mm
S32K1	29.21	15.88	15.00	42.90	61.00	8.60	6.50	8.10
S42K1	34.93	19.05	12.50	54.00	74.80	14.00	8.30	11.50
S45K1	41.40	22.23	18.77	55.00	75.00	11.40	8.50	11.50
S45K1N1	41.40	22.23	18.77	54.00	74.00	11.70	8.50	11.50
S45nK1	41.40	22.23	18.77	50.80	74.00	11.40	7.30	7.30
S52nK1	38.10	22.23	17.00	58.80	77.20	11.40	8.50	10.00
S55K1	41.40	22.23	18.77	55.00	75.00	11.40	8.50	11.50
S62K1	41.91	25.40	22.00	66.80	95.40	11.40	6.50	13.00
S77K1	58.34	22.23	25.00	76.20	102.00	20.80	8.30	11.50
S88K1	66.27	28.58	22.00	97.00	119.40	20.80	8.30	9.90

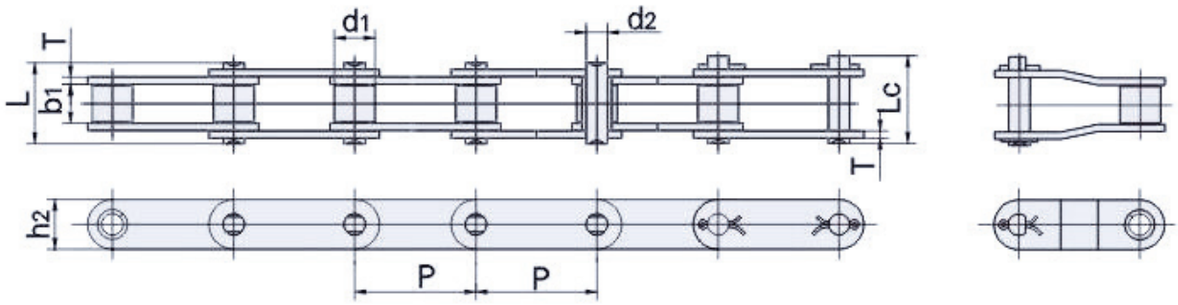
Catena Agricola – Agricultural Chain





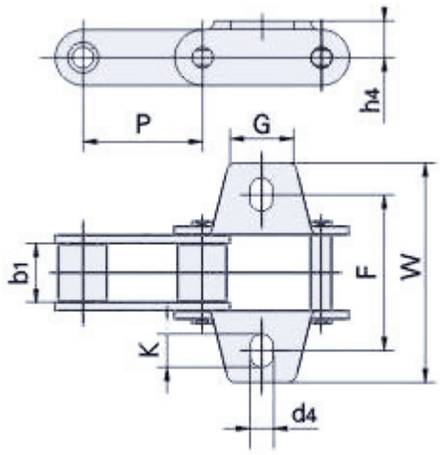
Catena No. Chain No.	P	b 1	G	F	W	h 2	h 4	T	d 4
	mm	mm	mm	mm	mm	mm	mm	mm	mm
CA550-K11	41.40	20.10	22.20	50.80	75.40	19.05	10.70	2.65	9.92
CA550-K12	41.40	20.10	22.20	50.80	75.40	19.05	10.70	2.65	6.75
CA550-K17	41.40	20.10	22.20	54.00	76.20	19.05	12.70	2.65	6.75
CA550-K20	41.40	20.10	22.20	50.80	76.20	19.05	12.70	2.65	6.75
CA620-K11	42.01	24.50	22.20	62.70	80.20	19.05	11.50	3.25	6.75
CA620-KIS	42.01	24.50	22.20	62.70	80.20	19.05	11.50	3.25	8.33

Catena Agricola – Agricultural Chain

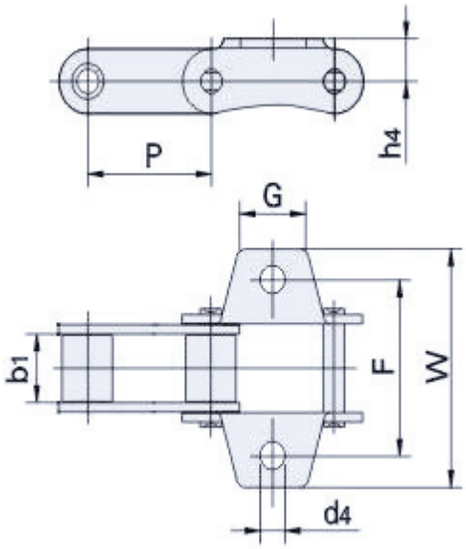


DIN ISO	Passo Pitch	Diam. Rullo Roller diameter	Largh.fra le Piastre Interne Width Between inner plates	Diam. Perno Pin Diameter	Lungh.Perno Pin Length		Dim. Piastra Plate Dimension	Dim. Piastra Plate Dimension	Carico di Rottura Massimo Ultimate tensile strength	Peso al mt Weight per meter
	P	d1 max	b1 min	d2 max	L max	Lc max	h2 max	T	Q min	q
	mm	mm	mm	mm	mm	mm	mm	mm	KN	kg/m
CA550	41.40	16.70	20.10	7.16	34.80	37.40	19.05	2.65	40.00	1.90
CA550/S55	41.40	17.78	21.60	7.16	36.70	39.30	19.05	2.65	40.00	2.09
CA555	41.40	16.70	12.70	7.16	29.70	32.40	19.05	2.65	50.00	1.83
CA550HD	41.40	16.70	19.50	8.28	35.80	38.50	20.10	3.05	42.10	2.05
CA550R	41.40	16.87	19.10	8.28	35.60	38.50	20.20	3.05	42.00	2.11
CA550V	41.40	17.78	22.23	8.28	39.00	42.00	20.20	3.05	42.10	2.37
CA550RV	41.40	16.87	19.61	8.28	39.00	42.00	20.20	3.50	50.00	2.39
CA557	41.40	17.78	2040	7.92	37.10	39.70	23.10	3.05	62.00	2.52
CA620	42.01	17.91	14.50	7.16	42.30	45.00	19.05	3.25	39.10	2.49
CA2801	30.00	15.88	19.05	8.28	35.60	38.50	19.05	3.25	47.10	2.50
38.1R	38.10	15.88	19.10	6.92	33.40	36.20	17.20	2.60	30.00	1.72
38.4R	38.40	15.88	19.05	6.92	33.40	36.20	17.20	2.50	33.00	1.69
38.4V	38.40	15.88	18.00	6.92	33.80	36.25	17.20	3.05	40.00	1.84
38.4VB	38.40	15.88	19.05	8.28	35.60	38.80	20.50	3.05	42.10	2.19

Catena Agricola – Agricultural Chain

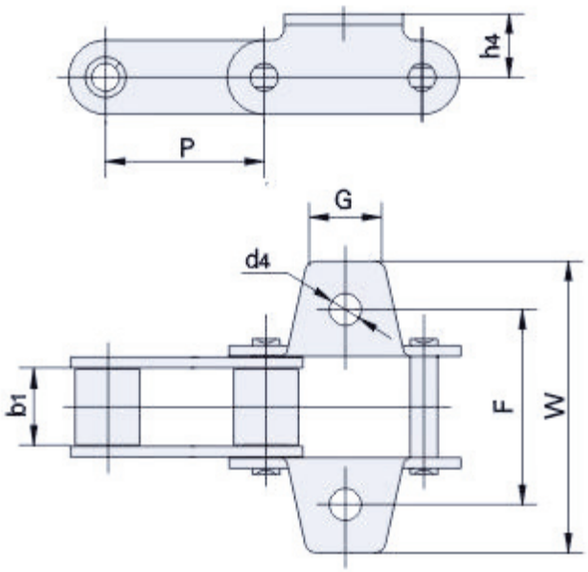


Catena No. Chain No.	P	b 1	G	F	W	h 4	d 4	K
	mm	mm	mm	mm	mm	mm	mm	mm
CA550-K11	41.4	20.10	18.00	52.30	76.20	12.70	8.50	10.20
CA550-K40	41.4	20.10	22.20	54.00	71.00	12.70	8.35	11.55
CA550-K1N1	41.4	19.50	24.00	52.30	72.20	15.00	8.50	11.35



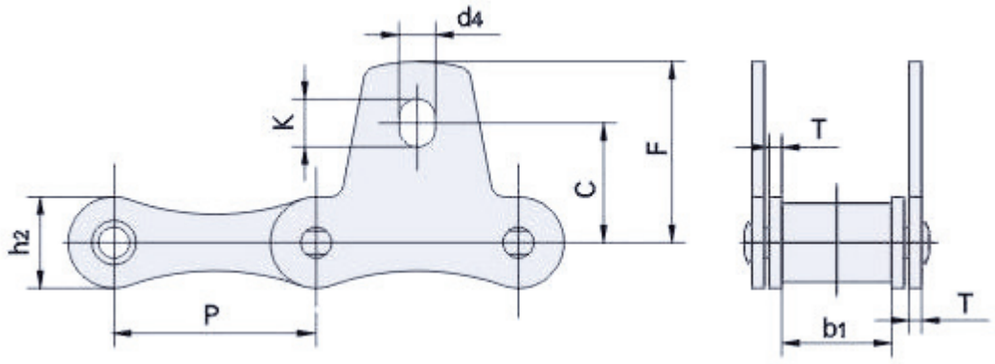
Catena No. Chain No.	P	b 1	G	F	W	h 4	d 4
	mm	mm	mm	mm	mm	mm	mm
CA557-K27S	41.40	20.40	24.60	57.15	79.35	14.30	13.10
CA557-AK4	41.40	20.40	26.20	50.80	69.40	16.50	8.35

Catena Agricola – Agricultural Chain

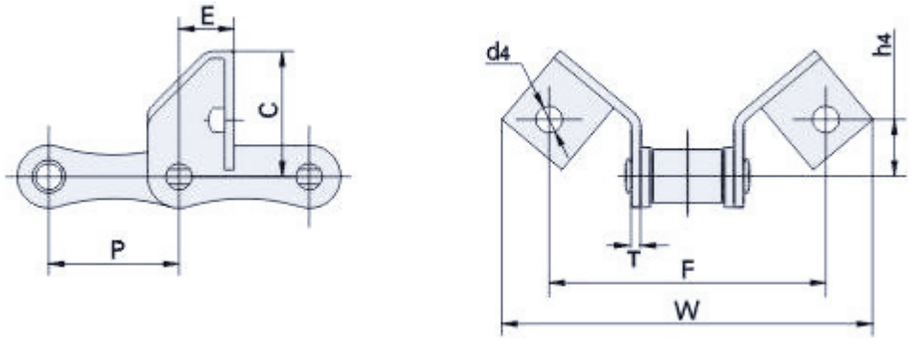


Catena No. Chain No.	P	b 1	G	F	W	h 4	d 4
	mm	mm	mm	mm	mm	mm	mm
38.1R-K1	38.10	19.10	18.00	56.50	78.00	17.00	8.50
38.4VB-220A	38.40	19.05	20.00	57.50	82.00	15.40	9.00
CA550-K19	41.40	20.10	22.20	50.80	71.40	12.70	6.75
CA550-K25	41.40	20.10	22.20	50.80	71.40	12.70	8.33
CA550-K1N1	41.40	20.10	22.20	54.00	71.00	12.70	10.00
CA550R-RAK1	41.40	19.05	20.80	50.80	76.60	15.00	8.50
CA550RV-K1	41.40	19.81	27.00	50.80	75.50	16.50	8.70
CA557-K1	41.40	20.40	18.00	50.80	72.20	15.90	8.70

Catena Agricola – Agricultural Chain

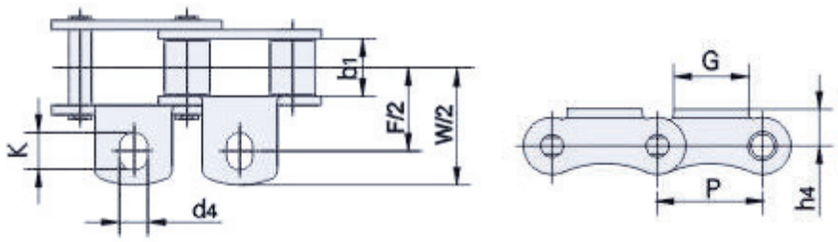


Catena No. Chain No.	P	b 1	h 2	T	C	F	d 4	K
	mm	mm	mm	mm	mm	mm	mm	mm
S32SK1	29.21	15.88	13.40	1.88	17.30	26.20	5.30	6.90
S42SK1	34.93	19.05	19.70	2.65	23.60	34.00	8.30	11.50
S45SK1	41.40	22.23	17.20	2.65	19.80	30.20	8.30	11.50
S52SK1	38.10	22.23	17.20	2.65	22.10	31.80	8.30	9.90
S55SK1	41.40	22.23	17.20	2.65	19.80	30.20	8.30	11.50
S62SK1	41.40	25.40	17.20	2.50	24.60	38.60	8.30	11.50
S77SK1	58.34	22.23	26.20	4.00	36.30	50.00	8.30	11.50
S88SK1	66.27	28.58	26.20	4.00	43.70	55.60	8.30	9.90

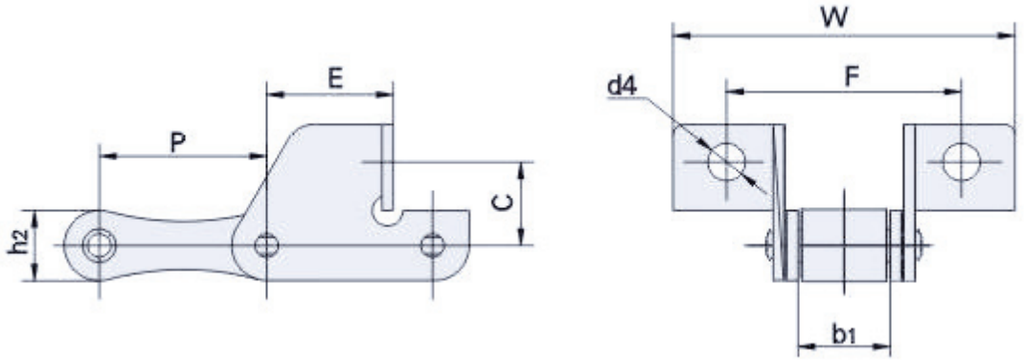


Catena No. Chain No.	P	T	C	F	W	h 4	d 4
	mm	mm	mm	mm	mm	mm	mm
S45-F14	41.40	2.65	28.00	62.00	86.00	15.00	8.50
55V-REB	41.40	3.05	41.00	88.00	118.00	18.00	8.50

Catena Agricola – Agricultural Chain

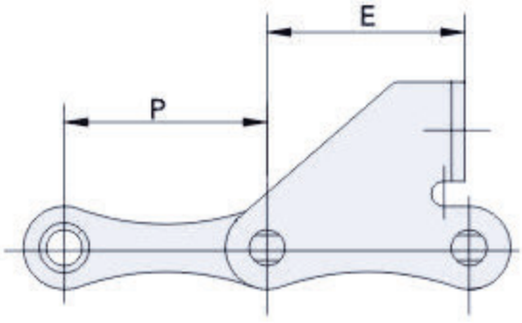


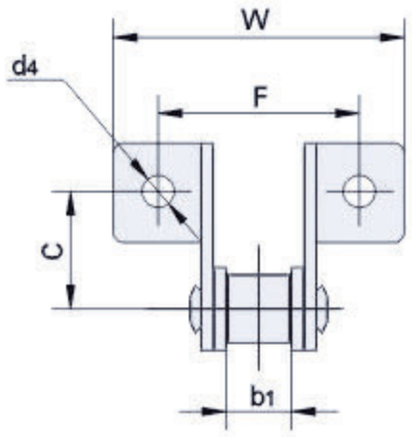
Catena No. Chain No.	P	b 1	G	F	W	h 4	d 4	K
	mm	mm	mm	mm	mm	mm	mm	mm
S55R-K1	41.40	22.23	25.00	63.60	90.40	15.50	8.60	12.00
S55RH-K1	41.40	22.23	25.00	63.60	90.40	15.50	8.60	12.00
S55RHF2-K1	41.40	22.23	24.00	65.00	89.00	15.50	8.60	11.70



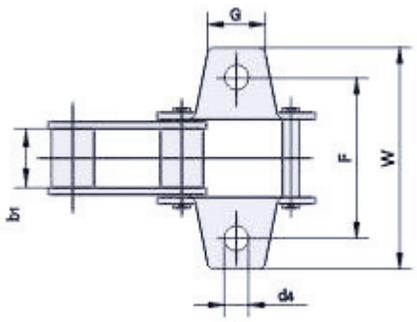
Catena No. Chain No.	P	b 1	C	E	F	W	d 4
	mm	mm	mm	mm	mm	mm	mm
S45-F1	41.40	22.23	19.00	31.90	62.00	89.20	6.5
S45-F1N2	41.40	22.23	19.00	31.90	62.00	89.20	8.0
S45-SDF2	41.40	22.23	17.50	31.90	62.00	89.20	8.5
S55-F1	41.40	22.23	19.00	31.90	62.00	89.20	6.5
S55-F1N2	41.40	22.23	19.00	31.90	62.00	89.20	6.8
55V-RF1	41.40	22.23	20.50	31.00	58.00	85.00	8.5

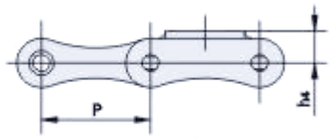
Catena Agricola – Agricultural Chain





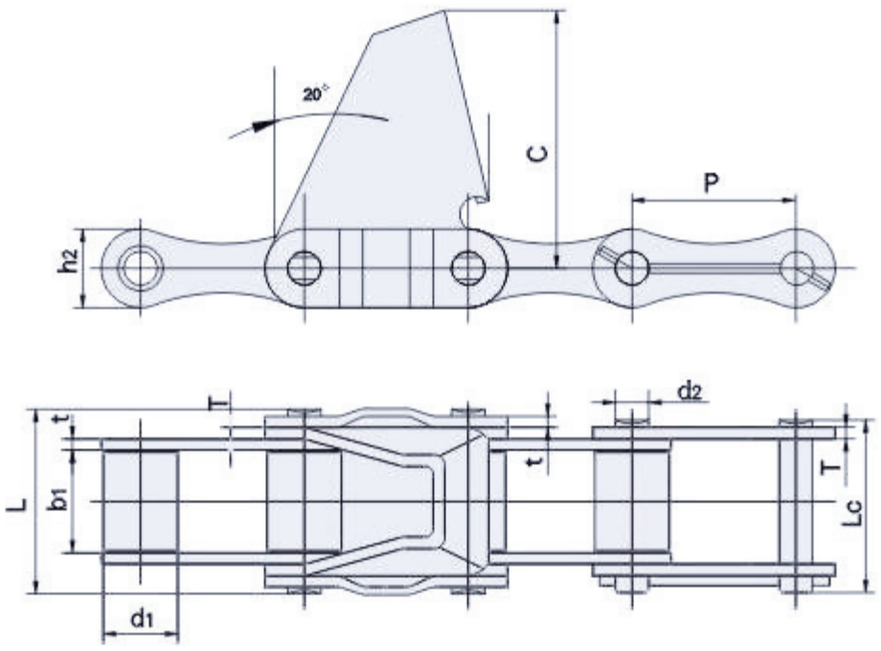
Catena No. Chain No.	P	b 1	C	E	F	W	d 4
	mm	mm	mm	mm	mm	mm	mm
S55-F1	38.10	16.00	20.00	22.90	55.00	71.00	6.4
S52-SD	38.10	22.23	20.00	19.00	52.00	82.00	6.4
S55-SD	41.40	22.23	20.50	33.20	62.00	85.60	6.6
S55-F4	41.40	22.23	20.00	37.00	58.00	87.00	6.6
S413-F4	41.40	21.40	25.00	25.00	60.00	79.00	8.4





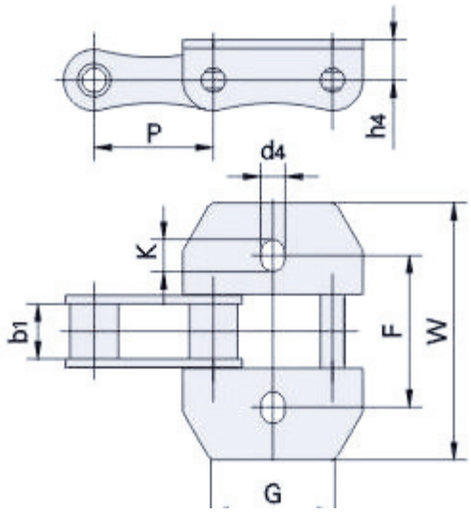
Catena No. Chain No.	P	b 1	G	F	W	h 4	d 4
	mm	mm	mm	mm	mm	mm	mm
S413-K1	41.30	21.40	22.00	70.50	91.30	20.80	8.40
P38-K1	38.00	22.00	18.00	82.00	75.00	20.50	10.50

Catena Agricola – Agricultural Chain

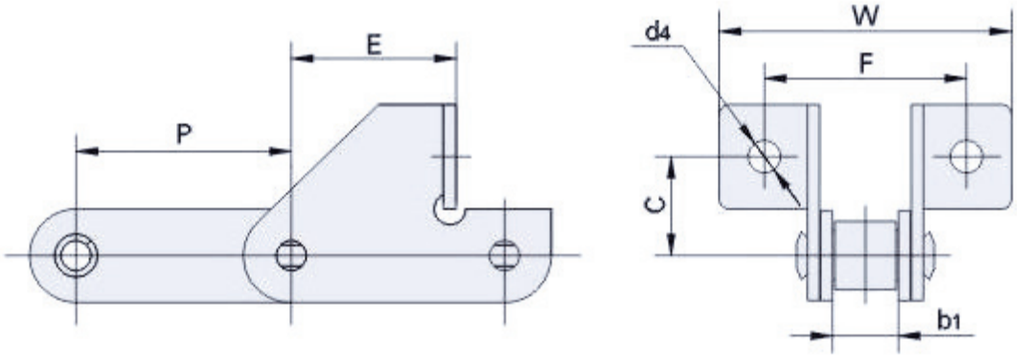


DIN ISO	Passo Pitch	Diam. Rullo Roller diameter	Largh.fra le Piastre Interne Width Between inner plates	Diam. Perno Pin Diameter	Lungh.Perno Pin Length		Dim. Piastra Plate Dimension	Dim. Piastra Plate Dimension	Dim. Piastra Plate Dimension	Carico di Rottura Massimo Ultimate tensile strength	Peso al mt Weight per meter
	P	d1 max	b1 min	d2 max	L max	Lc max	h2 max	T	C	Q min	q
	mm	mm	mm	mm	mm	mm	mm	mm	mm	KN	kg/m
S62T-CPE	41.91	19.05	25.40	7.92	42.00	44.70	20.00	3.05	67.00	47.10	3.38

Catena Agricola – Agricultural Chain

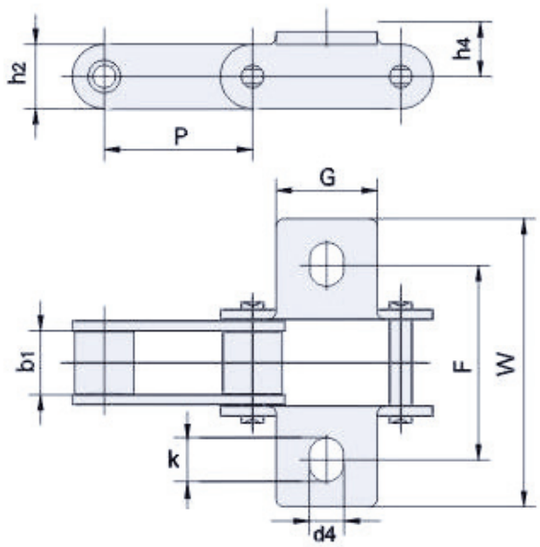


Catena No. Chain No.	P	b 1	G	F	W	h 4	d 4	K
	mm	mm	mm	mm	mm	mm	mm	mm
CA642-S103	41.40	19.00	40.00	53.00	89.60	14.00	8.50	11.25
CA643-S103	41.40	22.20	40.00	58.00	94.60	14.00	8.50	11.25

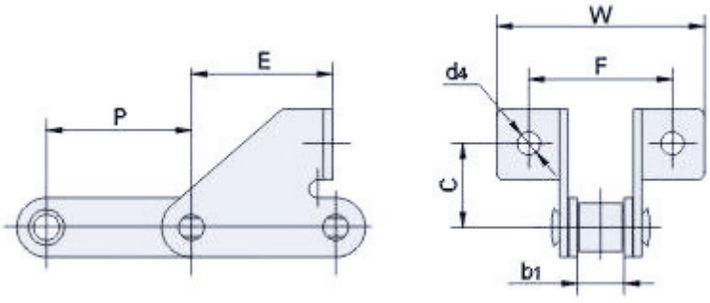


Catena No. Chain No.	P	b 1	E	F	W	C	d 4
	mm	mm	mm	mm	mm	mm	mm
CA550/S55-F1	41.40	21.60	31.90	60.50	86.00	20.50	8.8
CA550/S55-F1N1	41.40	21.60	31.90	60.50	86.00	20.50	8.3
CA550V-RF1	41.40	22.23	31.00	58.00	85.00	20.50	8.5
CA557-F1	41.40	20.24	35.00	58.00	85.00	20.50	8.5

Catena Agricola – Agricultural Chain

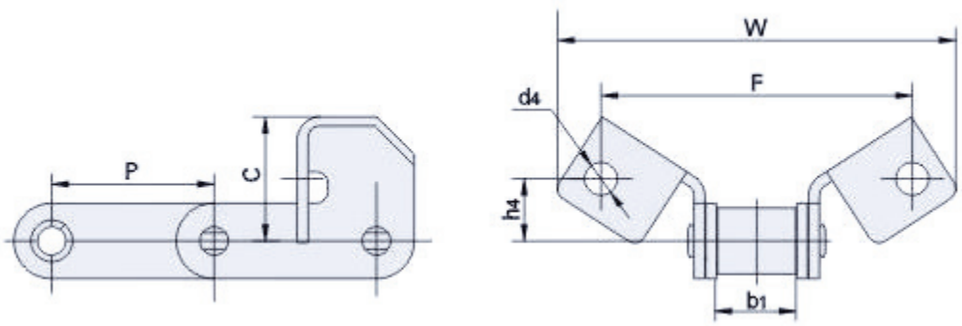


Catena No. Chain No.	P	b 1	G	F	W	h 4	d 4	K
	mm	mm	mm	mm	mm	mm	mm	mm
CA550HD-K1	41.40	19.50	36.00	50.40	71.00	12.70	8.50	11.30



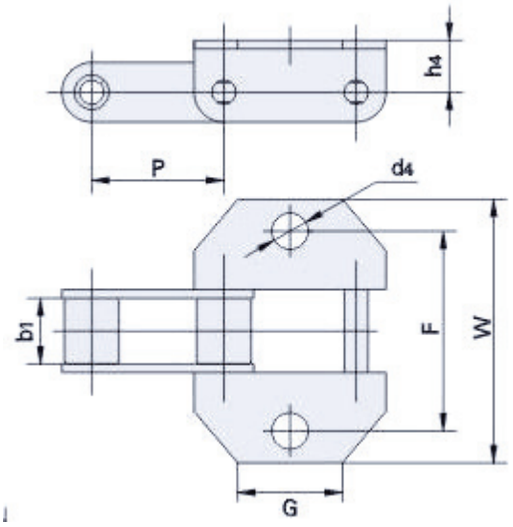
Catena No. Chain No.	P	b 1	E	F	W	C	d 4
	mm	mm	mm	mm	mm	mm	mm
38.4R-SD	38.40	19.05	38.40	52.00	71.00	25.40	8.40
38.4V-F14	38.40	18.00	38.40	52.00	71.00	24.00	8.40
38.4VB-F45	38.40	19.05	37.40	52.00	73.00	24.00	8.70
38.4VB-F45Y1	38.40	19.05	37.40	52.00	73.00	24.00	8.00
CA550-F1	41.40	20.10	27.40	58.00	82.40	20.50	6.70
CA550-SD	41.40	20.10	36.90	47.60	68.00	31.00	8.70

Catena Agricola – Agricultural Chain



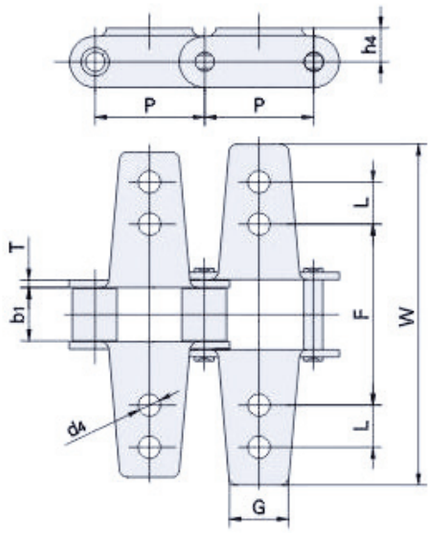
Catena No. Chain No.	P	T	C	F	W	h 4	d 4
	mm	mm	mm	mm	mm	mm	mm
CA550-F5	41.40	2.65	31.80	79.40	101.60	15.90	6.75
CA550-F17	41.40	3.00	41.5	114.00	141.50	20.50	10.20
CA550V-REB	41.40	3.05	31.75	79.20	107.00	15.80	10.20
CA550HD-F5	41.40	3.00	31.80	79.40	104.80	14.50	9.90
CA550HD-F5N1	41.40	3.00	31.80	79.40	104.80	14.50	8.50
CA550HD-F13	41.40	3.00	59.6	79.40	135.40	28.60	8.80
CA550HD-F17	41.40	3.00	41.60	114.10	147.80	16.00	9.90
CA550HD-F17Y1	41.40	3.00	41.60	114.10	147.80	20.00	9.90

Catena Agricola – Agricultural Chain

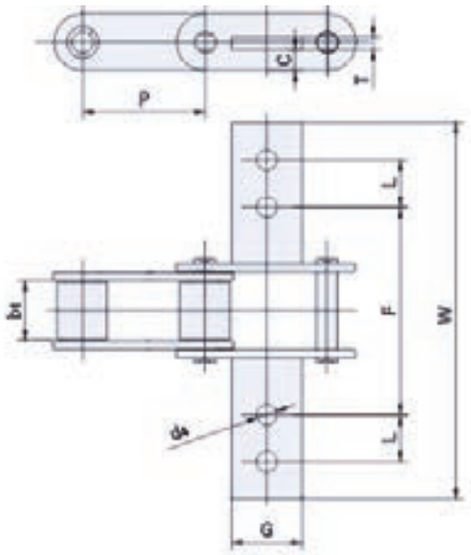


Catena No. Chain No.	P	b 1	C	F	W	h 4	d 4
	mm	mm	mm	mm	mm	mm	mm
38.4R-K1	38.4	19.05	39.50	57.00	81.60	15.75	8.50
38.4V-2200	38.40	18.00	28.80	57.00	75.00	15.10	10.50
38.4VB-K1	38.40	19.05	39.00	57.00	80.00	16.00	10.50
38.4VB-K1Y1	38.40	19.05	39.00	57.00	80.00	16.00	10.20
38.4VB-K1N1	38.40	19.05	32.00	57.00	87.00	14.00	8.50
CA550R-K1	41.40	19.10	27.00	54.00	81.60	12.70	8.50
CA550-K1F6	41.40	20.10	48.50	54.00	76.20	16.50	10.50

Catena Agricola – Agricultural Chain

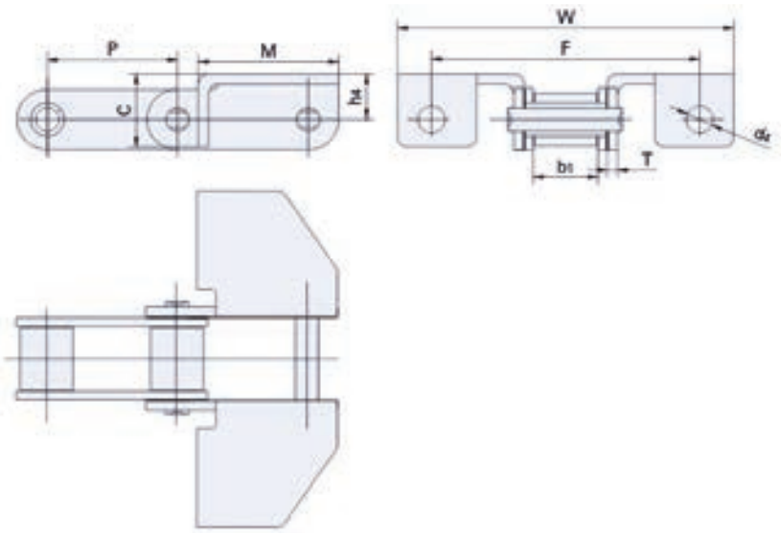


Catena No. Chain No.	P	b 1	L	G	F	W	h 4	T	d 4
	mm	mm	mm	mm	mm	mm	mm	mm	mm
CA550-K6	41.40	20.10	15.90	22.20	68.30	128.60	12.70	2.65	8.33
CA620-K12	42.01	24.50	15.90	22.20	69.90	130.20	23.80	3.25	6.75

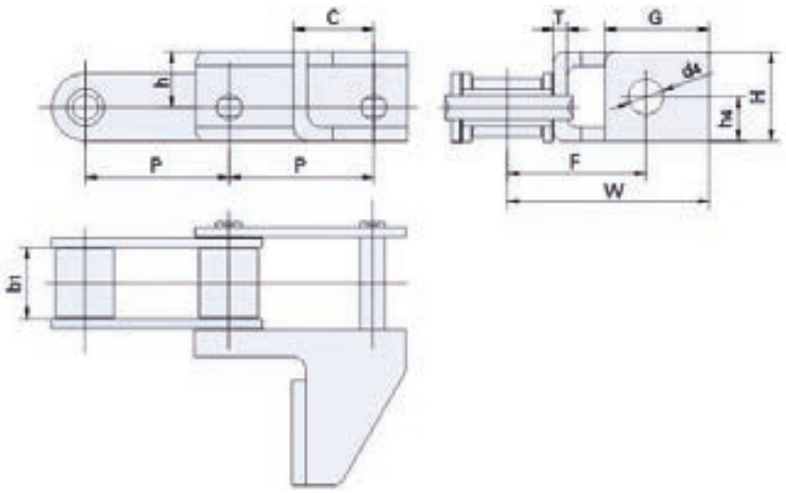


Catena No. Chain No.	P	b 1	G	L	F	W	T	C	d 4
	mm	mm	mm	mm	mm	mm	mm	mm	mm
CA550-K8	41.40	20.10	23.80	15.90	69.90	127.00	4.30	7.10	6.75
CA550-K9	41.40	20.10	23.80	15.90	69.90	127.00	4.30	7.90	6.75

Catena Agricola – Agricultural Chain

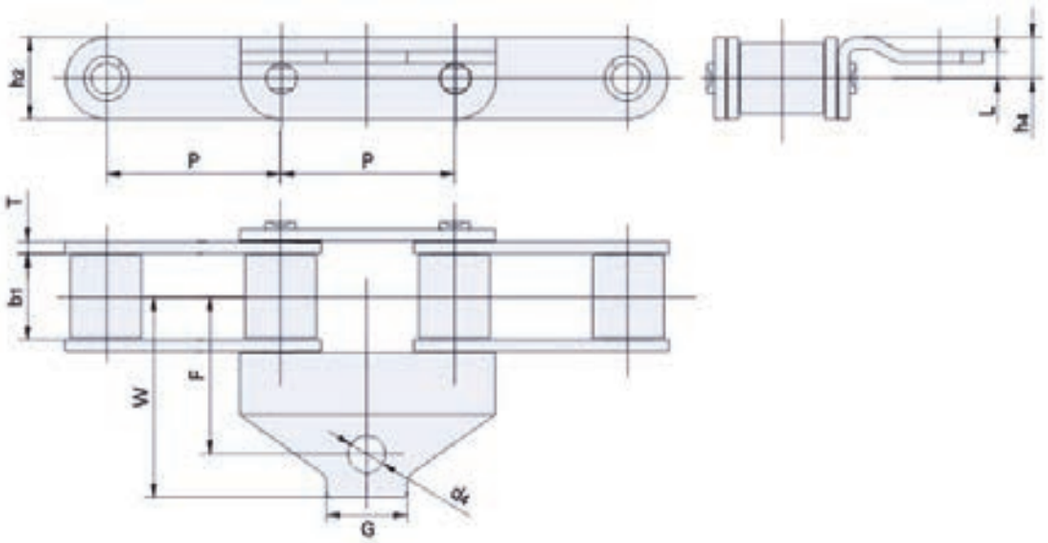


Catena No. Chain No.	P	b 1	M	C	F	W	T	h 4	d 4
	mm	mm	mm	mm	mm	mm	mm	mm	mm
CA550-F7A	41.40	20.10	44.50	23.30	84.90	106.40	3.25	14.30	8.33
CA550-G57	41.40	20.10	44.50	23.30		106.40	3.25	14.30	

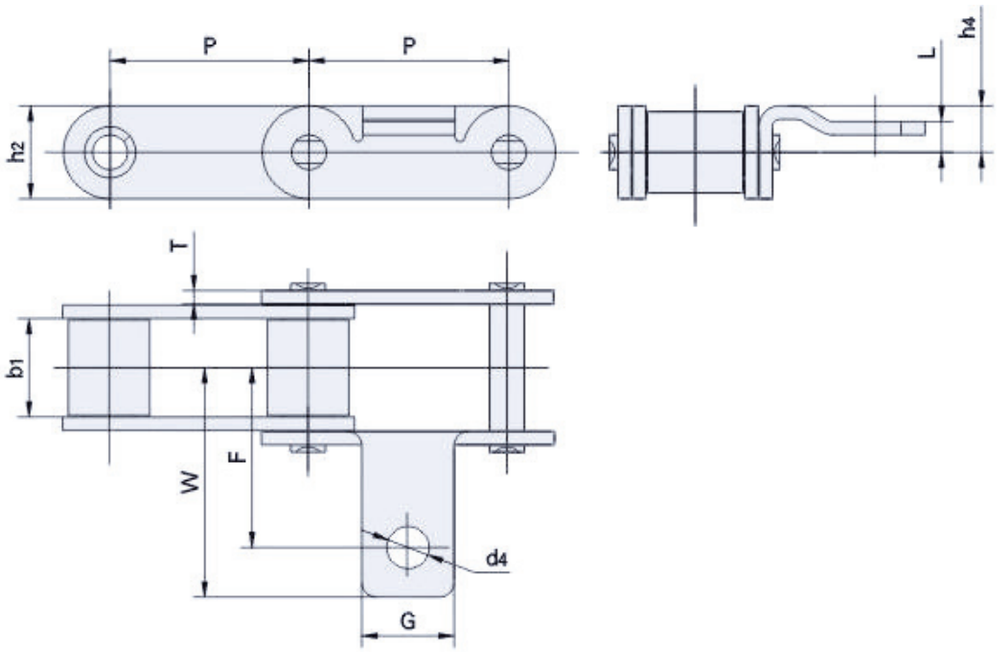


Catena No. Chain No.	P	b 1	C	h	H	G	h 4	F	W	F	W
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
CA550-G50	41.40	20.10	23.00	17.50	27.20	30.00	12.90	39.70	57.90	4.00	9.92
CA550-G50S	41.40	20.10	23.00	15.90	25.60	30.00	12.90	39.70	57.90	4.00	9.92

Catena Agricola – Agricultural Chain

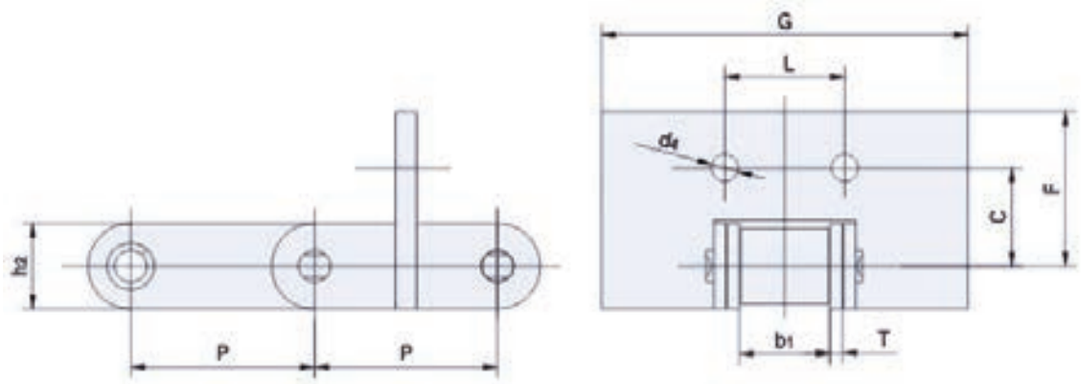


Catena No. Chain No.	P	b 1	G	F	W	h 2	L	h 4	T	d 4
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
CA550-AH	41.40	20.10	19.10	37.30	47.60	19.30	6.40	9.65	2.80	8.73

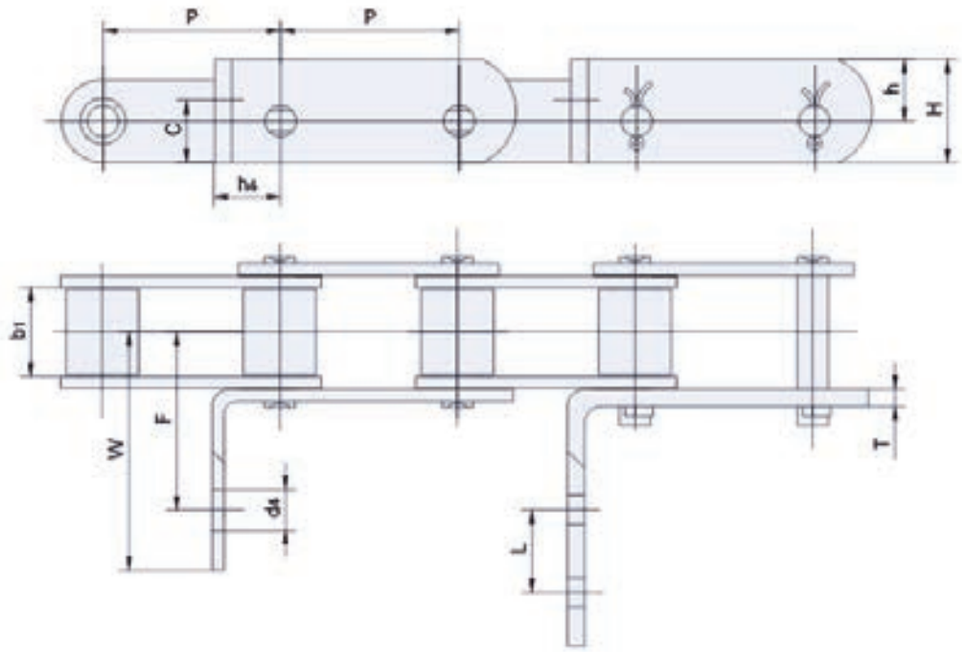


Catena No. Chain No.	P	b 1	G	F	W	h 2	L	h 4	T	d 4
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
CA550-AID	41.40	19.81	19.10	37.30	47.60	19.30	6.40	9.65	2.80	8.73

Catena Agricola – Agricultural Chain

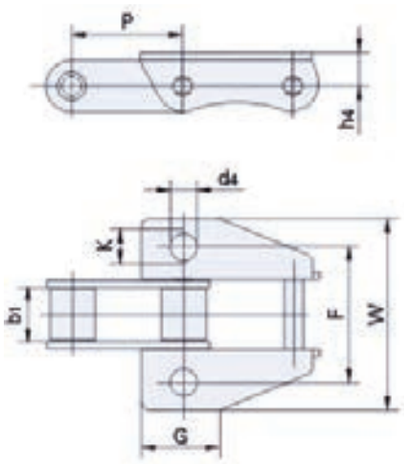


Catena No. Chain No.	P	b 1	C	F	L	G	h 2	T	d 4
	mm	mm	mm	mm	mm	mm	mm	mm	mm
CA550-F11	41.40	20.10	22.20	34.90	27.00	82.60	19.30	2.65	5.95

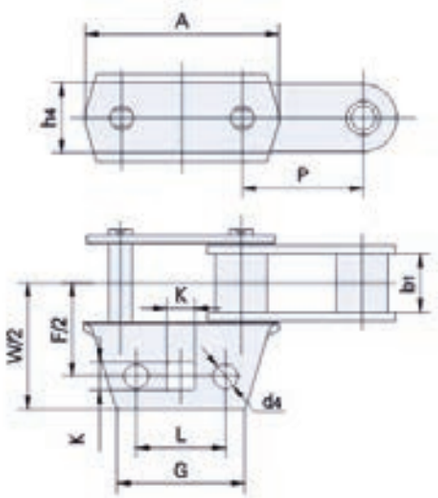


Catena No. Chain No.	P	b 1	C	h	H	h 4	F	L	W	T	d 4
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
CA550-GX	41.40	20.10	14.50	14.30	24.00	15.50	41.70	19.10	73.40	4.00	6.75
CA550-G27	41.40	20.10	14.50	14.30	24.00	15.90	41.70		55.20	2.65	8.33
CA550-G27S	41.40	20.10	14.50	14.30	24.00	15.90	41.70		55.20	3.25	8.33

Catena Agricola – Agricultural Chain

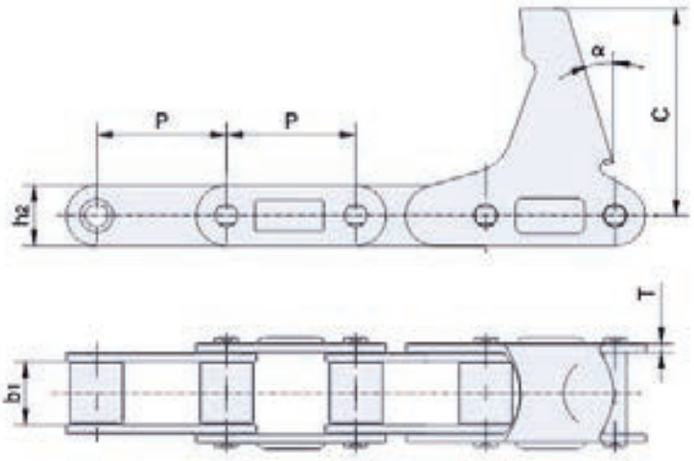


Catena No. Chain No.	P	b 1	G	F	W	h 4	d 4	K
	mm	mm	mm	mm	mm	mm	mm	mm
CA550-K39M	41.40	20.10	29.50	50.80	71.40	71.40	9.80	9.80
CA557-K39	41.40	20.40	22.70	57.20	77.80	77.80	10.50	10.50
CA557-K39N1	41.40	20.40	24.30	50.80	78.00	78.00	10.50	10.50
CA557-K39N2	41.40	20.40	24.30	57.40	78.00	78.00	10.50	10.50

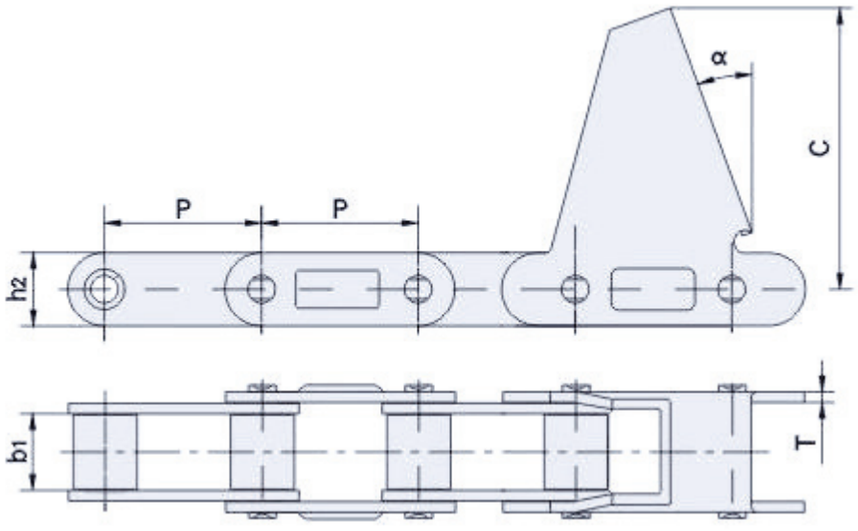


Catena No. Chain No.	P	b 1	A	L	G	F	W	h 4	d 4	K
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
CA557-U16	41.40	20.4	66.60	30.00	44.50	65.00	87.20	28.60	8.30	9.90

Catena Agricola – Agricultural Chain

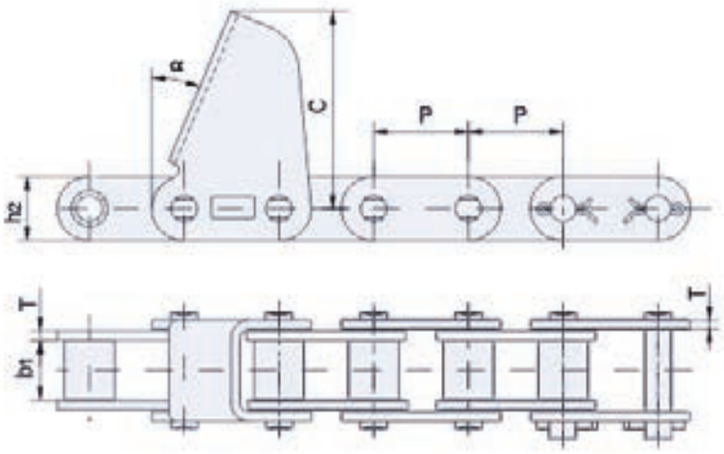


Catena No. Chain No.	P	b 1	h 2	T	C	a
	mm	mm	mm	mm	mm	mm
CA550-LV41	41.40	20.10	19.05	2.65	68.50	15°

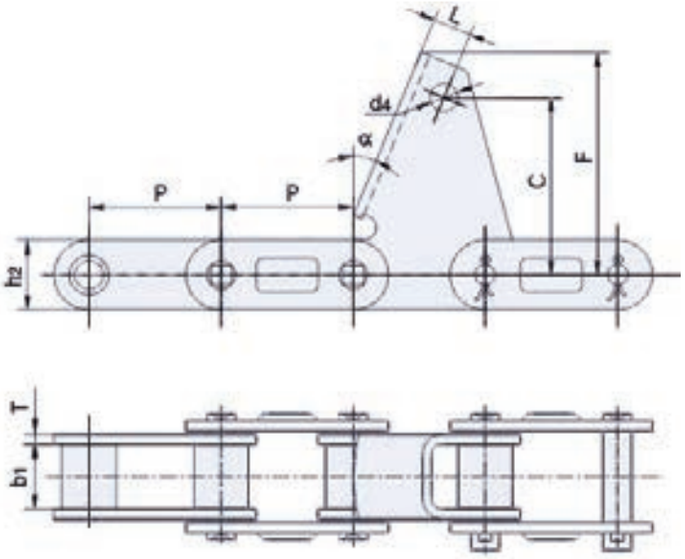


Catena No. Chain No.	P	b 1	h 2	T	C	a
	mm	mm	mm	mm	mm	mm
CA550-C117N1	41.40	20.10	19.05	2.65	63.00	15°

Catena Agricola – Agricultural Chain

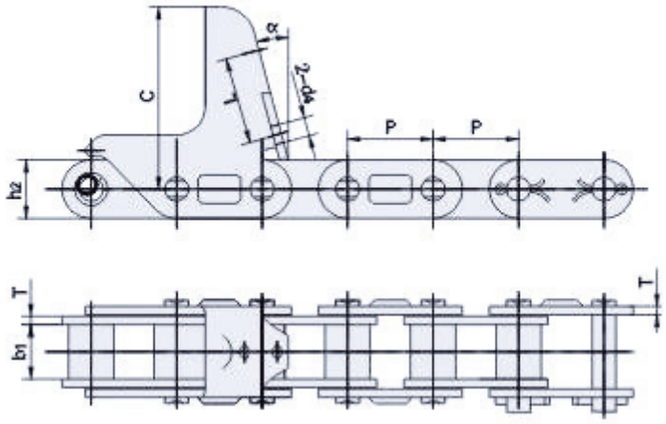


Catena No. Chain No.	P	b 1	h 2	T	C	a
	mm	mm	mm	mm	mm	mm
CA2061-TM91E	30.00	19.05	20.50	3.05	62.5	22.5°

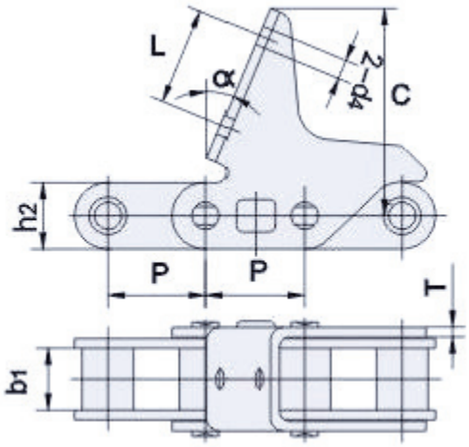


Catena No. Chain No.	P	b 1	h 2	L	d 4	T	C	F	a
	mm	mm	mm	mm	mm	mm	mm	mm	mm
38.4VB-TM92	38.40	19.05	20.5	15.00	8.00	3.05	48.00	64.50	20°

Catena Agricola – Agricultural Chain

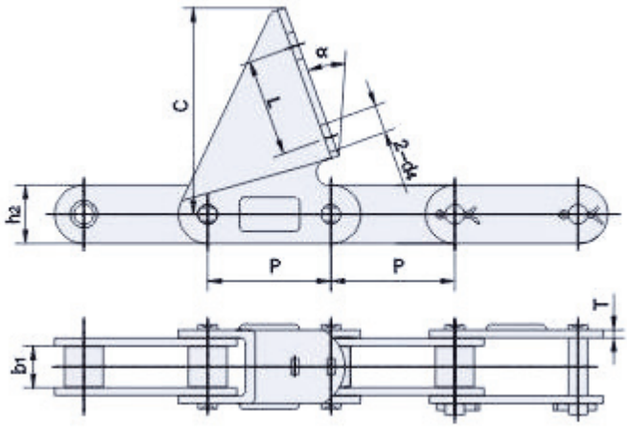


Catena No. Chain No.	P	b 1	h 2	L	d 4	T	C	a
	mm	mm	mm	mm	mm	mm	mm	mm
CA2801-M40Y1	30.00	19.05	20.50	30.00	6.20	3.05	63.00	22°

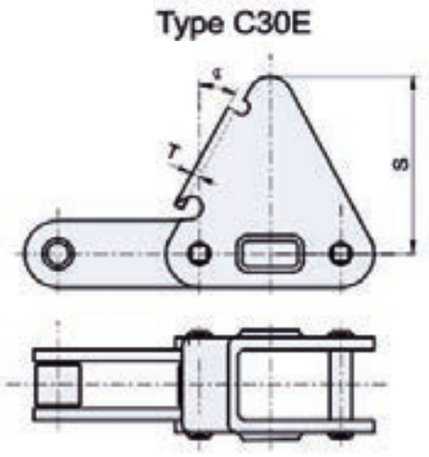


Catena No. Chain No.	P	b 1	h 2	L	d 4	T	C	a
	mm	mm	mm	mm	mm	mm	mm	mm
CA2801-R40Y1	30.00	19.05	20.50	30.00	6.00	3.05	64.00	22.5°

Catena Agricola – Agricultural Chain



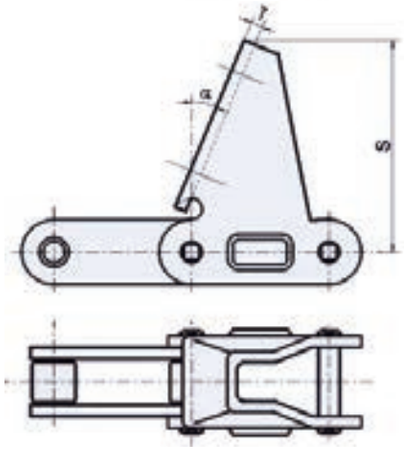
Catena No. Chain No.	P	b 1	h 2	L	d 4	T	C	a
	mm	mm	mm	mm	mm	mm	mm	mm
CA2801-TM91EN1	30.00	19.05	20.50	30.00	6.40	3.05	63.65	22.5°



Catena No. Chain No.	a	T	S	Type
	mm	mm	mm	
CA550	20°	2.62	50.80	C30E

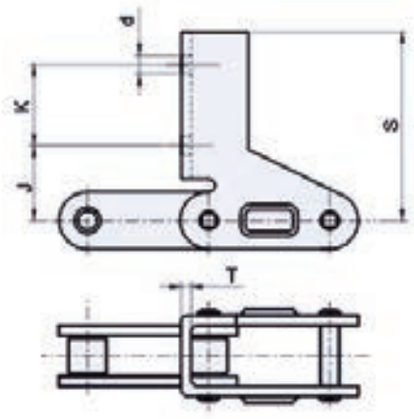
Catena Agricola – Agricultural Chain

Type CPE



Catena No. Chain No.	a	T	S	Type
	mm	mm	mm	
CA550	20°	2.62	63.50	CPE

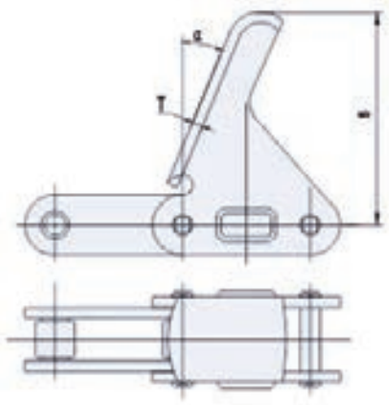
Type CPE



Catena No. Chain No.	K	J	d 4	T	T	Type
	mm	mm	mm	mm	mm	
C2060H	25.40	23.50	5.90	3.20	59.40	CPE

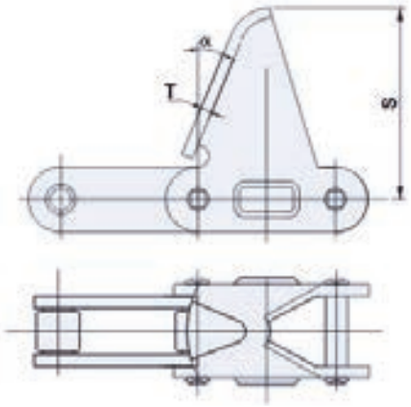
Catena Agricola – Agricultural Chain

Type C6E



Catena No. Chain No.	a	T	S	Type
	°	mm	mm	
C2060H	22.50°	3.20	63.50	C6E

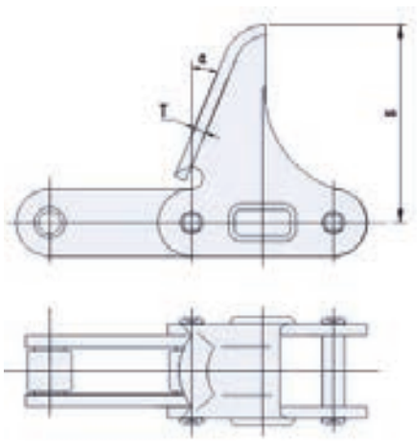
Type C6E



Catena No. Chain No.	a	T	S	Type
	°	mm	mm	
CA550	10°	2.62	55.60	C6E

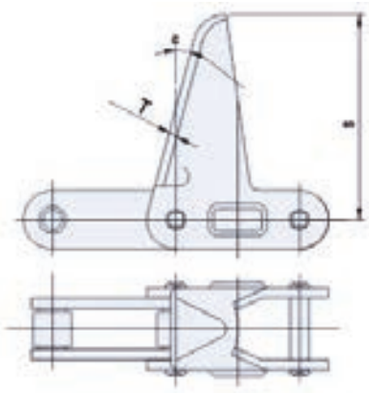
Catena Agricola – Agricultural Chain

Type C6E



Catena No. Chain No.	a	T	S	Type
	°	mm	mm	
CA555	15°	3.20	63.50	C6E

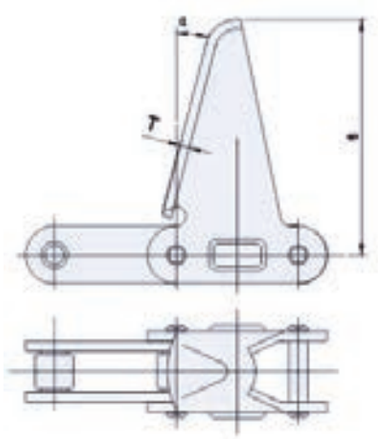
Type C11E



Catena No. Chain No.	a	T	S	Type
	°	mm	mm	
CA550	15°	2.62	63.50	C11E

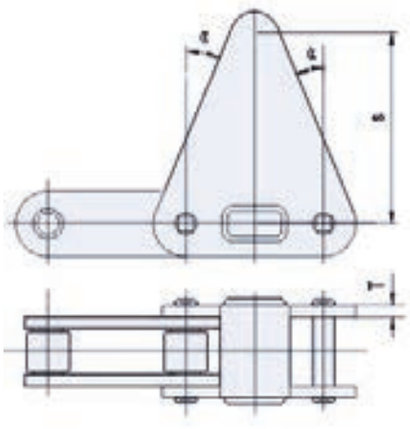
Catena Agricola – Agricultural Chain

Type C13E



Catena No. Chain No.	a	T	S	Type
	°	mm	mm	
C2060	15°	2.62	92.00	C13E
C2060H	15°	3.20	92.00	C13E
CA620T	20°	3.25	67.60	C13E

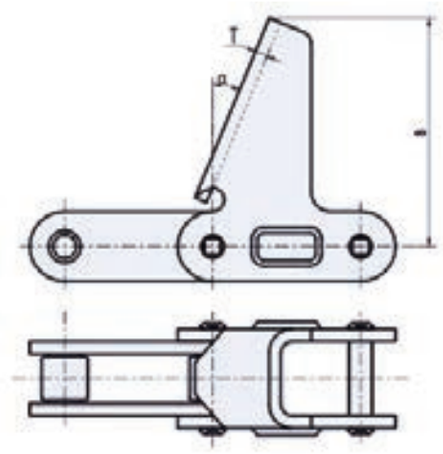
Type C30E



Catena No. Chain No.	a	T	S	Type
	°	mm	mm	
CA620	22.50°	3.20	58.70	C30E

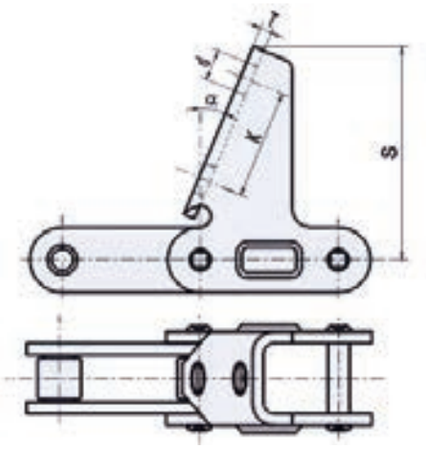
Catena Agricola – Agricultural Chain

Type ATT



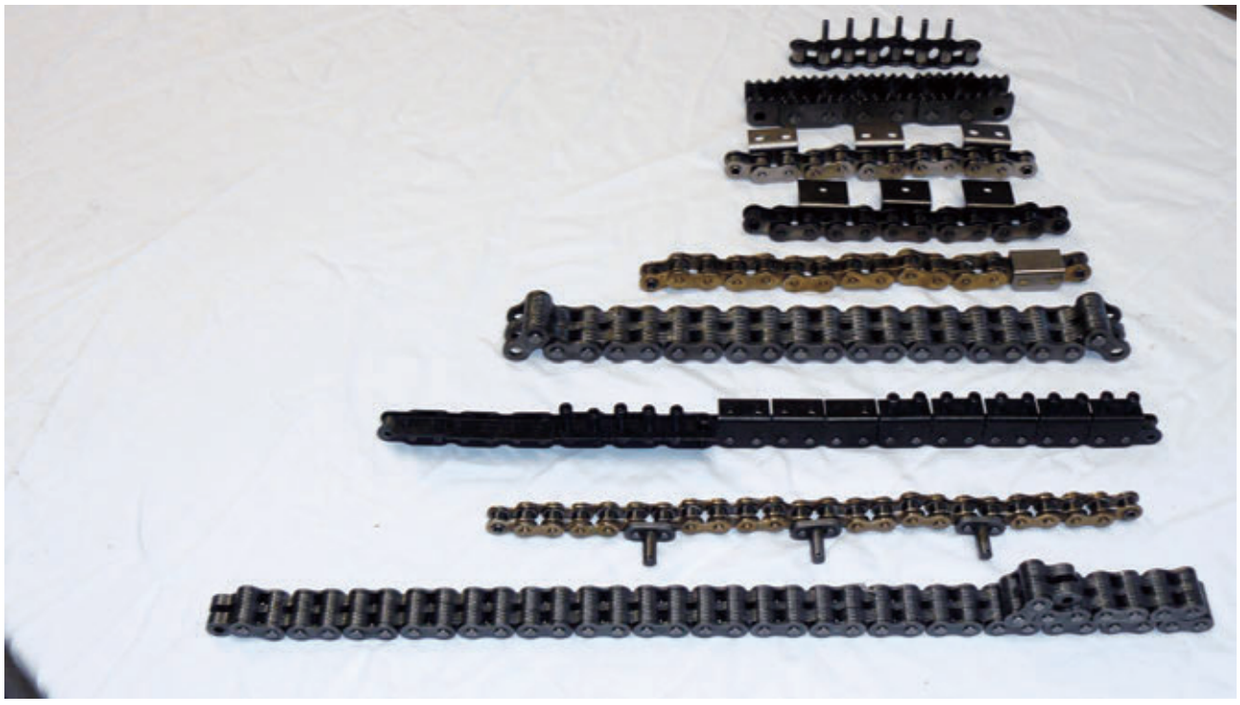
Catena No. Chain No.	a	T	S	Type
	°	mm	mm	
C2060H	22.50°	3.20	58.70	ATT

Type C5E

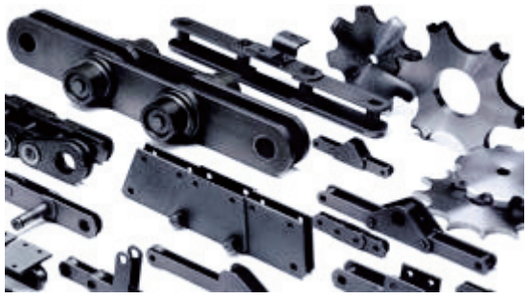


Catena No. Chain No.	a	T	S	d 4	K	Type
	°	mm	mm	mm	mm	
C2060H	22.50°	3.20	57.20	8.50	30.00	C5E

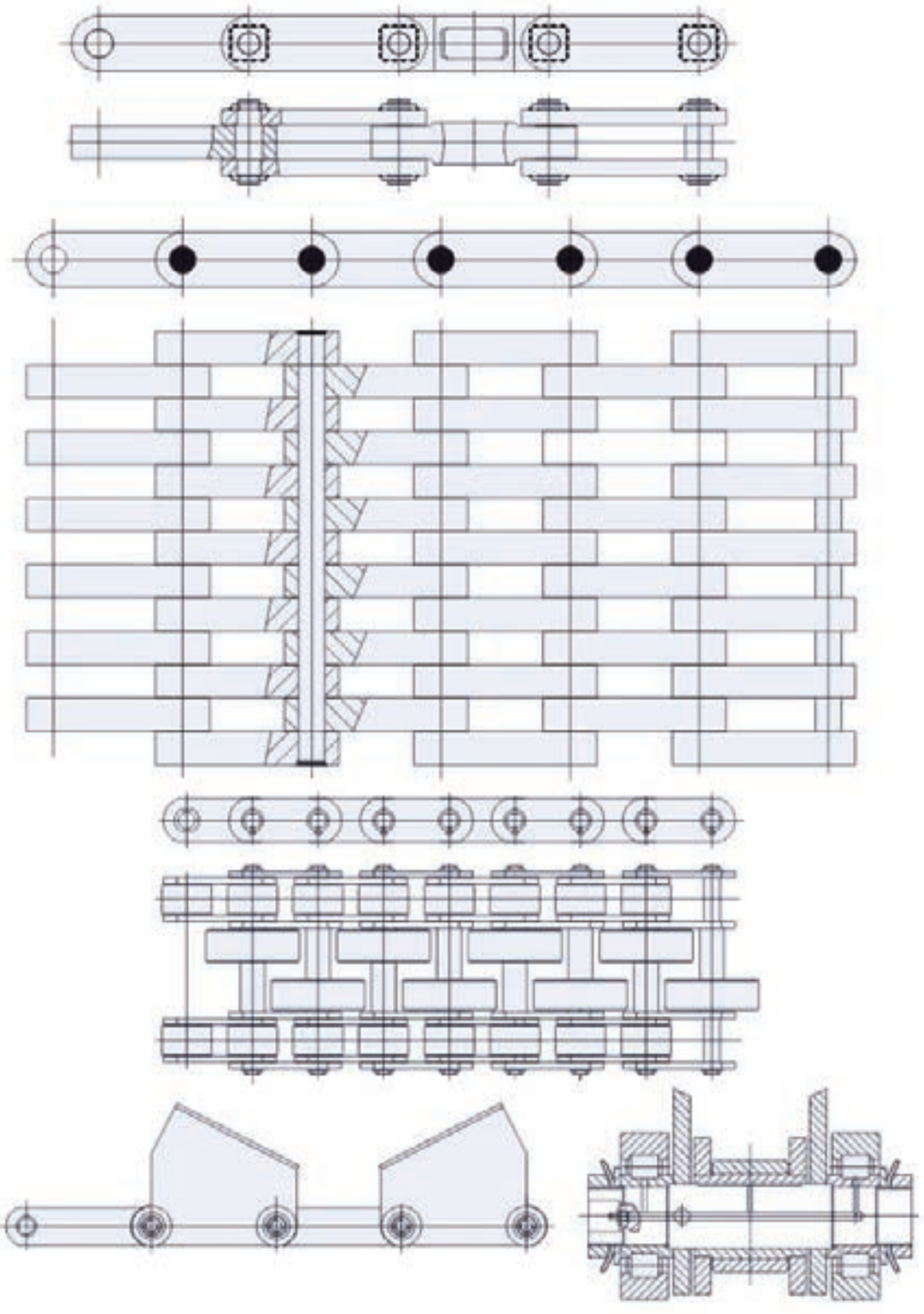

K.S.F.
DRIVE CHAIN
K.S.F.
DRIVE CHAIN
K.S.F.
DRIVE CHAIN



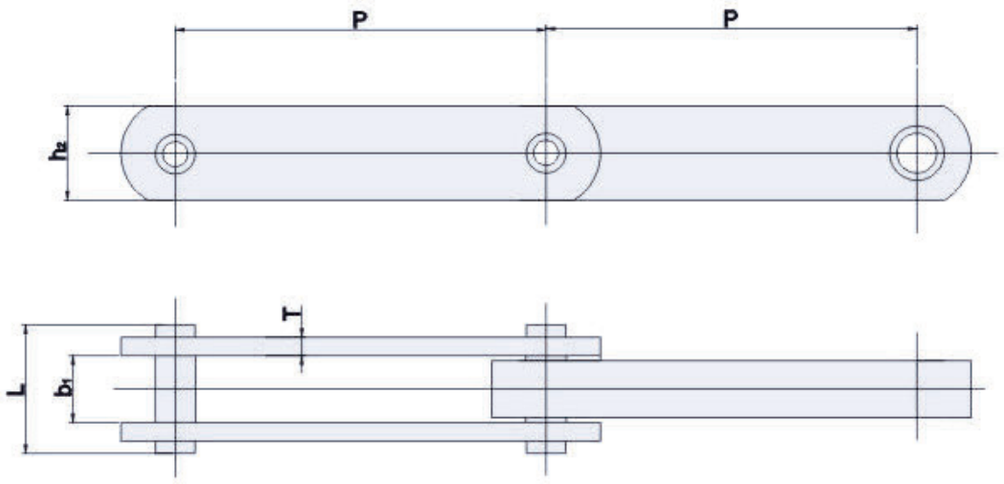
Catene Speciali – Special Chains



Catene Speciali – Special Chains

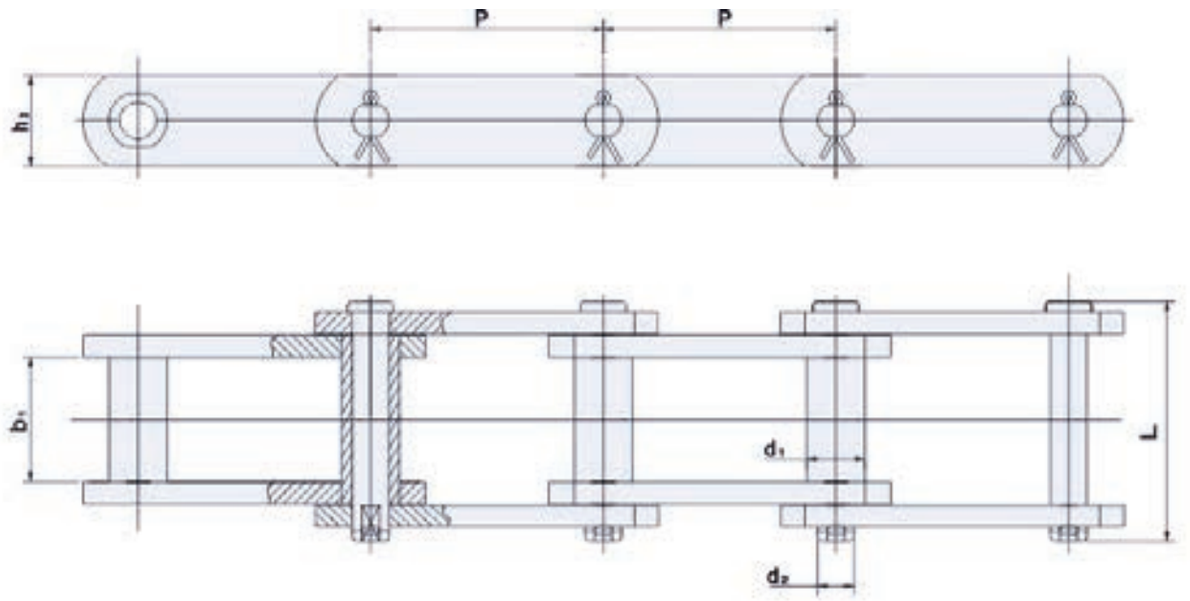


Catene Speciali – Special Chains



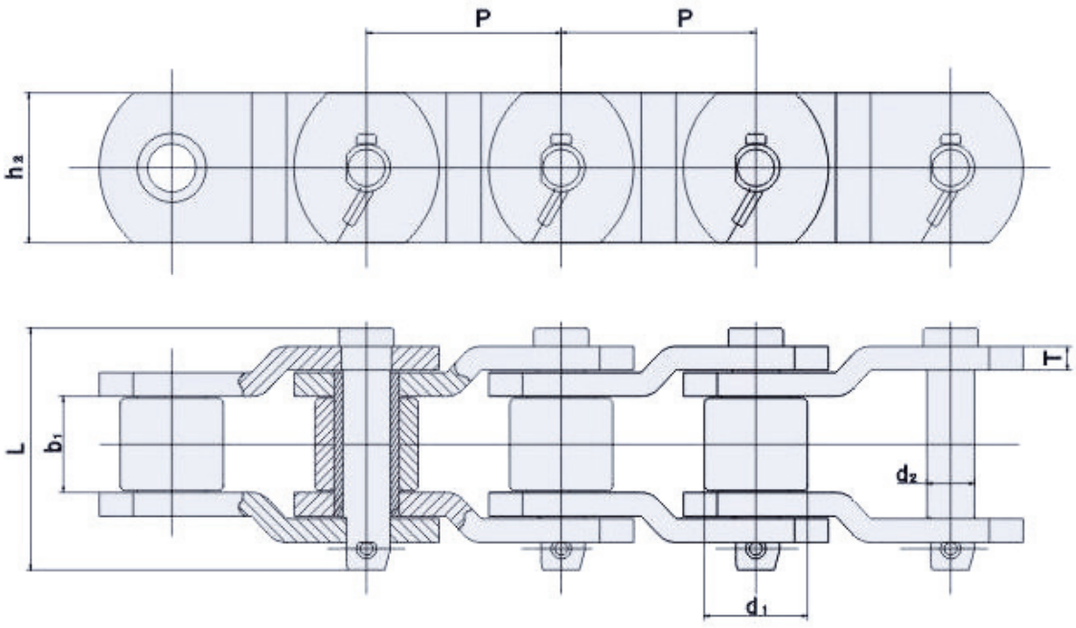
Catena No. Chain No	Passo Pitch	Largh.fra le Piastre Interne Width Between inner plates	Altezza Piastra Plate depth	Spessore Piastra Esterna Outer plate thickness	Lungh.Perno Pin Length	Carico di Rottura Medio Average tensile strength	Peso al mt Weight per meter
	P	b1	h 2	T	L	Q0	q
	mm	mm	mm	mm	mm	KN	kg/m
YLG3150	150	23.00	38.10	7.90	47.00	294.00	7.00
YLG3200	200	23.00	38.10	7.90	47.00	294.00	6.80
YLG4150	150	26.50	44.50	7.90	50.00	392.00	9.00
YLG4200	200	26.50	44.50	7.90	50.00	392.00	8.50
YLG5200	200	29.50	55.00	9.50	57.00	490.00	12.50
YLG5250	250	29.50	55.00	9.50	57.00	490.00	12.10
YLG6200	200	31.50	57.00	9.50	59.00	588.00	13.70
YLG6250	250	31.50	57.00	9.50	59.00	588.00	13.00
YLG6300	300	31.50	57.00	9.50	59.00	588.00	12.70
YLG7200	200	33.50	63.50	9.50	61.00	686.00	16.20
YLG7250	250	33.50	63.50	9.50	61.00	686.00	15.50
YLG7300	300	33.50	63.50	9.50	61.00	686.00	15.20
YLG9200	200	38.00	72.00	10.50	68.00	882.00	21.00
YLG9250	250	38.00	72.00	10.50	68.00	882.00	20.00
YLG9300	300	38.00	72.00	10.50	68.00	882.00	19.50
YLG11250	250	42.00	76.20	12.70	76.00	1078.00	25.00
YLG11300	300	42.00	76.20	12.70	76.00	1078.00	24.00
YLG14250	250	47.50	85.00	14.00	84.00	1372.00	32.00
YLG14300	300	47.50	85.00	14.00	84.00	1372.00	31.00

Catene Speciali – Special Chains



Catena No. Chain No	Passo Pitch	Largh.fra le Piastre Interne Width Between inner plates	Diam. Bussola Bush diameter	Diam.Perno Pin diameter	Lungh.Perno Pin Length	Altezza Piastra Plate depth	Spessore Piastra Plate thickness	Carico di Rottura Massimo Ultimate tensile strength
	P	b1 min	d 1 max	d 2 max	L max	h 2 max	T	Q min
	mm	mm	mm	mm	mm	mm	mm	KN
S-102B	101.60	51.30	25.40	15.88	111.30	39.60	9.70	160
S-110	152.4	51.30	32.50	15.88	111.30	39.60	9.70	160
S-111	120.90	63.20	36.60	19.05	130.20	52.30	9.70	214
S-131	78.11	31.70	32.50	15.88	90.50	39.60	9.70	160
S-150	153.67	80.00	44.70	25.40	164.30	66.60	12.70	378
S-188	66.27	25.60	22.40	12.70	68.60	30.00	6.40	102

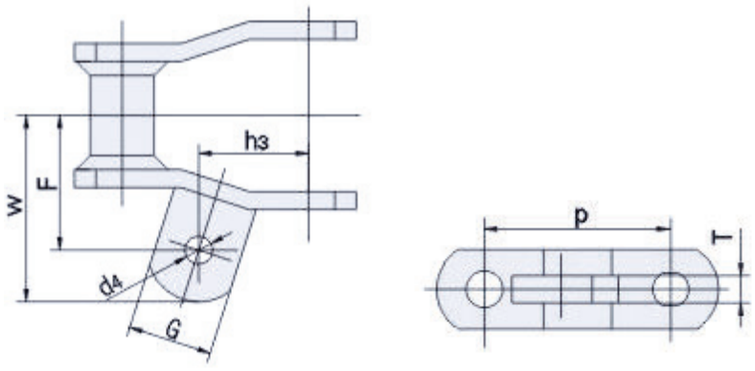
Catene Speciali – Special Chains



Catena No. Chain No	Passo Pitch	Diam.Rullo Roller diameter	Largh.fra le Piastre Interne Width Between inner plates	Diam. Perno Pin diameter	Lungh. Perno Pin Length	Altezza Piastra Plate depth	Spessore Piastra Plate thickness	Carico di Rottura Massimo Ultimate tensile strength	Carico di Rottura Medio Average tensile strength	Peso al mt. Weight per meter
	P	d1 max	b1 min	d2 max	L max	h 2 max	T	Q min	Q0	q
	mm	mm	mm	mm	mm	mm	mm	KN	KN	kg/m
2010	63.50	31.75	38.10	15.90	90.70	47.80	7.90	250.00	270.00	14.00
2510	78.10	31.75	36.90	16.00	94.80	40.00	8.00	271.00	292.00	10.72
2512	77.90	41.28	39.60	19.05	100.00	57.00	9.70	340.00	367.20	18.40
2515f2	77.90	41.28	38.50	19.5	103.00	60.00	10.00	400.00	420.00	20.28
2814	88.90	44.45	36.60	22.23	117.60	58.00	12.70	471.00	507.60	25.70
3214	103.20	44.45	48.00	22.00	123.50	55.00	13.00	476.00	514.00	23.60
3315	103.45	45.24	49.30	23.85	130.00	63.50	14.20	550.00	594.00	27.71
3618	114.30	57.15	52.30	27.97	138.00	79.20	14.20	760.00	820.80	41.20
4020	127.00	63.50	69.90	31.78	165.70	88.90	15.70	987.00	10.69.20	48.60
2184	152.40	76.20	35.00	22.20	96.00	51.00	9.50	330.00	378.00	18.17
MXS882	66.27	22.23	28.58	11.10	68.50	28.50	6.40	115.60	124.80	5.30
MXS3075	78.10	31.75	38.10	16.46	93.5	44.50	9.70	334.00	360.70	13.45
MXS1242	103.20	44.45	49.20	22.23	124.50	57.00	12.80	623.00	672.80	24.63
SS588	66.27	22.23	28.60	11.11	63.70	28.60	6.30	130.00	144.00	5.46
SS568	77.90	41.30	39.70	19.05	97.60	57.00	9.50	340.00	367.30	19.80
SS124	103.20	44.45	49.20	22.23	127.20	57.00	12.70	560.00	590.00	22.57

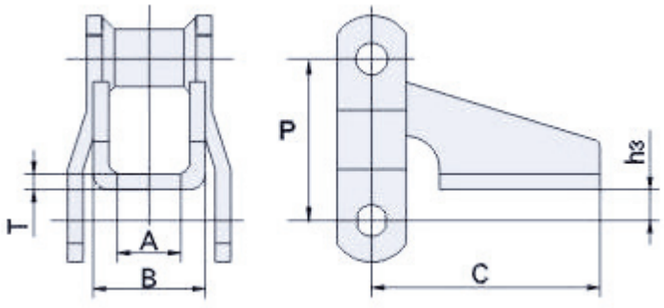
Catene Speciali – Special Chains

With A22 attachments



Catena No. Chain No.	P	h 3	G	F	W	d 4	T
	mm	mm	mm	mm	mm	mm	mm
W78	66.27	33.30	30.00	47.80	65.00	9.70	9.70

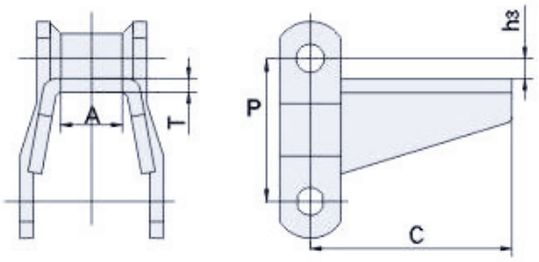
With H1 attachments



Catena No. Chain No.	P	h 3	A	B	C	T
	mm	mm	mm	mm	mm	mm
W78	66.27	12.70	22.4	50.80	93.50	6.40
W82	78.10	15.70	28.40	57.20	93.50	6.40

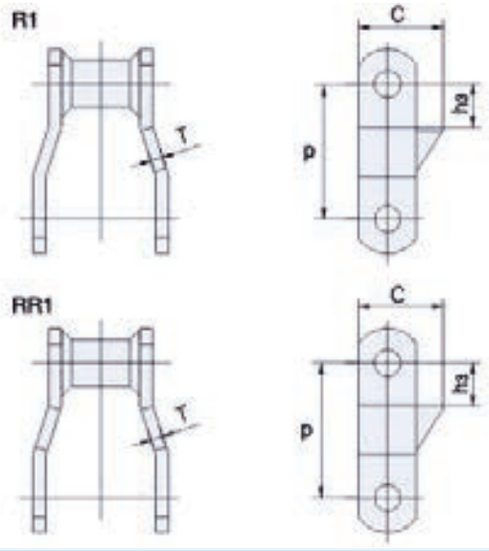
Catene Speciali – Special Chains

With H2 attachments



Catena No. Chain No.	P	h 3	A	C	T
	mm	mm	mm	mm	mm
W78	66.27	7.90	20.80	93.50	6.40
W82	78.10	7.90	26.40	96.80	6.40

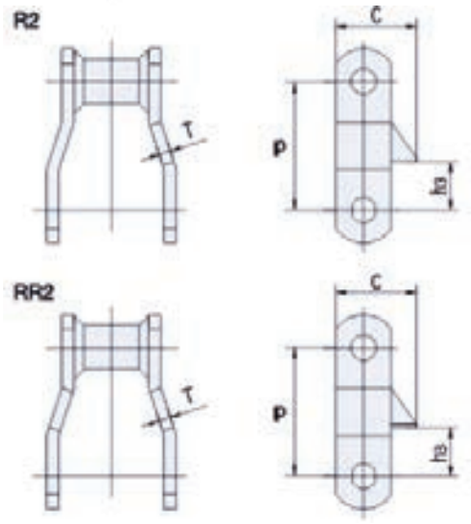
With R1 & RR1 attachments



Catena No. Chain No.	P	h 3	C	T
	mm	mm	mm	mm
W78	66.27	17.30	41.10	6.40
W82	78.10	22.40	49.30	6.40
W124	101.60	31.80	49.30	9.70

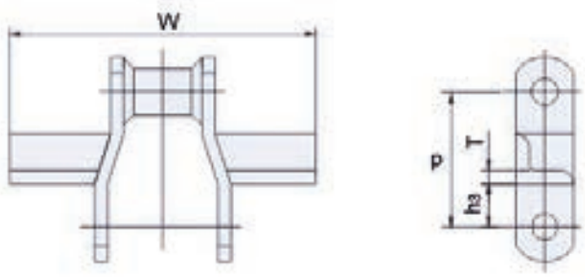
Catene Speciali – Special Chains

With R2 & RR2 attachments



Catena No. Chain No.	P	h 3	C	T
	mm	mm	mm	mm
W78	66.27	17.30	41.10	6.40
W82	78.10	22.40	49.30	6.40
W124	101.60	31.80	49.30	9.70

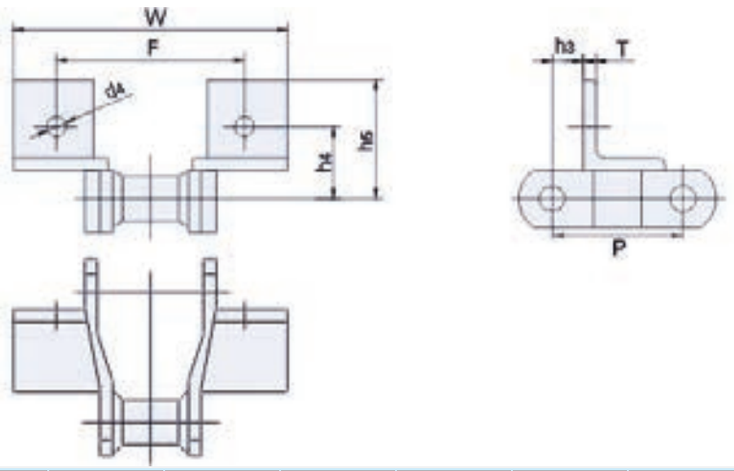
With W1 attachments



Catena No. Chain No.	P	h 3	W	T
	mm	mm	mm	mm
W78	66.27	19.10	153.90	6.40
W82	78.10	23.90	166.60	6.40
W124	101.60	30.00	217.40	6.40
W124H	103.20	35.10	217.40	9.70
W132	101.60	38.10	316.00	9.70

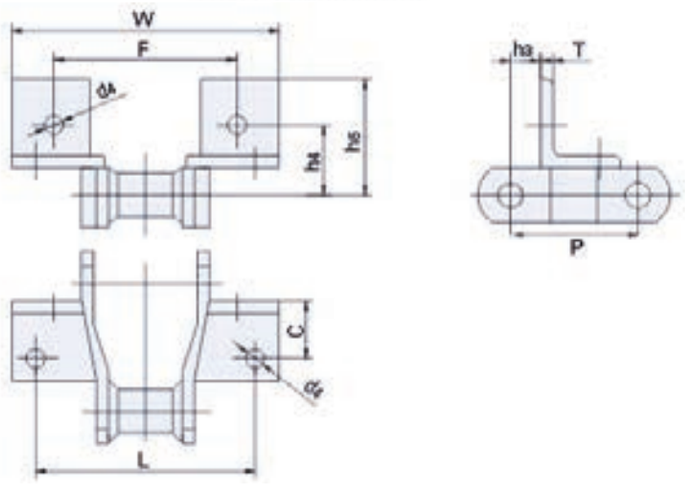
Catene Speciali – Special Chains

With F2 attachments



Catena No. Chain No.	P	h 3	h 4	h 5	F	W	d 4	T
	mm	mm	mm	mm	mm	mm	mm	mm
W78	66.27	15.70	36.60	60.50	95.50	138.20	9.70	6.40

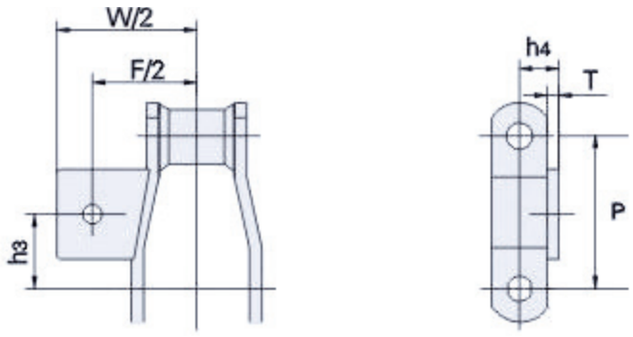
With F4 attachments



Catena No. Chain No.	P	h 3	h 4	h 5	L	C	F	W	d 4	T
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
W78	66.27	17.30	44.40	60.50	114.30	31.80	95.20	141.20	9.70	6.4
W82	78.10	20.60	46.20	62.00	127.00	28.40	104.60	150.90	9.70	6.40
W124	101.60	22.40	52.30	73.20	133.60	36.60	111.30	157.00	9.70	9.70

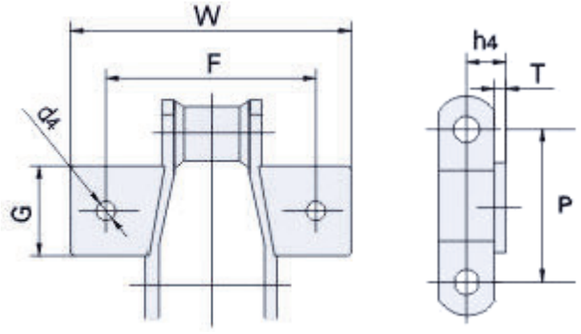
Catene Speciali – Special Chains

With A1 attachments



Catena No. Chain No.	P	h 3	h 4	h 5	L	C	F	W	d 4	T
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
W78	66.27	17.30	44.40	60.50	114.30	31.80	95.20	141.20	9.70	6.40
W82	78.10	20.60	46.20	62.00	127.00	28.40	104.60	150.90	9.70	6.40

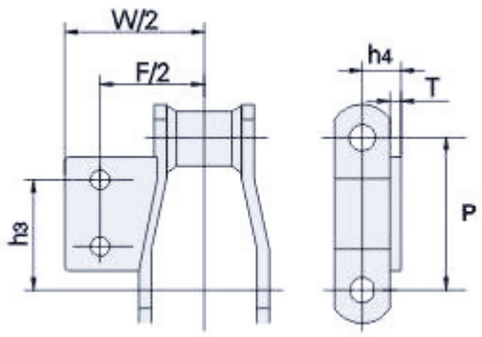
With K1 attachments



Catena No. Chain No.	P	h 3	h 4	h 5	L	C	F	W	d 4	T
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
W78	66.27	17.30	44.40	60.50	114.30	31.80	95.20	141.20	9.70	6.40
W82	78.10	20.60	46.20	62.00	127.00	28.40	104.60	150.90	9.70	6.40

Catene Speciali – Special Chains

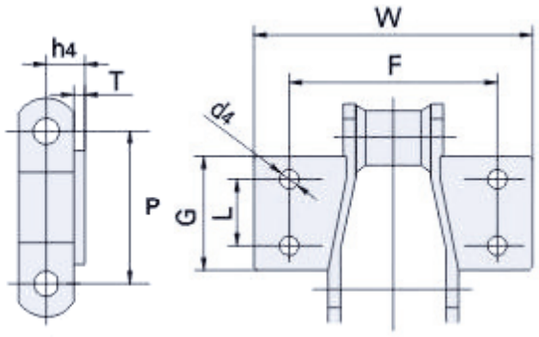
With A2 attachments



Catena No. Chain No.	P	L	G	h 3	F	W	h 4	d 4	T
	mm	mm	mm	mm	mm	mm	mm	mm	mm
W78	66.27	28.40	52.30	38.90	101.60	130.00	22.40	9.70	6.40
W82	78.10	33.30	62.00	52.30	108.20	142.70	23.90	9.70	6.40
W110	152.40	44.40	84.10	98.60	135.10	168.10	30.00	9.70	9.70
W111	120.90	58.70	90.40	89.90	159.00	193.50	30.00	12.70	9.70
W124	101.60	49.30	77.70	71.40	133.60	180.80	30.00	9.70	9.70
W124H	103.20	49.30	80.80	73.20	133.60	165.60	39.60	12.70	12.70
W132	153.67	69.80	80.80	106.20	190.50	234.70	39.60	12.70	12.70

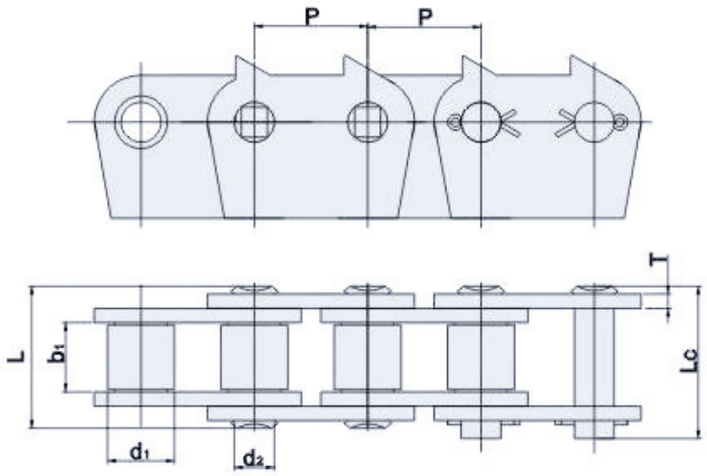
Catene Speciali – Special Chains

With K2 attachments

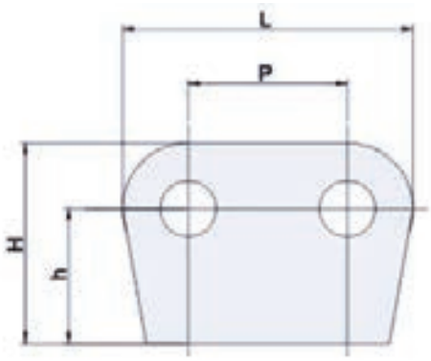


Catena No. Chain No.	P	L	G	h 3	F	W	h 4	d 4	T
	mm	mm	mm	mm	mm	mm	mm	mm	mm
W78	66.27	28.40	52.30	38.90	101.60	130.00	22.40	9.70	6.40
W82	78.10	33.30	62.00	52.30	108.20	142.70	23.90	9.70	6.40
W110	152.40	44.40	84.10	98.60	135.10	168.10	30.00	9.70	9.70
W111	120.90	58.70	90.40	89.90	159.00	193.50	30.00	12.70	9.70
W124	101.60	49.30	77.70	71.40	133.60	180.80	30.00	9.70	9.70
W124H	103.20	49.30	80.80	73.20	133.60	165.60	39.60	12.70	12.70
W132	153.67	69.80	80.80	106.20	190.50	234.70	39.60	12.70	12.70

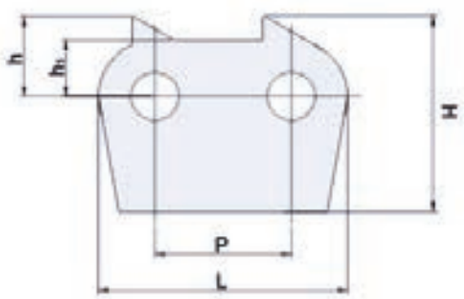
Catene Speciali – Special Chains



Catena No. Chain No	Passo Pitch	Diam.Rullo Roller diameter	Largh.fra le Piastre Interne Width Between inner plates	Diam. Perno Pin diameter	Lungh. Perno Pin Length	Lungh. Perno Pin Length	Spessore Piastra Plate thickness	Carico di Rottura Massimo Ultimate tensile strength	Peso al mt. Weight per meter
	P	d1 max	b1 min	d2 max	L max	Lc max	T	Q min	q
	mm	mm	mm	mm	mm	mm	mm	KN	kg/m
32B-1-1872	50.80	29.21	33.00	17.81	66.00	71.00	6.00	250.00	13.54



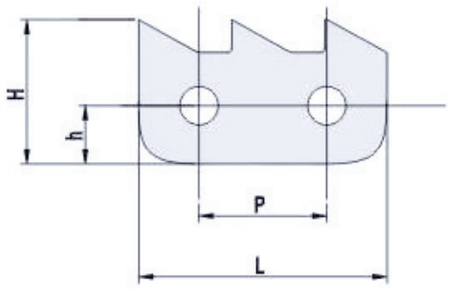
32B-1872



32B-1874

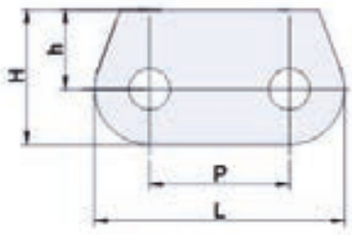
Catena No. Chain No.	P	L	h	h	H
	mm	mm	mm	mm	mm
32B-1872	50.80	92.80		43.00	64.00
32B-1874	50.80	92.80	21.00	30.00	73.00

Catene Speciali – Special Chains

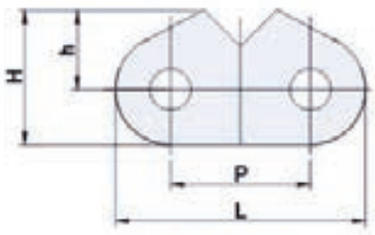


20AJCL1

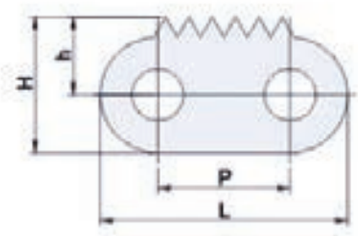
Catena No. Chain No.	P	L	h	H
	mm	mm	mm	mm
20A-JCL1	31.75	57.20	14.75	35.84



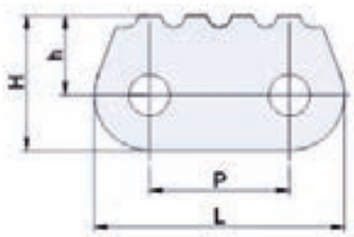
24B-1805



24B-1807



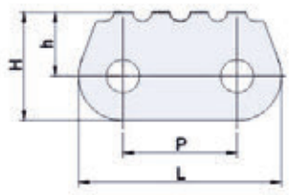
C24B-1820



24B-1809

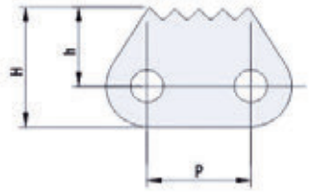
Catena No. Chain No.	P	L	h	H
	mm	mm	mm	mm
24B-1805	38.10	73.10	21.00	38.50
24B-1807	38.10	73.10	25.50	43.00
24B-1809	38.10	73.10	21.00	38.50
24B-1820	38.10	73.10	21.00	38.50

Catene Speciali – Special Chains



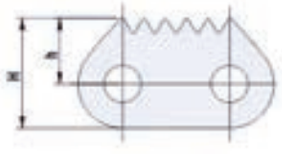
120-1802

Catena No. Chain No.	P	L	h	H
	mm	mm	mm	mm
120-1802	38.10	73.10	21.00	38.50



16BJCL3

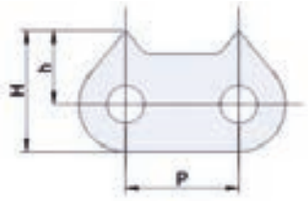
Catena No. Chain No.	P	h	H
	mm	mm	mm
16BJCL3	25.40	16.00	26.40



20BJCL1

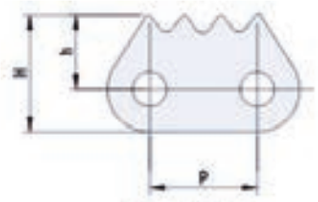
Catena No. Chain No.	P	h	H
	mm	mm	mm
20BJCL1	31.75	19.80	33.00

Catene Speciali – Special Chains



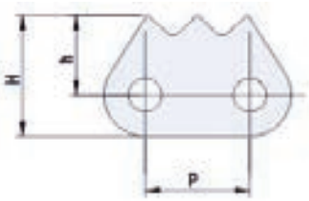
20B-1350

Catena No. Chain No.	P	h	H
	mm	mm	mm
20B-1350	31.75	19.80	33.00

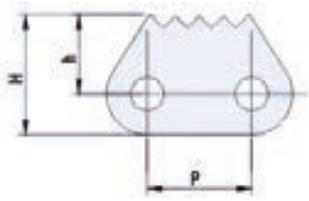


12BJCL1

Catena No. Chain No.	P	h	H
	mm	mm	mm
12BJCL1	19.05	13.50	21.50



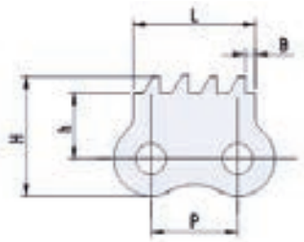
16AJCL1



16AJCL2

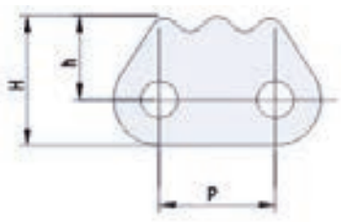
Catena No. Chain No.	P	h	H
	mm	mm	mm
16AJCL1	25.40	17.50	29.50
16AJCL2	25.40	17.50	29.50

Catene Speciali – Special Chains

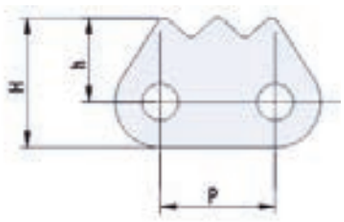


08B-940

Catena No. Chain No.	P	h	H	B	L
	mm	mm	mm	mm	mm
08B-940	12.70	9.60	17.5	1.50	17.90

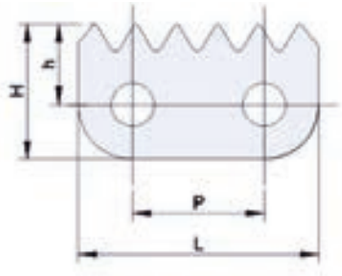


C60JCL1



C60JCL-910

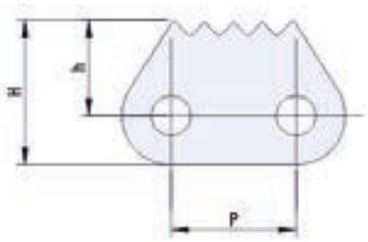
Catena No. Chain No.	P	h	H
	mm	mm	mm
C60JCL1	19.05	13.38	22.48
C60JCL-910	19.05	12.70	21.70



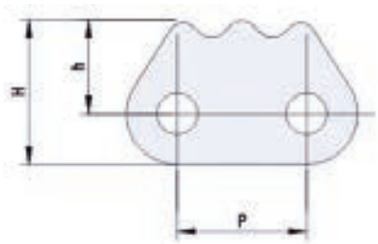
16B-1185

Catena No. Chain No.	P	h	h	H
	mm	mm	mm	mm
16B-1185	25.40	46.00	16.00	26.50

Catene Speciali – Special Chains

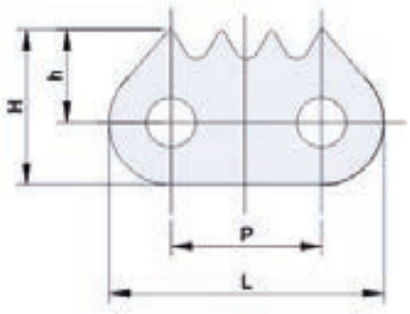


C16BJCL1

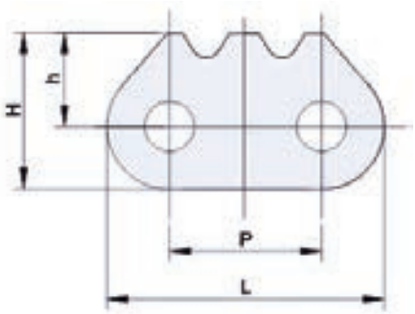


C16BJCL2

Catena No. Chain No.	P	h	h	H
	mm	mm	mm	mm
C16BJCL1	25.40		18.70	29.20
C16BJCL2	25.40		18.70	29.20



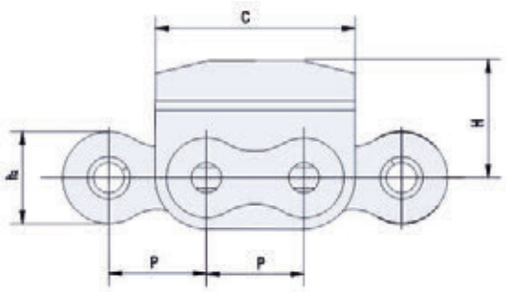
16B-1170

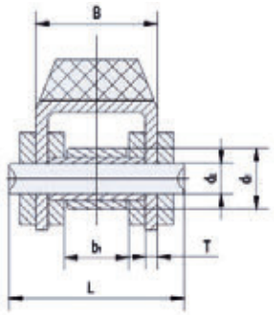


16B-1180

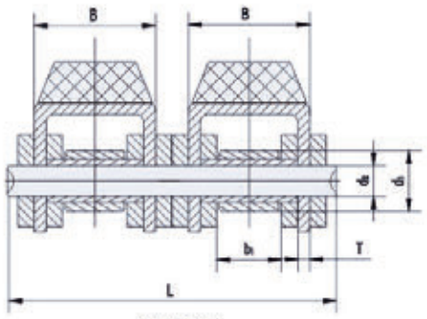
Catena No. Chain No.	P	h	h	H
	mm	mm	mm	mm
16B-1170	25.40	46.10	16.00	26.50
16B-1180	25.40	46.00	12.20	22.50

Catene Speciali – Special Chains

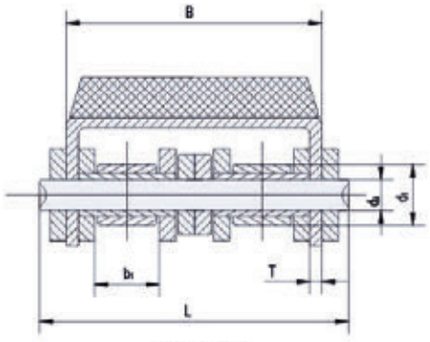




24B-G1N1



16A-G2N3
16A-G2N4



08B-G2N1

Catena No. Chain No.	P	B	C	H	T
	mm	mm	mm	mm	mm
08B-G2N1	12.70	28.40	24.20	12.00	1.50
16A-G2N2	25.40	27.50	49.00	21.40	2.42
16A-G2N4	25.40	27.00	49.20	20.00	2.03
24B-G1N1	38.10	47.00	72.60	34.00	4.50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