

**DIAMOND**<sup>®</sup>  
DIAMOND CHAIN COMPANY

**SAPPHIRE**<sup>®</sup>  
DIAMOND CHAIN COMPANY



AGRICULTURE PRODUCT GUIDE



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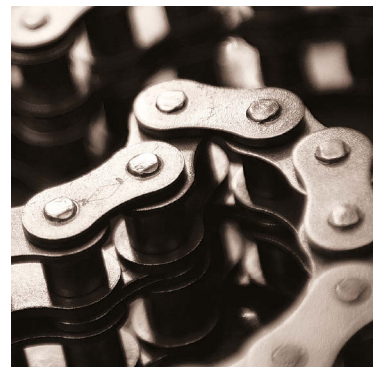
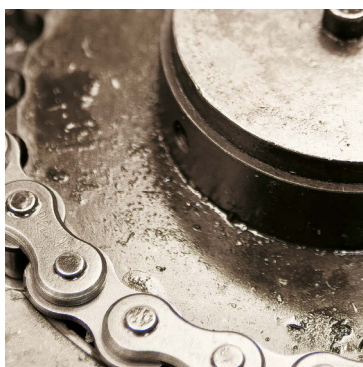
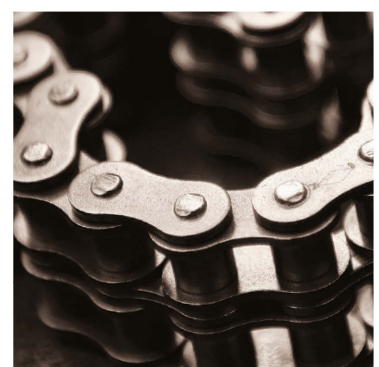


*Every Calling is Great, When Greatly Pursued.*

OLIVER WENDELL HOLMES



At the Diamond Chain Company, the calling to design and manufacture the world's highest-performing roller chain is greatly pursued every day by teams of passionate technical experts who have made your success their life's work. It's that intensity of focus that some of the world's greatest inventors trusted to provide the drive chains they needed to transform the world. From the Wright Brothers, to Henry Ford, to the global leaders of our time, Diamond® chain is the roller chain most trusted to perform, when performance matters most.

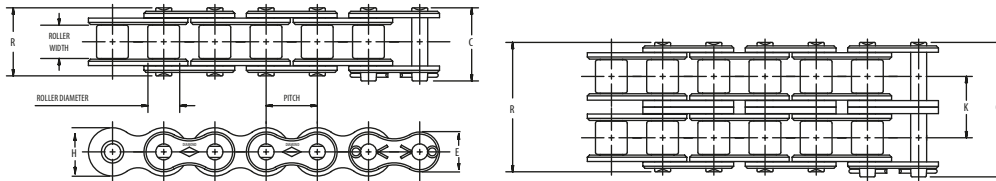


# DIAMOND®

## STANDARD SERIES CHAIN

### SINGLE AND MULTI-STRAND

Diamond Standard Series Chains are built to ASME / ANSI B29.1 standards for dimensions, interoperability, and sprocket fit and exceed the established standards for tensile strength.



Dimensions in mm

ASME/ANSI Number	Pitch mm	Roller Width mm	Roller Diameter mm	Pin Diameter mm	Link Plate Thickness mm	C mm	R mm	K mm	KG Per M	Average Tensile Strength N	E**	H**
35	9.53	4.763	*5.080	3.581	1.270	14.22	12.70	....	0.313	9341	7.823	9.042
40	12.70	7.938	7.925	3.962	1.524	18.29	17.02	....	0.610	17793	10.414	12.065
40-2	12.70	7.938	7.925	3.962	1.524	32.77	31.50	14.38	1.191	35586	10.414	12.065
41	12.70	6.350	7.772	3.581	1.270	16.51	14.48	....	0.387	10676	7.874	9.728
50	15.88	9.525	10.160	5.080	2.032	22.61	21.08	....	1.012	29358	13.005	15.088
60	19.05	12.700	11.913	5.944	2.388	28.19	26.42	....	1.473	37810	15.621	18.110
60-2	19.05	12.700	11.913	5.944	2.388	51.05	49.28	22.78	2.902	75620	15.621	18.110
80	25.40	15.875	15.875	7.925	3.175	36.58	33.53	....	2.575	64499	20.828	24.130
80-2	25.40	15.875	15.875	7.925	3.175	65.79	62.74	29.29	5.015	128998	20.828	24.130
100	31.75	19.050	19.050	9.525	3.962	43.94	40.89	....	3.735	106757	26.035	30.175

\*Chains are rollerless -- dimension shown is bushing diameter.

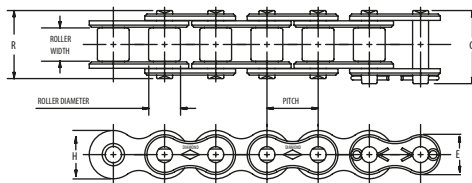
\*\* Maximum values are shown.

ASME/ANSI 60 and larger chains are available as cottered or riveted type design.

Multiple strand chains are available with slip-fit (standard) or press-fit center plates.

## HEAVY SERIES CHAIN

Diamond Heavy Series Chains are built to ASME / ANSI B29.1 standards and utilize link plates from the next larger size of chain. Heavy Series chains are intended for applications subject to heavy shock loads, starts and stops, and forward and reverse travel.



Dimensions in mm

ASME/ANSI Number	Pitch mm	Roller Width mm	Roller Diameter mm	Pin Diameter mm	Link Plate Thickness mm	C mm	R mm	KG Per M	Average Tensile Strength N	E*	H*
60H	19.05	12.700	11.913	5.944	3.175	31.50	29.72	1.756	37810	15.621	18.110
80H	25.40	15.875	15.875	7.925	3.962	39.88	36.83	3.006	64499	20.828	20.828
100H	31.75	19.050	19.050	9.525	4.750	47.24	44.20	4.197	106757	26.035	26.035

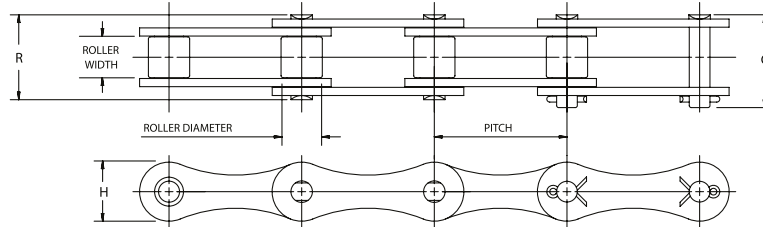
\* Maximum values are shown.

ASME/ANSI 60 and larger chains are available as cottered or riveted type design.

Multiple strand chains are available with slip-fit (standard) or press-fit center plates.

## DOUBLE-PITCH POWER TRANSMISSION ROLLER CHAIN

These chains, produced to ASME/ANSI B29.3 standards, have figure-eight style link plates. Their dimensions are similar to Standard Series chains with the exception of the pitch, which is twice that of the Standard Series chains. The increase in pitch means that only half the number of component parts are required per foot which can significantly lower the cost. Typical uses for these types of chains include light load drives commonly found in agricultural machinery.



Dimensions in mm

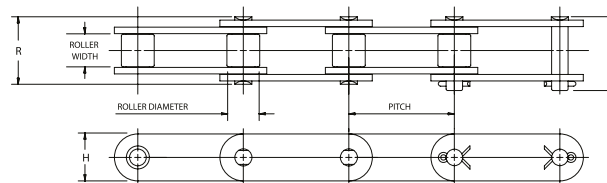
ASME/ANSI Number	Pitch mm	Roller Width mm	Roller Diameter mm	Pin Diameter mm	Link Plate Thickness mm	C mm	R mm	KG Per M	Average Tensile Strength N	H*
2040	25.40	7.938	7.925	3.962	1.524	19.30	17.27	0.417	16458	12.065
2050	31.75	9.525	10.160	5.080	2.032	23.37	21.34	0.774	27134	15.088
2060	38.10	12.700	11.913	5.944	2.388	28.19	26.67	1.071	37810	18.085

\*Maximum values are shown.

ASME/ANSI 60 and larger chains are available as cottered or riveted type design.

## DOUBLE-PITCH CONVEYOR ROLLER CHAIN

Produced to ASME/ANSI B29.4 standards, these chains are used in conveyor applications when loads are low and speeds are moderate. They are similar to the Double-Pitch Power Transmission chains, but with link plates that have an oval contour, and can be produced with either standard or over-sized rollers. They are most often found working on conveyors of all shapes and sizes and can be supplied with one or more of our many attachments to carry or convey products.



Dimensions in mm

ASME/ANSI Number	Pitch mm	Roller Width mm	Roller Diameter mm	Pin Diameter mm	Link Plate Thickness mm	C mm	R mm	KG Per M	Average Tensile Strength N	H*
C2040	25.40	7.938	7.925	3.962	1.524	19.30	17.27	0.506	16458	12.065
C2042	25.40	7.938	15.875	3.962	1.524	19.30	17.27	0.744	16458	12.065
C2050	31.75	9.525	10.160	5.080	2.032	23.37	21.34	0.863	27134	15.088
C2052	31.75	9.525	19.050	5.080	2.032	23.37	21.34	1.205	27134	15.088
C2060H	38.10	12.700	11.913	5.944	3.175	31.75	29.97	1.563	37810	18.085
C2062H	38.10	12.700	22.225	5.944	3.175	31.75	29.97	2.113	37810	18.085

\*Maximum values are shown.

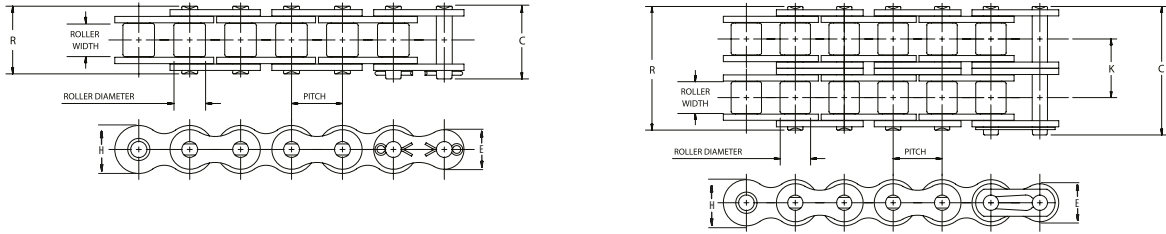
ASME/ANSI 60 and larger chains are available as cottered or riveted type design.

# SAPPHIRE®

## STANDARD SERIES CHAIN

### SINGLE AND MULTI-STRAND

Sapphire Standard Series Chains are built to ASME / ANSI B29.1 standards.



Dimensions in mm

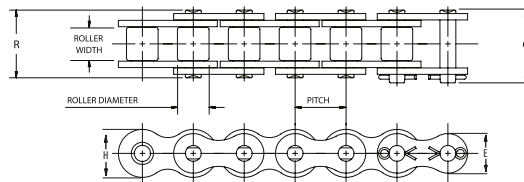
ASME/ANSI Number	Pitch mm	Roller Width mm	Roller Diameter mm	Pin Diameter mm	Link Plate Thickness mm	C mm	R mm	K mm	KG Per M	Minimum Tensile Strength N	E**	H**
35	9.53	4.763	*5.080	3.581	1.270	14.22	12.70	....	0.313	7829	7.823	9.042
40	12.70	7.938	7.925	3.962	1.524	18.29	17.02	....	0.610	13901	10.414	12.065
40-2	12.70	7.938	7.925	3.962	1.524	32.77	31.50	14.38	1.191	27801	10.414	12.065
41	12.70	6.350	7.772	3.581	1.270	16.51	14.48	....	0.387	6672	7.874	9.728
50	15.88	9.525	10.160	5.080	2.032	22.61	21.08	....	1.012	21707	13.005	15.088
50-2	15.88	9.525	10.160	5.080	2.032	40.64	39.37	18.11	1.964	43415	15.621	18.110
60	19.05	12.700	11.913	5.944	2.388	28.19	26.42	....	1.473	31271	15.621	18.110
60-2	19.05	12.700	11.913	5.944	2.388	51.05	49.28	22.78	2.902	62542	15.621	18.110
80	25.40	15.875	15.875	7.925	3.175	36.58	33.53	....	2.575	55603	20.828	24.130
80-2	25.40	15.875	15.875	7.925	3.175	65.79	62.74	29.29	5.015	111205	20.828	24.130
100	31.75	19.050	19.050	9.525	3.962	43.94	40.89	....	3.735	86073	26.035	30.175

\*Chains are rollerless -- dimension shown is bushing diameter.

\*\* Maximum values are shown.

ASME/ANSI 60 and larger chains are available as cottered or riveted type design.

Multiple strand chains are available with slip-fit (standard) center plates.



## HEAVY SERIES CHAIN

Sapphire Heavy Series Chains are built to ASME / ANSI B29.1 standards.

Dimensions in mm

ASME/ANSI Number	Pitch mm	Roller Width mm	Roller Diameter mm	Pin Diameter mm	Link Plate Thickness mm	C mm	R mm	KG Per M	Minimum Tensile Strength N	E*	H*
50H	15.88	9.525	10.160	5.080	2.388	21.84	23.62	1.176	26182	13.005	15.088
60H	19.05	12.700	11.913	5.944	3.175	31.50	29.72	1.756	31271	15.621	18.110
80H	25.40	15.875	15.875	7.925	3.962	39.88	36.83	3.006	55603	20.828	20.828
100H	31.75	19.050	19.050	9.525	4.750	47.24	44.20	4.197	86874	26.035	26.035

\* Maximum values are shown.

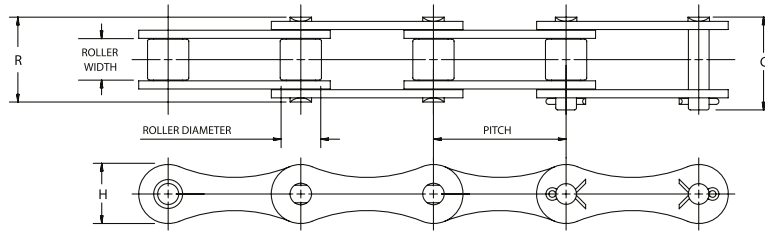
ASME/ANSI 60 and larger chains are available as cottered or riveted type design.

Multiple strand chains are available with slip-fit (standard) center plates.

# SAPPHIRE®

## DOUBLE-PITCH POWER TRANSMISSION ROLLER CHAIN

Sapphire Double-Pitch Power Transmission Chains are built to ASME / ANSI B29.3 standards.



Dimensions in mm

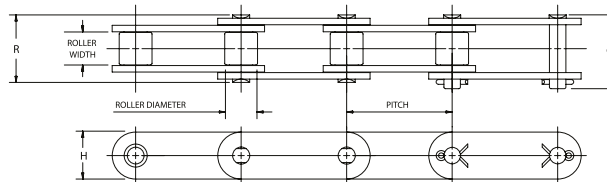
ASME/ANSI Number	Pitch mm	Roller Width mm	Roller Diameter mm	Pin Diameter mm	Link Plate Thickness mm	C mm	R mm	KG Per M	Minimum Tensile Strength N	H*
2040	25.40	7.938	7.925	3.962	1.524	19.30	17.27	0.417	13901	12.065
2050	31.75	9.525	10.160	5.080	2.032	23.37	21.34	0.774	21707	15.088
2060	38.10	12.700	11.913	5.944	2.388	28.19	26.67	1.071	31271	18.085

\*Maximum values are shown.

ASME/ANSI 60 and larger chains are available as cottered or riveted type design.

## DOUBLE-PITCH CONVEYOR ROLLER CHAIN

Sapphire Double-Pitch Conveyor Series Chains are built to ASME / ANSI B29.4 standards.



Dimensions in mm

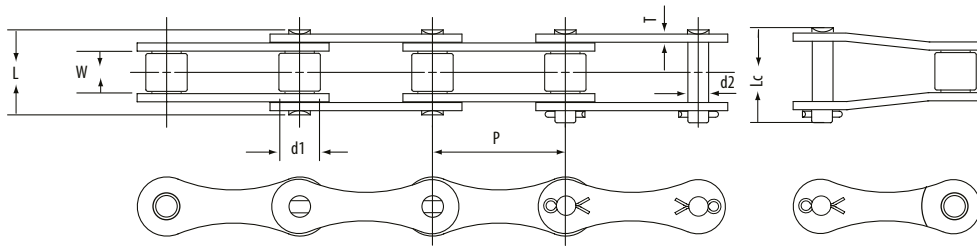
ASME/ANSI Number	Pitch mm	Roller Width mm	Roller Diameter mm	Pin Diameter mm	Link Plate Thickness mm	C mm	R mm	KG Per M	Minimum Tensile Strength N	H*
C2040	25.40	7.938	7.925	3.962	1.524	19.30	17.27	0.506	13901	12.065
C2042	25.40	7.938	15.875	3.962	1.524	19.30	17.27	0.744	13901	12.065
C2050	31.75	9.525	10.160	5.080	2.032	23.37	21.34	0.863	21707	15.088
C2052	31.75	9.525	19.050	5.080	2.032	23.37	21.34	1.205	21707	15.088
C2060H	38.10	12.700	11.913	5.944	3.175	31.75	29.97	1.563	31271	18.085
C2062H	38.10	12.700	22.225	5.944	3.175	31.75	29.97	2.113	31271	18.085

\*Maximum values are shown.

ASME/ANSI 60 and larger chains are available as cottered or riveted type design.

# SAPPHIRE<sup>®</sup>

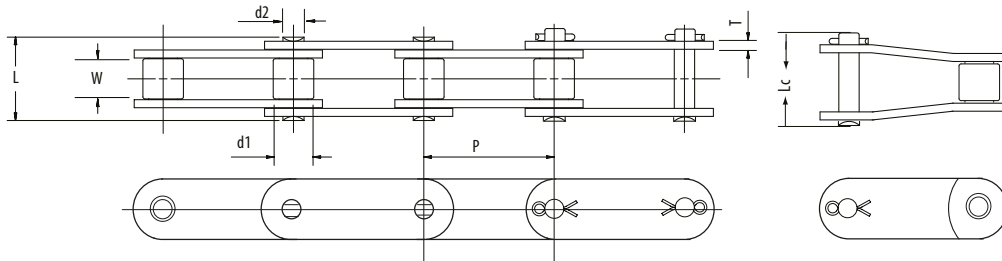
## S & C ROLLER CHAIN



Dimensions in mm

Model Number	Pitch mm	Roller W min mm	Roller D1 max mm	Pin Diameter d2 max mm	Pin Length L max mm	Pin Length Lc max mm	Link Plate Height H mm	Link Plate Thickness T mm	Average Tensile Strength N
S32	29.21	15.875	11.430	4.470	26.391	27.99	13.41	0.106	22063
S42	34.93	19.507	14.275	7.010	34.290	37.01	19.71	0.164	50990
S45	41.40	22.225	15.240	5.842	37.694	40.41	17.20	0.164	37263
S52	38.10	22.225	15.240	5.842	37.694	40.41	17.20	0.164	37263
S55	41.40	22.225	17.780	5.842	37.694	40.41	17.20	0.164	37263
S62	41.91	25.400	19.050	5.842	40.310	43.00	17.20	0.146	37263
S77	58.34	22.225	18.263	8.915	43.205	46.41	26.19	0.234	73547
S88	66.27	28.575	22.860	8.915	49.809	53.01	26.19	0.234	73547
A550	41.40	19.812	16.866	7.188	35.611	39.45	20.19	0.158	53935
A620	42.01	24.511	17.907	7.188	42.189	45.69	20.19	0.188	58836

## AGRICULTURAL ROLLER CHAIN



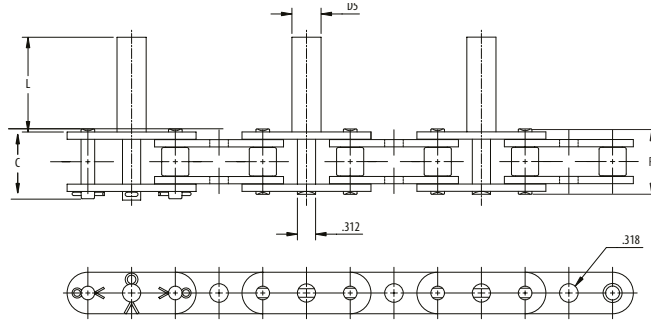
Dimensions in mm

Model Number	Pitch mm	Roller W min mm	Roller d1 max mm	Pin Outer Diameter d2 max mm	Pin Length L max mm	Pin Length Lc max mm	Link Plate Height H max mm	Link Plate Thickness T mm	Average Tensile Strength N
CA550	41.40	19.812	16.866	7.188	35.662	38.76	20.19	0.158	53935
CA555	41.40	12.700	16.688	7.188	30.099	33.10	20.19	0.188	58836
CA557	41.40	19.812	17.805	8.001	37.389	40.59	22.30	0.188	73547
CA620	42.01	24.511	17.907	7.188	41.808	45.21	20.19	0.188	58836



# SAPPHIRE®

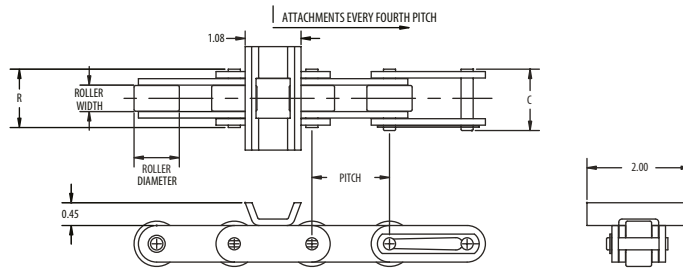
## CITRUS ROLLER CHAIN



Dimensions in mm

Model Number	Pitch mm	Roller Width mm	Roller Diameter mm	Pin Diameter mm	C mm	R mm	DS mm	L mm	Link Plate Thickness mm	Minimum Tensile Strength N
C2060H-D5 TYPE 1	38.10	12.700	11.913	5.944	31.75	29.97	12.70	41.28	3	13901
C2060H-D5 TYPE 2	38.10	12.700	11.913	5.944	31.75	29.97	14.29	41.28	3	13901

## COTTON MODULE ROLLER CHAIN



Dimensions in mm

Model Number	Pitch mm	Roller Width mm	Roller Diameter mm	Pin Diameter mm	Link Plate Thickness mm	C mm	R mm	Minimum Tensile Strength N
C2062H	38.10	12.700	22.225	5.944	3.175	31.75	29.97	31271

## CORNHEAD GATHERING CHAIN-STOCK ITEMS

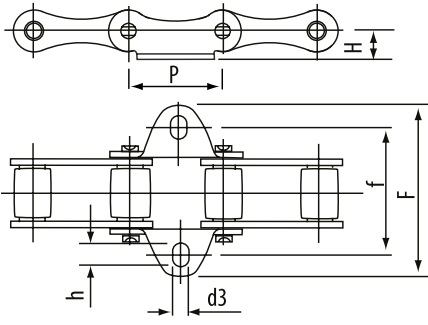
Model Number	OEM CROSS-REFERENCE			Chain/Attachment Technical Data
	AGCO®	John Deere®	International Harvester®	
CA555 C6E 48-8	---	AN102009	176279C91	page 12-13
CA550 C17E 50-6	71505705	---	---	page 11
CA550 C11E 57-7	573640	---	---	page 12
CA550 C17E 57-7	574793/591122	---	---	page 11

Any cornhead gathering chains not listed above are available Made-To-Order in most chain/attachment combinations.

See page 10 – 13 or contact Diamond Chain for more information at 1-800-872-4246.

# ATTACHMENTS

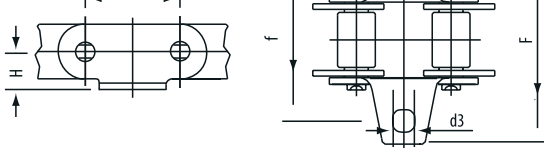
K1



Dimensions in mm

Model Number	P mm	f mm	F mm	H mm	d3 mm	h mm
S32	29.21	42.901	61.011	8.611	5.309	6.91
S42	34.93	53.924	74.905	13.995	8.306	11.51
S45	41.40	50.800	75.006	11.405	8.509	11.71
S52	38.10	58.801	78.003	11.405	8.306	9.91
S55	41.40	53.924	75.006	11.405	8.509	11.71
S62	41.91	66.802	95.402	11.405	6.502	13.00
S77	58.34	73.000	101.600	20.803	8.306	11.51
S88	66.27	95.301	119.405	20.803	8.306	9.91

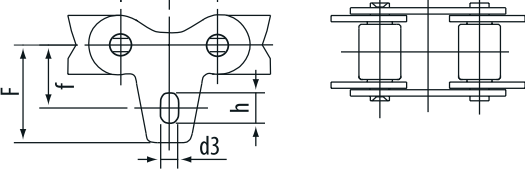
K8



Dimensions in mm

Model Number	P mm	f mm	F mm	H mm	d3 mm
CA550	41.40	50.800	76.200	12.700	6.706
CA550	41.40	54.204	76.200	12.700	8.306

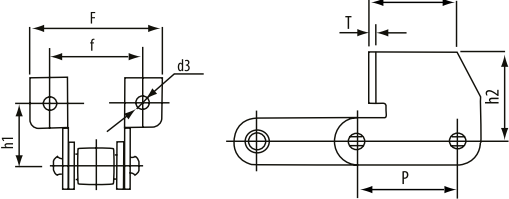
M1



Dimensions in mm

Model Number	P mm	f mm	F mm	H mm	d3 mm
S32	29.21	17.297	26.187	6.909	5.31
S42	34.93	23.597	34.290	11.506	8.31
S45	41.40	19.812	30.201	11.506	8.31
S52	38.10	22.098	31.801	9.906	8.31
S55	41.40	19.812	30.201	11.506	8.31
S62	41.91	24.613	38.608	14.707	8.31
S77	58.34	36.297	50.013	11.506	8.31
S88	66.27	43.688	55.601	9.906	8.31

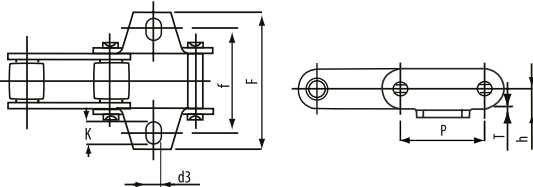
F4



Dimensions in mm

Model Number	P mm	f mm	F mm	h1 mm	h2 mm	T mm	d3 mm	G mm
CA550	41.40	47.600	68.301	30.988	42.901	2.69	8.31	36.91
S45	41.40	57.988	89.992	19.990	30.912	2.69	6.50	36.91
S5	41.40	57.988	75.006	19.990	30.912	2.69	6.50	36.91

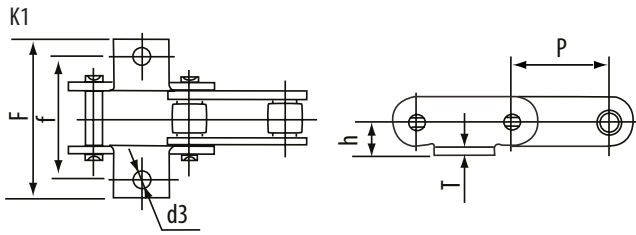
K1



Dimensions in mm

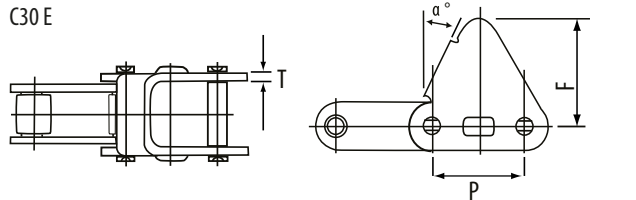
Model Number	P mm	f mm	F mm	H mm	d3 mm	K mm	T mm
CA550	41.40	54.991	76.987	14.554	8.306	10.59	2.69

# ATTACHMENTS



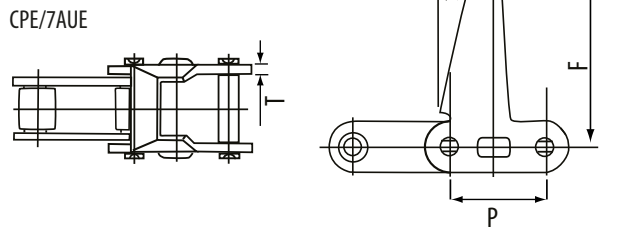
Dimensions in mm

Model Number	p mm	f mm	F mm	H mm	d3 mm	T mm
CA620	42.01	62.713	80.188	11.506	6.756	3.20



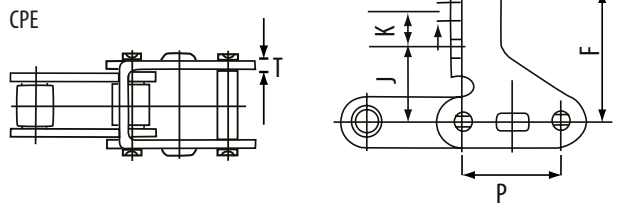
Dimensions in mm

Model Number	p mm	a° mm	T mm	F mm
CA550	41.40	2.8°	26.924	50.800



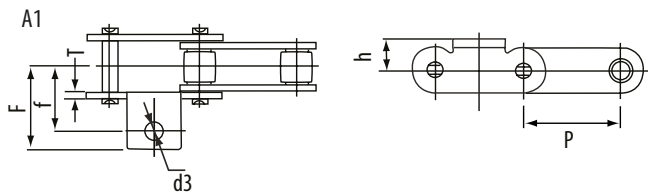
Dimensions in mm

Model Number	p mm	a° mm	T mm	F mm
CA550	41.40	17°	2.692	63.500
C2060H	38.10	22°	2.692	57.201



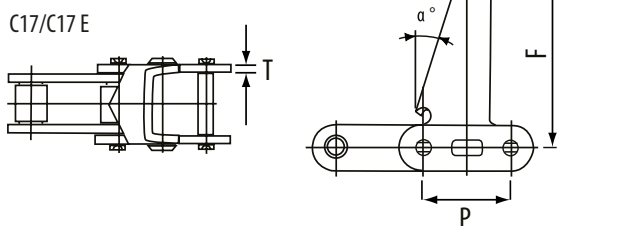
Dimensions in mm

Model Number	p mm	K mm	J mm	d4 mm	T mm	F mm
C2060H	38.10	25.400	23.495	5.893	3.200	59.41



Dimensions in mm

Model Number	p mm	f mm	F mm	H mm	T mm	d3 mm
CA620	42.01	31.4°	40.107	11.506	3.200	3.76

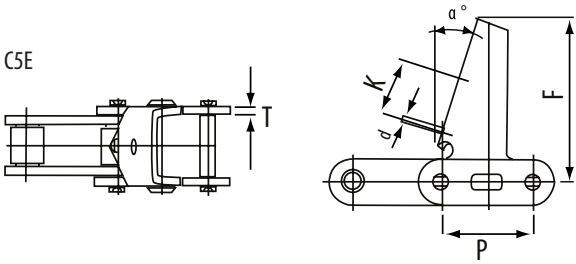


Dimensions in mm

Model Number	p mm	a° mm	T mm	F mm
CA550	41.40	20°	2.692	76.200
C2060H	38.10	22.5°	3.200	58.699

# ATTACHMENTS

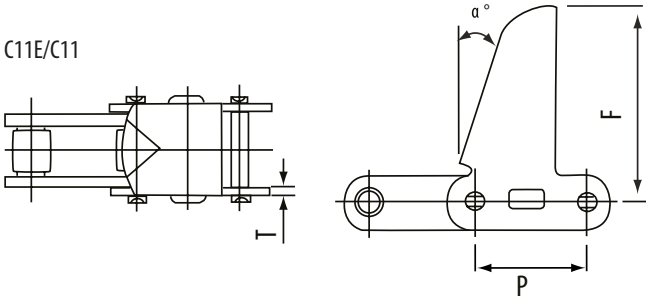
C5E



Dimensions in mm

Model Number	P mm	a° mm	T mm	F mm	d mm	K mm
C2060H	41.40	22.5°	3.200	57.201	8.509	29.997

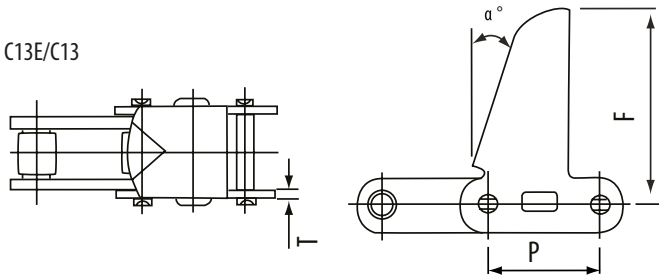
C11E/C11



Dimensions in mm

Model Number	P mm	a° mm	T mm	F mm
CA550	41.40	15°/17°	2.692	63.500

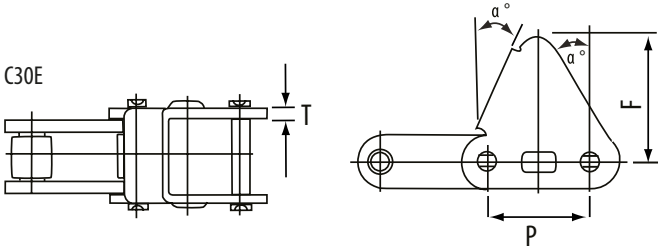
C13E/C13



Dimensions in mm

Model Number	P mm	a° mm	T mm	F mm
CA550	41.40	17°	2.692	92.100
CA620	40.11	15°	3.200	91.999

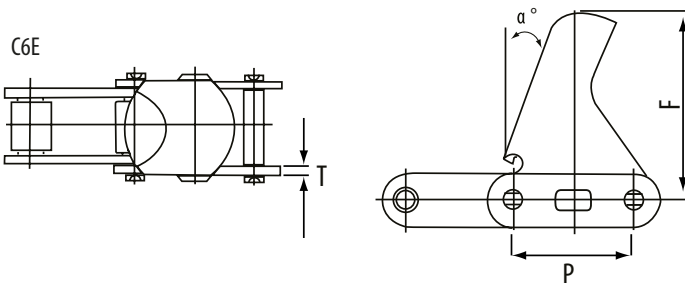
C30E



Dimensions in mm

Model Number	P mm	a° mm	T mm	F mm
CA620	40.11	22.5°	3.200	58.699

C6E

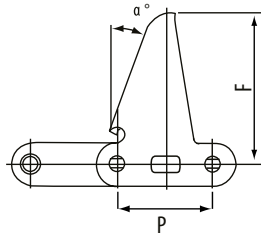
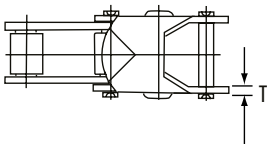


Dimensions in mm

Model Number	P mm	a° mm	T mm	F mm
C2060H	38.10	23°	3.200	63.500

# ATTACHMENTS

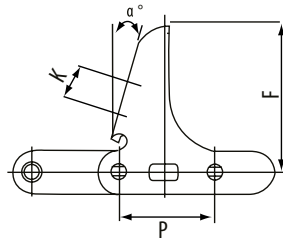
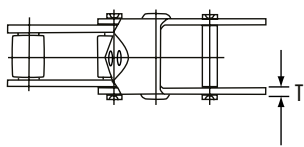
C6E



Dimensions in mm

Model Number	P mm	a° mm	T mm	F mm
CA555	41.40	15°	3.200	63.500

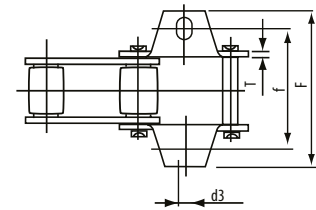
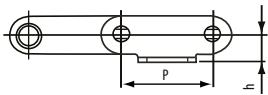
C6E



Dimensions in mm

Model Number	P mm	a° mm	T mm	F mm
CA550	41.40	15°	2.692	55.601

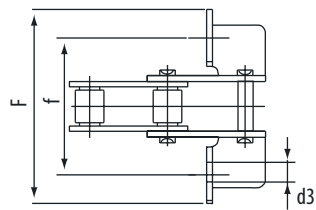
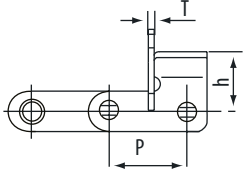
K19



Dimensions in mm

Model Number	P mm	f mm	F mm	h mm	d3 mm	T mm
CA550	41.40	50.800	71.399	12.700	6.756	2.69

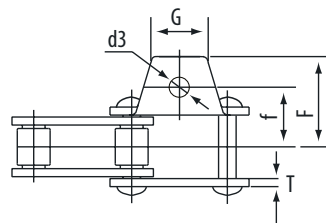
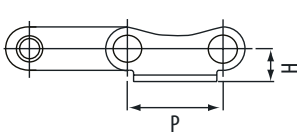
F14/F1



Dimensions in mm

Model Number	P mm	f mm	F mm	h mm	d3 mm	T mm
CA550	41.40	79.400	104.800	31.801	8.306	2.69

A19



Dimensions in mm

Model Number	P mm	f mm	F mm	h mm	G mm	d3 mm	T mm
CA550	41.40	25.400	38.100	12.700	22.200	6.71	2.69

## NOTES

Autorisierter Händler | Distributeur autorisé | Distributore autorizzato | Authorized distributor



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