



# Cast Combination Chains

When your conveyor system demands a tough, abrasion-resistant, moderate cost chain to move heavy materials, Cast Combination Chain from Union is the answer. The sanitation, chemical, paper, fertilizer, and mining industries are just some of the places where this versatile chain is commonly used to move a wide variety of materials.

## Long-Wearing, High-Quality Construction

Cast Combination Chain is made of special pearlitic malleable iron block links and medium carbon steel sidebars and pins. Pearlitic malleable iron is 35% stronger than standard malleable iron, which means longer service life even in the most severe conditions. Holes in the iron block links are accurately sized to provide smooth bearing areas for the pins. Holes in the sidebars are smooth to permit accurate pin fit.

## Cost-Effective Service Life

Excellent service life is achieved by controlling exposure to abrasives through low bearing pressures and by using hard, abrasion-resistant pearlitic iron. This is important if your operation moves materials that can be harsh on metal conveyor parts. Select Union Cast Combination Chain to keep your lines running.

## Cast Combination Components

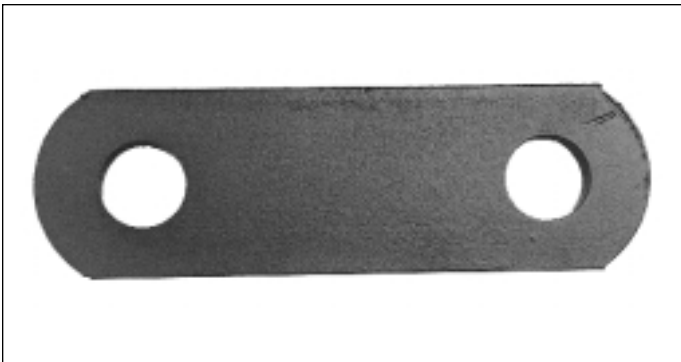
### Wear-Resistant Pins

Pins are made of select steel and through-hardened heat-treated to achieve superior strength. The hardening process creates the ideal combination of high strength and wear resistance. You get economical, effective performance.



### Trouble-Free Sidebars

Sidebars are constructed of medium carbon steel, which meet and exceed strength requirements. This extra strength is especially important to keep the chain running at maximum capacity throughout its service life. Sidebar pitch holes are pierced to exacting specifications to achieve a quality interference fit with pins. This provides rigid pin-link construction for long wear life.



### Tough, Long-Lasting Block Links

Cast Combination Chain block links are constructed of special grade pearlitic malleable iron. Pearlitic malleable iron is selected to provide the proper balance of wear resistance and toughness.

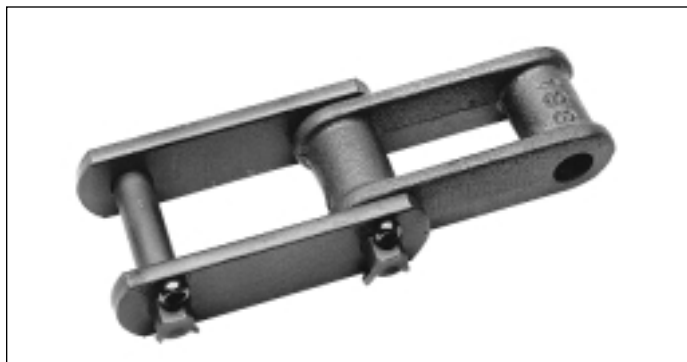




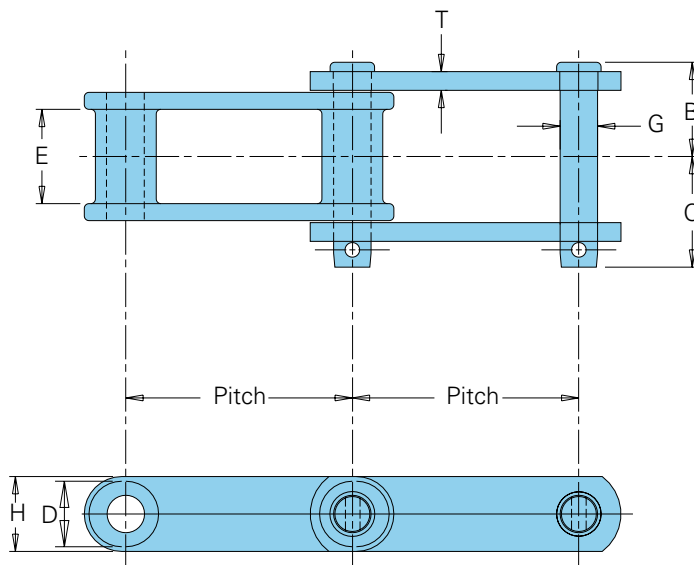
# UNION CHAIN DIVISION - CAST COMBINATION CHAINS

U.S. TSUBAKI

A - ENGINEERING CLASS CHAINS



**Cast Combination Plain Chain**



**Cast Combination Chain Specifications**

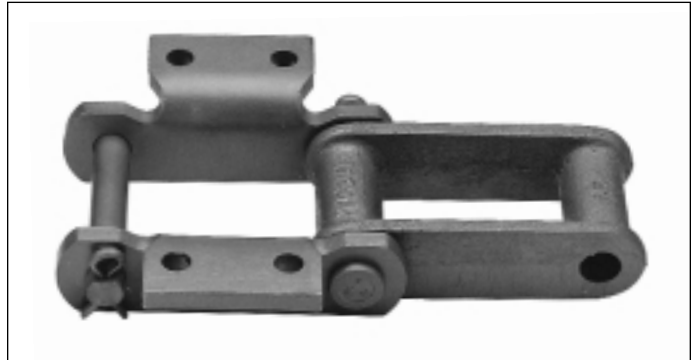
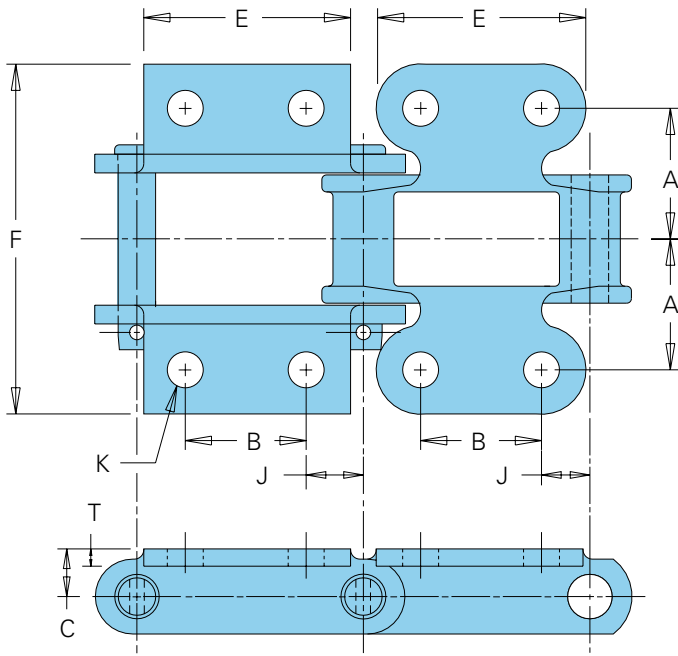
All dimensions are in inches unless otherwise indicated.

Chain Number	Average Ultimate Strength	Working Load	Pitch	Links in Approx. 10 ft.	Dimensions							Approx. Weight (lbs./ft.)
					Pin Head to CL	Pin End to CL	Maximum Allowable Sprocket Face	Pin Dia.	Sidebar Height	Sidebar Thick.	Barrel Dia. Size	
					<b>B</b>	<b>C</b>	<b>E</b>	<b>G</b>	<b>H</b>	<b>T</b>	<b>D</b>	
C-188	17,500	2,340	2.609	46	1.34	1.44	.94	.50	1.13	.25	.88	3.6
C-131	30,000	3,750	3.075	40	1.81	1.88	1.13	.63	1.50	.38	1.25	6.5
C-102B	30,000	5,000	4.000	30	2.19	2.30	2.00	.63	1.50	.38	1.00	6.8
C-111	45,000	7,500	4.760	26	2.59	2.66	2.38	.75	1.75	.38	1.44	9.8
C-110	30,000	5,000	6.000	20	2.19	2.30	1.94	.63	1.50	.38	1.25	6.0
C-132	62,500	10,400	6.050	20	3.22	3.16	3.13	1.00	2.00	.50	1.75	14.5

To locate compatible sprockets for your chain, refer to the Product Cross-Reference in Section D.

Note: Dimensions are subject to change. Contact Union Chain to obtain certified prints for design and construction.

**K-2 Attachment**



**Specifications with K-2 Attachments**

All dimensions are in inches unless otherwise indicated.

Chain Number	Pitch	Dimensions								Approx. Weight <sup>1</sup> (lbs./ft.)
		A	J	E <sup>2</sup>	B	C	F <sup>2</sup>	T	Bolt Diameter K	
C-188	2.609	2.09	.69	2.13	1.25	.81	5.06	.25	.31	4.3/5.4
C-131	3.075	2.06	.78	2.63	1.50	1.06	5.50	.31	.50	7.4/8.7
C-102B	4.000	2.66	1.13	2.75	1.75	1.06	6.63	.25	.38	7.8/9.1
C-111	4.760	3.13	1.22	3.63	2.31	1.13	7.50	.31	.50	11.3/12.7
C-110	6.000	2.66	2.13	3.00	1.75	1.06	6.50	.25	.38	7.3/8.4
C-132	6.050	3.75	1.66	4.13	2.75	1.25	9.06	.38	.50	16.1/17.9

<sup>1</sup>Figure on left represents weight for chain with attachment on sidebar only.  
Figure on right represents weight for chain with attachment on sidebar and center block.

<sup>2</sup>Block link attachment dimensions.

To locate compatible sprockets for your chain, refer to the Product Cross-Reference in Section D.

Note: Dimensions are subject to change. Contact Union Chain to obtain certified prints for design and construction.