



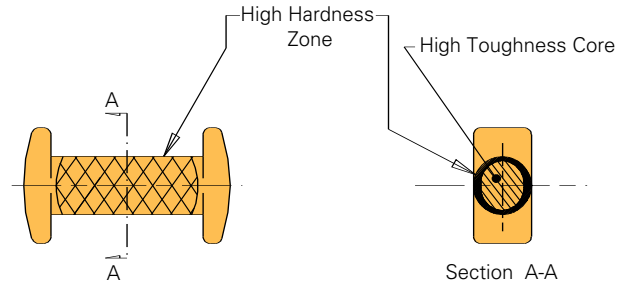
Red Meat Processing

Delrin (Acetal) Bushed Conveyor Chain is used primarily in meat processing and packing plants. Even in these wet, corrosive environments, the Delrin (Acetal) insert eliminates the need for lubrication. These chains feature K-2 attachments; Acetal insert rollers; stainless steel bushings; and electro-galvanized sidebars, pins, and rollers, see page B-33. You get lube-free operation for a clean environment.

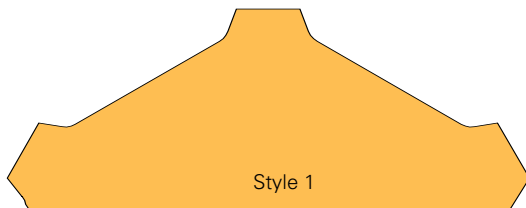
Trolley conveyors and long, complex, overhead conveyor systems such as on the primary processing line in a slaughterhouse require Drop Forged Rivetless Chain, see page B-34. The open joint construction allows for easy washdowns and helps prevent contamination. For extended wear, select Ultra Wear Life-Drop Forged Rivetless Chain, an innovative product that extends wear life of rivetless chain 40 percent or more. This extraordinary performance is achieved with special steels and a proprietary pin hardening process. The result is a pin with a very hard, wear-resistant surface over a ductile core. UWL-Drop Forged Rivetless Chain is available in both X-Style and Barloop Style.

Pay particular attention to the style of sprocket you select and use with Drop Forged Rivetless Chain. Some attachments on overhead slaughterhouse lines, including slider attachments, require additional clearance that is not accounted for in standard sprockets. The Union Chain Division offers sprockets that are specially designed with relief areas to accommodate attachment protrusion, helping the Drop Forged Rivetless Chain to stay in the sprocket and preventing premature chain joint wear.

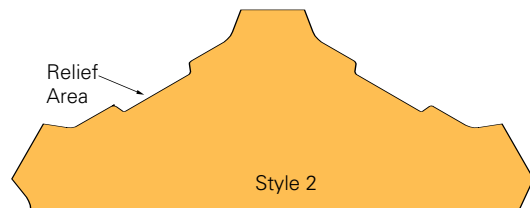
Higher Hardness Pin for "Ultra Wear Life" Performance



B - INDUSTRY APPLICATIONS



Standard sprockets are not designed for some applications like overhead slaughterhouse lines where the attachment requires extra clearance.

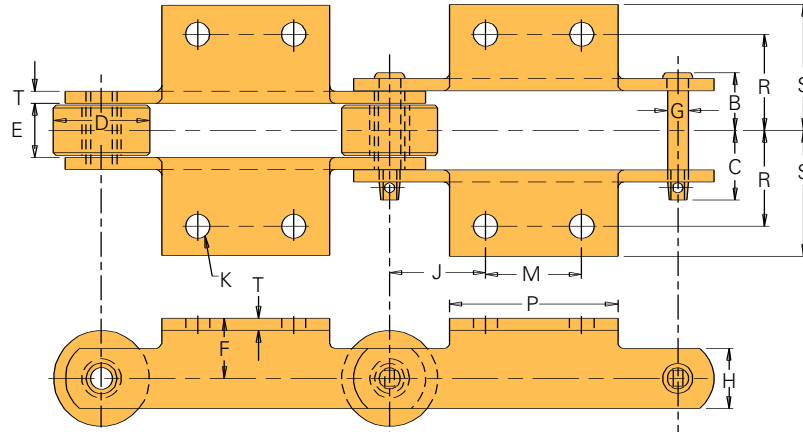


Drop Forged Rivetless Sprockets from the Union Chain Division have a "relief area" that allows for attachment protrusion. This means better articulation and longer wear life.

UNION CHAIN DIVISION - FOOD PROCESSING

U.S. TSUBAKI

Red Meat Processing Chain



B - INDUSTRY APPLICATIONS

Red Meat Processing (DS Series Chains)

All dimensions are in inches unless otherwise indicated.

Chain Number	Pitch	Chain Width			Roller	Pin			Sidebar			Bushing	Attachment							Bolt Dia.	Avg. Ult. Stgth. (lbs.)	Max. Work Load (lbs.)	Approx. Weight (lbs./ft.)
		B	C	E		D	Matl. ²	G	Matl. ²	H	T		Matl. ²	Matl. ²	P	M	J	R	S				
DS-1113 ¹	4.040	1.47	1.75	1.31	2.00	AHT	.63	CHT	1.50	.31	HC	SSHT	2.88	1.50	1.27	2.06	2.77	1.25	.38	26,000	3,150	11.4	
DS-196R	6.000	1.20	1.45	1.13	2.00	CCH	.44	CHT	1.25	.25	HC	SSHT	3.50	2.00	2.00	2.00	2.63	1.25	.38	18,000	1,950	7.5	
DS-6272 ¹	6.000	1.47	1.75	1.31	2.25	PMHT	.63	CHT	1.50	.31	HC	SSHT	3.50	2.00	2.00	2.00	2.64	1.38	.38	26,000	3,150	9.2	

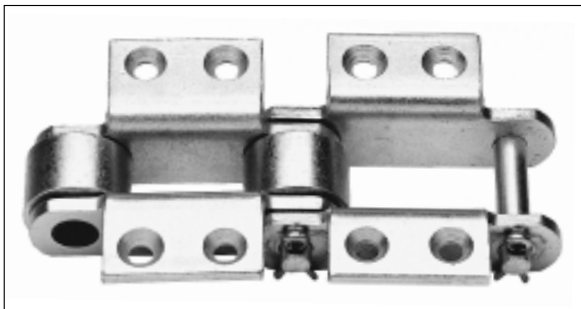
Indicates this chain is normally stocked. All others are made-to-order.

¹DS-1113 and DS-6272 furnished with counter sunk attachment holes.

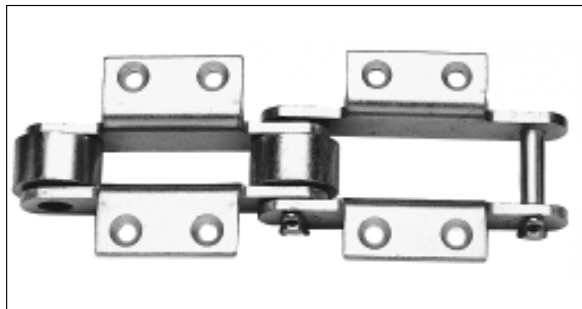
²Material: CCH = Carbon case hardened; CHT = Carbon heat-treated; HC = High carbon; SSHT = Stainless steel heat-treated; AHT= Alloy heat-treated; PMHT= Powdered metal heat-treated.

Notes: DS Series Chains have zinc-plated sidebars, pins, and rollers. The bushings are heat-treated stainless steel.

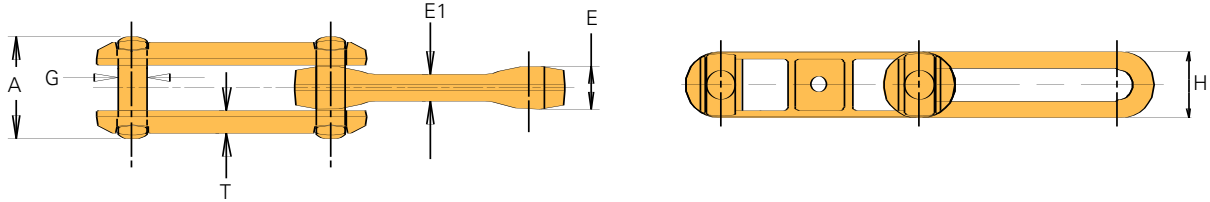
DS-1113 Chain



DS-6272 Chain



X-Style Drop Forged Rivetless Chain



Red Meat Processing (Drop Forged Rivetless Chains)

All dimensions are in inches unless otherwise indicated.

Chain Number	Pitch	Chain Width			Pin Dia.	Sidebars		Average Ultimate Strength (lbs.)		Max. Work Load (lbs.)		Average Pitches (ft.)	Approx. Weight (lbs./ft.)
		Overall	Inside Width			Thickness	Height	Alloy Heat Treated ¹	Heat Treated	Normal	Freq. Flex.		
			A	E									
X-678	6.031	3.03	1.28	.81	.88	.72	2.00	100,000	85,000	7,100	3,300	1.990	6.7

¹ANSI/SAE 8642

B - INDUSTRY APPLICATIONS



UNION CHAIN DIVISION - FOOD PROCESSING

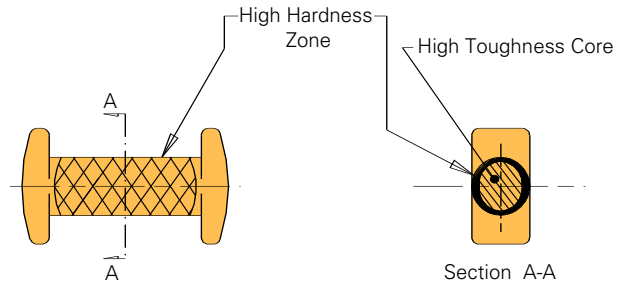
U.S. TSUBAKI

Poultry Processing

We make several types of chains and sprockets that are used extensively in poultry processing. X-Style and Barloop Style Drop Forged Rivetless Chains are used in overhead trolley conveyors, which move birds and drive processing equipment. The links on the Barloop Style are usually connected with a bolt and threaded lock nut for easy assembly and disassembly.

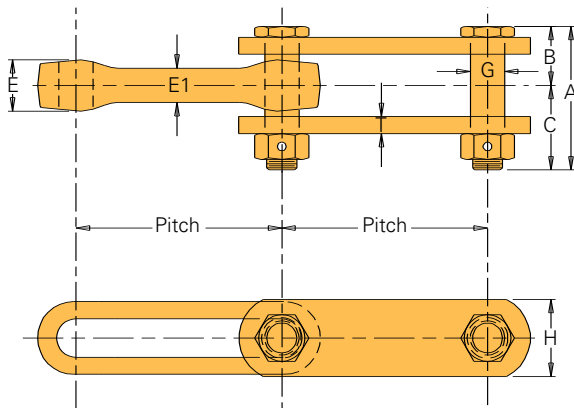
For extended wear, select Ultra Wear Life-Drop Forged Rivetless Chain, an innovative product that extends wear life of rivetless chain 40 percent or more. This extraordinary performance is achieved with special steels and a proprietary pin hardening process. The result is a pin with a very hard, wear-resistant surface over a ductile core. UWL-Drop Forged Rivetless Chain is available in both X-Style and Barloop Style.

Higher Hardness Pin for "Ultra Wear Life" Performance

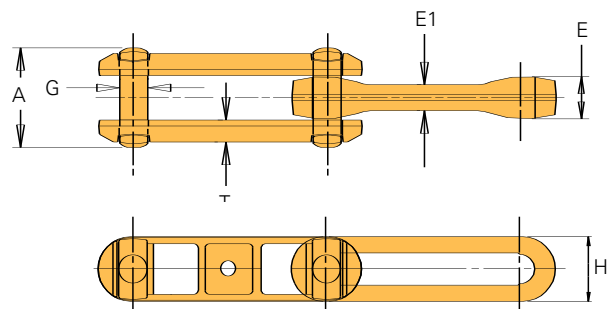


B - INDUSTRY APPLICATIONS

Barloop Chain



X-Style Drop Forged Rivetless Chain



Poultry Processing (Drop Forged Rivetless Chains)

All dimensions are in inches unless otherwise indicated.

Chain Number	Pitch	Chain Width					Pin Dia.	Sidebars			Average Ultimate Strength (lbs.)		Max. Work Load (lbs.)		Average Pitches (ft.)	Approx. Weight (lbs./ft.)
		Overall		Inside Width				Thickness	Height	Alloy Heat Treated ¹	Heat Treated	Normal	Freq. Flex.			
		A	B	C	E	E1								G		
X-348	3.015	1.73			.75	.50	.50	.41	1.09		24,000	2,600	1,200	3.950	2.2	
S-348	3.015	2.09	.86	1.23	.75	.50	.50	.25	1.13		24,000	2,600	1,200	3.950	2.4	
X-458	4.031	2.19			1.00	.63	.63	.47	1.38	60,000	48,000	4,000	1,900	2.980	3.2	

¹ANSI/SAE 8642