

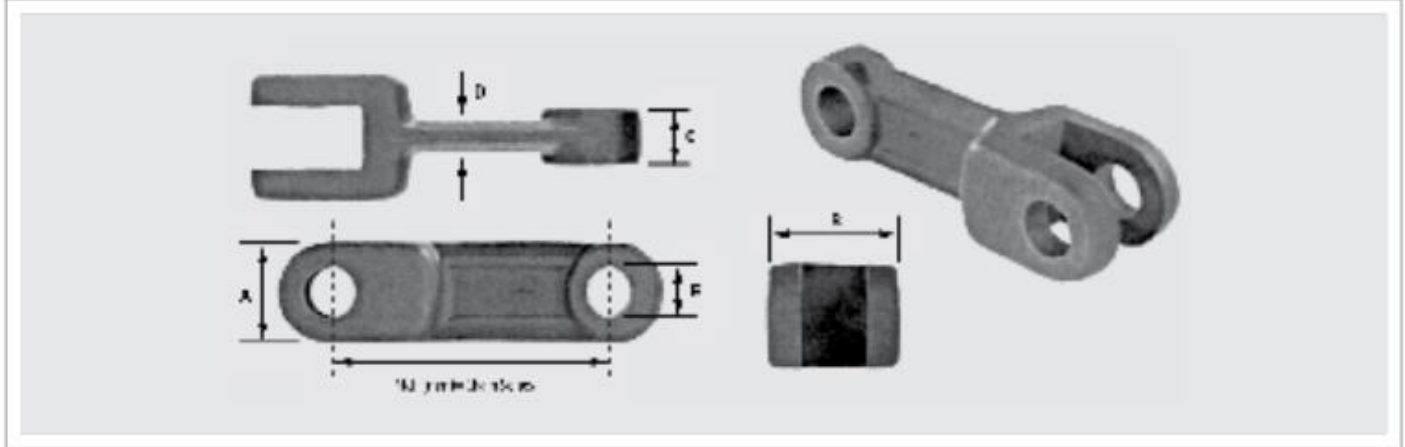
# SUPPLY SERVICES

performance engineering products

## Drop Forged /En-Masse Chains

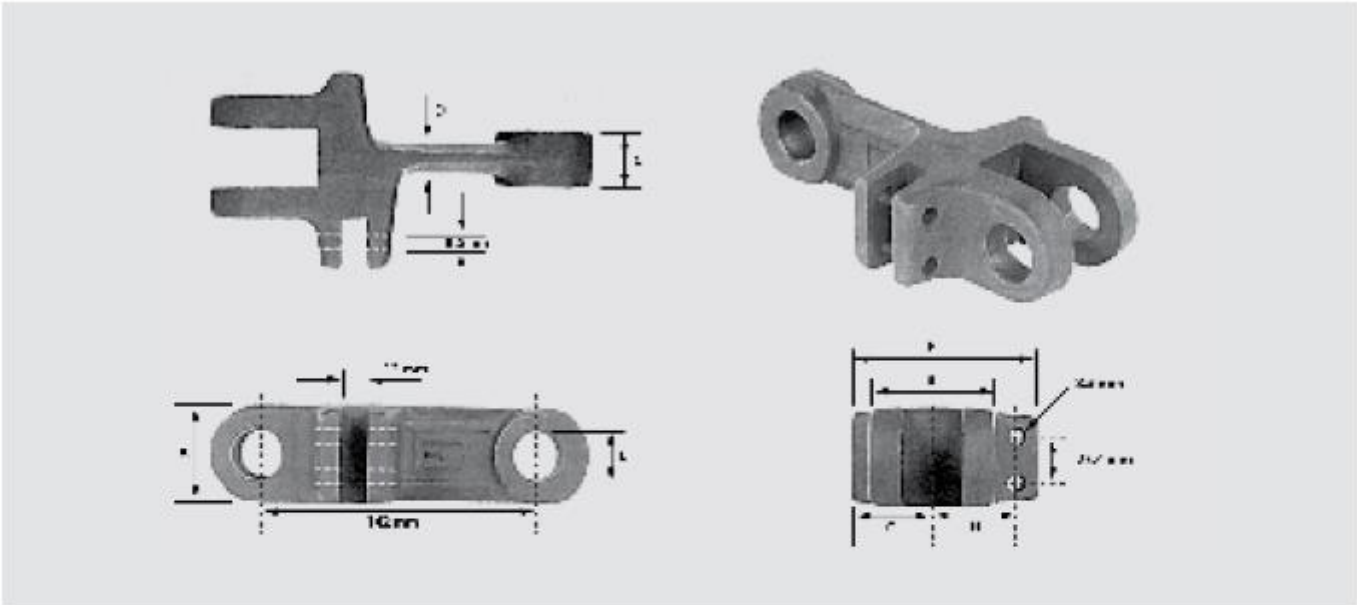
\*Only the most common chains are shown.

### Single Series



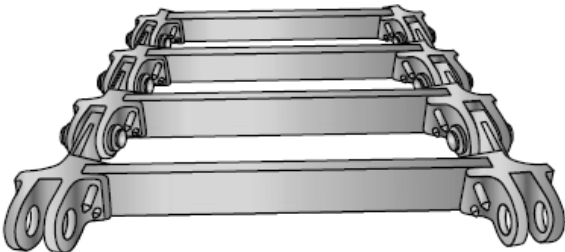
Chain Series	Ultimate Strength	Working Load	Weight						Recommended Sprocket Type
				A	B	C	D	E	
	Lbs	Inches							
102 HVY	38,000	6,900	0.99	1.375	1.260	0.550	0.354	0.709	Symmetrical ONLY
142 STD	73,000	13,000	2.45	1.970	1.650	0.750	0.470	0.980	Symmetrical
142 HVY	99,000	18,000	3.74	1.970	2.440	1.140	0.630	0.980	Symmetrical
142 STD/DBL	73,000	13,000	3.41	See table on page 50 for dimensional					Non-symmetrical
142 HVY/DBL	99,000	18,000	4.72	See table on page 50 for dimensional					Non-symmetrical
260 STD	150,000	27,270	14.00	2.950	2.760	1.180	0.790	1.260	Non-symmetrical

# 142 Double Series



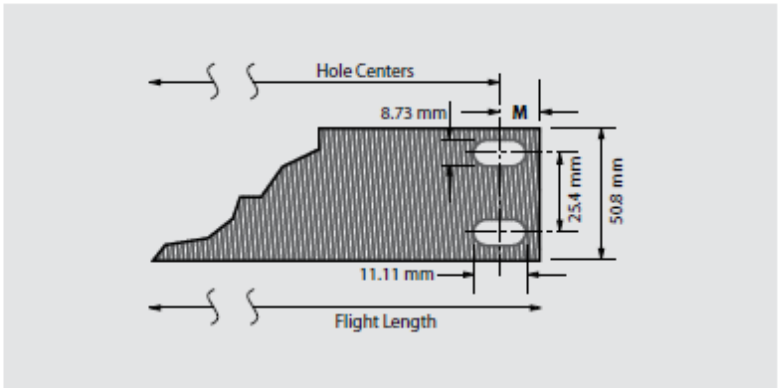
Chain Series	Ultimate Strength	Working Load	Weight								
				A	B	C	D	E	F	G	H
	Lbs			Inches							
142 STD/DBL	73,000	13,000	3.41	1.97	1.65	0.75	0.47	0.98	3.11	1.30	1.41
142 HVY/DBL	99,000	18,000	4.72	1.97	2.44	1.14	0.63	0.98	3.90	1.69	1.71

This chain type requires the use of non-symmetrical sprocket plates.



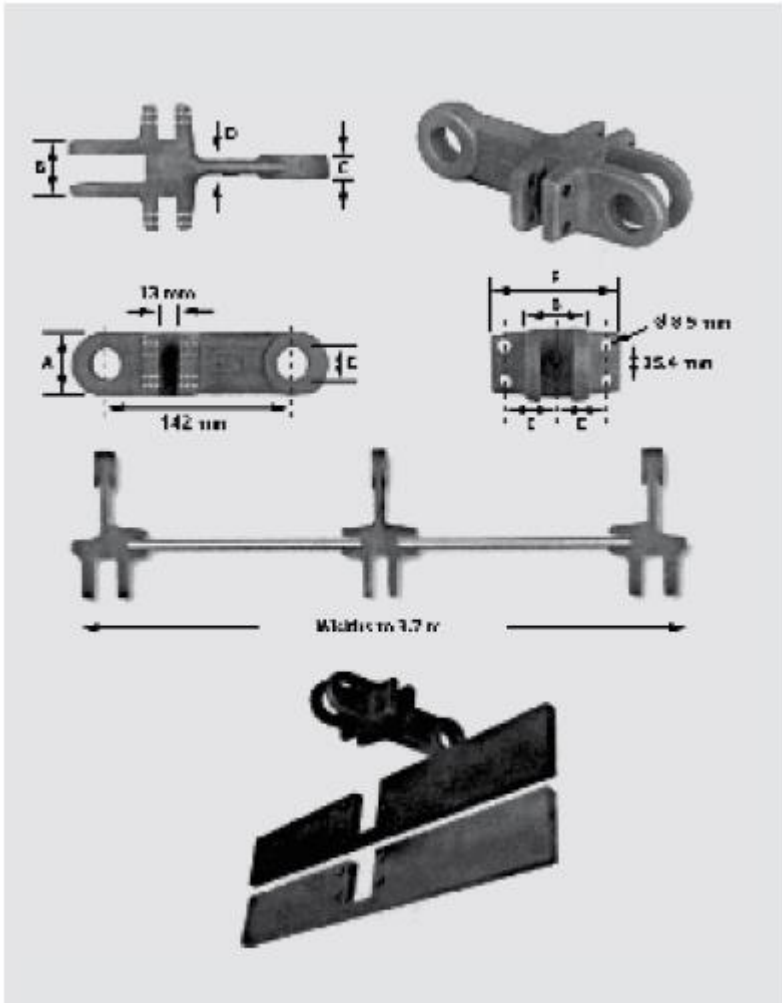
## DOUBLE SERIES FLIGHTS

The DBL-series flight cutaway diagram shows the slots located at each end of the flight, which allow for expansion and contraction during operation. One U-pin connector connects each end of this type of flight to a DBL-series chain link. In applications where the flight operates under unusually heavy loads or extreme widths, a stiffener is welded to the back of the flight for extra stability. Although the U-pin is the most common (and preferred) method of fastening DBL flights, 5/16" (8mm) grade-8 bolts can be substituted.



Chain Style				
	J	K	L	M
Inches				
142 STD/DBL	2.60	4.39	1.06	0.53
142 HVY/DBL	3.38	5.95	0.87	0.43

# 142 Triple Series



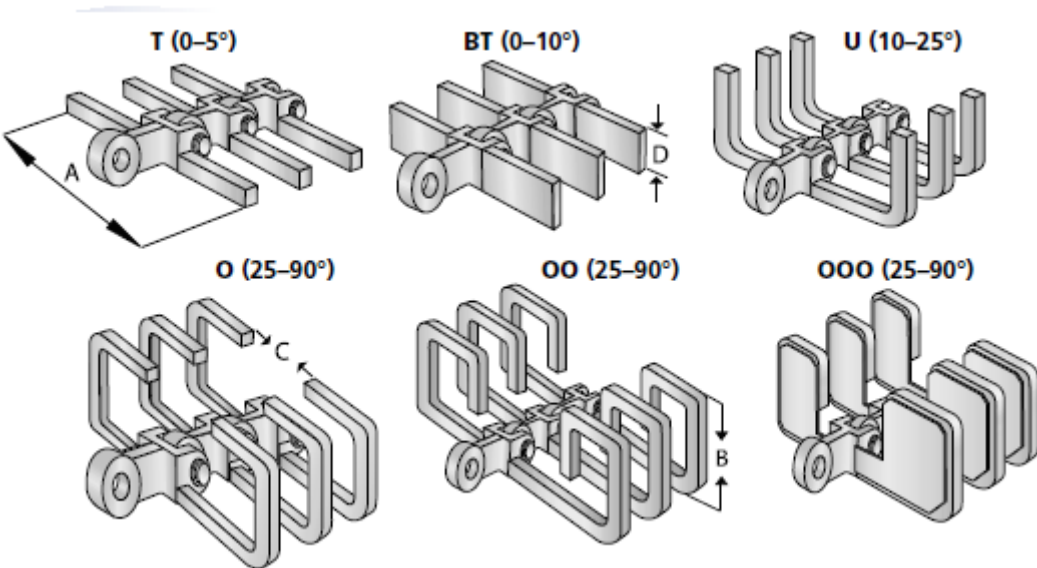
## APPLICATIONS

Typical applications for the triple (TPL) series chains include single-strand flight widths up to 30", and, when used in tandem with DBL series chains (for triple strand widths), flight widths reaching up to 12'-0" (3.7m).

Chain Series	Ultimate Strength	Working Load	Weight						
				A	B	C	D	E	F
				Inches					
142 STD/TPL	73,000	13,000	4.07	1.97	1.65	0.75	0.47	1.41	3.62
142 HVY/TPL	99,000	18,000	5.40	1.97	2.44	1.14	0.63	1.71	4.42

This chain type requires the use of non-symmetrical sprocket plates.

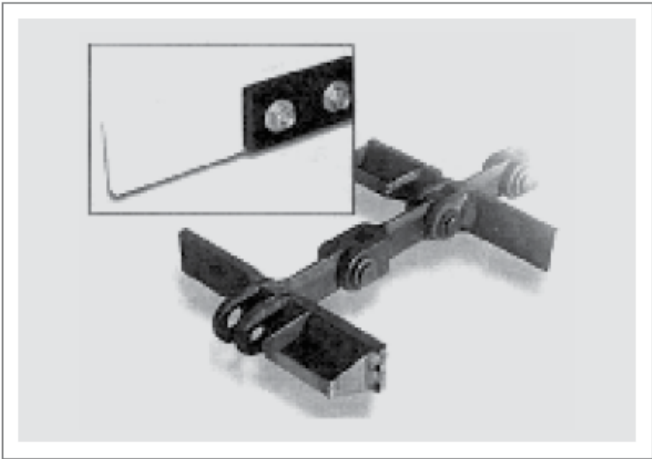
# Flight Types



Chain Series	Conveyor Size	Weight (Flights only*)									
		A	B	C	D	T	BT	U	O	OO	OO*
		Inches				Lbs					
102 Series	10	9.88	4.50	3.00	1.38	—	2.20	—	2.50	2.80	—
	12	11.88	4.50	3.00	1.38	—	2.50	—	2.80	3.10	—
	14	13.88	4.50	3.00	1.38	—	2.80	—	3.30	3.60	—
	16	15.63	4.50	3.00	1.38	—	3.10	—	3.50	3.80	—
142 STD	11	10.94	5.88	4.75	2.00	1.41	2.36	3.10	3.62	4.40	5.62
	15	14.88	7.56	5.50	2.00	2.04	3.41	4.30	5.45	6.80	9.38
	19	18.81	10.00	6.25	2.00	2.72	4.45	5.65	7.16	9.27	14.07
	25	24.69	10.00	6.25	2.00	3.60	6.01	6.60	9.07	11.25	18.19
	30	29.81	10.00	6.25	2.00	4.43	7.39	7.44	10.66	12.90	21.67

## DESIGNATING FLIGHTS:

BT-1 Flight every link  
BT-2 Flight every 2nd link, etc.



## APPLICATIONS

The flights illustrated above represent the most frequently demanded designs in the industry and are by no means the only styles available. The T and BT style flights are used for horizontal through slight incline applications, normally between 0 to 10°, while the U flight can be used for horizontal/incline combinations through approximately 25°. The Modified BT, O, OO, and OOO with filler plates are utilized in horizontal/inclined applications through 90° (vertical).

## TECHNICAL DATA

The flight configurations represented above can handle the majority of your material handling requirements. The letter designator represents the style of the flight, while the number designates its frequency among links.