





ENGINEERED TO EXCEL MANUFACTURED TO EXCEED

Webster Apron Chains are available in standard or leakproof designs in a variety of widths, pitches, pan styles and thicknesses.

For a multitude of applications, Webster Apron Chains are engineered to handle a variety of materials, including hot, abrasive, dry or fine substances. Pans are designed to absorb the impact of large lumps, repetitive loading, and incline conveying. Beaded pans minimize spillage and material degradation, resulting in cleaner disharge.

MATERIAL

Sidebars and pins can be furnished, with additional heat treatment on request. Pins are thru-hardened alloy steel for increased wear resistance. Bushings are furnished in case-hardened steel to provide maximum wear resistance and chain life. Rollers are furnished in WEBLOY, and provide a grease reservoir and lubrication fittings when internal greasing is required. Pans are mild steel. Sidebars are medium-carbon steel.

ASSEMBLY

Apron Conveyor Chains are cottered construction.

INTERCHANGEABILITY

Apron Conveyor Chains are interchangeable with other standard products of corresponding sizes and numbers.

APPLICATION

Aprons are used in conveyors and feeders where the most difficult operating conditions are present. The

rollers provide lower operating friction, increasing chain life and reducing conveyor design requirements.

OPERATION

Apron Conveyors are best suited for slow-or moderate-speed applications. Maximum chain speed depends upon size of sprockets.

For Conveyor Service see Table 2,Section A, Webster Master Catalog #400.

PAN OPTIONS



STYLE Z



STYLE A



STYLE AD



STYLE B



STYLE C







PIN OPTIONS

Webster's burnished sidebar pin holes gives our pins up to 95% press fit. Pins are thru-hardened allow steel for increased wear resistance. Pins are drilled for cotter construction with drilled for lubrication fitting options. Different pin materials and coatings are available to combat premature wear in tough environments.

PIN WITH RECESSED FITTING

Pin is drilled for recessed alemite grease fitting. Protects against catch points and allows for a consistent lubrication location throughout the chain.

PIN WITH FLUSH FITTING

Pin is drilled for alemite grease fitting. Lubrication point is external to the chain pin and allows for a consistent lubrication throughout the chain.







ROLLER OPTIONS

SINGLE FLANGED WEBLOY PLAIN ROLLER

Single flanged Webloy roller are 360BHN minimum through hardened as standard. Rollers can be heat treated up to 525 BHN for severe wear applications. These rollers are poured in Webster's malleable iron foundry.

TWO SINGLE ROW BALL BEARINGS WITH AN OUTBOARD BUSHING

Machined steel or cast outboard roller assembly equipped with a heat treated stub-shaft and outboard bushings. Two single row ball bearings in the rollers are available with high temperature options. These roller assemblies are commonly used midpitch of the chain sidebar.

SEALED OUTBOARD ROLLER

Machined steel outboard roller assemblies sealed to keep contaminates external to the roller. Two single row ball bearings are protected by internal seals to maximize bearing life. A grease fitting is located on the face of the roller for ease of lubrication.







CHAIN DIMENSIONS

			Detail				General Di	mensions		Pins	Side	ebars		Rolle	rs
Chain	Average Pitch	Average Ultimate Strength in Lbs. Per	Rated Working Load in Lbs.☆ Per	Fric Facto	tion or (f _r)	Inside Sidebars	Outside Sidebars	୍ୟTo Cotter End	୍ୟTo Head or Rivet End	Dia.	Thk.	Height	Tread Dia.	Tread Width	⊕ Chain To Wheel Ga.
No.	Inches	Strand	Strand	Dry	Lubed	W	W ¹	К	J	D	Т	U	Н	Α	L
RS658F	6.000	30,000	4,650	0.17	0.12	15%	2 ¹¹ / ₁₆	1 ²⁷ /32	117/32	5/8	1/4	2	3	11/8	3⁄8
RS622F	6.000	50,000	7,200	0.16	0.11	2	3 ⁹ ⁄16	2 ⁹ / ₃₂	2 ¹ / ₃₂	3⁄4	3/8	2	3 ½	15/16	7/16
RS922F	9.000	50,000	7,200	0.16	0.11	2	3 ⁹ ⁄16	2 ⁹ / ₃₂	2 ¹ / ₃₂	3⁄4	3/8	2	3 ½	15/16	7/16
RS933F	9.000	56,000	9,200	0.16	0.11	21⁄4	3 ¹³ ⁄16	2 ¹⁵ / ₃₂	2 ⁵ / ₃₂	7/8	3/8	2 ¹ / ₂	4	1%16	17/32
RS944F	9.000	90,000	12,700	0.14	0.10	25%	4 ¹¹ / ₁₆	2 ²⁷ / ₃₂	2 ¹⁹ / ₃₂	1	1/2	2 ¹ / ₂	5	1¾	19/32
RS1222F	12.000	50,000	7,200	0.16	0.11	2	3 %16	2 ⁹ / ₃₂	2 ¹ / ₃₂	3⁄4	3/8	2	3 ½	15/16	7/16
RS1233F	12.000	56,000	9,200	0.16	0.11	21⁄4	3 ¹³ ⁄16	2 ¹⁵ / ₃₂	2 ⁵ / ₃₂	7/8	3/8	2 ¹ / ₂	4	1%16	17/32
RS1244F	12.000	90,000	12,700	0.14	0.10	25/8	4 ¹¹ / ₁₆	2 ²⁷ / ₃₂	2 ¹⁹ / ₃₂	1	1/2	21/2	5	13/4	19/32



WITH STYLE A1 PANS

PAN CAPACITIES, WEIGHTS AND DIMENSIONS

	Average		Capacity		Nomina	Weight Lbs I Pan Widt	s. h = 1'-0"	Add For Foob			
Chain	Pitch	[Dimension	С	[Dimension	С	Additional 1'-0"		Dimension	s
No.	Inches	4	5	6	4	5	6	Width in Lbs.	G	В	М
		9.2	13.2	17.2	38	42	45	11.0	3/16	15/16	3/16
DCCEOE	6 000	9.2	13.2	17.2	41	45	48	14.5	1/4	13/8	3/16
поорог	0.000	8.6	12.6	16.6	45	49	52	18.0	5/16	11/16	3/16
		8.6	12.6	16.6	48	52	55	21.0	3/8	11/2	3⁄16
		9.2	13.2	17.2	52	56	60	11.0	³ /16	1 ⁵ ⁄16	3/16
DCCODE	6 000	9.2	13.2	17.2	56	59	64	14.5	1/4	13/8	3⁄16
n3022F	0.000	8.6	12.6	16.6	59	63	67	18.0	5⁄16	11/16	3⁄16
		8.6	12.6	16.6	62	66	70	21.0	3/8	11/2	³ ⁄16
		10.0	14.0	18.0	43	47	50	10.0	³ ⁄16	1 ⁵ ⁄16	—
DC022E	0.000	10.0	14.0	18.0	47	50	53	13.0	1/4	13/8	—
NOUZE	9.000	8.1	12.1	16.1	51	54	58	18.0	5/16	2 ¹ / ₈	—
		8.1	12.1	16.1	54	58	61	21.0	3/8	2 ³ / ₁₆	—
		9.0	13.0	17.0	50	54	57	10.0	³ ⁄16	1 ⁵ ⁄16	—
DC022E	0.000	9.0	13.0	17.0	53	57	60	13.0	1⁄4	13⁄8	—
nosoor	9.000	7.1	11.1	15.1	58	61	65	18.0	5⁄16	21/8	—
		7.1	11.1	15.1	61	65	68	21.0	3⁄8	2 ³ ⁄16	—
		9.0	13.0	17.0	71	75	80	10.0	³ ⁄16	1 ⁵ ⁄16	—
BCONE	0 000	9.0	13.0	17.0	74	78	83	13.0	1⁄4	1¾	—
1133441	5.000	7.1	11.1	15.1	78	83	87	18.0	5⁄16	21/8	—
		7.1	11.1	15.1	81	86	91	21.0	3/8	2 ³ /16	—
BC1222E	12 000	8.7	12.7	16.7	46	49	53	17.0	5⁄16	21/8	—
noizzzr	12.000	8.7	12.7	16.7	50	53	57	20.5	3⁄8	2 ³ ⁄16	—
BC1222E	12 000	7.7	11.7	15.7	52	55	58	17.0	5⁄16	21/8	—
101200F	12.000	7.7	11.7	15.7	56	59	62	20.5	3⁄8	2 ³ ⁄16	—
BC1244E	12 000	7.7	11.7	15.7	68	72	77	17.0	5⁄16	21/8	—
no1244F	12.000	7.7	11.7	15.7	72	76	81	20.5	3/8	2 ³ / ₁₆	—

NOTE: Capacity is in cubic feet per hour for a pan 1'-0" wide (80% full) traveling at 1'-0" per minute.

WITH STYLE AD PANS



CHAIN DIMENSIONS

			Detail			(General Di	mensions		Pins	Side	ebars		Rolle	rs
Chain	Average Pitch	Average Ultimate Strength in Lbs. Per	Rated Working Load in Lbs.☆ Per	Fric Facto	tion or (f _r)	Inside Sidebars	Outside Sidebars	୍ୟTo Cotter End	୍ୟTo Head or Rivet End	Dia.	Thk.	Height	Tread Dia.	Tread Width	[©] Chain To Wheel Ga.
No.	Inches	Strand	Strand	Dry	Lubed	W	W ¹	К	J	D	Т	U	Н	Α	L
RS658F	6.000	30,000	4,650	0.17	0.12	1%	2 ¹¹ / ₁₆	1 ²⁷ /32	1 ¹⁷ / ₃₂	5⁄8	1⁄4	2	3	11/8	3/8
RS622F	6.000	50,000	7,200	0.16	0.11	2	3 %16	2 ⁹ / ₃₂	2 ¹ / ₃₂	3⁄4	3/8	2	31/2	15/16	7⁄16
RS922F	9.000	50,000	7,200	0.16	0.11	2	3 %16	2 ⁹ / ₃₂	2 ¹ / ₃₂	3⁄4	3/8	2	31/2	15/16	7⁄16
RS933F	9.000	56,000	9,200	0.16	0.11	21⁄4	3 ¹³ ⁄16	2 ¹⁵ / ₃₂	2 5⁄32	7⁄8	3/8	21/2	4	1%16	17/32
RS944F	9.000	90,000	12,700	0.14	0.10	25/8	4 ¹¹ / ₁₆	2 ²⁷ / ₃₂	2 ¹⁹ / ₃₂	1	1/2	21/2	5	13⁄4	¹⁹ / ₃₂
RS1222F	12.000	50,000	7,200	0.16	0.11	2	3 %16	2 ⁹ ⁄ ₃₂	2 ¹ / ₃₂	3⁄4	3/8	2	31⁄2	15/16	7⁄16
RS1233F	12.000	56,000	9,200	0.16	0.11	21/4	3 ¹³ / ₁₆	2 ¹⁵ / ₃₂	2 ⁵ / ₃₂	7⁄8	3/8	21/2	4	1%16	17/32
RS1244F	12.000	90,000	12,700	0.14	0.10	25/8	4 ¹¹ / ₁₆	2 ²⁷ / ₃₂	2 ¹⁹ / ₃₂	1	1/2	21/2	5	13⁄4	¹⁹ / ₃₂



WITH STYLE AD PANS

PAN CAPACITIES, WEIGHTS AND DIMENSIONS

	Avorago		Capacity		Nomina	Weight Lbs I Pan Widt	s. h = 1'-0"	Add For Foob			
Chain	Pitch	[Dimension	C	[Dimension	C	Additional 1'-0"		Dimension	s
No.	Inches	4	5	6	4	5	6	Width in Lbs.	G	В	М
		12.0	16.0	20.0	39	43	46	12.0	3⁄16	11/8	3/4
DOCEDE	c 000	12.0	16.0	20.0	43	47	50	16.0	1/4	1 ³ ⁄16	3/4
N3030F	0.000	10.4	14.4	18.4	48	50	53	21.0	5/16	11/2	7⁄8
		10.4	14.4	18.4	52	54	57	25.0	3/8	1%16	7⁄8
		12.0	16.0	20.0	53	57	59	12.0	³ ⁄16	11/8	3⁄4
DCCODE	6 000	12.0	16.0	20.0	57	61	63	16.0	1/4	1 ³ ⁄16	3/4
n3022F	0.000	10.4	14.4	18.4	62	66	70	21.0	5/16	11/2	7⁄8
		10.4	14.4	18.4	66	70	74	25.0	3/8	1%16	7⁄8
		12.8	16.8	20.8	44	48	51	11.0	3/16	1 ¹ ⁄ ₄	1
DC022E	0.000	12.8	16.8	20.8	48	51	55	14.5	1/4	1 ⁵ ⁄16	1
NOUZE	9.000	11.0	15.0	19.0	53	57	60	20.0	5/16	11/8	11/8
		11.0	15.0	19.0	57	61	64	24.0	3/8	1 ¹⁵ /16	11/8
		11.8	15.8	19.8	51	55	58	11.0	3/16	11/4	1
DC022E	0.000	11.8	15.8	19.8	55	58	61	14.5	1/4	1 ⁵ ⁄16	1
повоог	9.000	10.0	14.0	18.0	60	64	67	20.0	5⁄16	11/8	11/8
		10.0	14.0	18.0	64	68	71	24.0	3/8	1 ¹⁵ / ₁₆	1 1/8
		11.8	15.8	19.8	72	76	80	11.0	³ ⁄16	11⁄4	1
DCOALE	0.000	11.8	15.8	19.8	75	79	84	14.5	1⁄4	1 5⁄16	1
N3344F	9.000	10.0	14.0	18.0	81	85	90	20.0	5⁄16	11/8	1½
		10.0	14.0	18.0	84	89	94	24.0	3/8	1 ¹⁵ ⁄16	11/8
		13.8	17.8	21.8	40	43	46	10.0	³ ⁄16	13⁄8	11⁄4
DC1000E	12 000	13.8	17.8	21.8	43	46	49	13.5	1⁄4	11/16	1¼
11312221	12.000	12.7	16.7	20.7	47	50	53	18.0	5⁄16	1¾	1½
		12.7	16.7	20.7	51	54	57	21.5	3/8	1 ¹³ ⁄16	1½
		12.8	16.8	20.8	45	48	51	10.0	³ ⁄16	13⁄8	11⁄4
BC1222E	12 000	12.8	16.8	20.8	48	51	54	13.5	1⁄4	11/16	1¼
NO 1200F	12.000	11.7	15.7	19.7	52	55	58	18.0	5⁄16	13⁄4	11/2
		11.7	15.7	19.7	56	59	62	21.5	3⁄8	1 ¹³ /16	1½
		12.8	16.8	20.8	62	66	70	10.0	3⁄16	13/8	11/4
R\$1244E	12 000	12.8	16.8	20.8	65	69	73	13.5	1⁄4	11/16	11/4
n31244F	12.000	11.7	15.7	19.7	69	73	77	18.0	5/16	13⁄4	11/2
		11.7	15.7	19.7	73	77	81	21.5	3/8	1 ¹³ /16	1½

NOTE: Capacity is in cubic feet per hour for a pan 1'-0" wide (80% full) traveling at 1'-0" per minute.

WITH STYLE Z PANS



CHAIN DIMENSIONS

			D (1				General Di	mensions		Pins	Side	ebars		Rolle	rs
Chain	Average Pitch	Average Ultimate Strength in Lbs. Per	Kated Working Load in Lbs.☆ Per	Fric Facto	tion or (f _r)	Inside Sidebars	Outside Sidebars	ଦ୍ଧ To Cotter End	€ To Head or Rivet End	Dia.	Thk.	Height	Tread Dia.	Tread Width	 ♥ Chain To Wheel Ga.
No.	Inches	Strand	Strand	Dry	Lubed	W	W ¹	К	J	D	Т	U	Н	Α	L
RS658F	6.000	30,000	4,650	0.17	0.12	1%	2 ¹¹ / ₁₆	1 ²⁷ /32	1 ¹⁷ / ₃₂	5/8	1⁄4	2	3	11/%	3/8
RS622F	6.000	50,000	7,200	0.16	0.11	2	3 ⁹ ⁄16	2 ⁹ / ₃₂	2 ¹ / ₃₂	3⁄4	3⁄8	2	3 ½	15⁄16	7⁄16
RS922F	9.000	50,000	7,200	0.16	0.11	2	3 ⁹ ⁄16	2 ⁹ / ₃₂	2 ¹ / ₃₂	3⁄4	3⁄8	2	3 ½	15⁄16	7⁄16
RS933F	9.000	56,000	9,200	0.16	0.11	21⁄4	3 ¹³ ⁄16	2 ¹⁵ / ₃₂	2 ⁵ / ₃₂	7∕8	3/8	2 ½	4	1%16	17/32
RS944F	9.000	90,000	12,700	0.14	0.10	25%	4 ¹¹ / ₁₆	2 ²⁷ / ₃₂	2 ¹⁹ / ₃₂	1	1/2	21/2	5	1¾	¹⁹ / ₃₂
RS1222F	12.000	50,000	7,200	0.16	0.11	2	3 %16	2 ⁹ ⁄ ₃₂	2 ¹ / ₃₂	3⁄4	3/8	2	31/2	15/16	7/16
RS1233F	12.000	56,000	9,200	0.16	0.11	21/4	3 ¹³ /16	2 ¹⁵ / ₃₂	2 ⁵ / ₃₂	7/8	3/8	21/2	4	1%16	17/32
RS1244F	12.000	90,000	12,700	0.14	0.10	25%	4 ¹¹ / ₁₆	2 ²⁷ /32	2 ¹⁹ / ₃₂	1	1/2	21/2	5	13/4	19/32

Subject to Service Factor Table 9 and Speed Factor Table 11, Section A, in Webster #400 Master Catalog.

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WITH STYLE Z PANS

PAN CAPACITIES, WEIGHTS AND DIMENSIONS

	Average		Capacity		Nomina	Weight Lbs I Pan Widt	s. h = 1'-0"	Add For Foob			
Chain	Pitch	[Dimension	С	[Dimension	С	Additional 1'-0"		Dimension	s
No.	Inches	4	5	6	4	5	6	Width in Lbs.	G	В	М
DCCEOE	6 000	10.8	14.8	18.8	39	41	44	12.0	3/16	1 ³ ⁄16	¹⁵ ⁄16
N3030F	0.000	10.8	14.8	18.8	42	45	47	16.0	1⁄4	1¼	¹⁵ ⁄16
DCCODE	6 000	10.8	14.8	18.8	53	57	61	12.0	3⁄16	1 ³ ⁄16	¹⁵ ⁄16
nouzzr	0.000	10.8	14.8	18.8	57	60	64	16.0	1⁄4	1¼	¹⁵ ⁄16
		10.3	14.3	18.3	45	48	51	11.0	3⁄16	1¼	3⁄4
BC022E	0 000	10.3	14.3	18.3	48	51	55	14.5	1⁄4	1 5⁄16	3⁄4
NOJZZE	9.000	10.0	14.0	18.0	53	56	60	19.5	5⁄16	1 ¹¹ / ₁₆	1¼
		10.0	14.0	18.0	57	60	63	23.0	3⁄8	1¾	1¼
		9.3	13.3	17.3	51	55	56	11.0	3/16	1¼	3⁄4
DC022E	0.000	9.3	13.3	17.3	55	58	60	14.5	1⁄4	1 5⁄16	3⁄4
noboor	9.000	9.0	13.0	17.0	60	63	66	19.5	5⁄16	1 ¹¹ / ₁₆	11⁄4
		9.0	13.0	17.0	63	67	70	23.0	3⁄8	1¾	11⁄4
		9.3	13.3	17.3	72	76	81	11.0	3⁄16	1¼	3⁄4
DC044E	0.000	9.3	13.3	17.3	75	79	84	14.5	1/4	1 ⁵ ⁄16	3/4
N3944F	9.000	9.0	13.0	17.0	80	85	89	19.5	5⁄16	1 ¹¹ / ₁₆	11⁄4
		9.0	13.0	17.0	84	88	93	23.0	3⁄8	1¾	1¼
BC1222E	12 000	9.3	13.3	17.3	50	52	56	20.5	5⁄16	1 ³ ⁄4	1
11312221	12.000	9.3	13.3	17.3	54	56	60	24.0	3⁄8	1 ¹³ ⁄16	1
BC1222E	12 000	8.3	12.3	16.3	55	58	61	20.5	5⁄16	1¾	1
1012005	12.000	8.3	12.3	16.3	59	62	65	24.0	3⁄8	1 ¹³ / ₁₆	1
DC1244E	12 000	8.3	12.3	16.3	72	76	80	20.5	5⁄16	13⁄4	1
1131244F	12.000	8.3	12.3	16.3	76	80	84	24.0	3/8	1 ¹³ / ₁₆	1

NOTE: Capacity is in cubic feet per hour for a pan 1'-0" wide (80% full) traveling at 1'-0" per minute.





CHAIN DIMENSIONS

			Detail			(General Di	mensions		Pins	Side	ebars		Rolle	rs
Chain	Average Pitch	Average Ultimate Strength in Lbs. Per	Rated Working Load in Lbs.☆ Per	Fric Facto	stion or (f _r)	Inside Sidebars	Outside Sidebars	⊕ To Cotter End	ଦ୍ର To Head or Rivet End	Dia.	Thk.	Height	Tread Dia.	Tread Width	[©] Chain To Wheel Ga.
No.	Inches	Strand	Strand	Dry	Lubed	W	W ¹	К	J	D	Т	U	H	Α	L
RS658F	6.000	30,000	4,650	0.17	0.12	1%	2 ¹¹ / ₁₆	1 ²⁷ /32	1 ¹⁷ / ₃₂	5/8	1⁄4	2	3	11/%	3/8
RS622F	6.000	50,000	7,200	0.16	0.11	2	3 %16	2 ⁹ / ₃₂	2 ¹ / ₃₂	3⁄4	3/8	2	3 ½	15⁄16	7⁄16
RS922F	9.000	50,000	7,200	0.16	0.11	2	3 ⁹ ⁄16	2 ⁹ / ₃₂	2 ¹ / ₃₂	3⁄4	3/8	2	3 ½	15⁄16	7/16
RS933F	9.000	56,000	9,200	0.16	0.11	21⁄4	3 ¹³ ⁄16	2 ¹⁵ / ₃₂	2 5⁄32	7/8	3/8	2 ½	4	1%16	17/32
RS944F	9.000	90,000	12,700	0.14	0.10	25%	4 ¹¹ / ₁₆	2 ²⁷ / ₃₂	2 ¹⁹ / ₃₂	1	1/2	21/2	5	1¾	19/32
RS1222F	12.000	50,000	7,200	0.16	0.11	2	3%16	2 %2	2 ¹ / ₃₂	3⁄4	3/8	2	31/2	15/16	7/16
RS1233F	12.000	56,000	9,200	0.16	0.11	21/4	3 ¹³ /16	2 ¹⁵ / ₃₂	2 ⁵ / ₃₂	7⁄8	3/8	21/2	4	1%16	17/32
RS1244F	12.000	90,000	12,700	0.14	0.10	25⁄8	4 ¹¹ / ₁₆	2 ²⁷ / ₃₂	2 ¹⁹ / ₃₂	1	1/2	21/2	5	1¾	19/32



WITH STYLE B PANS

PAN CAPACITIES, WEIGHTS AND DIMENSIONS

	A		Capacity		Nomina	Weight Lbs I Pan Widt	s. h = 1'-0"	Add Fay Fach			
Chain	Pitch	[Dimension	С	0	Dimension	С	Additional 1'-0"		Dimension	s
No.	Inches	4	5	6	4	5	6	Width in Lbs.	G	В	М
DOCEOE	6.000	10.8	14.8	18.8	38	40	43	11.0	3⁄16	1 ³ ⁄16	¹⁵ ⁄16
N3030F	0.000	10.8	14.8	18.8	41	44	46	15.0	1/4	11/4	¹⁵ /16
Deepor	6.000	10.8	14.8	18.8	52	56	60	11.0	3⁄16	1 ³ ⁄16	15/16
n 3022F	0.000	10.8	14.8	18.8	56	59	63	15.0	1/4	11/4	¹⁵ /16
		10.3	14.3	18.3	44	47	50	10.0	3/16	11/4	3/4
DC022E	0.000	10.3	14.3	18.3	47	50	54	13.5	1/4	15/16	3/4
I NOUZZF	9.000	10.0	14.0	18.0	52	55	59	18.5	5/16	1 ¹¹ / ₁₆	11/4
		10.0	14.0	18.0	56	59	62	22.0	3/8	1¾	11/4
		9.3	13.3	17.3	50	54	55	10.0	3/16	11/4	3⁄4
DC022E	0.000	9.3	13.3	17.3	54	57	59	13.5	1/4	15/16	3⁄4
N0933F	9.000	9.0	13.0	17.0	59	62	65	18.5	5/16	1 ¹¹ / ₁₆	11/4
		9.0	13.0	17.0	62	66	69	22.0	3/8	1¾	11/4
		9.3	13.3	17.3	71	75	80	10.0	3⁄16	11/4	3⁄4
DOUVE	0.000	9.3	13.3	17.3	74	78	83	13.5	1/4	1 ⁵ ⁄16	3⁄4
n3944r	9.000	9.0	13.0	17.0	79	84	88	18.5	5/16	1 ¹¹ / ₁₆	11/4
		9.0	13.0	17.0	83	87	92	22.0	3/8	1¾	11⁄4
DC1000E	12 000	9.3	13.3	17.3	49	51	55	19.5	5/16	1¾	1
no1222F	12.000	9.3	13.3	17.3	53	55	59	23.0	3/8	1 ¹³ ⁄16	1
DC10005	12 000	8.3	12.3	16.3	54	57	60	19.5	5/16	13⁄4	1
1012005	12.000	8.3	12.3	16.3	58	61	64	23.0	3/8	1 ¹³ /16	1
DC12445	12 000	8.3	12.3	16.3	71	75	79	19.5	5/16	13⁄4	1
no1244F	12.000	8.3	12.3	16.3	75	79	83	23.0	3/8	1 ¹³ /16	1

NOTE: Capacity is in cubic feet per hour for a pan 1'-0" wide (80% full) traveling at 1'-0" per minute.





CHAIN DIMENSIONS

						Genera	al Dime	nsions	Pins	Sid	ebars			0	utboa	rd Rolle	ers	
Chain	Average Pitch	Average Ultimate Strength in Lbs. Per	Rated Working Load in Lbs.☆ Per	Fric Facto	tion or (f _r)	Inside Sidebars	ି To Cotter End	୍ୟ To Head or Rivet End	Dia.	Thk.	Height	Chain Roller Dia.	Tread Dia.	Tread Width	Stub Shaft	୍ଦି To Inside Pan End	Inside Pan To Wheel Ga.	Inside Pan To Overall Width
No.	Inches	Strand	Strand	Dry	Lubed	W	К	J	D	Т	U	H	H ₁	Α	D 1	E	E1	E ₂
SS944+	6.000	73,000	5,900	0.14	0.10	11/2	2 ¹ / ₃₂	1 ²⁵ / ₃₂	3⁄4	3/8	2	11/8	4	15/16	3⁄4	1	1¼	33/8
RS928	9.000	50,000	7,200	0.14	0.10	2	2 ⁹ / ₃₂	2 ¹ / ₃₂	3⁄4	3/8	2	11/8	4	15/16	3⁄4	1¼	1¼	33/8
RS938	9.000	56,000	9,200	0.14	0.10	21/4	2 ¹⁵ / ₃₂	2 ⁵ / ₃₂	7/8	3/8	2 ¹ / ₂	11/8	5	13⁄4	1	1¾	11/16	4 ¹ / ₈
RS946	9.000	85,000	12,700	0.14	0.10	25/8	2 ²⁷ / ₃₂	2 ¹⁹ / ₃₂	1	1/2	21/2	21⁄4	5	1¾	1	1 ³ ⁄16	11/16	4 ¹ / ₈
RS1228	12.000	50,000	7,200	0.14	0.10	2	2 %32	2 ¹ / ₃₂	3⁄4	3/8	2	11/8	4	15/16	3⁄4	1¼	1¼	33/8
RS1238	12.000	56,000	9,200	0.14	0.10	21⁄4	2 ¹⁵ / ₃₂	2 ⁵ / ₃₂	7/8	3/8	2 ½	11/8	5	1¾	1	1¾	11/16	4 ¹ / ₈
RS1246	12.000	125,000	12,700	0.14	0.10	25/8	2 ²⁷ / ₃₂	2 ¹⁹ / ₃₂	1	1/2	21/2	2 ¹ ⁄ ₄	5	1¾	1	1 ¹³ /16	11/16	4 ¹ / ₈



WITH STYLE A PANS AND OUTBOARD ROLLERS

PAN CAPACITIES, WEIGHTS AND DIMENSIONS

	Avorago		Capacity		Nomina	Weight Lbs I Pan Widt	s. :h = 1'-0"	Add For Foob			
Chain	Pitch	I	Dimension	C	[Dimension	C	Additional 1'-0"		Dimension	s
No.	Inches	4	5	6	4	5	6	Width in Lbs.	G	В	М
		15.0	19.0	23.0	60	62	66	11.0	3/16	2 5⁄16	1¾
00044	0.000	15.0	19.0	23.0	66	70	76	15.0	1/4	2 ³ / ₈	1¾
55944+	6.000	15.0	19.0	23.0	73	78	84	18.5	5/16	2 %16	13/8
		15.0	19.0	23.0	80	85	93	22.5	3/8	25/8	1¾
		15.0	19.0	23.0	47	49	52	10.0	3⁄16	2 ¹ / ₄	11⁄4
0000	0.000	15.0	19.0	23.0	52	55	60	13.0	1⁄4	2 ⁵ ⁄16	1¼
13920	9.000	15.0	19.0	23.0	57	63	68	17.0	5⁄16	2 ¹¹ / ₁₆	11⁄4
		15.0	19.0	23.0	65	70	76	20.0	3⁄8	2 ³ ⁄ ₄	11⁄4
		15.0	19.0	23.0	65	68	71	11.0	3/16	2 ³ / ₄	1¾
		15.0	19.0	23.0	71	75	79	14.5	1⁄4	2 ¹³ / ₁₆	1¾
RS938	9.000	15.0	19.0	23.0	76	81	86	17.5	5⁄16	3	1¾
		15.0	19.0	23.0	83	88	94	21.0	3/8	3 ¹ / ₁₆	1¾
		15.0	19.0	23.0	96	103	111	29.0	1/2	33/8	1¾
		15.0	19.0	23.0	76	78	81	11.0	3⁄16	2 ³ ⁄4	1¾
		15.0	19.0	23.0	82	85	89	14.5	1⁄4	2 ¹³ /16	1¾
RS946	9.000	15.0	19.0	23.0	86	92	97	17.5	5⁄16	3	1¾
		15.0	19.0	23.0	94	99	105	21.0	3/8	3 ¹ ⁄ ₁₆	13⁄4
		15.0	19.0	23.0	107	114	122	29.0	1/2	33/8	1¾
		15.0	19.0	23.0	57	60	62	10.0	3/16	2 ³ / ₄	1¾
		15.0	19.0	23.0	63	66	70	13.5	1⁄4	2 ¹³ / ₁₆	1¾
RS1228	12.000	15.0	19.0	23.0	69	73	77	16.5	5⁄16	3 ¹ / ₈	1¾
		15.0	19.0	23.0	74	79	84	20.0	3⁄8	3 ³ ⁄16	1¾
		15.0	19.0	23.0	86	92	99	26.5	1/2	31/2	1¾
		15.0	19.0	23.0	69	71	74	10.0	3⁄16	2 ³ ⁄ ₄	13⁄4
		15.0	19.0	23.0	74	78	81	13.5	1⁄4	2 ¹³ /16	1¾
RS1238	12.000	15.0	19.0	23.0	80	84	88	16.5	5⁄16	31/8	1¾
		15.0	19.0	23.0	86	90	96	20.0	3/8	3 ³ ⁄16	1¾
		15.0	19.0	23.0	95	102	108	26.5	1/2	31/2	1¾
		15.0	19.0	23.0	80	82	85	10.0	3⁄16	2 ³ / ₄	1¾
		15.0	19.0	23.0	86	89	92	13.5	1⁄4	2 ¹³ /16	1¾
RS1246	12.000	15.0	19.0	23.0	91	95	99	16.5	5⁄16	31/8	1¾
		15.0	19.0	23.0	97	102	107	20.0	3/8	3 ³ ⁄16	13⁄4
		15.0	19.0	23.0	108	115	122	26.5	1/2	3 ½	1¾

NOTE: Capacity is in cubic feet per hour for a pan 1'-0" wide (80% full) traveling at 1'-0" per minute.

NOTE: Weights are in pounds per foot for a pan 1'-0" wide and include outboard rollers with stub shafts every 2nd pitch for 6" and 9" pitch and every pitch for 12" pitch.



WITH STYLE C PANS AND OUTBOARD ROLLERS

CHAIN DIMENSIONS

			Deterd			Genera	al Dime	nsions	Pins	Sid	ebars			0)utboa	rd Rolle	ers	
Chain	Average Pitch	Average Ultimate Strength in Lbs. Per	Rated Working Load in Lbs.☆ Per	Fric Fact	ction or (f _r)	Inside Sidebars	୍ୟ To Cotter End	© To Head or Rivet End	Dia.	Thk.	Height	Chain Roller Dia.	Tread Dia.	Tread Width	Stub Shaft	⊕ To Inside Pan End	Inside Pan To Wheel Ga.	Inside Pan To Overall Width
No.	Inches	Strand	Strand	Dry	Lubed	w	K	J	D	Т	U	Н	H1	Α	D 1	E	E1	E ₂
RS1238	12.000	56,000	9,200	0.14	0.10	21⁄4	2 ¹⁵ / ₃₂	2 ⁵ / ₃₂	7/8	3/8	2 ½	11/8	5	1¾	1	2 ¾	5 %16	8 ¹ / ₄
RS1246	12.000	125,000	12,700	0.14	0.10	25/8	2 ²⁷ / ₃₂	2 ¹⁹ / ₃₂	1	1/2	2 ¹ / ₂	21⁄4	5	1¾	1	3 ³ ⁄16	61/16	9 ½

🖈 Subject to Service Factor Table 9 and Speed Factor Table 11, Section A, in Webster #400 Master Catalog.

PAN CAPACITIES, WEIGHTS AND DIMENSIONS

	Auguaro		Capacity		Nomin	Weight Lbs. al Pan Width	ı = 1'-0"	Add Fey Feeb
Chain	Pitch		Dimension (;		Dimension (;	Additional 1'-0"
No.	Inches	4	5	6	4	5	6	Width in Lbs.
RS1238	12.000	23.0	31.0	39.0	119	130	142	40.0
RS1246	12.000	23.0	31.0	39.0	131	142	154	40.0

NOTE: Capacity is in cubic feet per hour for a pan 1'-0" wide (80% full) traveling at 1'-0" per minute.

NOTE: Weights are in pounds per foot for a pan 1'-0" wide and include outboard rollers with stub shafts every pitch.

DROP-IN APRON REPLACEMENT & RETROFIT

Webster takes great pride in having the ability to replace most any manufacturer's apron chains. In addition to the standard designs shown in this brochure, Webster's extensive manufacturing capabilities allow for drop in Metric aprons, OEM replacements and retro-fits to best suit the application. Webster's chain is the same form, fit and function made with domestic steel and Made in the USA quality, thus eliminating long lead times.



WEBSTER HEAVY-DUTY LEAKPROOF APRON & COMPONENTS

The leakproof double beaded apron pan is designed to contain hot, fine and abrasive materials inside the pan to maximize chain life. This heavy-duty design includes outboard roller assemblies equipped with a cast iron bushing and a self-locking square stub shaft. Outboard roller assemblies' cottered construction and mid-pitch holes in the steel bushed roller chain allows the roller to be replaced without disassembly of the chain and pans.



WEBSTER SPROCKET DESIGN

Webster Sprockets are designed and manufactured according to the same core quality standards as Webster chain. Each sprocket is carefully designed by Webster's experienced engineering team, and is then manufactured with the highest quality USA made medium carbon steel by skilled American laborers.

Pairing Webster Chain and Sprockets on your application, ensures that your conveyor is performing at the highest level of productivity, reliability and service. WHY WEBSTER SPROCKETS?

Purchase with Chain Double Your Warranty Industry Best Delivery Easy Customization Highest Quality Qualifies for Free Freight

Made In The USA

WEBSTER'S SPROCKET DESIGN

Webster Sprockets are designed and manufactured per the ASME/ANSI specification. The sprocket selection and design depend on the chain and the customer's application. Webster's standard design utilizes low profile teeth to ensure the sprocket does not interfere with the chain and its attachments. Various material options and numerous teeth profiles, plating options and special features are available upon request. Please consult our engineering department for any special needs.

WEBSTER SPROCKET FEATURES

WEAR LINE INDICATORS

Indicate when it is time to replace the sprockets. When the sprocket face is worn to the scribed line the sprocket needs replaced along with the chain. Wear line indicators are an easy visual tool to help guide best practices in chain sprocket and conveyor operations.

LIFTING HOLE

Are positioned directly above the key and provide easy placement of a lifting strap, rod or other device to make sprocket installation easier and safer. Lifting holes are provided on all sprockets unless restricted by space.



FLAME HARDENED TEETH

Webster's automated, computercontrolled hardening process increases wear resistance and sprocket longevity. Our hardening process allows us to achieve precise hardness levels. All Webster sprockets have a minimum 40 Rc in all critical wear areas and utilize USA made 1045 steel plate.

LIGHTENING HOLES

Provided on some sprockets so that weight can be reduced. Lightening holes come standard on most bucket elevator sprockets and upon customer request unless restricted by space.

LOCKING HEAD FEATURE

Split sprockets come with a locking head feature which allow for ease of assembly. The hub holds the head of the bolt against its flat edge. This allows one tool and one person to easily torque the locking nut in place securing the sprocket to the shaft.

MACHINED CHAMFERED TEETH

All teeth are machine chamfered at a 15 degree angle on each side of the tooth to ensure proper chain and sprocket engagement. This reduces the likelihood of sprocket and sidebar scrubbing or improper chain engagement resulting in premature, unexpected failures.



NUMBER OF TEETH

The actual count of the sprocket teeth which engage the chain.



 \bigcirc

PITCH DIAMETER (P.D.)

The diameter of the circle that a chain makes when it wraps or chords around a sprocket. This measurement is taken from the center of a chain pin across the sprocket to the center of the opposite chain pin.



OUTSIDE DIAMETER (0.D.)

The outside diameter is the measurement from the tip of one sprocket tooth to the corresponding sprocket tooth directly opposite.



HUB OUTSIDE DIAMETER (H.O.D.)

BORE DIAMETER

sprocket or hub.

The diameter of the circle of the central hole in the

The outside diameter of the hub which is welded to the sprocket plate.



LENGTH THROUGH BORE (L.T.B.)

The length of the hub that the shaft passes through and contacts. This is designed for torque transmission and stability.



WORKING FACE

The straight line of a sprocket tooth where the chains engages and wears against. This is designed for maximum chain elongation but also short enough to avoid interferences.

BOTTOM DIAMETER (B.D.)

The diameter of the circle that is the lowest pocket point to the lowest pocket point directly opposite



ROOT DIAMETER

The diameter of a circle a chain makes as it sits in the bottom of the pocket. This measurement is taken from the bottom of the chain round component (roller, bushing or barrel) to the opposite round component.



PITCH LINE CLEARANCE

The measurement of the elongated pocket shapes. Designed to allow slight material build up without interfering in chain articulation around a sprocket.





APRON CONVEYOR SELECTION GUIDE

SELECTION CRITERIA



STYLE Z PAN

0° - 30° Incline Ambient to 700°F 50 - 100 FPM



STYLE AD PAN

0° - 30° Incline Ambient to 700°F 50 - 100 FPM Larger Material Lump



STYLE A1 PAN

0° - 20° Incline Ambient to 700°F 50 - 100 FPM



0° - 20° Incline Ambient to 1000°F 10 - 50 FPM Leakproof





NOTE: Pushers or cleats can be added to apron pans to assist with conveying up inclines.

NOTE: Please consult with the Webster Engineering team for confirmation of dimensions and design criteria.

APRON CONVEYOR SELECTION GUIDE

SELECTION INSTRUCTIONS

- 1. Select style based on incline, material, speed and conveyor characteristics.
- 2. Convert capacity into CFH.

TPH X 2000 #/TON

CFH = -Material Density (#/Cubic Feet)

- 3. See style specific capacity charts.
- 4. Determine probable chain with its corresponding charted capacity.

NOTE: Capacities vary depending on pan thickness and pan end height.

NOTE: The charted capacities are based on being 80% full traveling at 1 FPM for a

1-foot-wide pan.

- 5. Use a mid-range speed published for style specific typical speeds.
- 6. Calculate width of pan in feet. CFH

Width = $\overline{\text{Charted Capacity X Speed}}$

7. Calculate chain pull based on new weights to confirm chain strength.

EXAMPLE

Consider that you have a coal handling application for a conveyor. The coal has a density of 50 PCF and a capacity of 75 TPH is required. The coal will be at ambient temperature. A leakproof conveyor design is required with a 10 incline. RS938F is selected as an initial chain selection.

CONVEYOR SELECTION

- 1. Style A Pan selected.
- 2. CFH = 75 TPH X 2000 #/TON 50 PCF CFH = 3000
- 3. See capacity chart for Style A Pans
- 4. RS938F with 6" "C" dimension = 23 CFH
- 5. 10 50 FPM. Use 30 FPM.
- 3000 CFH 6. Width = -(23 CFH X 30 FPM) Width = 4.34 feet - Use 5-foot-wide pan



NOTE: FPM = Feet Per Minute, CFH = Cubic Feet Per Hour, TPH = Tonnage Per Hour & PCF = Pounds Per Cubic Foot.

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AMERICAN MATERIALS, AMERICAN LABOR & AMERICAN PRIDE

Webster's reputation for high-quality products originates from the same principles they were founded on in 1876. Our Made in the USA brand is demonstrated through our domestic supply chain partners and our American workforce.



VERTICALLY INTEGRATED MANUFACTURING FACILITY

While companies are relying increasingly on outsourcing for production needs, Webster has invested in building, maintaining and growing a vertically integrated manufacturing system.



WORLD CLASS CUSTOMER SUPPORT & DELIVERIES

Providing value to customers is Webster's top priority. Our commitment and responsiveness to customers, industry best deliveries and our engineered solutions are what set us apart from the competition.



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Webster's strict manufacturing, ISO quality standards and continuous innovation ensure that we are providing our customers with the highest quality products in the industry.

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