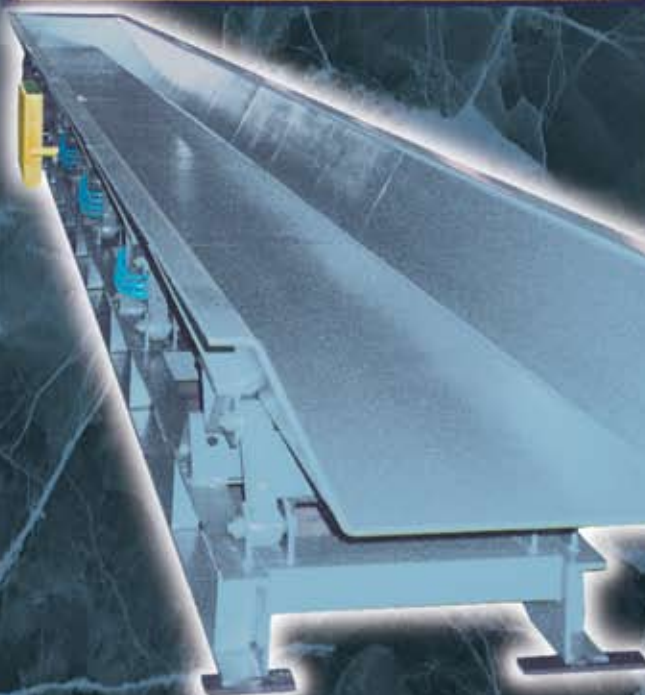


INDUSTRIES



VIBRATING CONVEYORS

1-800-243-9327
www.websterchain.com


Made In The USA

Catalog
No. 501A

Advantages and Limitations of Vibrating Conveyors

Advantages

- Will readily handle hot or abrasive materials.
- Will handle fragile materials (potato chips, cereal flakes, etc.) without degradation.
- Smooth continuous trough - no pockets for material to accumulate in - no jamming of material.
- Conveyor is normally self-cleaning.
- No return strand to carry over.
- Simple construction with minimum number of moving parts.
- Moving parts are not in contact with material.
- Minimum safety hazard to persons working on or near conveyor.
- Pan is usually widest part of conveyor.
- Is easily enclosed, even at transfer points.
- Discharge end may be tapered to spread material.
- Abrupt discharge.
- Little headroom required for change in direction or discharge to other equipment.
- Problems at discharge or transfer points are minimized because of relatively low conveying speed, low headroom required, and abrupt discharge. If problems do occur they may be easily corrected by modifying end of pan.
- Multiple discharge points are possible.
- Can perform special operations (scalping, dedusting, magnetic separation, lump breaking, washing, heating, cooling, drying, etc.) while conveying.
- Unit machines - have been completely assembled and tested at the factory. Minimum of work and time required at installation.

Limitations

- Not all materials can be conveyed.
- Is not a positive type of conveyor - conveying speed obtained may vary with different materials.
- Slope up which material can be conveyed is limited.
- Substantial foundation or supporting structure or special construction required because of unbalanced forces.
- Limited length of conveyor per drive.

Webster FS Series and CoilWeb Vibrating Conveyors

Selecting The Right Conveyor For Your Needs

The selection of the proper size and type of vibrating conveyor is based on the following three factors:

- 1 Quantity of material to be conveyed.**
- 2 Properties of the material to be conveyed.**
- 3 Environment in which conveyor to be installed.**

Quantity of material to be conveyed is usually stated in tons per hour. However since the vibrating conveyor is a volumetric device it is necessary to select a unit to contain and convey the largest instantaneous volumetric flow rate which may occur. For example, if a conveyor receives material from a batch weighing hopper it must be sized to convey at the maximum rate at which material is discharged from the hopper rather than at the average hourly rate. If a conveyor is to handle unit loads such as foundry molds, the cross sectional area of the pan must be somewhat larger than the vertical cross sectional area of the load so the load will be contained without spillage.

Material properties include bulk density particle size, abrasiveness, corrosiveness, stickiness, and temperature. Bulk density, together with the capacity in tons per hour determines the volumetric flow rate. Particle size has two important aspects. First, the conveyor pan must be somewhat wider than the largest piece of material which will be conveyed - in this regard, material has much less tendency to jam in pans with flared sides than in pans with straight or vertical sides. Second, materials of very small particle size may convey poorly and may have severe limitations on the depth of the

bed which can be conveyed. Abrasive materials may require pans fabricated of abrasion resistant steel or liners of abrasion resistant steel, or rubber. Corrosive materials may require pans fabricated of, or lined with, special materials. Sticky materials may require special liners or coatings. The temperature of the material will determine whether standard non-expansion construction will be satisfactory or if high temperature of heat-expansion construction is necessary.

Environment would include ambient conditions (hot, humid, corrosive, or dusty atmospheres) and the type of support available for the conveyor. High ambient temperatures may require a supply of cooling air for the motor, V-belt drive and conveyor drive and an air-oil mist lubrication system for the drive bearings. A humid, corrosive, or dusty atmosphere may require special coatings for the conveyor and an air-oil mist lubrication system for the drive bearings. If the conveyor is to be installed in an elevated structure, adjacent to equipment which would be adversely affected by vibration or in an area with poor soil conditions, a conveyor with vibration isolators may be required.

The following table lists the maximum allowable material temperature for the Webster vibrating conveyors. It is intended as a guide only and is based on the assumption that the bottom of the pan is completely and continuously covered with a bed of material.

Maximum Allowable Material Temperature

Model	Standard Construction	Heat-Expansion Construction
FSL	150°F	CoilWeb
FSM	150°F	CoilWeb
FSH	150°F	CoilWeb
CoilWeb	200°F	1300°F



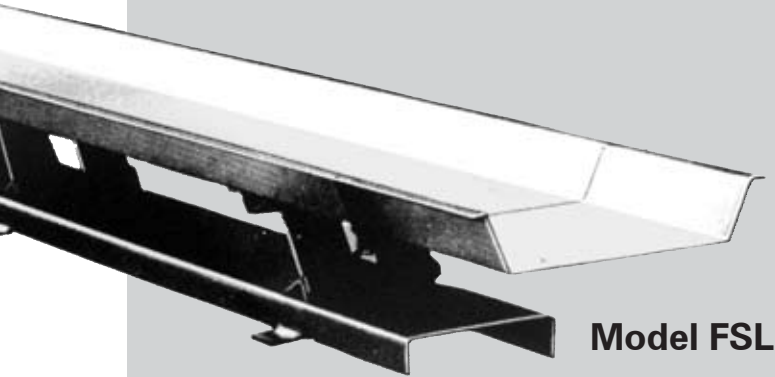
Webster Industries, Inc.
CoilWeb Vibrating Conveyor

Webster FS Series Vibrating Conveyors

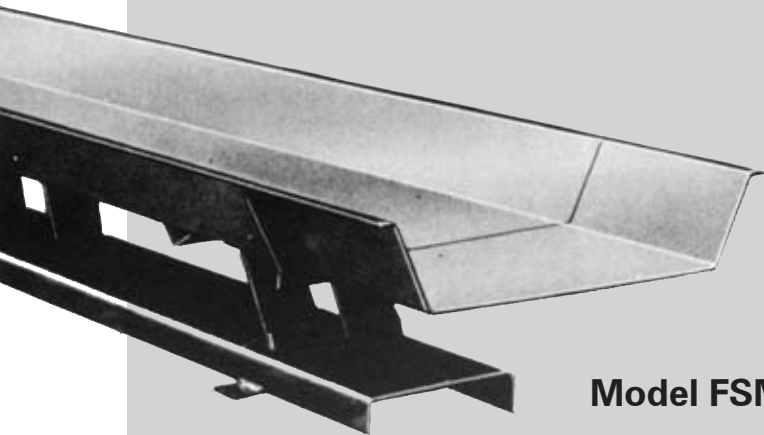
Through the application of sound design techniques and a thorough field testing program, Webster Manufacturing, Division of Webster Industries, Inc. has developed the FS series of mechanical vibrating conveyors.

This series includes the FSL, a medium duty, low headroom conveyor with capacities up to 30 tons per hour; the FSM, a medium duty conveyor with capacities up to 73 tons per hour and the FSH, a heavy duty conveyor with capacities up to 190 tons per hour. All of these conveyors incorporate the natural frequency principle, controlled vibration, positive eccentric type drive and standardized sectional construction. They provide a rugged and economical answer to many bulk materials conveying and processing jobs throughout the industry.

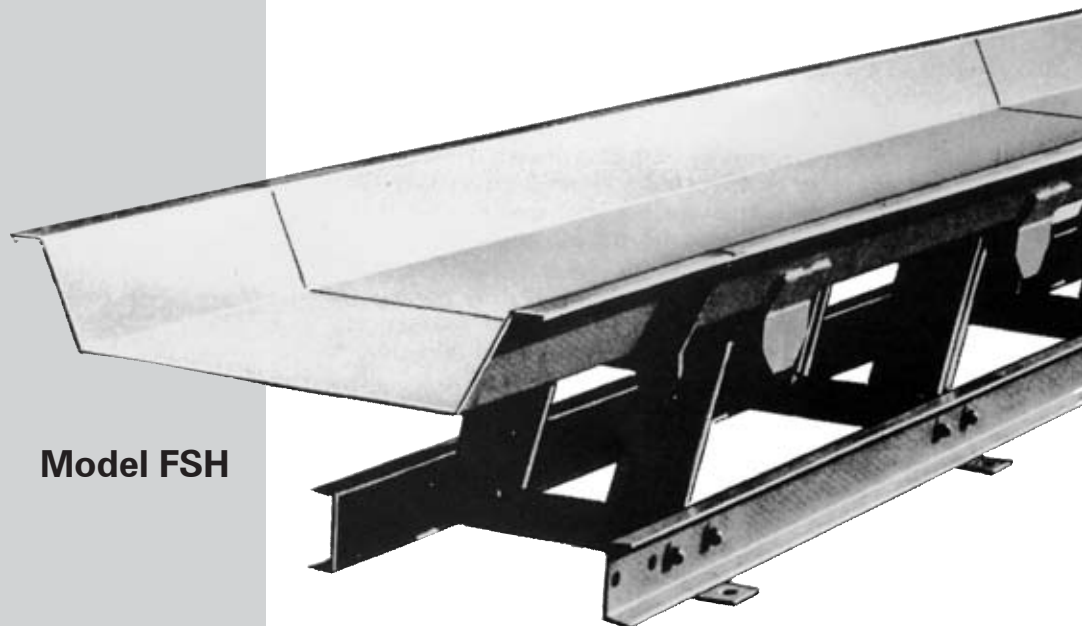
FS vibrating conveyors will convey granular or lump materials ranging in size from minus 100 mesh to any lump size which will fit into the trough and in weight from several pounds to several hundred pounds per cubic foot. They are particularly well suited for conveying hot, heavy, sharp, or abrasive materials which are not readily handled on other types of conveyors. They also may be adapted to processing operations such as inspecting, sorting, screening, washing, dewatering, heating, cooling, and drying.



Model FSL



Model FSM



Model FSH

Designed For Easy, Dependable Operation

CONTROLLED VIBRATION

The movement of material on the pan of a vibrating conveyor is dependent on the vibratory motion of the pan. On all Webster FS vibrating conveyors amplitude, direction and frequency of the vibratory motion are selected and controlled to give a gentle hopping action to the material being conveyed so as to minimize material degradation, wear of the conveying surface, noise level, and drive forces. The amplitude and frequency of vibration are also selected so that oversize motors are not required for starting.

NATURAL FREQUENCY

When the stiffness of the flat springs which support and guide the pan is selected so that natural or resonant frequency of the pan-spring system is very nearly the same as the operating frequency of the conveyor, most of the power required to vibrate the empty pan is alternately stored and released by the springs. It is only necessary for the drive to furnish the power required to overcome frictional forces and to convey material. This results in minimum power requirements, minimum drive forces and a uniform distribution of inertia forces over the length of the conveyor. All Webster FS vibrating conveyors employ this principle of operation.

The springs used in the FS vibrating conveyors are fabricated of a glass filament reinforced plastic which has extremely high flexural strength and excellent resistance to heat, moisture, and chemical attack. These springs are conservatively stressed and will have an extremely long life if the conveyor is properly installed and maintained.

POSITIVE ECCENTRIC DRIVE

While very little driving force is required when a vibrating conveyor is operating without load and at or very close to its natural frequency, the conveying of material or a buildup of material on the pan will cause significant increases in the driving force required if the amplitude of vibration is to be maintained. The positive, eccentric type drives used in the FS vibrating conveyors will maintain constant amplitude under the variations in loading which occur in normal operation.

These drives are equipped with heavy duty spherical roller bearings on the eccentric shaft and with a steel encased rubber bushing at the pan end of the connecting rod. This rubber bushing reduces drive forces when starting and stopping, eliminates the need for lubrication at this point and reduces the noise level of the machine.

The bearings used are designed so that they cannot be damaged by excessive lubrication.

STANDARDIZED SECTIONAL CONSTRUCTION

The Webster FS vibrating conveyors are standardized, sectional conveyors. They are built in 10 foot long sections which are bolted together to make up a conveyor of the required length. Odd length sections are available for use at the ends of the conveyor when the length is not a multiple of 10 feet. The pans of the standard sections are fabricated of high-strength, low-alloy steel for resistance to impact, abrasion, and fatigue. The thickness and cross-sectional dimensions of the pans for the various standard sections are shown on the following pages. Pans fabricated of other materials or having different dimensions are available.

UNBALANCED OR ISOLATED CONSTRUCTION

Standard FS vibrating conveyors are unbalanced machines and must be installed on a substantial foundation or supporting structure which is usually at or below ground level. If the conveyor is to be installed on an elevated structure or if some other reason it is necessary or desirable to reduce the dynamic reaction transmitted to the supports, it may be equipped with a heavy inertia base and soft isolating springs. This type of construction will reduce the forces transmitted to the support by from 85% to 95%.

STANDARD AND HIGH TEMPERATURE CONSTRUCTION

Webster FS vibrating conveyors are available in two types, and the selection of the proper type is dependent on the temperature of the material to be conveyed. For materials whose temperature is no higher than 150° - 200° F, standard or non-expansion construction is used. For hotter materials high temperature or heat expansion construction is used. The high temperature type is designed so the pan is free to expand and contract and so the warpage of the pan is controlled. Air-oil mist type lubrication is available if required for hot, humid, or very dirty locations.

ACCESSORIES

A wide range of optional features are available for use with FS vibrating conveyors. Included are covers, side, or bottom discharges, intermediate discharges with gates, pans with multiple compartments or channels, screen sections, nonmagnetic pan sections for use with magnetic separators, nonmetallic pan sections for use with metal detectors, steel pan liners for impact or abrasion resistance, rubber pan liners for wear resistance or noise reduction, special discharges for feeding process equipment and steel support structures.



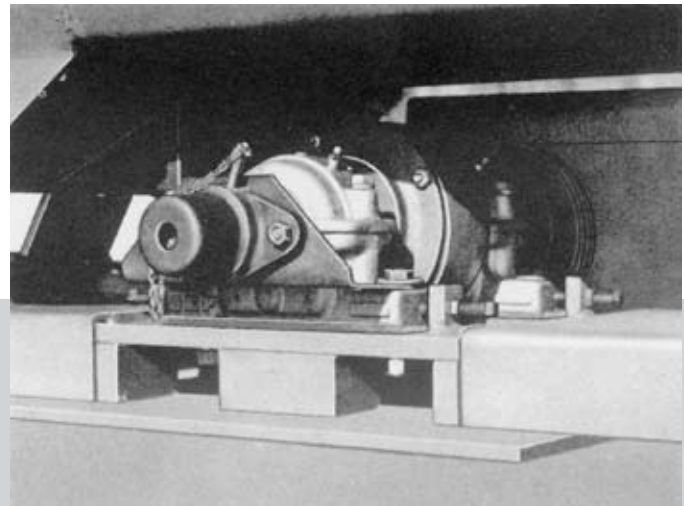
Model FSL Coveyors

For Medium Duty, Low Headroom Uses

**CAPACITY TO
30 TPH**

CONVEYOR LENGTHS AND MOTOR SIZE REQUIRED

BASE SIZE	STROKE & FREQ.	MOTOR SIZE (1800 RPM)			
		1 HP	2 HP	3 HP	5 HP
NARROW	1/2" @	26	66	100	120
WIDE	585 RPM	16	42	66	100



DRIVE

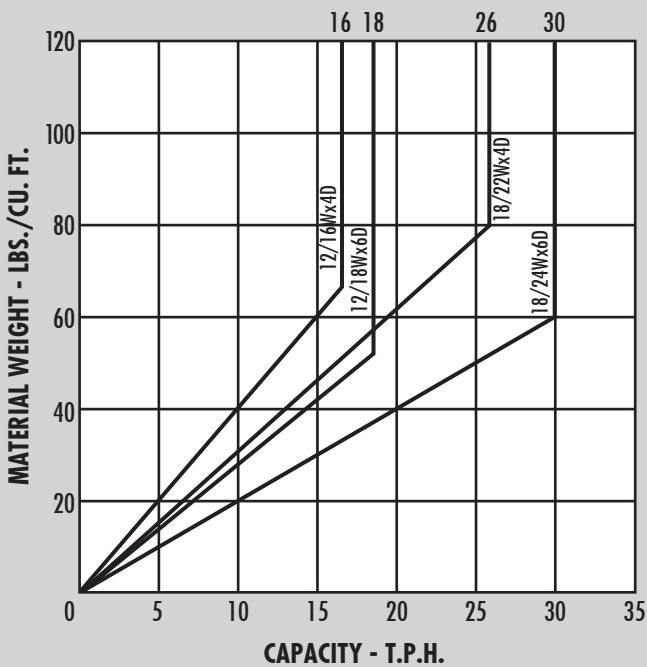
Webster FSL Vibrating Conveyors are equipped with the P3000 positive, eccentric drive. It is equipped with heavy-duty self-aligning roller bearings.

SELECTION

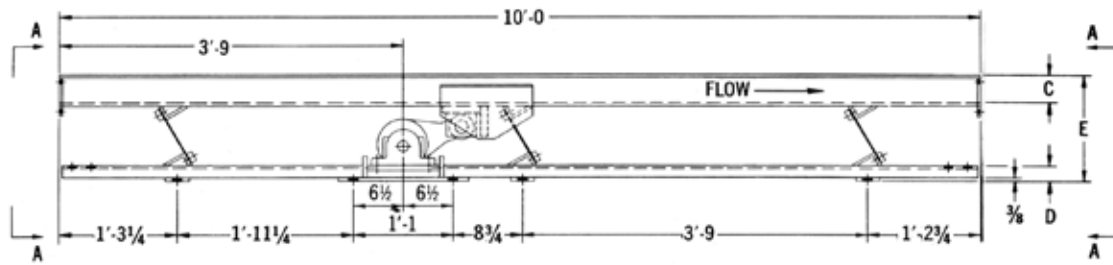
The nominal rated capacity for the standard Webster FSL Vibrating Conveyors is shown on the chart to the left. This chart is based on a conveying speed of 25 fpm (1/2" stroke @ 585 rpm). See page 3 for further information.

DETAILS OF CONSTRUCTION

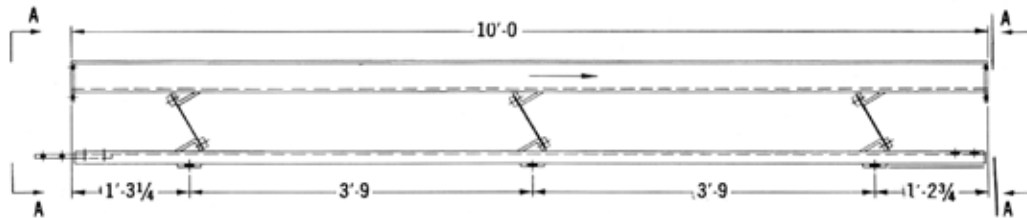
Pans for the standard Webster FSL Vibrating Conveyors are made with the sides flared so the width is greater at the top than at the bottom. Standard pan widths are 12" and 18" as measured at the bottom. Standard pan thickness is #10 gauge for the 12" width and 3/16" for the 18" width. The base is a heavy formed steel channel with the web on top. This style of base has no pockets to catch and hold foreign material. The base has anchor bolt pads welded on its underside so it contacts the foundation only where it is attached to it.



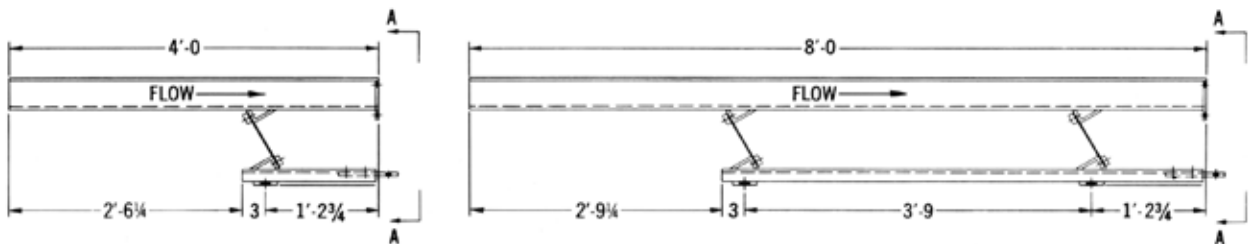
NOTE: CAPACITIES MAY BE SIGNIFICANTLY INCREASED FOR SPECIFIC APPLICATIONS



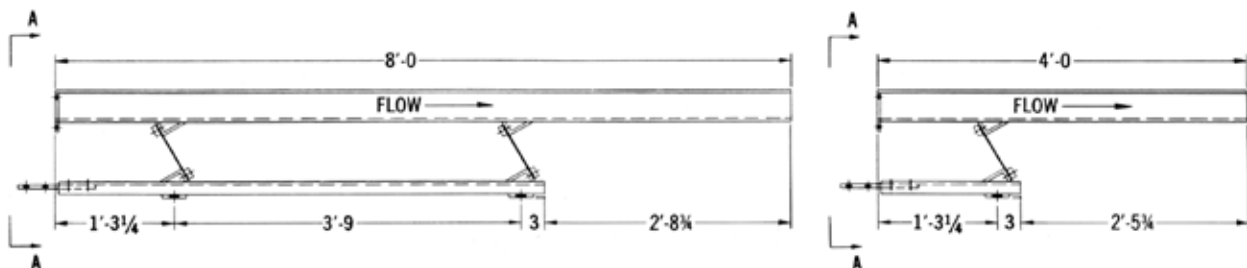
STANDARD DRIVE SECTION



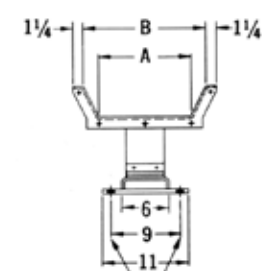
STANDARD EXTENSION SECTION



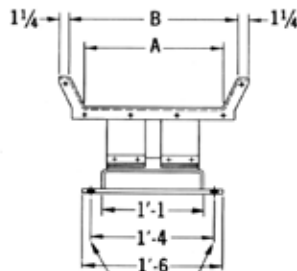
FEED END EXTENSION SECTIONS



DISCHARGE END EXTENSION SECTIONS



**VIEW A-A
NARROW BASE
PAN BOTTOM 8" MIN.-15" MAX.**



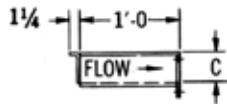
**VIEW A-A
WIDE BASE
PAN BOTTOM 15" MIN.-18" MAX.**

PAN SIZE	A	B	C	D	E	BASE
12/16	12	16	4	1 1/8	1'-1 3/4	NARROW
12/18	12	18	6	1 1/8	1'-3 3/4	NARROW
18/22	18	22	4	3	1'-2 1/8	WIDE
18/24	18	24	6	3	1'-4 1/8	WIDE

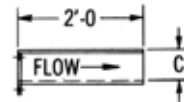
PANS OF OTHER SIZES AND PLATF THICKNESSES WITH EITHER FLARED OR VERTICAL SIDES ARE AVAILABLE.

HOLES FOR 5/8" ANCHOR BOLTS

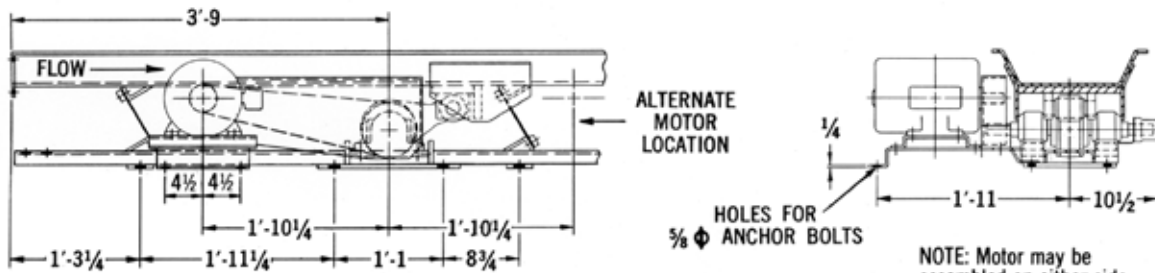
HOLES FOR 5/8" ANCHOR BOLTS



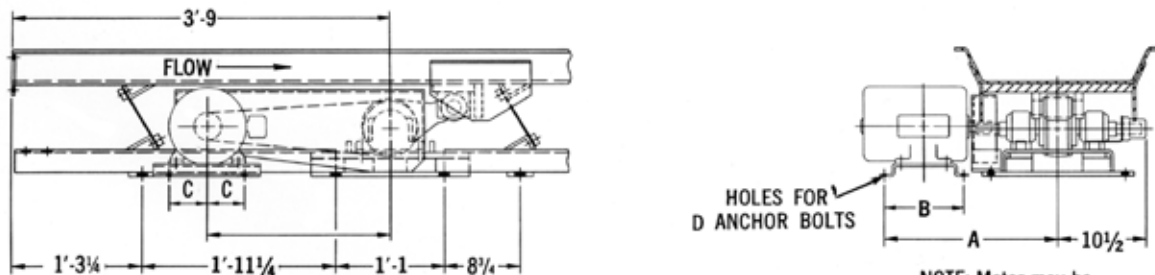
FEED END ADDITION SECTION



DISCHARGE END ADDITION SECTION

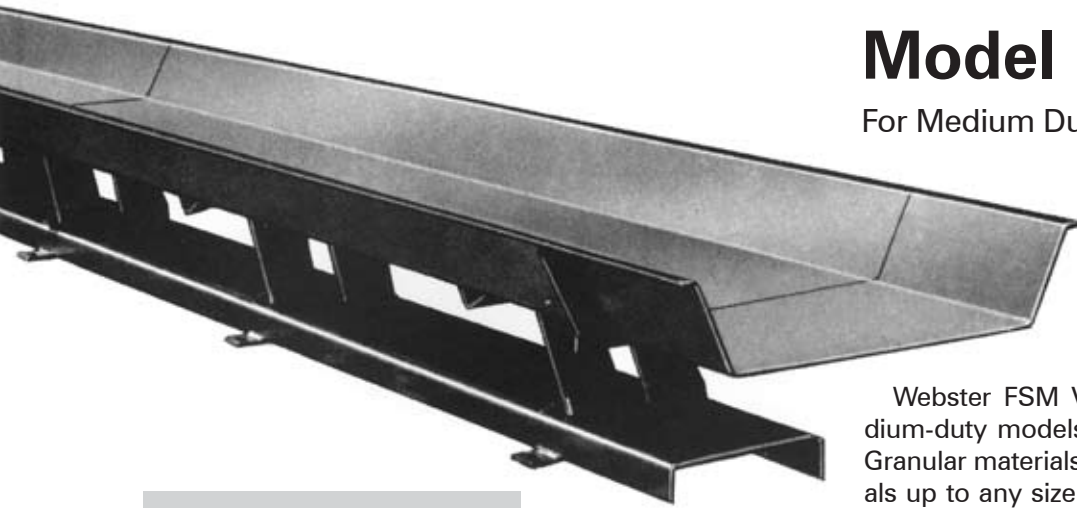


DRIVE ARRANGEMENT NARROW BASE CONVEYOR



DRIVE ARRANGEMENT WIDE BASE CONVEYOR

MOTOR SIZE (1800 RPM)	FRAME NO.	DIMENSIONS IN INCHES			
		A	B	C	D
1 HP	143T	18 1/4	6 3/4	3 3/4	3/8
2 HP	145T	19 1/4	7 3/4	3 3/4	3/8
3 HP	182T	19 3/4	8 1/2	4 1/2	1/2
5 HP	184T	20 3/4	9 1/2	4 1/2	1/2



Model FSM Conveyors

For Medium Duty Applications

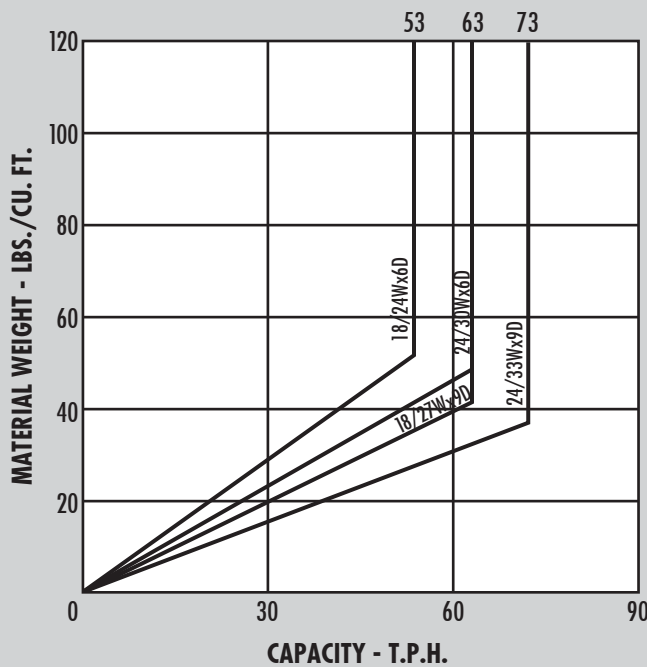
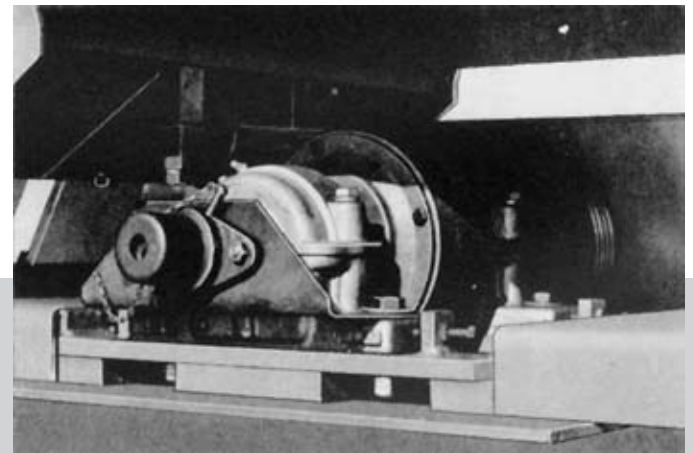
**CAPACITY TO
73 TPH**

Webster FSM Vibrating Conveyors are rugged, medium-duty models featuring capacities of up to 73 tph. Granular materials as fine as 100 mesh and lump materials up to any size that fits the trough can be conveyed. Their simplicity of design means little maintenance and low power requirements.

In addition to the standard sections shown on the following two pages, many accessories and special features can be supplied.

CONVEYOR LENGTHS AND MOTOR SIZE REQUIRED

PAN WIDTH @ BOTTOM	STROKE & FREQ.	MOTOR SIZE (1800 RPM)					
		1HP	2HP	3HP	5HP	7½HP	10HP
18	9/16" @	8	30	46	68	100	120
24	585 RPM	-	25	38	60	86	105



NOTE: CAPACITIES MAY BE SIGNIFICANTLY INCREASED FOR SPECIFIC APPLICATIONS

DRIVE

Webster FSM Vibrating Conveyors are equipped with the P5000 positive, eccentric drive. It is equipped with heavy-duty self-aligning roller bearings.

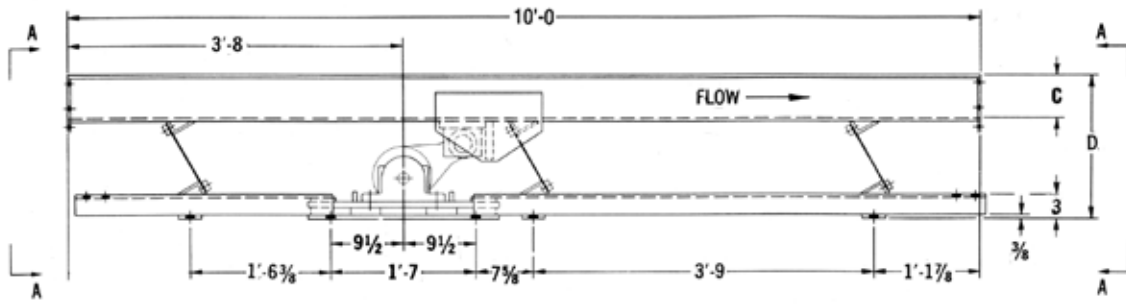
SELECTION

The nominal rated capacity of the standard Webster FSM Vibrating Conveyors is shown on the chart to the left. This chart is based on a conveying speed of 45 fpm (9/16" stroke @ 585 rpm). See page 3 for further information on selection.

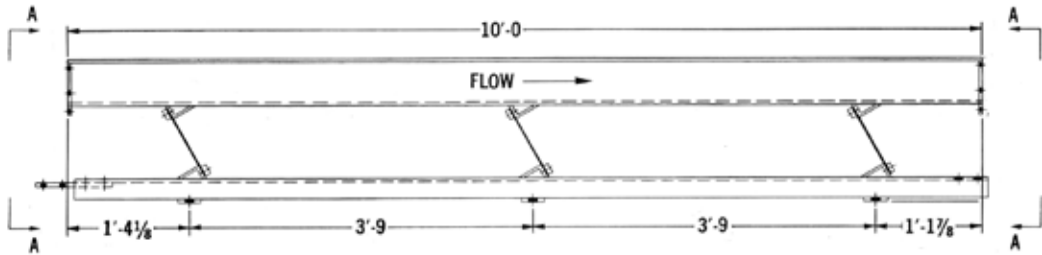
DETAILS OF CONSTRUCTION

Pans for the standard Webster FSM Vibrating Conveyors are made with the sides flared so the width is greater at the top than at the bottom. Standard pan widths are 18" and 24" as measured at the bottom. Standard pan thickness is 3/16".

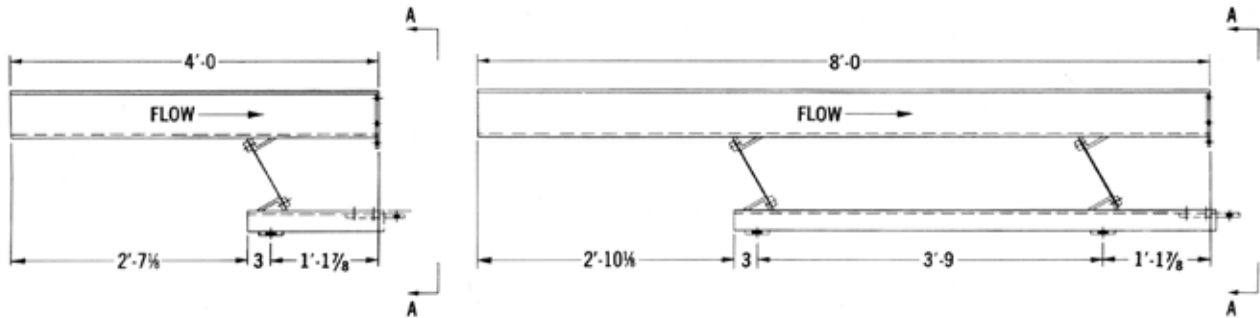
The base is a heavy formed steel channel with the web on top. This style of base has no pockets to catch and hold foreign material. The base has anchor bolt pads welded on its underside so it contacts the foundation only where it is attached to it.



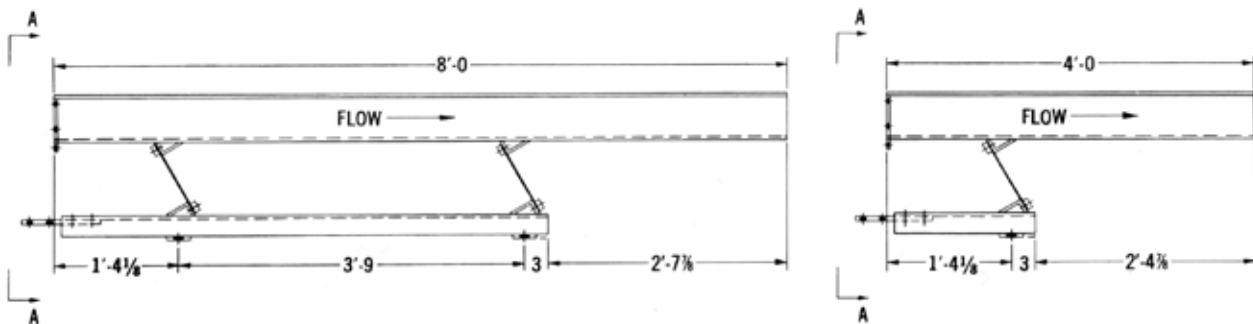
STANDARD DRIVE SECTION



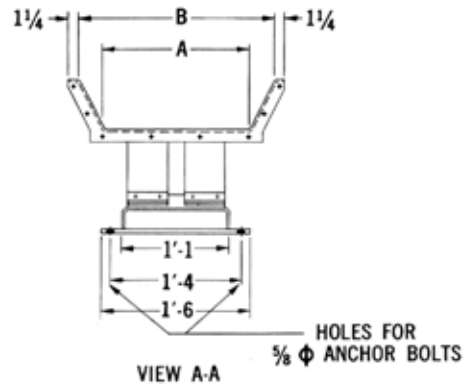
STANDARD EXTENSION SECTION



FEED END EXTENSION SECTIONS

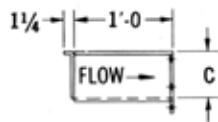


DISCHARGE END EXTENSION SECTIONS

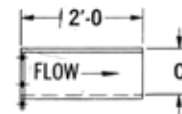


PAN SIZE	A	B	C	D
18/24	18	24	6	1'-6 $\frac{3}{4}$ "
18/27	18	27	9	1'-9 $\frac{3}{4}$ "
24/30	24	30	6	1'-6 $\frac{3}{4}$ "
24/33	24	33	9	1'-9 $\frac{3}{4}$ "

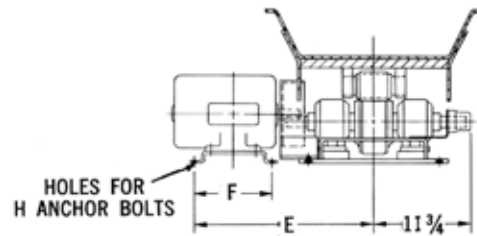
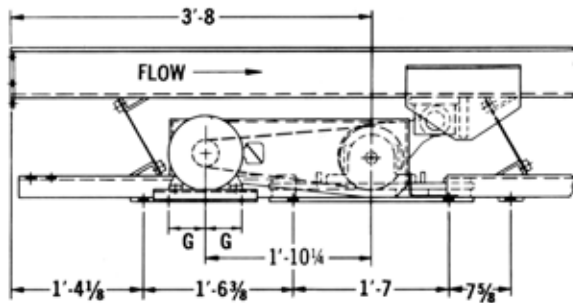
PANS OF OTHER SIZES AND PLATE THICKNESSES WITH EITHER FLARED OR VERTICAL SIDES ARE AVAILABLE.



FEED END ADDITION SECTION



DISCHARGE END ADDITION SECTION



NOTE: Motor may be assembled on either side of conveyor.

MOTOR SIZE (1800 RPM)	FRAME NO.	DIMENSIONS IN INCHES			
		E	F	G	H
1 HP	143T	19 $\frac{1}{2}$	6 $\frac{3}{4}$	3 $\frac{3}{4}$	$\frac{3}{8}$
2 HP	145T	20 $\frac{1}{2}$	7 $\frac{3}{4}$	3 $\frac{3}{4}$	$\frac{3}{8}$
3 HP	182T	21	8 $\frac{1}{2}$	4 $\frac{1}{2}$	$\frac{1}{2}$
5 HP	184T	22	9 $\frac{1}{2}$	4 $\frac{1}{2}$	$\frac{1}{2}$
7 $\frac{1}{2}$ HP	213T	23 $\frac{1}{2}$	9 $\frac{1}{2}$	5 $\frac{1}{4}$	$\frac{1}{2}$
10 HP	215T	24 $\frac{1}{4}$	11	5 $\frac{1}{4}$	$\frac{1}{2}$

DRIVE ARRANGEMENT



Model FSH Conveyors

For Heavy Duty Applications

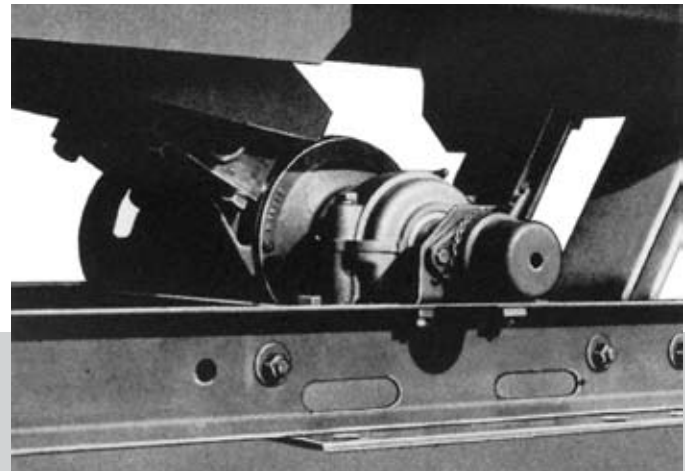
**CAPACITY TO
190 TPH**

Webster FSH Vibrating Conveyors are heavy-duty models that offer capacities of up to 190 tph. They can handle large tonnages of heavy, abrasive materials such as sand, castings, and scrap at temperatures of up to 800° F

In addition to the standard sections shown on the following three pages, many accessories and special features can be supplied.

CONVEYOR LENGTHS AND MOTOR SIZE REQUIRED

PAN WIDTH & TYPE	MOTOR SIZE (1800 RPM)					
	3HP	5HP	7½ HP	10HP	15 HP	20HP
18 Std.	26	39	60	77	110	130
24 Std.	18	26	40	52	76	95
30 Std.	14	24	38	48	72	90
36 Std.	12	21	33	43	63	82



DRIVE

Webster FSH Vibrating Conveyors are equipped with the P8000 positive, eccentric drive. It is equipped with heavy-duty self-aligning roller bearings.

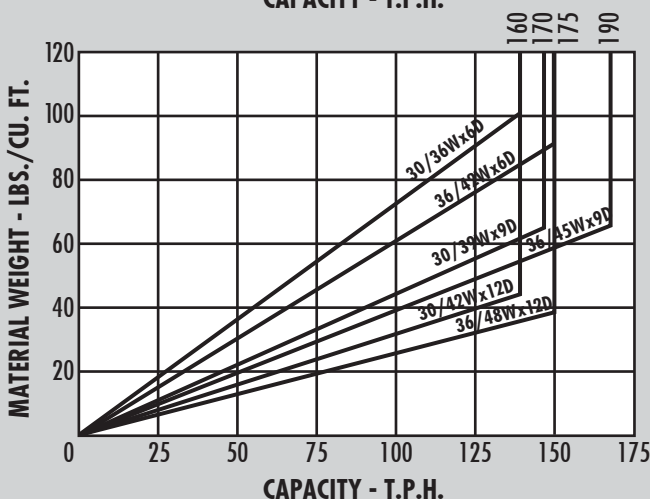
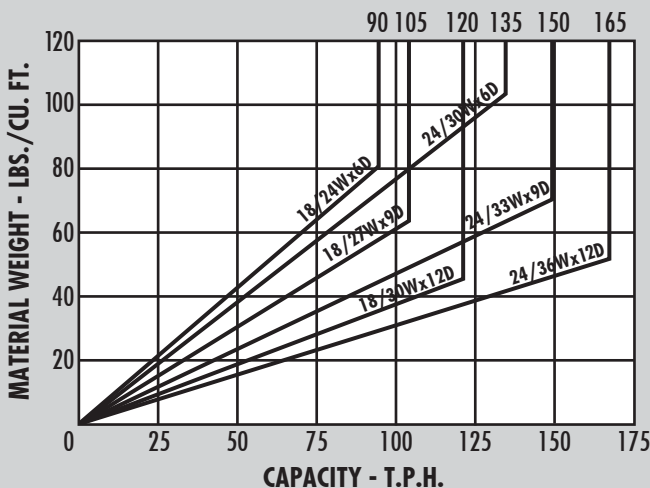
SELECTION

The nominal rated capacity of the standard Webster FSH Vibrating Conveyors is shown on the charts to the left. These charts are based on a conveying speed of 50 fpm (5/8" stroke @ 560 rpm). See page 3 for further information on selection.

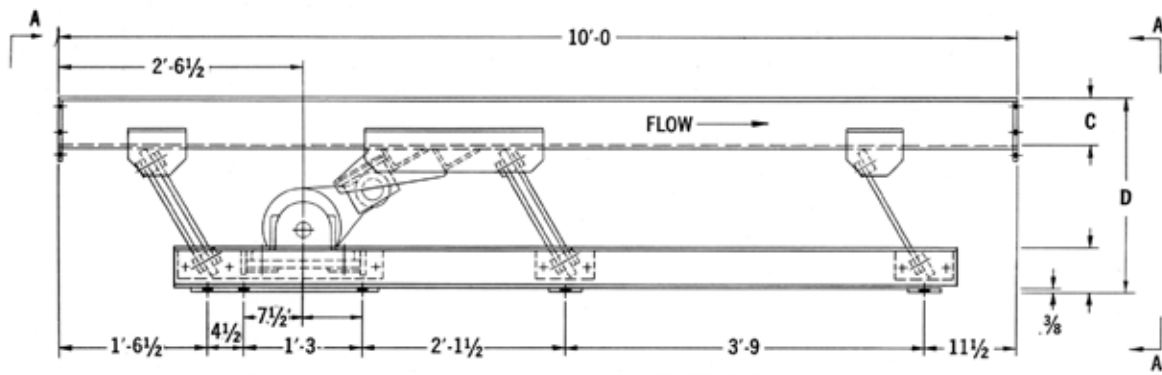
DETAILS OF CONSTRUCTION

Pans for the standard Webster FSH Vibrating Conveyors are made with the sides flared so the width at the top is greater than at the bottom. Standard pan widths are 18", 24", 30", and 36" as measured at the bottom for the heat-expansion types. Standard pan thickness is 1/4" for the 18" non-expansion type and 5/16" for all others.

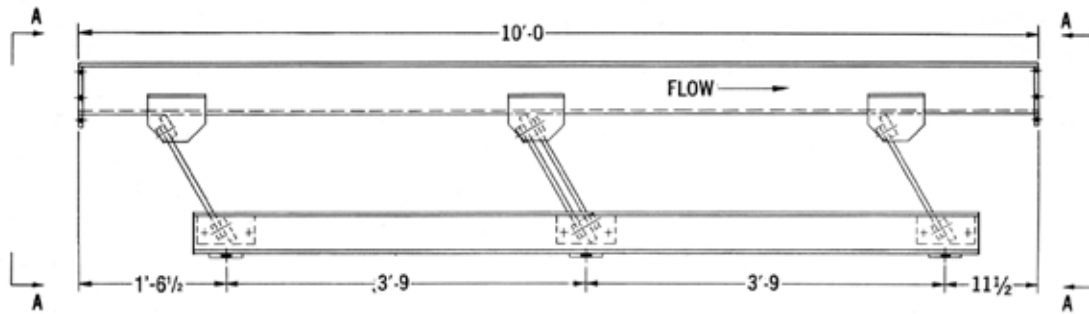
The base is made of a pair of rolled steel channels. Anchor bolt pads are welded on its underside so it contacts the foundation only where it is attached to it.



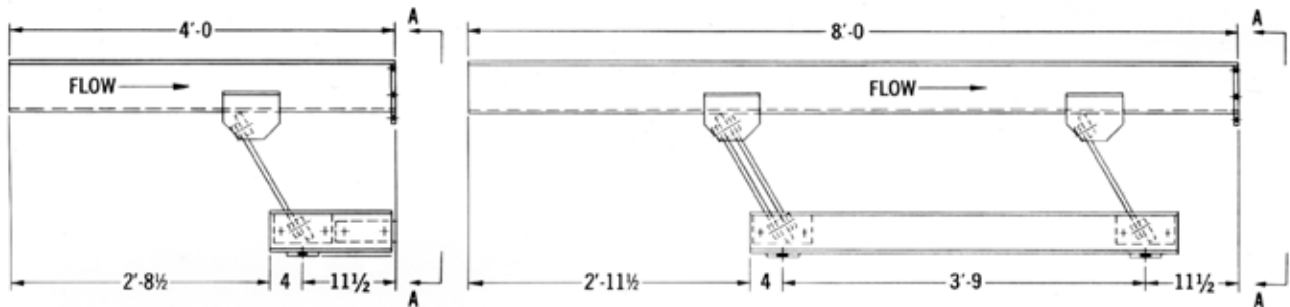
NOTE: CAPACITIES MAY BE SIGNIFICANTLY INCREASED FOR SPECIFIC APPLICATIONS



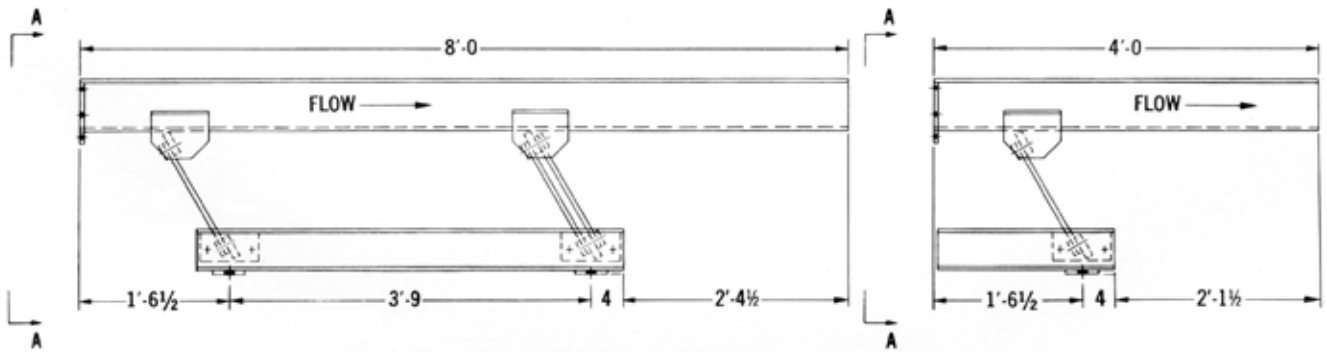
STANDARD DRIVE SECTION



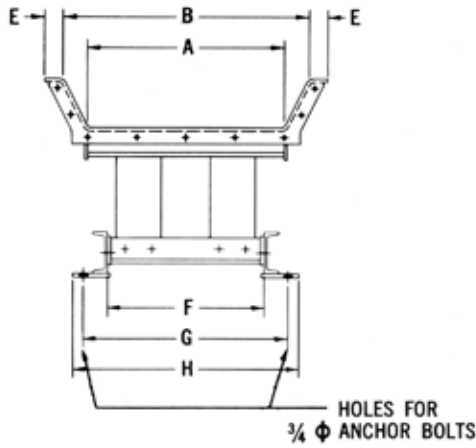
STANDARD EXTENSION SECTION



FEED END EXTENSION SECTIONS



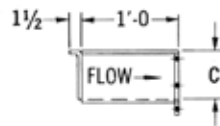
**DISCHARGE END EXTENSION SECTIONS
STANDARD NON-EXPANSION TYPE CONSTRUCTION**



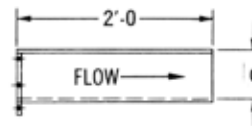
VIEW A-A

PAN SIZE	A	B	C	D	E	F	G	H
18/24	18	24	6	1'-11 ¹ / ₈	1 ³ / ₄	1'-7	2'-1	2'-3 ¹ / ₂
18/27	18	27	9	2'-2 ¹ / ₈	1 ³ / ₄	1'-7	2'-1	2'-3 ¹ / ₂
18/30	18	30	12	2'-5 ¹ / ₈	1 ³ / ₄	1'-7	2'-1	2'-3 ¹ / ₂
24/30	24	30	6	2'-0	2 ¹ / ₄	1'-7	2'-1	2'-3 ¹ / ₂
24/33	24	33	9	2'-3	2 ¹ / ₄	1'-7	2'-1	2'-3 ¹ / ₂
24/36	24	36	12	2'-6	2 ¹ / ₄	1'-7	2'-1	2'-3 ¹ / ₂
30/36	30	36	6	2'-0	2 ¹ / ₄	2'-7	3'-1	3'-3 ¹ / ₂
30/39	30	39	9	2'-3	2 ¹ / ₄	2'-7	3'-1	3'-3 ¹ / ₂
30/42	30	42	12	2'-6	2 ¹ / ₄	2'-7	3'-1	3'-3 ¹ / ₂
36/42	36	42	6	2'-0	2 ¹ / ₄	2'-7	3'-1	3'-3 ¹ / ₂
36/45	36	45	9	2'-3	2 ¹ / ₄	2'-7	3'-1	3'-3 ¹ / ₂
36/48	36	48	12	2'-6	2 ¹ / ₄	2'-7	3'-1	3'-3 ¹ / ₂

PANS OF OTHER SIZES AND PLATE THICKNESSES WITH EITHER FLARED OR VERTICAL SIDES ARE AVAILABLE.

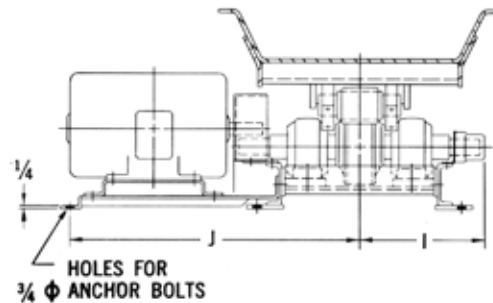
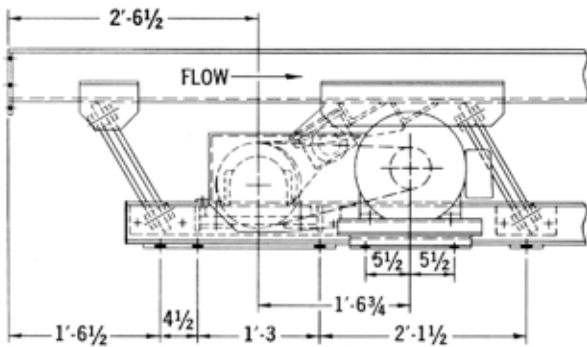


FEED END ADDITION SECTION



DISCHARGE END ADDITION SECTION

STANDARD NON-EXPANSION TYPE CONSTRUCTION



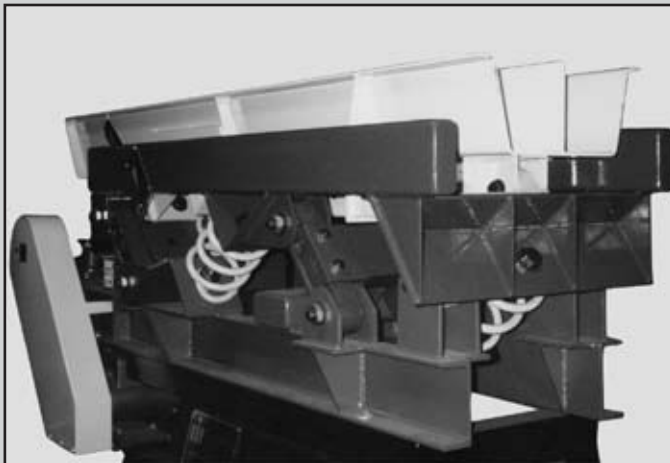
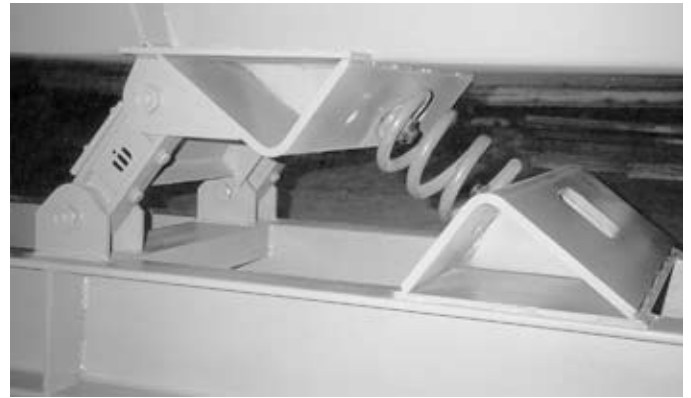
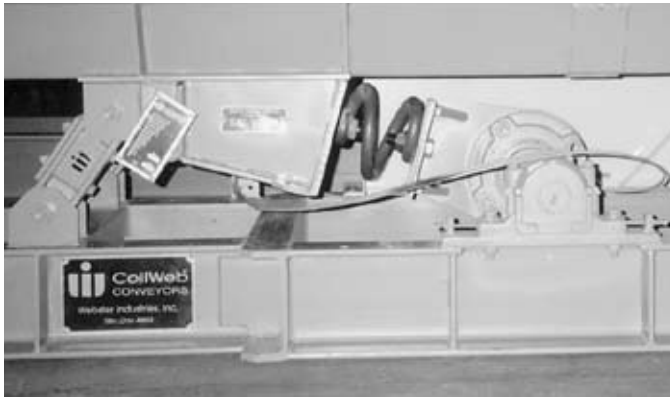
PAN SIZE @ BOTTOM	INCHES	
	I	J
18	1'-3 ¹ / ₄	2'-11 ¹ / ₂
24	1'-3 ¹ / ₄	2'-11 ¹ / ₂
30	1'-9 ¹ / ₄	3'-5 ¹ / ₂
36	1'-9 ¹ / ₄	3'-5 ¹ / ₂

NOTE: Motor may be assembled on either side of conveyor.

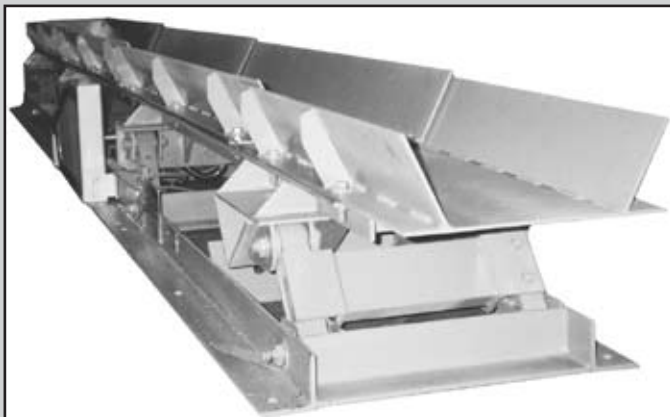
**DRIVE ARRANGEMENT
NON-EXPANSION AND HEAT-EXPANSION TYPES**

Webster CoilWeb and CoilWeb LS Coil Spring Vibrating Conveyors

Quality Conveyors For Super Duty Performance



BALANCED CONVEYOR



HEAT EXPANSION PAN

For heavy duty applications requiring a quality heavy duty, vibrating conveyor, Webster Industries, Inc., offers the CoilWeb Coil Spring Vibrating Conveyor.

This series includes Standard CoilWeb, a heavy duty coil spring vibrating conveyor with capacities up to 500 TPH and lengths up to 200 feet, and the CoilWeb LS, an extra heavy duty coil spring conveyor for those severe applications where just any conveyor won't do.

The CoilWeb conveyors incorporate heavy duty construction, and synchronized frequency spring design with dependability as our primary feature. The CoilWeb also includes a coil spring drive and standardized component construction.

CoilWeb vibrating conveyors will convey granular or lump materials ranging in size from minus 100 mesh to any lump size which will fit into the pan, with a density ranging from several pounds to several hundred pounds per cubic foot. The CoilWeb in particular is better suited for heavily loaded, hot, or abrasive material applications which are not readily handled by other conveyors. And like other vibrating conveyors, they may also be adapted to do processing operations such as screening, sorting, washing, dewatering, cooling or drying.

Heavy Duty Construction For Dependable Operation In Harsh Conditions

CONTROLLED VIBRATION

On Webster CoilWeb Vibrating Conveyors, the amplitude, direction, and frequency of the vibrations are selected and controlled to give a gentle hopping action to the material being conveyed. The combination of these factors can be chosen to effect conveying speeds or operational conditions such as minimizing material degradation, wear on the conveying surface, noise levels of the material on the pan and drive forces.

NATURAL FREQUENCY

The spring rate of the coil springs are selected so that the natural or resonant frequency of the pan-spring or reactor system is very near the operating frequency of the drive. The result is that most of the power required to vibrate the pan is alternately stored and released by the reactor system. This results in minimum drive force requirements, as the drive is only required to overcome frictional forces. By uniform distribution of the spring assemblies, the reaction force is spread over the length of the conveyor.

SPRING ASSEMBLIES

The coil springs used in the CoilWeb vibrating conveyors are fabricated of alloy steel. Each spring assembly location includes a pair of rocker arms to control the direction of the vibration. A rubber bushing is located at both ends of the malleable iron rocker arm for a no-lubricated joint. This super duty design of coil spring assemblies, along with the heavy duty pan construction, is built to operate in such harsh conditions as unfavorable environment and heavy material loading, providing long service life without maintenance.

COIL SPRING DRIVE

The Coil Spring Drive consists of heavy duty self aligning bearings that support an integrally machined eccentric shaft and connect the shaft through a connecting rod that is spring mounted to the pan. This drive-spring arrangement substantially reduces the starting torque requirements by reducing the initial stroke through the deflection of the spring drive mounting to the pan. Once the conveyor reaches operating speed, very little drive force is required because of the resonant frequency pan-spring drive system, so there is very little relative deflection between the connecting rod and the drive-spring system.

This design will result in substantial torque reduction and lower horsepower requirements.

UNBALANCED OR BALANCED CONSTRUCTION

The standard unbalanced CoilWeb vibrating conveyor develops a dynamic reaction and must be installed on an appropriate foundation or support structure, which is usually at or below grade. For installations requiring a minimum transmission of the dynamic reaction to supports a selection of balanced, isolated, or balanced/isolated construction can be employed.

In the balanced construction, a balancing weight is driven 180° out of phase to the pan. This balancing weight is equal to the pan weight and has a duplicate reactor spring assembly system. Being 180° out of phase results in two equal and opposite dynamic reactions that cancel out the majority (80% to 95%) of the dynamic reaction to the supports.

In the isolated construction a relatively short length CoilWeb vibrating conveyor is equipped with a heavy moving inertia base and is mounted to the support structure on soft isolation springs. This type of construction (less complex than balancing) reduces the reaction forces by 85% to 95%.

A combination balanced/isolated can be utilized to provide the highest in isolation efficiency.

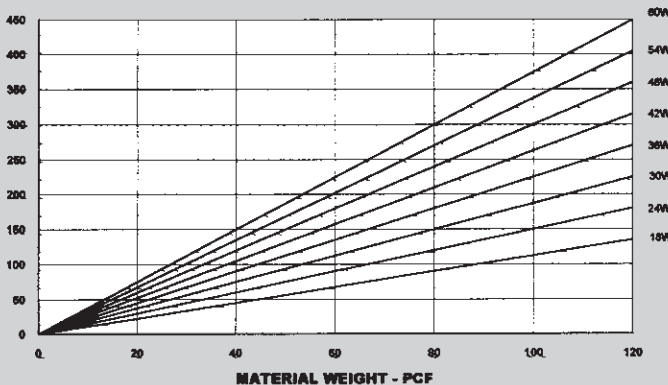
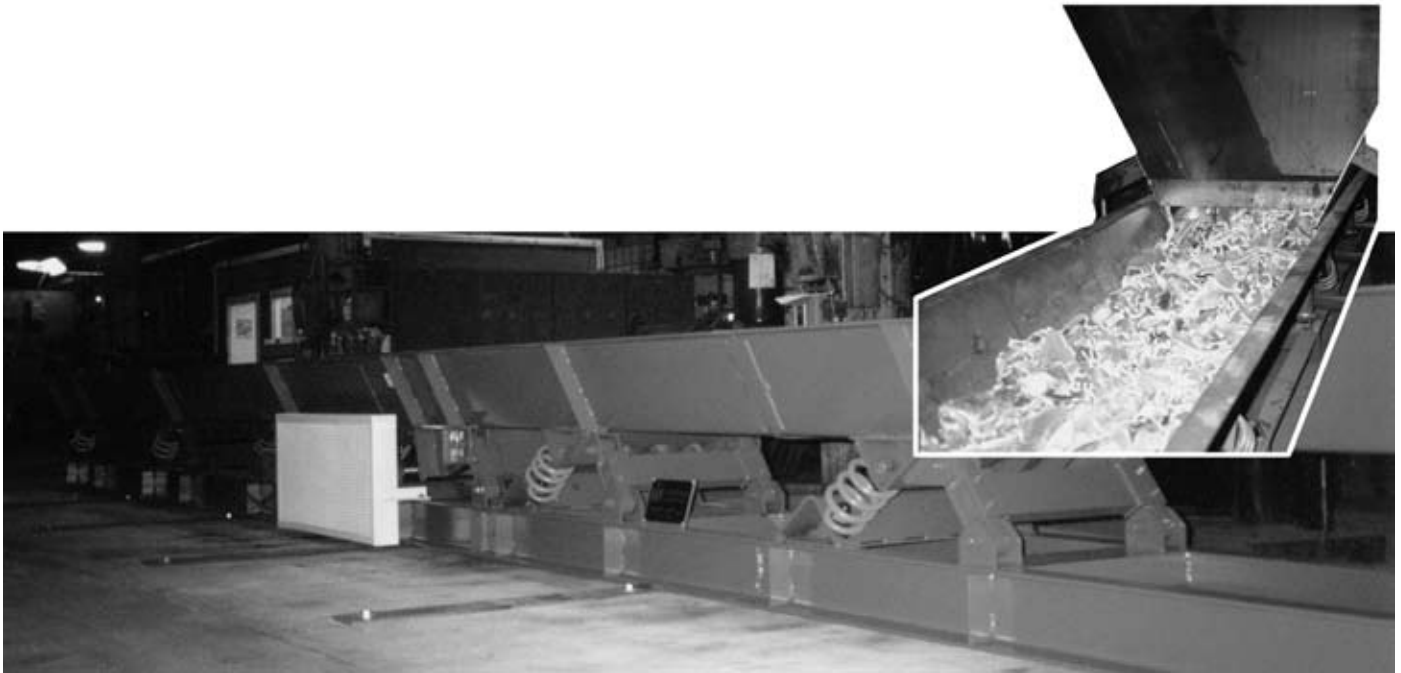
STANDARD AND HIGH TEMPERATURE HEAVY DUTY CONSTRUCTION

The standard construction is heavy duty. The pan is normally constructed of mild steel in thicknesses of 1/4", 3/8", and 1/2". Other materials of construction are available. The spring pads are a heavy fabricated angle weldment. The base is normally fabricated of wide flange heavy rolled channel, with cross members at rocker arms.

The Webster Coil/Web vibrating conveyors are also available in two constructions types, dependent on the temperature of the material being conveyed. The standard type of construction is used for materials whose temperature is no higher than 150°F - 200°F. For hotter materials, a high temperature or heat expansion construction is used. The heat expansion type is designed so that the pan is free to expand or contract independently from the reactor spring and drive systems. This heat expansion pan is also designed to reduce heat conduction to the spring and drive systems.

COILWEB & COILWEB LS CONVEYORS

For Heavier Duty Applications



Nominal Capacity - TPH 1" Stroke @ 45 FPM

NOTE: CAPACITIES MAY BE SIGNIFICANTLY
INCREASED FOR SPECIFIC APPLICATIONS

SELECTION

The nominal rated capacity of the standard Webster CoilWeb and CoilWeb LS Vibrating Conveyors are shown on the capacity chart. The chart is based on the 1" stroke, 6" material depth, and 45 fpm rate of travel. Actual capacity and pan width and depth can vary for each application.

DETAILS OF CONSTRUCTION

Pan widths for the standard CoilWeb range from 18" bottom to 48" bottom with plate thickness of 1/4", 3/8", and 1/2" in lengths up to 200 feet with a single drive. Other sizes including pans wider than 48" are available.

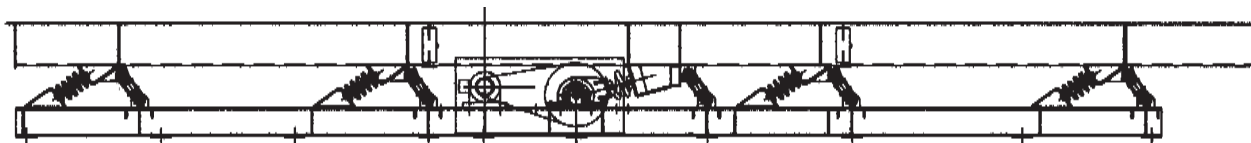
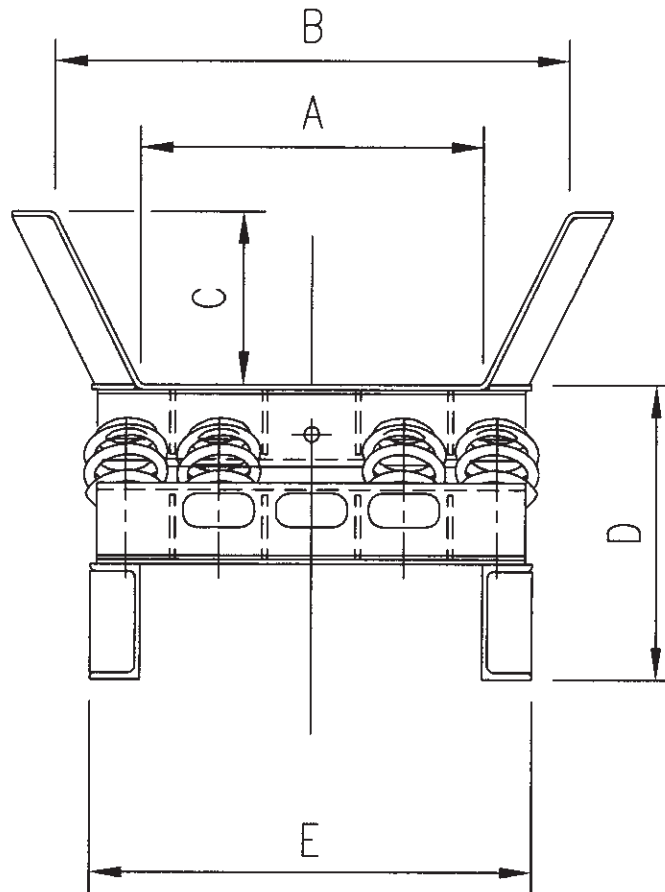
Pans for the standard CoilWeb Vibrating Conveyors are made with the sides flared out so the opening width at the top is greater than the bottom width.

The base is made of a pair of rolled structural wide flange channel. Anchor bolt pads may be welded on the underside by the customer so it contacts the foundations only where it is attached.

PAN SIZE	A	B	C	D	E
18/27	18	27	9	1'-8 3/16"	2'-1"
18/30	18	30	12	1'-8 3/16"	2'-1"
24/33	24	33	9	1'-8 3/16"	2'-7"
24/36	24	36	12	1'-8 3/16"	2'-7"
30/39	30	39	9	1'-8 3/16"	3'-1"
30/42	30	42	12	1'-8 3/16"	3'-1"
36/45	36	45	9	1'-8 3/16"	3'-7"
36/48	36	48	12	1'-8 3/16"	3'-7"
42/51	42	51	9	1'-8 3/16"	4'-1"
42/54	42	54	12	1'-8 3/16"	4'-1"
48/57	48	57	9	1'-8 3/16"	4'-7"
48/60	48	60	12	1'-8 3/16"	4'-7"

CoilWeb Dimensions

Pans of other sizes and plate thicknesses are available with either flared or vertical sides to suit customer needs.

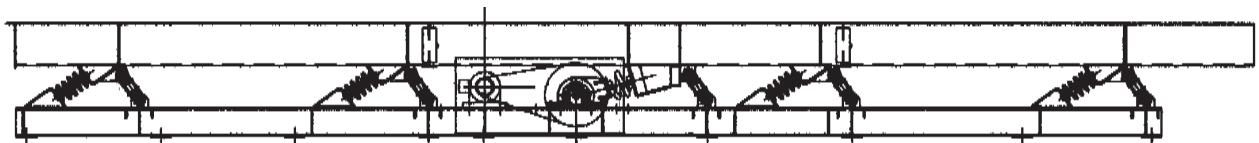
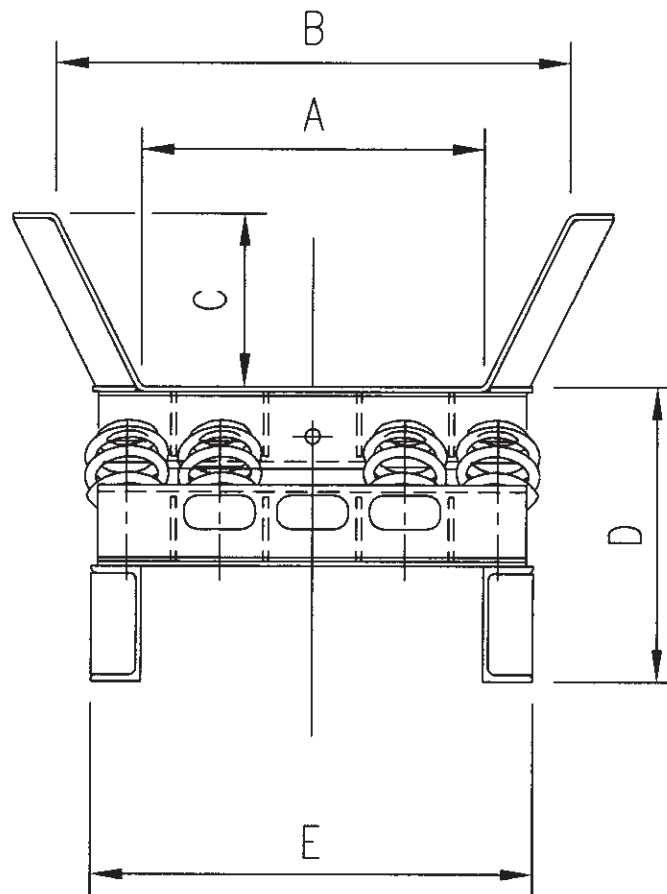


CoilWeb Elevation

PAN SIZE	A	B	C	D	E
18/27	18	27	9	1'-11 ³ / ₁₆ "	2'-1
18/30	18	30	12	1'-11 ³ / ₁₆ "	2'-1
24/33	24	33	9	1'-11 ³ / ₁₆ "	2'-7
24/36	24	36	12	1'-11 ³ / ₁₆ "	2'-7
30/39	30	39	9	1'-11 ³ / ₁₆ "	3'-1
30/42	30	42	12	1'-11 ³ / ₁₆ "	3'-1
36/45	36	45	9	1'-11 ³ / ₁₆ "	3'-7
36/48	36	48	12	1'-11 ³ / ₁₆ "	3'-7
42/51	42	51	9	1'-11 ³ / ₁₆ "	4'-1
42/54	42	54	12	1'-11 ³ / ₁₆ "	4'-1
48/57	48	57	9	1'-11 ³ / ₁₆ "	4'-7
48/60	48	60	12	1'-11 ³ / ₁₆ "	4'-7

CoilWeb LS Dimensions

Pans of other sizes and plate thicknesses are available with either flared or vertical sides to suit customer needs.



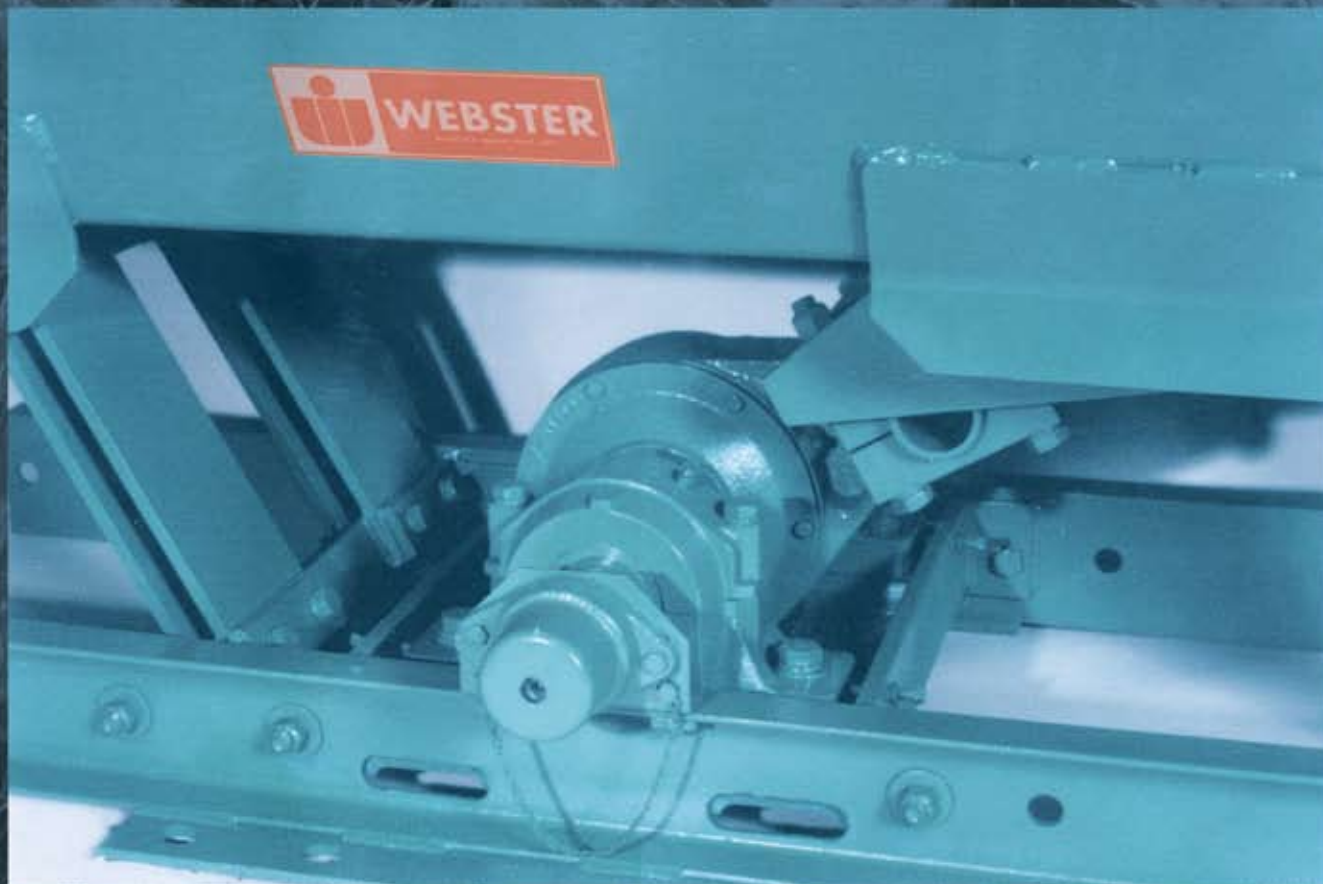
CoilWeb LS Elevation



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