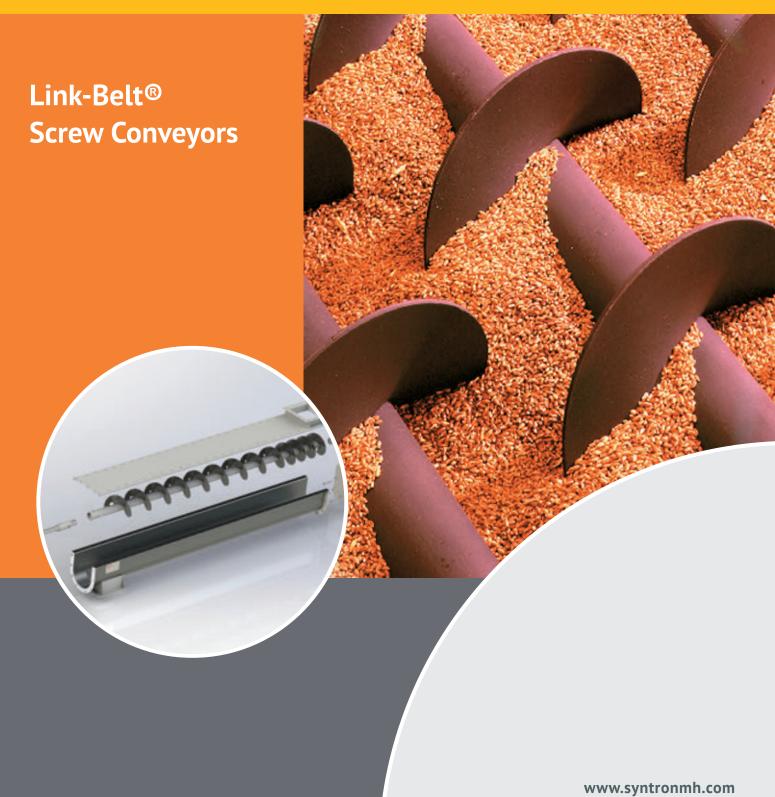
# **Syntron** Material Handling



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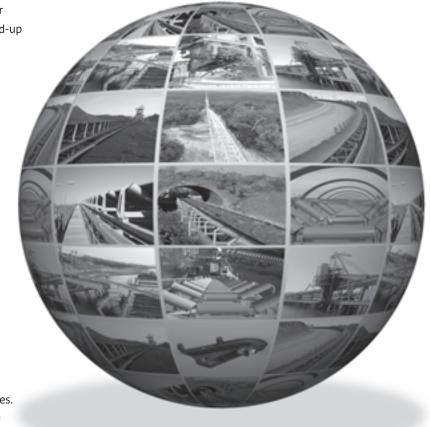


### Proven Engineered Products - Complete Material Handling Solutions

Let Syntron Material Handling's knowledgeable team help your business with conveying, feeding, screening, elevating, vibratory flow aids, and mining controls of bulk product. Whether optimizing existing systems or starting from the ground-up on new and customized plants or mines, our dedicated staff will provide you with the most efficient and cost-effective solutions.

An international leader for innovative solutions, Syntron Material Handling can improve the technology customers are already using. The Link-Belt® expertise and equipment have been instrumental in developing some of the world's largest belt conveyors. The Syntron® feeders are instrumental to supplying energy sources and material handling efforts across the globe.

While management leads the way, the real heartbeat of Syntron Material Handling is a team of employees that have taken idlers, feeders and material handling equipment to new levels of excellence. Many have fine-tuned their skills for more than 20, 30, 40 or even 50 years. Centering our entire operation in Saltillo, MS allows us to maintain the highest Quality Control Standards and on-time deliveries. Our Quality Management System is certified to the ISO 9001:2015 standard. We are a charter member of CEMA, and active members of NSSGA, NMA, SME, FEMA, and PMMI. For all your Aggregate needs contact the leader... Syntron Material Handling. Moving the World with Link-Belt® and Syntron® Brands.





### Quality Bulk Handling Equipment that Pays Its Way

# Link-Belt® Screw Conveyors and Screw Feeders

Greek mathematician and physicist
Archimedes is acknowledged as the
inventor of the screw conveyor in 235-240
B.C., and essentially his design has not
changed since then.

Syntron Material Handling and Link-Belt® added the new and innovative applications which make the Archimedian screw the indispensable tool it is. Plus, Syntron Material Handling's conveyor equipment specialists improved materials and fabrication techniques and added electricity as a power source in the 125 years we nave specialized in manufacturing screw and conveyor components.

To the basic Archimedian screw Link-Belt® and Syntron Material Handling added conveyor systems and screw feeders, designed them for every conceivable application and manufactured them so well we have become the standard for the industry.

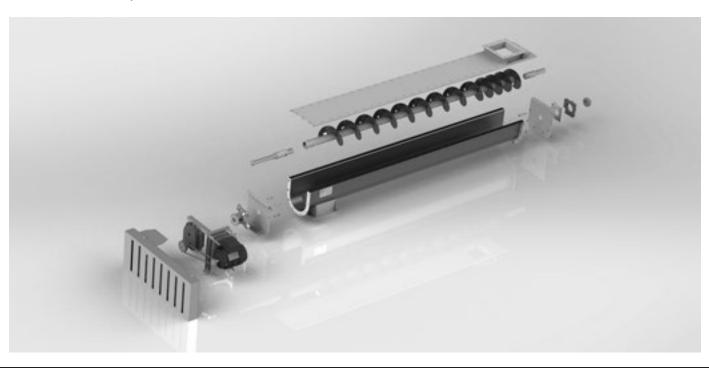
Application engineering is a major reason for the industry's wide acceptance of the Link-Belt® screw conveyor. Studied attention to detail during this phase eliminates costly installation and operation errors.

Close tolerance machining and fabrication in our state-of-the-art manufacturing facility assure equipment quality and performance.

Our ability to meet your needs with a broad selection of screw conveyors and components is important to you, plus your confidence that the equipment you purchase from Syntron Material Handling will earn its stripes and pay its own way, giving you a good return on your investment.

Link-Belt® Screw Conveyors serve modern industry in a wide variety of ways:

- Conveying Distributing
- Collecting Mixing Heating
- Cooling Elevating Batching
- Blending Aerating Providing crystallization or coagulant action and more.



### Unmatched versatility.





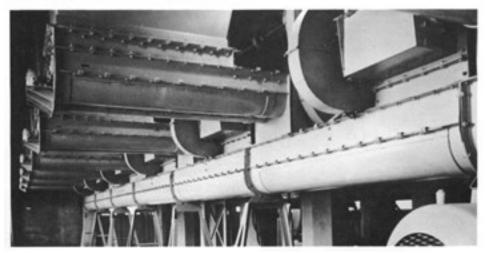
Syntron Material Handling is industry's largest supplier of screw conveyors, feeders and components. You'll find hard-working Link-Belt® Screw Conveyors in a broad range of applications, handling everything from alfalfa meal to zinc oxide-over 250 types of materials. And it doesn't matter whether the material is light or heavy, fine or coarse, granular or flaky, hot or cold, wet or dry, sluggish or free-flowing. Syntron Material Handling's Link-Belt® Screw Conveyors can handle it effectively and economically.

There is a wide selection of Link-Belt® Screw Conveyor types to choose from. We make a complete line of screw feeders, conveyor screws, troughs, trough ends, hangers, bearings, shafts, seals and drives.

**Top Left:** Granular feed supplement being conveyed into storage at a poultry processing facility.

**Center Left:** Heilcoid flight conveyor screws perform efficiently on many snow thrower models.

**Center Right:** Twin 12-inch diameter screw conveyors with fully enclosed dust-tight troughs handling pulverized boiler fuel in power generating plant.







**Bottom:** Helicoid screw conveyors are essential components in this flour collecting system located in a large bakery.

# Engineered for every type of service.

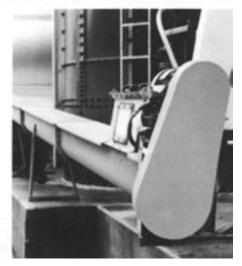






**Top:** Sugar is handled by twin screw feeders and helicoid conveyors in this large bakery. Dropbottom troughs permit easy access and quick cleaning of all parts.

**Center:** Screw conveyor augers are used throughout this combine for gathering, conveying, elevating and distributing the harvest.



**Bottom Left:** Heavy-duty sectional flight conveyor augers installed on boring machine.

**Bottom Right:** Totally enclosed screw conveyors can assure a clean, safe operation.

No one can match our ability to give you the right equipment for your application. Syntron Material Handling engineers pioneered the development of screw conveyors and components for the widest range of materials, purposes and applications. Whether the job involves light-duty service-conveying egg powder, for example-or severe operating conditions-like round-the-clock coal delivery to a power plant-we have the in-depth knowledge and experience to provide just what you need.

Link-Belt® Screw Conveyors are ruggedly built, accurately manufactured and performance proven. And our unequalled field experience is your assurance of the best in service and recommendations.

### Clean, compact design saves space, simplifies installation.

Link-Belt® Screw Conveyors adapt readily to tight quarters and congested locations. No matter how many twists and turns your operation takes, there is a Link-Belt® space saving Screw Conveyor to fit. Our conveyors operate effectively in horizontal, vertical or inclined positions. Their compact design permits easy installation. And they're simple to support.

If you should need replacement parts, you can count on controlled-tolerance standardized parts that meet CEMA specifications. They're interchangeable for fast, easy assembly, and they don't require special tools.

So if space is at a premium, or if you want simple installation and maintenance for better on-line performance, dependable Link-Belt® Screw Conveyors are your best choice.

# Nearby service when you need it.





When you buy from Syntron Material Handling, you can rely on our factory-stocked equipment and parts. You keep downtime to a minimum because you get fast turnaround-from order entry to parts delivery at your plant or jobsite.

# When it comes to bulk material handling, think Syntron Material Handling.

Syntron Material Handling has the uncommon ability to solve any screw conveying problem you might face. We've got the equipment selection experience and the customer service you expect to maintain and operate your facility.

**Top Right** - Over 40 feet of screw conveyors carry malt and rice from storage to mills in this factory.

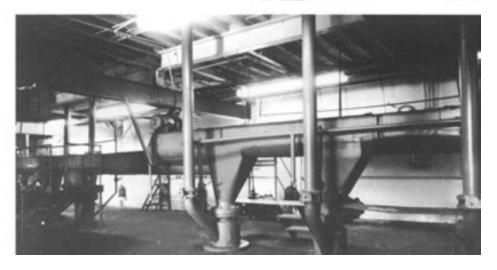
**Center Left** - Typical installation provides close fitting gates and connections,

**Center Right** - Helicoid screw conveyor delivers 50 tons of coal per hour to boiler room bunkers.

**Bottom** - Granular shell lime distribution system at a large chemical facility.







Screw conveyors are one of the oldest and simplest methods for moving bulk materials and consist primarily of a conveyor screw rotating in a stationary trough, Material placed in the trough is moved along its length by rotation of the screw which is supported by hanger bearings. Inlets, outlets, gates and other accessories control the material and its disposition.

Screw conveyors are compact, easily adapted to congested locations and can be mounted horizontal, vertical, and in inclined configurations. Their supports are simple and easily installed.

These versatile conveyors can be used to control the flow of material in pro-

processing operations which depend upon accurate batching ... or as a mixer, agitator or stirrer to mix and blend dry or fluid ingredients, provide crystallization or coagulant action, or maintain solutions in suspension.

Screw conveyors can be effectively sealed to prevent dust or fumes from escaping or dirt or moisture from entering. They can be jacketed to serve as a dryer or cooler, or furnished in a wide variety of materials to resist corrosion, abrasion or heat.

Screw conveyors are used as earth augers to dig post holes or to bore under highways for installation of culverts. They are also used extensively on combines,

threshing machines, hay bailers, fodder blowers and many other farm machines.

Screw feeders are modified screw conveyors used to control the flow of material at a constant or variable rate from track hoppers, storage hoppers, bins or tanks. They are suitable for handling a wide variety of materials ranging from fines to a combination of fines and lumps. Under many conditions, feeders are also used as a valve.

Screw feeders are totally enclosed, compact, simple in design and dust-tight. They are economical to install, operate and maintain.

#### **Conveyor Screw**

The conveyor screw is the rotating portion of a screw conveyor which imparts smooth and positive motion to the bulk material being conveyed. It consists of spiral

flighting mounted on a pipe and is made either right or left hand to suit the screw rotation and the desired direction of material travel.



#### **Conveyor Screw with Drive Shaft**

The conveyor drive shaft connects the conveyor screw to the driving unit and transmits rotary motion to the screw. Coupling bolts secure the drive shaft in the conveyor screw.



The conveyor drive shaft, end shaft and coupling support the conveyor screw sections and keep them in alignment. The end shaft is located at the end opposite the drive shaft. Couplings are used to connect successive conveyor screw

sections when more than one section is necessary to make up the total length of conveyor. The shafts and coupling are secured in the conveyor screws by coupling bolts.

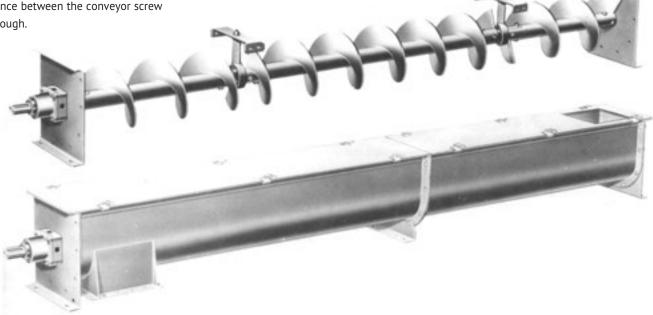


### **Trough Ends and Hangers**

The trough ends support the conveyor drive and end shafts while the hangers support the conveyor couplings, thereby maintaining proper alignment and clearance between the conveyor screw and trough.

To provide additional protection for the drive shaft and end shaft bearings, for or against the material being handled, trough

end seals are assembled between the flanged blocks and the trough end plates.



# Conveyor Trough with Inlet Opening and Discharge Spout

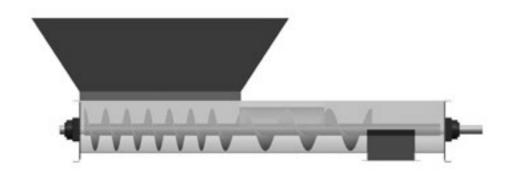
The trough is the enclosure in which the material is confined and guided in its movement. Trough end flanges preserve the contour of the trough, facilitate assembly of adjoining sections, and insure accurate alignment. Supporting feet at the trough joints or saddles located between the joints, support the intermediate trough sections.

# Typical Screw Conveyor Complete With Drive

A shaft mounted speed reducer makes a simple and compact drive combination. The drive consists of a standard shaft-mounted speed reducer with adapter having a built-in, seal and mounted on a steel plate trough end. A welded steel adjustable motor support bracket is rigidly mounted on the adapter and provides ample clearance over the trough end for easy trough cover removal.

Discharge spouts provide outlets for the material and direct its flow to bins or succeeding equipment- With more than one discharge point in a conveyor, selective control may be exercised by means of slide gates, made integral with the discharge spouts.

Trough covers with fasteners complete the conveyor enclosure. Material is fed into the conveyor through inlet openings in the cover.



### **Conveyor Screws**

#### **Helicoid Flight Conveyor Screws**

The helicold flight conveyor screw is made of a helix, formed from a flat steel bar or coil strip and mounted on a pipe or shaft. The helix, formed by special rolling equipment to the required diameter, pitch and thickness, is a smooth, continuous one-piece flight.

By virtue of its one-piece construction, it possesses superior strength. The absence of laps, rivets or welds on the carrying face of the Flight promotes and maintains cleanliness and reduces wear. The rolling process effects a hardening and smoothing of the flight surface which increases resistance to wear and reduces friction and power consumption.

The flight is fastened to the pipe, or shaft, by intermittent or continuous welds and with or without formed steel end lugs. The pipe, of a size carefully selected for adequate torsional strength and resistance to excessive deflection, has internal collars at each end. These collars are permanently inserted and have appropriate inside diameters to accept coupling or end shafts.

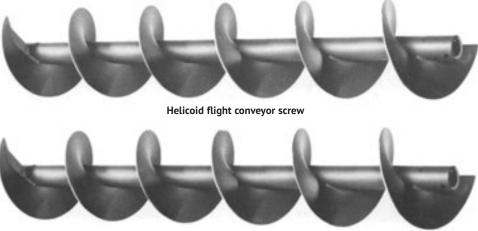
The assembled helicoid flight conveyor screw is solidly constructed and exceptionally sturdy, and its inherent balance permits operation at high speeds. Its distinctive characteristics contribute to maximum efficiency, durability and economy.

Helicold flight conveyor screws are interchangeable with sectional flight conveyor screws of the same diameter and shaft size.

Helicold flighting is made with regular pitch approximately equal to the diameter. It can also be furnished with other than regular pitch and in a wide range of diameters, thicknesses and lengths to meet the most exacting requirements.

For extremely heavy duty the flighting may be continuously welded to the pipe or shaft on one or both sides.

Consult Syntron Material Handling for information on special requirements.



#### Sectional flight conveyor screw

#### **Sectional Flight Conveyor Screws**

Sectional flight conveyor screws are made of individual flights, each blanked from a flat steel plate and formed into a helix. The flights are butt welded together and fastened to the pipe or shaft by intermittent or continuous welds and with or without formed steel end lugs. Sectional flights are formed with regular pitch approximately equal to the diameter.

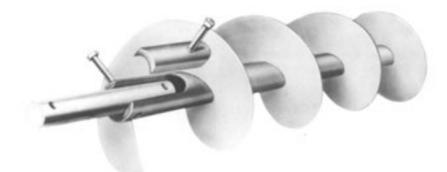
Sectional flight conveyor screws are interchangeable with helicoid flight conveyor screws of the same diameter and shaft size.

Sectional flights afford flexibility in choice of diameters, pitches and thicknesses. The

sectional flight conveyor screw is a sturdily constructed assembly, carefully designed to render efficient, economical and lasting service.

When desired, sectional flights may be lap welded together, or flights may be continuously welded to the pipe on one or both sides, thus providing exceptionally rugged construction for the most severe conveying applications.

Many variations of sectional flight conveyor screws can be furnished to meet specific needs. Some of these are listed on the following pages.



#### **Quik-Link Conveyor Screws**

The Quik-Link conveyor screw Is designed for easy removal from the conveyor trough. Each section of screw is provided with a Quik-Link key located at one end of the pipe. By removing this key, a conveyor

screw section and coupling with hanger can be quickly and conveniently disassembled without disturbing other components. Quik-Link conveyor screws are available in both the helicold flight and sectional flight construction.

### **Conveyor Screws**















**Cut flight conveyor screws** have notches cut in the periphery of either helicoid or sectional flights. These notches supplement the conveying action with a moderate mixing action. They are used for light, fine, granular or flaky materials.

**Ribbon flight conveyor screws** consist of continuous helical flighting formed from steel bar and secured to the pipe by supporting lugs. They are used for conveying sticky, gummy or viscous substances, or where the material tends to stick to flighting at the pipe.

Conveyor screws with paddles have paddles spaced at intervals and set to partially oppose the forward flow, to provide a moderate mixing or stirring of materials being conveyed. Paddles are adjustable and may be set at any angle to produce the desired degree of agitation. They are used for light or medium weight, fine, granular or flaky materials.

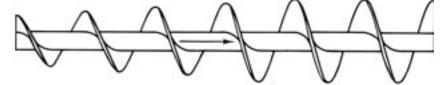
**Cut and folded flight conveyor screws** provide folded segments which act as lifting vanes to produce a cascading effect. This promotes agitation and aeration, resulting in better mixing. They are used for light or medium weight, fine, granular or flaky materials.

**Short pitch conveyor screws** are of regular construction except that the pitch of the flights is reduced. They are recommended for use in inclined conveyors of 20 degrees slope and over, including vertical conveyors and are extensively use as feeder screws. They retard flushing of materials of a fluid nature.

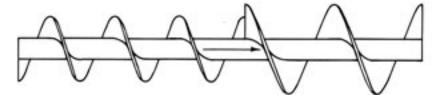
**Cut flight conveyor screws with paddles** have paddles mounted at intervals and set to counteract the flow of materials, considerably increases the agitation and mixing action produced by the cut flights.

**Paddle conveyor screws** have formed steel blades mounted on rod shanks inserted through the pipe. Conveying action can be controlled by adjusting the angle of the paddles. They are used for mixing, blending or stirring dry or fluid materials.

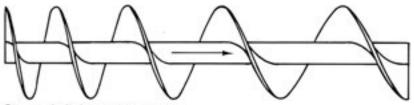
# **Conveyor Screws**



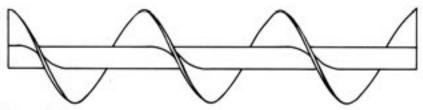
Tapering flight conveyor screw



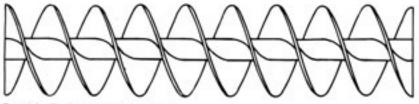
Stepped diameter conveyor screw



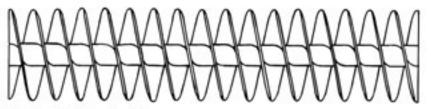
Stepped pitch conveyor screw



Long pitch conveyor screw



Double flight conveyor screw



Double flight short pitch conveyor screw

#### Tapering flight conveyor screws

are frequently used as feeder screws for handling friable lumpy material from bins or hoppers and also to draw the material uniformly from the entire length of the feed opening.

#### Stepped diameter conveyor screws

consist of flights of different diameters, each with its regular pitch, mounted in tandem on one pipe or shaft. They are frequently used as feeder screws, with the smaller diameter located under bins or hoppers to regulate the flow of material.

#### Stepped pitch conveyor screws

are screws with succeeding single or groups of sectional flights increasing in pitch and are used as feeder screws to draw fine free-flowing materials uniformly from the entire length of the feed opening.

#### Long pitch conveyor screws

are occasionally used as agitators for liquids or rapid conveying of very free-flowing materials.

#### Double flight conveyor screws

of regular pitch promote a smooth gentle flow and discharge of certain materials.

**Double flight short pitch conveyor screws** assure more accurate regulation of feed and flow in screw feeders and effectively deter flushing action of fluid materials.

### **Conveyor Screws**

#### **Ribbon Flight Conveyor Screws**

consist of sectional flights, butt welded together to form a continuous helix. Flights are secured to the pipe by supporting lugs.

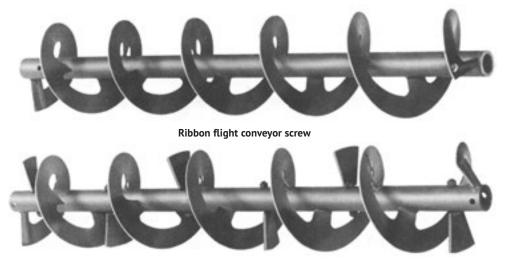
Variations of diameter, pitch, flight width or thickness can be furnished. Also, these screws can be furnished with either continuous or sectional flights, lap or butt welded together.

Ribbon flight conveyor screws are the solution to most conveying problems encountered in the handling of sticky, gummy or viscous materials. The tendency of materials of this nature to adhere and build up at the juncture of solid flight with the pipe is overcome by the open construction of the ribbon flight. Raw sugar, molasses, asphalt, hot tar, sticky feed mixes, and similar products are typical of the many materials successfully handled by ribbon flight conveyor screws.

Providing the periphery of ribbon flights with a beveled edge improves operation and reduces power consumption when handling materials which tend to pack or trowel between flights and trough.

Consequently, beveled edge ribbon flight conveyor screws are usually subjected to extremely heavy loads, and construction is accordingly heavy and rugged. The ribbon flights are supported on the pipe or shaft by steel lugs, generously proportioned to resist bending.

Where the material handled moves virtually en masse, there is but very slight difference in capacity between ribbon and solid flight conveyor screws of the same size. Mixing action without supplementary means of agitation is negligible.



Ribbon flight conveyor screw with paddles

### Ribbon Flight Conveyor Screw with Paddles

To provide moderate mixing or stirring of materials being conveyed, paddles can be furnished, spaced at intervals and set to partially oppose the forward flow. Paddles are adjustable and may be set at any angle to produce the desired degree of agitation. They are used for light or medium weight, fine, granular or flaky materials.

# Multiple Ribbon Flight Conveyor Screws

This type of screw consists of two or more ribbon flights of different diameters and opposite hand, mounted one with in the other on the same pipe or shaft by rigid supporting lugs. Material is moved forward by one flight and backward by the other, thereby including positive and thorough mixing.

#### **Abrasion-Resistant Conveyor Screws**

The particularly severe service encountered when conveying abrasive materials has prompted many attempts to overcome excessive wear on flights. Several successful methods have been developed.

Each of these methods offers specific advantages depending on the nature of the material handled and the application. For a careful analysis and recommendation, consult Syntron Material Handling.

**Hard surfacing** by application of a special compound, by arc or torch, to the flight periphery or face, or both, provides an exceptionally hard surface at the points of greatest wear.

For severe applications, conveyors with high alumina ceramic tile bonded to the flight periphery or face are also available.

### Corrosion-Resistant Conveyor Screws

Corrosion is manifested in so many different ways that no one choice of material will suit all requirements. To withstand the effects of corrosion encountered in many fields of industry, conveyor screws are fabricated of stainless steel, Monel metal, aluminum, and other materials.

Galvanizing and other coating methods have proved effective under mildly corrosive conditions. Vulcanized or bonded rubber covering of the entire conveyor is frequently satisfactory for resistance to extremely corrosive action.

#### **Heat-Resistant Conveyor Screws**

Conveyor screws for high temperature applications are made of many of the available heat-resistant alloys. Several of the stainless steels and other high-chrome alloys are particularly suitable for this service.

### **Drive Shafts, End Shafts and Couplings**

The conveyor drive shaft delivers the driving power, and is therefore carefully designed of quality steel of the proper characteristics to provide adequate torque, bending and shear strength, and with closely controlled tolerances for correct bearing clearances.

For conveyors of unusual length or for severely heavy loads, alloy steels, heat-treated high carbon steels or 3-bolt connections, are used.

Jig-drilled coupling bolt holes and accurately cut keyways contribute to ease of assembly.

The conveyor end shaft supports the last section of conveyor screw and is furnished with close tolerances for proper operation in end bearing. Coupling bolt holes are jig drilled for interchangeability and ease of assembly.

**Conveyor couplings** connect and space adjoining sections of conveyor screw and transmit rotation.

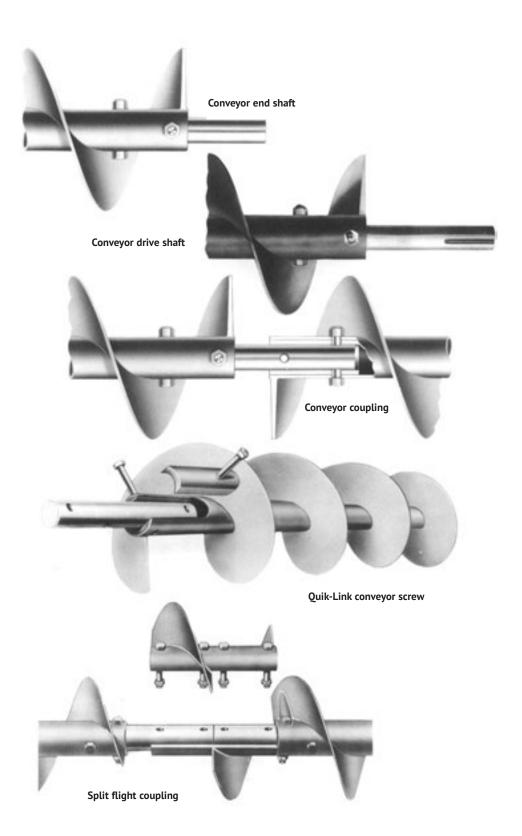
Carefully selected steels, with accurate heattreating or hard surfacing when required, insure ample strength and resistance to wear for the kind of service specified.

For conveyors of unusual length or for severely heavy loads, alloy steels, heat-treated high carbon steels or 3-bolt connections are used.

Close tolerances on diameters and jig-drilled coupling bolt holes assure interchangeability and ease of assembly.

**Quik-Link conveyor screws** provide an easy means for the quick removal of a conveyor screw section and coupling with hanger without disturbing other components. Regular couplings are used with these screws.

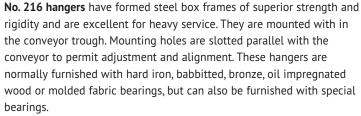
Split flight couplings permit installing or removing individual conveyor screws without disturbing adjoining sections. With split flight couplings installed on both sides of each hanger, conveyor screws can be removed without disturbing the hangers. The Link-Belt® split flight coupling is sturdily constructed and jig-drilled for coupling bolts.



### **Hangers**

No. 216 hangers

No. 216F hangers



No. 216F hangers are similar in construction to No. 216 hangers except they are designed to mount in, flared trough.





No. 220 hangers are similar in construction to No. 226 hangers, except they are mounted on top of the trough flanges. Mounting holes are slotted parallel with the conveyor to provide adjustment and alignment. These hangers are normally furnished with hard iron, babbitted, bronze, oil impregnated wood or molded fabric bearings, but can also be furnished with special bearings.

No. 226 hangers have a rigid, formed-steel box frame with clearance for passage of material in large volume. They are mounted within the conveyor trough. Mounting holes are slotted parallel with the conveyor to permit adjustment and alignment. These hangers are normally furnished with hard iron, babbitted, bronze, oil impregnated wood or molded fabric bearings, but can also be furnished with special bearings.

No. 226 hangers



No. 270 ball bearing hangers



No. 316 hangers



No. 326 hangers



No. 270 ball bearing hangers have self-aligning ball bearings. The frame is a box-member top-bar with a pipe stem support for the bearing. The bearing is factory adjusted for the proper length from the top-bar and locked with a sealant and a lock nut. The frame is designed for mounting inside the trough and slotted mounting holes parallel to the conveyor permit adjustment and alignment.

No. 316 hangers have formed steel frames of superior strength and rigidity and are excellent for heavy service. They are mounted within the conveyor trough, are self-adjusting and will accommodate operating variations which may exist between the conveyor screw and trough. Mounting holes are slotted parallel with the conveyor to permit adjustment and alignment. These hangers are normally furnished with hard iron, babbitted, bronze, oil impregnated wood or molded fabric bearings, but can also be furnished with special bearings.

No. 326 hangers have a rigid, formed steel frame with clearance for passage of material in large volume. They are mounted within the conveyor trough, are self-adjusting and will accommodate operating variations which may exist between the conveyor screw and the trough. Mounting holes are slotted parallel with the conveyor to permit adjustment and alignment. These hangers are normally furnished with hard iron, babbitted, bronze, oil impregnated wood or molded fabric bearings, but can also be furnished with special bearings.

# **Trough End Plates**

Trough end plates for either U-trough or flared trough are made of heavy gauge steel plate with the top flanged to support the trough cover. They are furnished with or without supporting feet.

Trough end plates can be made of stainless steel or nonferrous metals for corrosive or high temperature applications. They can also be furnished with protective coatings, such as galvanizing.

They may be equipped with either sleeve, bolt, or roller bearing flange blocks, or with the addition of a mounting shelf, pillow block bearings.

**Drive Shaft Trough Ends** are of the double ball bearing and double roller bearing types. Each consists of a rigid shaft, operating in double bearings and designed to accommodate both radial and thrust loads. The radial or overhung load is usually a chain drive connected to a power source. Since the bearings will also accept thrust loads in either direction, the need for auxiliary thrusts is eliminated.

**Drive shaft trough ends with double ball bearings** consist of double ball bearing flanged blocks rigidly attached to heavy steel plate trough ends for either U-troughs or flared troughs. The gray iron housings are of one-piece construction and are precision machined for accurate alignment. Effective seals are provided in the flanged blocks to exclude dirt and moisture and retain lubricant.

**Drive shaft trough ends with double roller bearings** consist of heavy duty double roller bearing flanged blocks mounted by means of machined surfaces into extra heavy steel plate trough ends for either U-troughs or flared troughs. The gray iron housings are accurately machined and fitted with roller bearings of high radial and thrust capacity. The blocks have effective seals and are arranged for easy lubrication.

**Countershaft trough ends** are used on screw conveyors where application of right angle drives is necessary due to space limitations, interference of adjoining equipment or for better service and maintenance accessibility.

Application of countershaft trough ends permits drive installations alongside, above or below the conveyor and permits using horizontal drives for inclined conveyors. A common drive for two conveyors intersecting at right angles, or a battery of parallel conveyors driven from a common source, can be readily arranged.



Trough end with feet



Tubular trough end



Trough end without feet



Flared trough end



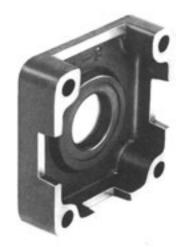
Trough end with double roller bearing

# Seal Glands, Trough End Seals and Trough End Bearings

**Seal glands and trough end seals** are used to provide additional bearing protection against dust or fumes from within the trough and prevent entrance, along the shaft, of dirt, moisture or lubricant.

The trough end seal housings are made of gray iron and are designed for assembly between babbitted, bronze or ball bearing flanged blocks and the trough end plates. They can be provided with lip-type seals for effective protection for or against the materials being handled, with felt seals when handling dusty materials, or with waste packing when handling abrasive materials.

Seal glands consist of gray iron, split flanges into which packing materials are compressed against machined steel collars. They are used internally on all trough ends except the outboard bearing type on which they are externally mounted. These seals provide maximum protection for or against the materials being handled.



Trough end seal



Internal mounting seal gland

### Trough end bearings

**Babbitted** and bronze bearing flanged blocks are made with one-piece gray iron housings. Babbitted bearing blocks are for general use where loads and speeds are moderate. Bronze bearing blocks are used where heavy bearing pressures, impact loads or temperature conditions are involved.

Ball bearing flanged blocks consist of single row, deep groove, self-aligning ball bearings, which are effectively sealed, mounted in one-piece gray iron housings. Spring locking collars with two set screws hold the bearings firmly on the shafts.



Ball bearing Flanged block

### **Troughs**

The trough not only confines and guides the flow of material, but also serves as the housing in which all operating components are supported and held together in their proper functional relationship. Accuracy in manufacturing and inherent strength to maintain this accuracy are therefore, essential.

Link-Belt® designs, and manufacturing methods, are constantly being improved to provide these qualities to the fullest extent while at the same time affecting economies in weight and space requirements.

Flanged trough - By forming the top flanges integrally with the trough sides from a single steel sheet, adequate strength and rigidity is obtained without superfluous bulk or weight. Steel connecting flanges, securely welded at each end in special welding fixtures to assure square, true ends, facilitate assembly, insure proper alignment and preserve the contour of the trough.

**Angle Flanged trough -** This trough is identical in construction to the flanged trough, except that top flanges are obtained by securely welding structural steel angles to the trough.

**Flared trough -** This trough is of conventional construction except that trough sides are flared outward to afford a wider top opening. This results in improved feed and conveying action with sticky materials or materials which are not entirely free flowing. It is customarily used with ribbon flight conveyor screws.

Corrosive or high temperature applications may require the specific qualities that make stainless steel and non-ferrous metals well adapted to these services. In general, any type of trough that can be fabricated of mild steel can also be made of stainless steel or aluminum, brass, bronze, copper, Monel metal, nickel, etc. For resistance to corrosion there are numerous protective coatings that are applied to steel troughs and covers. Galvanizing, tinning, chrome plating, etc., are all effective for certain applications. Vulcanized or bonded rubber coatings resist abrasion and corrosion.



Flanged trough



Angle flanged trough



Flared trough

# **Troughs**

**Drop bottom troughs** are equipped with a drop bottom usually hinged, held in place by spring clamps of various types for ready access to trough interior, conveyor screws and hangers.

This design facilitates quick, thorough, and frequent cleaning of the trough, screw and other parts and is particularly useful to combat infestation and promote sanitation.

**Channel side troughs** are made with separate detachable trough bottoms, bolted or clamped to formed or rolled steel channels. The channels may be of any reasonable length to span widely spaced supports. Trough bottoms are made in lengths up to 12 feet.

This trough is occasionally selected for ease of replacement of trough bottoms subject to unusually severe abrasive or corrosive wear.



# **Trough Support**

**Supporting feet** are of formed steel for use with end flanges and provide a convenient means of aligning and supporting conveyors from floors, and supporting structures.

**Supporting saddles** are used when location of support points does not coincide with the spacing of joint flanges or when troughs with butt strapped connections are used.







# **Trough Covers**

Covers are used for protection of operating personnel, dust control or protection for or against the material being handled. When required, protective seals can be furnished between the covers and troughs. Covers are made in three general types: plain, semi-flanged and flanged.

**Plain** covers consist of flat steel sheets and can be furnished with spring clamps, screw clamps or bolts.

**Semiflanged** covers are flanged 30 degrees along the sides and provided with spring clamps attached to the top side of the cover These covers can also be furnished with screw clamps or bolts.

**Flanged** covers have right angle flanges along the sides to provide a stiffer cover for more convenient handling. They are normally attached to the trough with screw clamps or bolts.

**Hip Roof** covers are peaked to form a longitudinal ridge. They are normally furnished for use in outdoor applications because of their ability to shed water.

**Shrouds** are used in U-trough sections of screw feeders to decrease the clearance between the cover and feeder screw to obtain proper feed regulation.



# **Trough Discharge Spouts and Gates**

Discharge spouts and gates afford the means for discharging material from the trough and for connection to succeeding equipment to which material is delivered. Gates provide for selective control of multiple spouts.

All spouts and gates are of welded steel construction with connecting flanges punched with accurately spaced holes for interchangeability and ease of assembly.

Spouts and gates can be fabricated of stainless steel and nonferrous metals. Spouts of special design can be furnished to accommodate unusual conditions.

**Plain** discharge openings are cut in the bottom of the trough at the desired location to provide free discharge of material. They are used for delivering to open or closed storage or similar applications.

**Discharge** Spouts are welded in place when furnished with a complete conveyor. They are furnished in thicknesses proportioned for the size and thickness of trough.

**Flush end** discharge spouts are furnished welded in place on flanged or angle flanged trough. They are furnished in thicknesses proportioned for the size and thickness of the trough.

**Hand Slide** Gates are made to attach to discharge spouts and can be operated from any one of the four sides, provided there is sufficient clearance for the gate in its open position.

**Rack and Pinion** slide gates have cut tooth racks welded to the sideplates and actuated by cut tooth pinions mounted on pinion shafts operated by hand wheels or chain wheels. These are available with either flat slide plates or curved slide plates.

**Air Operated** gates are high quality units designed for low-friction performance in applications requiring frequent gate operation. These gates are built to accept a flange-faced air cylinder and have a roller mounted slide plate operating in a formed steel housing. The cylinder can be furnished with the gate or supplied by the user for field installation. No air piping or controls are provided with these gates.

Slide gates, either hand or rack and pinion operated, may be installed in practically all applications for operation either parallel or at right angles to take conveyor axis. Rack and pinion operated gates may be furnished with chain wheels and chains for remote control. Pinion shafts may be extended to accommodate various operating arrangements.



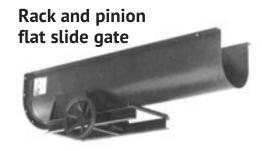
#### **Discharge Spout**



#### Flush end discharge spout







### **Technical Data**

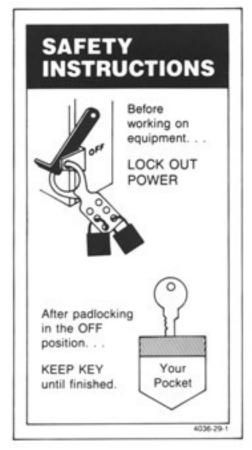
The Link-Belt® screw conveyor layout, engineering and component selection information in this section is provided to assist you in the selection of the proper conveyor components for your particular material handling requirement. It has been compiled during the many years of experience designing numerous and varied screw conveyor installations, and includes detailed information on all Link-Belt® standard screw conveyor components and accessories.

The data and formulas presented permit easy selection of the necessary components for handling materials under normal operating conditions by horizontal screw conveyors and screw feeders.

Where unusual applications or severe operating conditions are a factor or where there is doubt concerning the correct selection, contact Syntron Material Handling, Tupelo, MS to assist you with additional information.

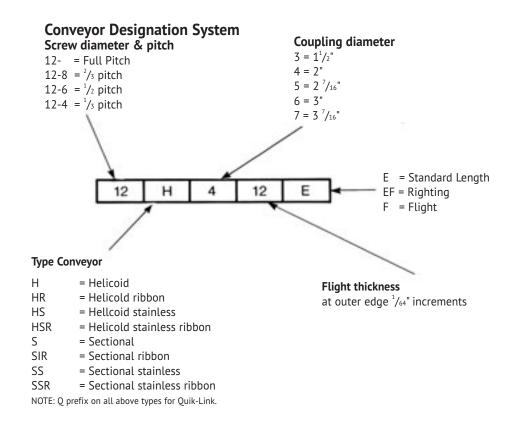
CAUTION: Link-Belt® Screw Conveyors and components must be installed, operated and maintained in accordance with Syntron Material Handling Service Instructions. Failure to follow these instructions can result in serious personal injury, property damage or both.

Service Instructions are available online at www.syntronmh.com



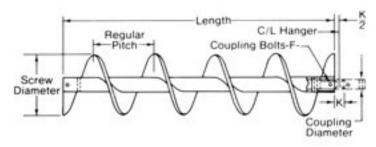


### engineering information



	7.00	Nominal	He	rlicoid Flight	25 1.00	Sectional F	light .
Screw Diameter	Coupling Diameter.	Pipe Size Inches	Conveyor Screw Size		ness of Inches	Conveyor Screw Size	Thickness of Flight,
Inches	Inches	(1)	Designation	Inner Edge	Outer Edge	Designation	Inches
6	1½ 1½ 1½	2 2 2	6H304 6H308 6H312	% % %	V16 1/6 1/16	6S307 6S309 6S312	12 ga. 10 ga. %
9	1½ 2 1½ 2 2	2 2½ 2 2½ 2½ 2½	9H306 9H406 9H312 9H412 9H414	716 716 % % 716	¥32 ¥32 ¥16 ¥16 ¥32	9S307 9S407 9S312 9S412 9S416	12 ga. 12 ga. *** *** ***
10	11/2	2 2½	10H306 10H412	₹16 %	%32 ¾16	10S309 10S412	10 ga. ₩
12	2 21/m 2 21/m 3	2½ 3 2½ 3 3½	12H408 12H508 12H412 12H512 12H614	% % % %	% % % % % %	12S409 12S509 12S412 12S512 12S616	10 ga. 10 ga. 16 16 16 16
14	21/16 3	3 3½	14H508 14H614	% 7/16	⅓ 7/a2	14S509 14S616	10 ga. ¼
16	3	3½ 4(²)	16H610 16H614	% % %	%s2 7/s2	16S609 16S616	10 ga.
18	3	3%	18H610	%	%2	18S609	10 ga.

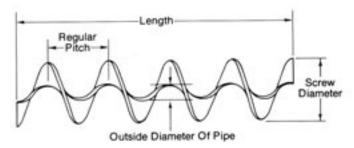
(1) Schedule 40 (2) 3½" for 16S616



**Helicoid Flight Conveyor Screw** 

Helicold Flight Conveyor Screws are made of a continuous one-piece helix fastened to a pipe with spaced intermittent welds. Steel lugs are welded to pipe and flight at both ends, except on 4-inch size.

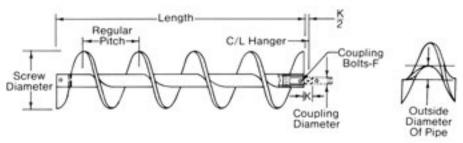
Screw Diameter	Coupling Diameter.	Conveyor Screw		umbers	Length, Feet and	Aver Weig Pour	phit.	Maximum Horse- power	Dia	nal Pipe meter, ches	Thicks of Fli Inch	ght.	Pitch	F	K
Inches	Inches	Number	Left Hand	Right Hand	Inches	Per Section	Per Foot	at 100 rpm	Inside	Outside	Inner Edge	Outer Edge	inches	Inc	ches
4	1	4H204-E	171-85-A	171-85-B	9-10%	32	3.2	1.5	1%	1%	12 ga.	1/16	4	36	13
76	1	4H206-E	171-85-C	171-85-D	9-10%	38	3.9	1.5	1%	1%	3/16	Y <sub>32</sub>	4	%	13
	11/2	6H304-E	171-85-E	171-85-F	9-10	51	5.2	5	2	2%	%	y <sub>se</sub>	6	1/2	2
6	11/2	6H308-E	171-85-G	171-85-H	9-10	66	6.7	5	2	2%	14	36	6	1/2	2
	11/2	6H312-E	171-85-J	171-85-K	9-10	85	8.6	5	2	2%	36	Yne	6	1/2	2
	13/2	9H306-E	171-85-L	171-85-M	9-10	67	6.8	5	2	2%	*/16	3/32	9	1/2	2
	11/2	9H312-E	171-85-N	171-85-P	9-10	103	10	5	2	2%	36	¥16	9	1/2	2
9	2	9H406-E	171-85-R	171-85-S	9-10	89	9.1	10	21/2	2%	3/16	3/32	9	%	2
70	2	9H412-E	171-85-T	171-85-U	9-10	123	13	10	21/2	2%	%	¥16	9	%	2
	. 2	9H414-E	171-85-V	171-85-W	9-10	135	14	10	21/2	2%	3/98	7/32	9	%	2
10	1%	10H306-E	171-85-X	171-85-Y	9-10	70	7.1	5	2	2%	¥16	3/32	10	1/2	2
	2	10H412-E	171-85-Z	171-85-AA	9-10	133	14	10	21/2	2%	%	₹ <sub>16</sub>	10	56	2
	2	12H408-E	171-85-AB	171-85-AC	11-10	144	12	10	21/2	2%	34	1/4	12	%	2
	2	12H412-E	171-85-AD	171-85-AE	11-10	176	15	10	21/2	2%	%	716	12	%	2
12	21/16	12H508-E	171-85-AF	171-85-AG	11-9	167	14	15	3	31/2	34	36	12	56	3
1070	21/16	12H512-E	171-85-AH	171-85-AJ	11-9	201	17	15	3	31/2	%	%e	12	%	3
	3	12H614-E	171-85-AK	171-85-AL	11-9	240	20	25	31/2	4	%e	7/102	12	%	3
14	21/16	14H508-E	171-85-AM	171-85-AN	11-9	176	15	15	3	31/2	%	36	14	%	3
.,	3	14H614-E	171-85-AP	171-85-AR	11-9	245	21	25	31/2	4	7/10	7/12	14	%	3
16	3	16H610-E	171-85-AS	171-85-AT	11-9	218	19	25	3%	4	%16	1/102	16	%	3
	3	16H614-E	171-85-AU	171-85-AV	11-9	300	26	25	4	41/2	7/16	7/12	16	34	3



**Helicoid Flight** 

Helicold Flighting is manufactured in a continuous one-piece helix of the desired diameter, pitch and thickness. The helicold flight is tapered in cross section, with the thickness at the inner edge about twice the thickness at the outer edge.

Flighting Diameter.	Inside Diameter	Conveyor	Part N	lumbers	Length Feet	Aver Wei Pou	oht	Thick of Fli Inch	ght.	Pitch
Inches	Inches	Number	Left Hand	Right Hand	and Inches	Per Section	Per Foot	Inner Edge	Outer Edge	Inche
4	1%	4H204-EF	168-36-3	168-36-4	9-10%	8.4	.85	12 ga.	Vie	4
7	1%	4H206-EF	168-36-7	168-36-8	9-10%	14	1.4	₹/16	7/32	4
	2%	6H304-EF	168-36-11	168-36-12	9-10	15	1.5	16	1/16	6
6	2%	6H308-EF	168-36-15	168-36-16	9-10	29	3.0	74	%	6
	2%	6H312-EF	168-36-19	168-36-20	9-10	49	5.0	%	3/16	6
	2%	9H306-EF	168-36-27	168-36-28	9-10	31	3.2	Y16	7/32	9
	2%	9H312-EF	168-36-31	168-36-32	9-10	67	6.8	%	₹16	9
9	2%	9H406-EF	168-36-35	168-36-36	9-10	31	3.2	3/16	%2	9
	2%	9H412-EF	168-36-39	168-36-40	9-10	66	6.7	%	Yes	9
	2%	9H414-EF	168-36-43	168-36-44	9-10	78	7.9	1/16	7/32	9
10	2%	10H306-EF	168-36-47	168-36-48	9-10	33	3.4	3/1e	7/32	10
10	2%	10H412-EF	168-36-51	168-36-52	9-10	75	7.6	%	Yie	10
	2%	12H408-EF	168-36-59	168-36-60	11-10	70	5.9	1%	%	12
	2%	12H412-EF	168-36-63	168-36-64	11-10	102	8.6	%	Yes	12
12	3½	12H508-EF	168-36-67	168-36-68	11-9	68	5.8	14	%	12
	3%	12H512-EF	168-36-71	168-36-72	11-9	102	8.7	%	Yes	12
	4	12H614-EF	168-36-75	168-36-76	11-9	123	10	7/1e	7/32	12
14	31/2	14H508-EF	168-36-79	168-36-80	11-9	78	6.6	74	%	14
14	4	14H614-EF	168-36-83	168-36-84	11-9	128	11	%e	1/32	14
16	4	16H610-EF	168-36-87	168-36-88	11-9	101	8.6	%e	<b>%</b> 2	16
10	436	16H614-EF	168-36-91	168-36-92	11-9	153	13	7/se	1/52	16

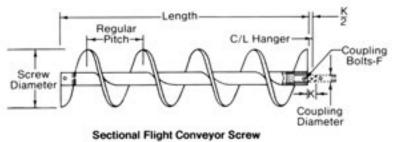


Sectional Flight Conveyor Screw

Sectional Flight

Sectional Flight Conveyor Screws consist of individual flights formed into a helix. then butt welded together and fastened to a pipe or shaft with spaced intermittent welds, Steel lugs are welded to pipe and flight at both ends, except on regular sectional flight screw sizes larger than 16-inch diameter. Both ends of the pipe have permanent internal collars with inside diameters to accept couplings, drive shafts or end shafts.

Screw Diameter,	Coupling Diameter,	Conveyor Screw	Part N	lumbers	Length, Feet and	Aver. Weig Pour	lfit.	Maximum Horse- power	Dia	nal Pipe meter, ches	Thickness of Flight	Pitch	F	к
Inches	Inches	Number	Left Hand	Right Hand	Inches	Per Section	Per Foot	100 rpm	Inside	Outside	Inches	Inches	Inc	hes
	1%	6S307-E	172-135-C	172-135-D	9-10	54	5.5	5	2	2%	12 ga.	6	1/2	2
	1%	6S309-E	172-135-E	172-135-F	9-10	57	5.8	5	2	2%	10 ga.	6	1/2	2
6	11/6	6S312-E	172-135-G	172-135-H	9-10	64	6.5	5	2	2%	¥16	6	1/2	2
	1%	6S316-E	172-135-J	172-135-K	9-10	73	7.4	5	2	2%	. 14	6	1/2	2
	11/6	9S307-E	172-135-N	172-135-P	9-10	66	6.7	5	2	2%	12 ga.	9	1/2	2
	11/2	9S309-E	172-135-R	172-135-S	9-10	73	7.4	5	2	2%	10 ga.	9	1/2	1
	1½	9S312-E	172-135-T	172-135-U	9-10	84	8.5	5	2	2%	₹/16	9	1/2	1
9	11/6	9S316-E	172-139-A	172-139-B	9-10	100	10	5	2	2%	74	9	1/2	1
	2	9S407-E	172-135-Y	172-135-Z	9-10	86	8.8	10	21/2	2%	12 ga.	9	%	1
	2	9S409-E	172-135-AA	172-135-AB	9-10	93	9.5	10	21/2	2%	10 ga.	9	%	1
	2	9S412-E	172-135-AC	172-135-AD	9-10	99	10	10	21/2	2%	3/16	9	%	1
	2	9S416-E	172-135-AE	172-135-AF	9-10	113	11	10	21/2	2%	. %	9	%	1
- 8	11/2	10S309-E	172-135-AL	172-135-AM	9-10	80	8.1	5	2	2%	10 ga.	10	36	1
	11/2	10S312-E	172-139-C	172-139-D	9-10	93	9.5	5	2	2%	%6	10	36	1
10	11/2	10S316-E	172-139-E	172-139-F	9-10	112	11	5	2	2%	74	10	1/2	1
	2	10S412-E	172-135-AR	172-135-AS	9-10	112	11	10	21/2	2%	%s	10	%	1
	2	10S416-E	172-135-AT	172-135-AU	9-10	130	13	10	21/2	2%	14	10	%	1
	2	12S409-E	172-135-AX	172-135-AY	11-10	130	11	10	21/2	2%	10 ga.	12	%	2
	2	12S412-E	172-135-AZ	172-135-BA	11-10	150	13	10	21/2	2%	%e	12	%	2
	2	12S416-E	172-135-BB	172-135-BC	11-10	177	15	10	21/2	2%	34	12	%	2
	2	12S424-E	172-139-G	172-139-H	11-10	229	19	10	21/2	2%	36	12	%	1
12	21/1e	12S509-E	172-135-BF	172-135-BG	11-9	151	13	15	3	31/2	10 ga.	12	%	3
	21/16	12S512-E	172-135-BH	172-135-BJ	11-9	167	14	15	3	31/2	3/16	12	%	3
	21/16	12S516-E	172-135-BK	172-135-BL	11-9	192	16	15	3	3%	74	12	%	3
	21/16	12S524-E	172-139-J	172-139-K	11-9	240	20	15	3	31/2	%	12	%	3
	3	12S612-E	172-135-BM	172-135-BN	11-9	180	15	25	3½	4	3/se	12	%	3
	3	12S616-E	172-136-A	172-136-B	11-9	203	17	25	3%	4	74	12	%	3
	3	12S624-E	172-136-C	172-136-D	11-9	248	21	25	3%	4	36	12	%	3

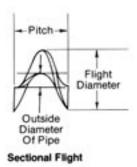




Sectional Flight

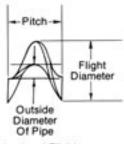
Screw Nameter.	Coupling Diameter.	Conveyor Screw	Part N	umbers	Length, Feet	Avera Weigi Pour	Nt.	Maximum Horse- power	Diar	nal Pipe meter, ches	Thickness of Flight	Pitch Inches	F	
Inches	Inches	Number	Left Hand	Right Hand	and inches	Per Section	Per Foot	100 rpm	Inside	Outside	Inches	inches	inc	hes
	27/16	14S509-E	172-136-G	172-136-H	11-9	157	13	15	3	31/2	10 ga.	14	5/6	3
	27/16	14S512-E	172-136-J	172-136-K	11-9	177	15	15	3	31/2	3/16	14	1/4	:
14	27/16	14S516-E	172-139-N	172-139-P	11-9	206	18	15	3	31/2	3/4	14	1/6	
	3	14S612-E	172-136-L	172-136-M	11-9	192	16	25	31/2	4	3/16	14	3/4	
	3	14S616-E	172-136-N	172-136-P	11-9	221	19	25	31/2	4	5/4	14	3/4	Ī
	3	14S624-E	172-136-R	172-136-S	11-9	273	23	25	31/2	4	3/6	14	3/4	Г
	3	16S609-E	172-136-T	172-136-U	11-9	184	16	25	31/2	4	10 ga.	16	3/4	Ī
	3	16S612-E	172-136-V	172-136-W	11-9	207	18	25	31/2	4	3/16	16	3/4	Г
16	3	16S616-E	172-136-X	172-136-Y	11-9	240	20	25	31/2	4	1/4	16	3/4	Г
10	3	16S624-E	172-136-Z	172-136-AA	11-9	303	26	25	31/2	4	3/4	16	3/4	Г
	3	16S632-E	172-136-AB	172-136-AC	11-9	365	31	25	31/2	4	1/2	16	3/4	Γ
	3	18S612-E	172-136-AF	172-136-AG	11-9	228	19	25	31/2	4	3/1e	18	3/4	
	3	18S616-E	172-136-AH	172-136-AJ	11-9	269	23	25	31/2	4	1/4	18	3/4	Γ
	3	18S624-E	172-136-AK	172-136-AL	11-9	346	29	25	31/2	4	3/4	18	3/4	Γ
18	3	18S632-E	172-136-AM	172-136-AN	11-9	423	36	25	31/2	4	1/2	18	3/4	Γ
	31/16	18S712-E	172-139-R	172-139-8	11-8	247	21	41	4	41/2	3/16	18	7/6	Γ
	37/16	18S716-E	172-136-AP	172-136-AR	11-8	286	25	41	4	41/2	1/4	18	7/6	Γ
	37/16	18S724-E	172-136-AS	172-136-AT	11-8	359	31	41	4	41/2	3/4	18	7/6	Γ
	37/16	18S732-E	172-139-T	172-139-U	11-8	432	37	41	4	41/2	1/2	18	7/6	Γ
	3	20\$612-E	172-136-AU	172-136-AV	11-9	234	20	25	31/2	4	3/16	20	3/4	Γ
	3	20S616-E	172-136-AW	172-136-AX	11-9	277	24	25	31/2	4	1/4	20	3/4	Γ
	3	20S624-E	172-136-AY	172-136-AZ	11-9	357	30	25	31/2	4	3/6	20	3/4	Γ
20	3	20S632-E	172-139-V	172-139-W	11-9	438	37	25	31/2	4	1/2	20	3/4	Г
20	37/16	20\$712-E	172-139-X	172-139-Y	11-8	259	22	41	4	41/2	3/16	20	7/6	Γ
	37/14	20S716-E	172-139-Z	172-139-AA	11-8	301	26	41	4	41/2	<b>y</b> 4	20	7/6	Γ
	37/16	20S724-E	172-136-BA	172-136-BB	11-8	382	33	41	4	41/2	3/6	20	7/6	Γ
	37/16	20S732-E	172-139-AB	172-139-AC	11-8	463	40	41	4	41/2	1/2	20	7/6	Γ
	37/14	24S712-E	172-136-BC	172-136-BD	11-8	294	25	41	4	41/2	3/16	24	7/6	Γ
24	31/16	24S716-E	172-136-BE	172-136-BF	11-8	349	30	41	4	41/2	3/4	24	7/6	
-	37/m	24S724-E	172-136-BG	172-136-BH	11-8	453	39	41	4.	41/2	3/6	24	7/4	
	37/14	24S732-E	172-136-BJ	172-136-BK	11-8	558	48	41	4	41/2	1/2	24	7/4	Γ

Link-Belt®



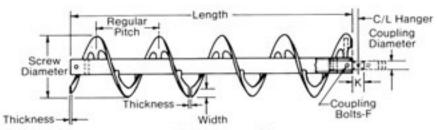
Sectional Flights are individual flights formed into a spiral or helix of the desired diameter and pitch, butt welded together to form a continuous conveyor screw.

Flight	Inside	Estate	Part N	umbers	1 acres	Average	Thickness	Pitch
Diameter, Inches	Diameter, Inches	Flight Number	Left Hand	Right Hand	Length	Weight, Pounds	Inches	Inches
	2%	6S307-F	169-9-101	169-9-102	7%	.90	12 ga.	6
6	2%	6S309-F	169-9-9	169-9-10	7%	1.2	10 ga.	6
	2%	6S312-F	169-9-11	169-9-12	71/2	1.5	%e	6
	2%	6S316-F	169-9-13	169-9-14	71/2	2.1	34	6
	2%	9S307-F	169-9-103	169-9-104	10%	2.3	12 ga.	9
	2%	9S309-F	169-9-17	169-9-18	10%	2.9	10 ga.	9
	2%	9S312-F	169-9-19	169-9-20	10%	3.9	3/16	9
9	2%	9S316-F	169-9-123	169-9-124	10%	5.3	34	9
	2%	9S407-F	169-9-105	169-9-106	10%	2.2	12 ga.	9
	2%	9S409-F	169-9-23	169-9-24	10%	2.8	10 ga.	9
	2%	9S412-F	169-9-25	169-9-26	10%	3.8	3/16 -	9
	2%	9S416-F	169-9-27	169-9-28	10%	5.1	34	9
	2%	10S309-F	169-9-33	169-9-34	11	3.7	10 ga.	10
	2%	10S312-F	169-9-137	169-9-138	11	4.9	3/14	10
10	2%	10S316-F	169-9-127	169-9-128	11	6.7	34	10
	2%	10S412-F	169-9-39	169-9-40	11%	4.8	% <sub>16</sub>	10
	2%	10S416-F	169-9-41	169-9-42	11%	6.5	34	10
	2%	12S409-F	169-9-107	169-9-108	13%	5.4	10 ga.	12
	2%	12S412-F	169-9-45	169-9-46	13%	7.1	%	12
	2%	12S416-F	169-9-47	169-9-48	13%	9.7	34	12
	2%	12S424-F	169-9-139	169-9-140	13%	15	%	12
	31/2	12S509-F	169-9-109	169-9-110	13%	5.1	10 ga.	12
12	31/2	12S512-F	169-9-51	169-9-52	13%	6.8	₹16	12
- 1	31/2	12S516-F	169-9-121	169-9-122	13%	9.2	34	12
	3½.	12S524-F	169-9-129	169-9-130	13%	14	%	12
	4	12S612-F	169-9-53	169-9-54	14%	6.6	₹16	12
	4	12S616-F	169-9-55	169-9-56	14%	8.9	74	12
	4	12S624-F	169-9-57	169-9-58	14%	13	%	12
	31/2	14S509-F	169-9-111	169-9-112	17	7.3	10 ga.	14
	31/2	14S512-F	169-9-61	169-9-62	17	9.7	Y <sub>16</sub>	14
14	31/2	14S516-F	169-9-143	169-9-144	17	13	34	14
	4	14S612-F	169-9-63	169-9-64	17	9.3	Y <sub>ie</sub>	14
	4	14S616-F	169-9-65	169-9-66	17	13	34	14
	4	14S624-F	169-9-67	169-9-68	17	19	%	14



Sectional Flight

Flight	Inside	Fr. 14	Part No	umbers		Average	Thirtenan	D11-1
Diameter. Inches	Diameter, Inches	Flight Number	Left Hand	Right Hand	Length	Weight, Pounds	Thickness Inches	Inches
	4	16S609-F	169-9-69	169-9-70	191/4	9.4	10 ga.	16
	- 4	16S612-F	169-9-71	169-9-72	19%	13	3/10	16
16	4	16S616-F	169-9-73	169-9-74	191/4	17	3/4	16
10	4	16S624-F	169-9-75	169-9-76	191/4	26	3/6	16
	4	16S632-F	169-9-113	169-9-114	191/4	34	3/2	16
	4	18S612-F	169-9-79	169-9-80	201/2	16	3/16	18
	4	18S616-F	169-9-81	169-9-82	201/2	22	3/4	18
	4	18S624-F	169-9-83	169-9-84	201/2	33	3/6	18
18	4	18\$632-F	169-9-115	169-9-116	201/2	45	1/2	18
10	41/2	18S712-F	169-9-145	169-9-146	21	16	3/16	18
	41/2	18S716-F	169-9-97	169-9-98	21	22	3/4	18
	41/2	18S724-F	169-9-99	169-9-100	21	33	3/e	18
	41/2	18S732-F	169-9-147	169-9-148	21	44	1/2	18
	4	20S612-F	169-9-85	169-9-86	241/4	20	3/16	20
	4	20S616-F	169-9-87	169-9-88	241/4	28	3/4	20
	4	20S624-F	169-9-117	169-9-118	241/4	42	3/6	20
20	4	20S632-F	169-9-149	169-9-150	241/4	56	1/2	20
20	41/2	20S712-F	169-9-151	169-9-152	24	20	3/16	20
	41/2	20S716-F	169-9-153	169-9-154	24	28	3/4	20
	41/2	20S724-F	169-9-89	169-9-90	24	41	3/6	20
	41/2	20S732-F	169-9-155	169-9-156	24	55	1/2	20
	41/2	24S712-F	169-9-91	169-9-92	27	30	3/16	24
24	41/2	24S716-F	169-9-93	169-9-94	27	41	1/4	24
24	41/2	24S724-F	169-9-95	169-9-96	27	61	3/6	24
	41/2	24S732-F	169-9-119	169-9-120	27	82	1/2	24



Ribbon Flight Conveyor Screw

Ribbon flight conveyor screws consist of sectional flights, butt welded together to form a continuous helix. Flights are secured to the pipe by supporting lugs. Both ends of the pipe have permanent internal collars with inside diameters to accept couplings, drive shafts and end shafts.

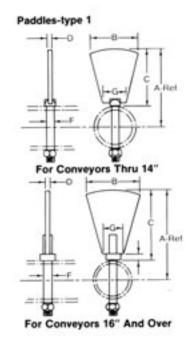
They are used for conveying sticky, gummy or viscous substances, or where the material tends to adhere to flighting at the pipe. Stainless steel ribbon flight conveyor screws can be furnished.

Screw Nameter	Coupling Diameter.	Conveyor Screw	Part N	umbers	Length Feet	Aver Weig Pour	ht.	Maximum Horse- power	Dia	nal Pipe meter, ches	Flight Size, Thickness and	Pitch	F	ĸ
Inches	Inches	Number	Left Hand	Right Hand	and Inches	Per Section	Per Foot	100 rpm	Inside	Outside	Width Inches	Inches	line	ches
6	11/2	6SR312-E	172-143-A	172-143-B	9-10	57	5.8	5	2	21/6	3/16 X 1	6	1/2	2
9	15%	9SR316-E	172-143-G	172-143-H	9-10	79	8.0	5	2	2%	1/4 x 11/2	9	36	2
10	11/2	10SR316-E	172-143-N	172-143-P	9-10	79	8.0	5	2	2%	1/4 x 11/2	10	1/2	1
	2	12SR416-E	172-143-V	172-143-W	11-10	143	12	10	21/9	2%	1/4 x 2	12	5/6	1
12	2	12SR424-E	172-143-AB	172-143-AC	11-10	186	16	10	21/5	21/6	3/6 x 21/2	12	5/6	1
	27/se	12SR524-E	172-143-AH	172-143-AJ	11-9	209	18	15	3	31/2	3/6 x 21/2	12	9/6	1
	21/16	14SR516-E	172-143-AP	172-143-AR	11-9	166	14	15	3	31/2	1/4 x 2	14	5/6	1
14	27/se	14SR524-E	172-143-AW	172-143-AK	11-9	214	18	15	3	31/2	3/6 x 21/2	14	5/6	-
	3	14SR624-E	172-143-BC	172-143-BD	11-9	232	20	25	31/2	4	3/6 x 21/2	14	3/4	
16	3	16SR616-E	172-143-BJ	172-143-BK	11-9	197	17	25	31/2	4	1/4 x 21/2	16	3/4	1
16	3	16SR624-E	172-143-BR	172-143-BS	11-9	232	20	25	31/2	4	3/4 x 21/2	16	3/4	1
18	3	18SR624-E	172-143-BX	172-143-BY	11-9	267	23	25	31/2	4	3/4 x 3	18	3/4	
20	37/46	20SR724-E	172-143-CD	172-143-CE	11-8	278	24	41	4	41/2	%×3	20	7/6	-
24	37/14	24SR724-E	172-143-CK	172-143-CL	11-8	279	24	41	4	41/2	3/6 x 3	24	7/4	

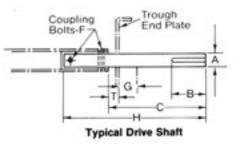
Flight	Inside	F1-11	Part No	umbers	Length	Average Weight	Thickness	Pitch
Diameter, Inches	Diameter. Inches	Flight Number	Left Hand	Right Hand	Inches	Pounds	Inches	Inches
6	4	6SR312-F	169-20-1	169-20-2	61/6	.95	3/16	6
9	6	9SR316-F	169-20-3	169-20-4	9%	2.9	1/4	9
10	7	10SR316-F	169-20-5	169-20-6	101/2	3.2	1/4	10
	8	12SR416-F	169-20-7	169-20-8	121/4	5.1	1/4	12
12	7	12SR424-F	169-20-9	169-20-10	121/6	9.2	3/6	12
	7	12SR524-F	169-20-11	169-20-12	121/6	9.2	3/4	12
	10	14SR516-F	169-20-13	169-20-14	147/6	6.1	3/4	14
14	9	14SR524-F	169-20-15	169-20-16	143/4	11	3/6	14
	9	14SR624-F	169-20-17	169-20-18	143/4	11	3/6	14
40	11	16SR616-F	169-20-19	169-20-20	171/4	8.6	1/4	16
16	11	16SR624-F	169-20-21	169-20-22	171/4	13	3/6	16
18	12	18SR624-F	169-20-23	169-20-24	18	17	3/6	18
20	14	20SR724-F	169-20-25	169-20-26	201/2	20	3/6	20
24	18	24SR724-F	169-20-27	169-20-28	251/4	24	3/6	24

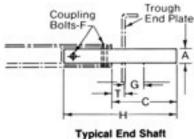
<sup>\*</sup>Ribbon Fltg. is non-stock

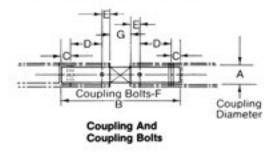
Type 1 Paddles consist of formed steel blades mounted on bolt or rod shanks which are inserted through regular conveyor screw pipe. They are normally mounted at 120 degree intervals spacing, three paddles per pitch. Paddle at each end of conveyor may be inserted through bolt hole in place of regular coupling bolt. Paddle blades may be set at any angle to produce the desired degree of agitation. Paddle conveyor screws are used for mixing, blending or stirring dry or fluid materials.



Type 1	Paddl	е							
Screw Diameter	Pipe OD	Part	Weight,	A	. 8	С	D	F	G
Inch	wes .	Numbers	Pounds			Inche	5		
4	1%	161-59-A	.21	2	11/2	1%	% €	%	13/16
6	2%	161-59-B	.54	3	21/16	1%	34	3/2	17/16
9	2% 2%	161-59-C 161-59-D	.82 1.00	4½ 4½	2% 2%	31/m 31/m	% %	1/6 1/6	136 136
10	2% 2%	161-59-E 161-59-F	.94 1.10	5 5	3% 3%	311/16 31/16	X X	% %	1% 1%
12	2% 3% 4	161-59-G 161-59-H 161-59-J	1.90 1.90 2.20	6 6	311/16 311/16 311/16	4%s 4% 4	% % %	% % %	1% 1% 2
14	3½ 4	161-59-K 161-59-L	2.30 2.70	7 7	4% 4%	5% 5	%	% %	2 2%
16	4 41/2	161-60-A 161-60-B	3.20 3.60	8	4 % 4 %	6 5%	% %	% %	2¼ 2%
18	4 41/2	161-60-C 161-60-D	3.70 4.10	9	5% 5%	7 6%	% %	% %	2% 2%
20	4 41/2	161-60-E 161-60-F	4.50 4.90	10 10	6% 6%	8 7%	% %	% %	21/16 21/16
24	4%	161-60-G	8.10	12	7%	9%	1/2	36	2"/4







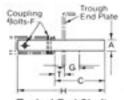
Drive shafts deliver the driving power, and are designed to provide adequate torque, bending and shear strength, and correct bearing clearances. For extra heavy loads, high carbon steel or heat-treated alloy steel shafts are used. Jig-drilled coupling bolt holes and accurately cut keyseats contribute to ease of assembly.

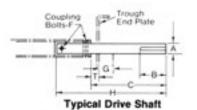
End shafts serve only as support for the last section of conveyor screw and are furnished of cold-finished steel.

		Drive	Shaft Number Fo	r Steel Plate Troug	gh End	End 5	Shaft Number For	Steel Plate Troug	h End
Screw	Shaft	Without Troc	igh End Seal	With Troug	h End Seal	Without Tro	ugh End Seal	With Troug	h End Seal
Diameter, Inches	Diameter, Inches	Babbitted and Bronze Bearing	Ball Bearing	Babbitted and Bronze Bearing	Ball Bearing	Babbitted and Bronze Bearing	Ball Bearing	Babbitted and Bronze Bearing	Ball Bearing
4	1	716-2-1	716-2-11	-	_	716-1-9	716-1-8	-	-
6.9.10	1%	716-2-17	716-2-14	716-2-46	716-2-15	716-1-2	716-1-11	716-1-44	716-1-38
9, 10, 12	2	716-2-24	716-2-20	716-2-48	716-2-47	716-1-3	716-1-16	716-1-45	716-1-3
12.14	21/4	716-2-51	716-2-49	716-2-52	716-2-50	716-1-47	716-1-46	716-1-25	716-1-4
12, 14, 16, 18, 20	3	716-2-54	716-2-53	716-2-55	716-2-8	716-1-41	716-1-27	716-1-31	716-1-3
18, 20, 24	31/16	716-2-58	716-2-56	716-2-40	716-2-57	716-1-43	716-1-33	716-1-49	716-1-4

	Don't bloom	mb could	tate lab			(	0				н	
Shaft Dia.	Part Nu	mbers(')	weign	vt, Lbs.	В	No	For	F	G	No	For	T
A	No	For Seal	No	For		Seal	Seal		(2)	Seal	For Seal	
inches	Seal	Seal	Seal	Seal				In	ches			
1%	1462-86-G	1462-86-K	6.6	7.5	3%	9	10%	1/4	1%	13%	15%	114
2	1462-86-V	1462-86-Y	13	15	3%	10%s	121/se	%	1%	151/16	16%s	1%
2%	1462-86-AH	1462-86-AL	21	23	4%	11156	1311/se	%	1%	161%	18%	1%
3	1462-86-AW	1462-86-AZ	36	40	5%	13%	151/2	%	1%	18%	20%	1%
31/4	1462-86-BJ	1462-86-BM	59	65	5%	16%	18%	%	214	231/4	25%	2%

(\*)Includes snap rings and washers. (\*)Trough end seal width.





-	-1-	-1 5		-	
	DIC	al E	na	-51	uatt

Shaft	Part Nur	share (1)	Winter	et Lbs.	-	-		92		Н	
Dia.	No	For	No	For	No Seal	For Seal	F	(°)	No Seal	For Seal	1
Inches	Seal	Seal	Seal	Seal				Inch	es		
1%	716-1-69	716-1-70	5.4	6.3	6	7%	16	1%	10%	12%	1%
2	716-1-71	716-1-72	10	12	6%	81/16	%	1%	11%	13%	1%
21/4	716-1-73	716-1-74	17	19	7%	9%	%	1%	12%	14%	1%
3	716-1-75	716-1-76	28	31	8%	10%	%	1%	13%	15%	1%
3%	716-1-77	716-1-78	46	52	102%	131/4	34	2%	17% a	191%	2%

<sup>(\*)</sup>Includes snap rings and washers. (\*)Trough end seal width.

											- 1	0						н		
Shaft		Part No	umbers			Weigh	nt, Lbs.			No:	Seal	For	Seal			No	Seal	For	Seal	
Dia.	No	Seal	For	Seal	No	Seal	For	Seal	8	Babb.		Babb.	2		G	Babb.	2	Babb.		1
A	Babb. Brz.	Ball	Babb. Brz.	Ball	Babb. Brz.	Ball	Babb. Brz.	Ball	-	Brz.	Ball	Brz	Ball	- In	ches	Brz.	Ball	Brz	Ball	_
1	716-2-1	716-2-11	716-2-61	716-2-59	1.8	1.7	2.2	2.0	2%	5%	4%	7	6%	%	136	8%	7%	10	9%	19/4
1%	716-2-17	716-2-14	716-2-46	716-2-15	6.5	6.1	7.4	7.0	4%	8%	7%	10%	9%	36	1%	13%	12%	15%	14%	1%
2	716-2-24	716-2-20	716-2-48	716-2-47	13	12	15	13	4%	9%	81/16	11%	101/m	%	1%	14%	131/4	16%	14% <sub>e</sub>	1%
21/4	716-2-51	716-2-49	716-2-52	716-2-50	23	20	26	22	5%	12%s	10%	14%	11%	%	1%	171/16	15	19%s	16%	1%
3	716-2-54	716-2-53	716-2-55	716-2-8	38	32	42	36	6	14%	11%	15%	12%	%	134	19%	16%	20%	17%	1%
31/4	716.2.58	716-2-56	716-2-40	716-2-57	63	54	67	59	7%	16%	13%	19%	15%	36	2%	23%	20%	25%	22%	2%

<sup>(1)</sup>Trough end seal thickness.

									21000		C				10000		H		
Shaft		Part No	umbers		10000	Weigh	M. Lbs.		No:	Seat	For	Seal	1 -		No:	Seat	For	Seal	1
Dia.	No:	Seal	For	Seal	No	Seal	For	Seal	Babb.		Babb.		15	G	Babb.		Babb.		1
Α	Babb.	200	Babb.	200	Babb.	120	Babb.		Brz.	Bali	Brz.	Ball		1.7	Brz.	Ball	Brz.	Bali	_
inches	Brz.	Ball	Brz.	Ball	Brz	Ball	Brz.	Ball						Inche	HS .				
1	716-1-9	716-1-8	716-1-52	716-1-50	1.4	1.2	1.7	1.5	3%	2%	4%	4%	%	136	6%	5%	7%	7%	19/4
1%	716-1-2	716-1-11	716-1-44	716-1-38	4.7	4.1	5.6	4.9	4%	3%	6%	5%	36	1%	9%	8%	11	10%	1%
2	716-1-3	716-1-16	716-1-45	716-1-3	9.0	7.4	10	9.0	5%	3%	7%	5%	%	1%	10%	8%	12%	10%	1%
2%	716-1-47	716-1-46	716-1-25	716-1-47	15	12	18	14	7%	4%	9%	7%	%	1%	12	9%	14	11%	1%
3	716-1-41	716-1-27	716-1-31	716-1-30	26	20	29	23	8%	5%	10%	6%	%	1%	13%	10%	15%	11%	1%
3%	716-1-43	716-1-33	716-1-49	716-1-48	43	34	47	39	10%	6%	12	8%	36	2%	16%	13%	18%	15%	2%

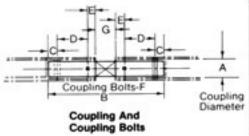
<sup>(1)</sup>Trough end seal thickness.

Shaft		Part Numbers(1)	1	200000000000000000000000000000000000000			C	37			G(2)		н		
Shaft Dia.	Babb.	Ball	Roller	Weight, Lbs. Maximum	В	Babb. Brz.	Ball	Roller	F	Babb. Brz.	Ball Roller	Babb. Brz.	Ball	Roller	т
Inches	Brz.	Dan	rigings							le le	nches				
11/2	716-31-L	716-31-A	716-31-B	7.9	314	1111/16	10%	11%	1/2	4%	4%	16%s	15%	16¼	1%
2	716-31-M	716-31-C	716-31-D	15	4%	13½	12%	13	%	5%	51/s	18%	17%	17%	1%
21/4	716-31-N	716-31-E	716-31-F	27	5%	16½	1419/16	151/16	%	6%	511/s	21%	1911/46	20%	1%
3	716-31-P	716-31-G	716-31-H	47	5%	191/16	16%	17%	34	7	6%s	241/10	211/2	22%	1%
31/m	716-31-R	716-31-J	716-31-K	73	6%	211%	19%	19%	36	8%	736	28%	26%e	26%	2%

<sup>(&#</sup>x27;)Includes snap rings and washers.
(')Distance from outside of trough end plate to centerline of pillow block.

Shaft		Part Numbers		5.15		C				G(1)	·	14		
Shaft Dia. A	Babb. Brz.	Ball	Roller	Weight, Lbs. Maximum	Babb. Brz.	Ball	Roller	F	Babb. Brz.	Ball Roller	Babb. Brz.	Ball	Roller	т
Inches	Brz.	tien.	Priorities						- 1:	nches				
1%	716-31-77	716-31-57	716-31-59	6.2	715/16	7%	7%	1/2	4%	4%	1211/16	11%	12%	1%
2	716-31-79	716-31-61	716-31-63	12	914	814	8%	%	51/2	51/16	14	13	13½	1%
21/16	716-31-81	716-31-65	716-31-67	21	11%	9%e	10%s	%	6%	511/16	16%	14%e	151/m	1%
3	716-31-83	716-31-69	716-31-71	36	13%	10%	11%	34	7	6%	181/16	15%	16%	1%
31/16	716-31-85	716-31-73	716-31-75	56	14%	12%s	131/se	34	8%	7%	21%	19%	19%	2%

<sup>(1)</sup>Distance from outside of trough end plate to centerline of pillow block.



Coupling Diameter.	Part N	lumbers	Maria ha	В	c	D	E .		G
A Inches	Cold Rolled Steel	Hardened Steek(1)	Weight, Pounds	-		Inch			_
1	170-13-2	170-38-9	1.5	71/2	36	2	3/2	%	139
1%	170-13-3	170-38-10	5.6	11%	36	3	36	1/2	2
2	170-13-4	170-38-11	9.8	11%	36	3	36	%	2
21/s	170-13-5	170-38-12	15	12%	15/10	3	15/16	%	3
3	170-13-6	170-38-13	24	13	1	3	1	%	3
31/ne	170-13-7	170-38-14	43	17%	1%	4	11/2	%	4

(1)Only bearing length G is hardened.

Coupling Diameter,	Part Numbers	Weight, Pounds	В	С	D	ε	F(*
Inches	Numbers	Founds			Inches		
1	170-69-001	1.4	6%	36	2	1/2	%
11/2	170-69-002	4.9	10%	36	3	%	1/2
2	170-69-003	9	10%	%	3	%	- %
21/se	170-69-004	14	11%	15/16	3	15/16	%
3	170-69-005	20	10%	1	3	1	%
31/ne	170-69-006	39	14%	1%	4	11/2	%

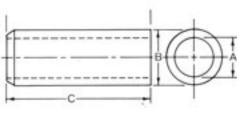
(1) Drill two holes at one end, in assembly, 1/22" over bolt diameter.

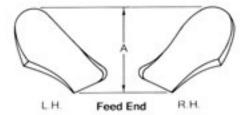
Coupling		Part Nur	mbers		Average Weight Per Hundred	Diameter
Diameter, Inches	Regular	Galvanized	High Strength	Stainless Steel(1)	Pieces, Pounds	Length, Inches
1	126-527-A	126-528-A	86-50-A	126-627-A	13	%×2%
1%	126-527-C	126-528-C	86-50-C	126-627-C	32	1/2×3
2	126-527-E	126-528-E	86-50-E	126-627-E	56	%×3%
21/10	126-527-G	126-528-G	86-50-G	126-627-G	63	%×4%
3	126-527-J	126-528-J	86-50-J	126-627-J	105	%×5
31/10	126-527-AA	126-528-AA	86-50-AA	126-627-AA	157	%×5%

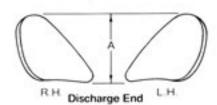
<sup>(1)</sup>Type 304, other types can be furnished.

	Nominal	Part N	umbers				
Coupling Dia.	Dia of Pipe	Carbon Steel	Stainless Steel(*)	Weight Pounds	A	В	С
Inc	hes	5.64	5,000			Inches	
1	11/4	129-43-6	496-475-2	0.7	1	1%	3%
11/6	2	129-43-34	496-475-4	2.2	11/2	21/4	5
2	21/2	129-43-51	496-475-6	2.4	2	21/2	5
21/1e	3	129-43-72	496-475-53	4.1	21/16	31/16	5%
3	31/2	129-43-93	496-475-55	4.3	3	3%	514
31/16	4	129-43-105	496-475-42	7.3	31/16	41/s	7

(1)Type 304, other types can be furnished.



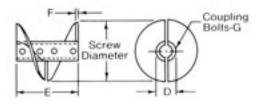




End Lugs are die-formed steel plates welded to both ends of helicold flighting and to the pipe to strengthen the end of flighting.

Screw	72.55	Part N	umbers	1.5	Avg. Wgt.	A. Ac	proximate
Diameter	Feed	End	Dischar	ge End	Pier/C	Feed End	Discharge End
Inches	Right Hand	Left Hand	Right Hand	Left Hand	Pounds		nches
6	163-5-3	163-5-5	163-5-4	163-5-6	5	1%	1%
9&10	163-6-3	163-6-5	163-6-4	163-6-6	13	2%	211/16
12	163-7-3	163-7-5	163-7-4	163-7-6	26	4%	4%
14816	163-8-3	163-8-5	163-8-4	163-8-6	38	5%	5%e

All lugs are made of 12 gauge steel.

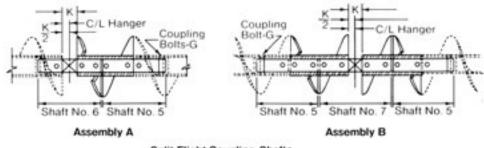


Split Flight Coupling

Split Flight Couplings permit installing or removing individual conveyor screws without disturbing adjoining sections. With split flight couplings installed on both sides of each hanger, conveyor screws can be removed without disturbing the hangers. The split flight coupling is sturdily constructed and jig drilled for coupling bolts.

	Couplings				_			
Screw Diameter,	Coupling Diameter.	Split Flight Coup	iling Number(')	Weight.	D	E	F.	G
Inches	Inches	Right Hand	Left Hand	Pounds	30051	Inc	hes	
4	1	502-3-A	502-3-B	3	1%	411/16	10 ga.	36
6	1%	502-3-C	502-3-D	9	2%	611/16	% in.	1/2
9	1½ 2	502-3-E 502-3-G	502-3-F 502-3-H	14 17	2% 2%	911/16 911/16	% in. ¼ in.	1/2 1/4
10	1½ 2	502-3-J 502-3-L	502-3-K 502-3-M	16 21	2% 2%	10"/ <sub>16</sub> 10"/ <sub>16</sub>	10 ga. ¼ in.	1/2 1/4
12	2 2%s 3	502-3-N(1) 502-3-R 502-3-T(1)	502-3-P(1) 502-3-S 502-3-U(1)	29 31 40	2% 3% 4	12"/ <sub>16</sub> 12"/ <sub>16</sub> 12"/ <sub>16</sub>	¼ in. ⅓s in. ⅓ in.	% % %
14	2%s 3	502-3-V 502-3-X	502-3-W 502-3-Y	42 51	31/4 4	14% 14%	% in. % in.	% %
16	3	502-3-Z	502-3-AA	61	4	16%	% in.	34
18	3 31/16	502-3-AB 502-3-AK	502-3-AC 502-3-AL	75 76	4 4½	18% 18%	% in. % in.	% %
20	3 37/m	502-3-AD 502-3-AF	502-3-AE 502-3-AG	75 84	4 4½	20% 20%	% in. % in.	% %
24	31/m	502-3-AH	502-3-AJ	114	416	24%	% in.	36

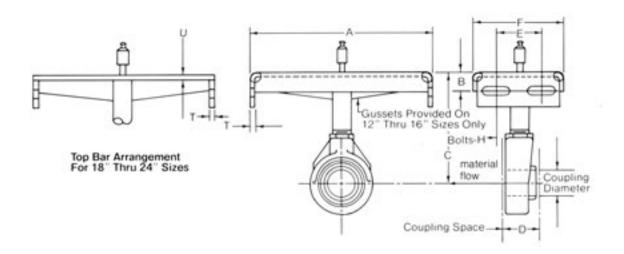
(1)Indicates split flight couplings normally carried in stock. Coupling bolts are included.



Split Flight Coupling Shafts

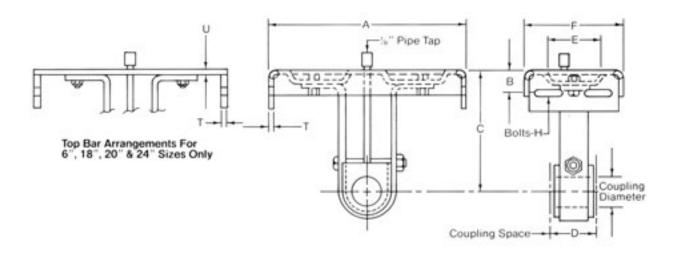
Diameter, Diam	9.58 - 1.64	Part Numbers						Weight, Pounds			Length, Inches			
	Coupling	Shaft No.					Shaft No.			Shaft No.			G	K
	Inches	5	6 Regular Hardened(*)		Regular Hardened(1)		- 5	6	7	5	6	7	Inc	hes
4	1	170-28-1	170-29-1	170-32-1	170-30-1	170-33-1	1.1	1.4	1.3	5%	6%	6	%	13
6	136	170-28-2	170-29-2	170-32-2	170-30-2	170-33-2	3.8	4.7	4.0	8	10	8%	1/2	2
	11/2	170-28-3	170-29-3	170-32-3	170-30-3	170-33-3	4.5	5.4	5.4	9%	11½	11%	1/2	2
9	2	170-28-5	170-29-5	170-32-5	170-30-5	170-33-5	8.2	9.5	9.5	9%	11%	11%	%	2
10	1%	170-28-4	170-29-4	170-32-4	170-30-4	170-33-4	4.8	5.6	5.9	10	12	121/2	1/2	2
10	2	170-28-6	170-29-6	170-32-6	170-30-6	170-33-6	8.6	10	10	10	12	121/2	%	2
12 2%	2	170-28-7	170-29-7	170-32-7	170-30-7	170-33-7	9.4	11	12	11	13	141/2	%	2
	21/s	170-28-8	170-29-8	170-32-8	170-30-8	170-33-8	14	18	19	11%	14%	151/2	%	3
	3	170-28-10	170-29-10	170-32-10	170-30-10	170-33-10	22	27	29	11%	14%	151/2	34	3
14	21/se	170-28-9	170-29-9	170-32-9	170-30-9	170-33-9	16	19	22	12%	15%	171/2	%	3
	3	170-28-11	170-29-11	170-32-11	170-30-11	170-33-11	24	29	33	12%	1514	17½	%	3
16	3	170-28-12	170-29-12	170-32-12	170-30-12	170-33-12	26	30	36	13%	16¼	191/2	%	3
18	3	170-28-13	170-29-13	170-32-13	170-30-13	170-33-13	28	32	39	14%	17%	211/2	34	3
10	31/14	170-28-17	170-29-17	170-32-17	170-30-17	170-33-17	41	49	55	16%	20%	221/2	%	4
20	3	170-28-14	170-29-14	170-32-14	170-30-14	170-33-14	30	34	41	15%	18%	231/2	%	3
20	31/4	170-28-15	170-29-15	170-32-15	170-30-15	170-33-15	44	51	54	17%	21%	24%	%	4
24	31/4	170-28-16	170-29-16	170-32-16	170-30-16	170-33-16	49	56	69	19%	23%	28%	36	4

<sup>(1)</sup>Only bearing length K is hardened.



No. 270 Hangers have formed steel frames and self-aligning ball bearings which reduce power consumption and noise levels.

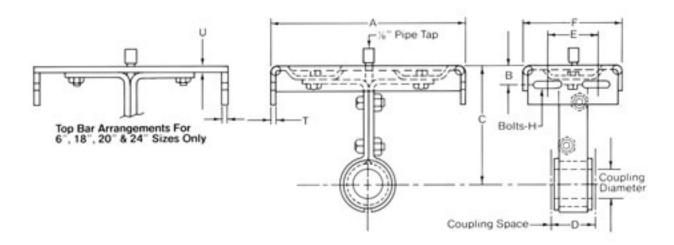
o. 270 B	all Bearing H	langers											
Screw Diameter,	Coupling Diameter,	Part Numbers	Weight Pounds	A	В	С	D	E	F	н	T	U	
Inches	Inches		Founds		Inches								
6	11/2	162-513-A	8.1	7	34	41/2	2	21/2	5	%	¾e.	-	
9	11/2	162-514-A	9.4	10	1	6%	2	21/2	5	%	%16	-	
	2	162-515-A	11	10	1	6%	2	21/2	5	%	Y <sub>16</sub>		
10	11/2	162-516-A	10	11	1	6%	2	21/2	5	%	9/16		
	2	162-517-A	11	11	1	6%	2	21/2	5	%	y16		
12	2	162-518-A	13	13	1%	7%	2	21/2	5	1/2	¥16		
	21/16	162-519-A	16	13	1%	7%	3	21/2	5	36	3/16		
	3	162-520-A	22	13	1%	7%	3	21/2	5	1/2	y16		
14	21/16	162-521-A	18	15	1%	914	3	21/2	5	36	Vie.		
	3	162-522-A	23	15	1%	914	3	21/2	5	1/2	Yie.		
16	3	162-523-A	24	17	1%	10%	3	21/2	5	36	Y16		
18	3	162-524-A	36	19	1%	12%	3	31/2	6	%	%	1	
	31/ne	162-525-A	38	19	1%	12%	4	31/2	6	%	%	- 1	
20	3	162-526-A	38	21	1%	131/2	3	31/2	6	%	%	1	
	31/ve	162-527-A	43	21	1%	131/2	4	31/2	6	%	%	- 1	
24	31/14	162-528-A	50	25	1%	16%	4	31/2	6	56	%		



No. 216 Hangers have formed steel frames of superior strength and rigidty and are excellent for heavy service. These hangers are normally furnished with hard iron, babbitted: bronze, oil impregnated wood or molded fabric bearings, but can also be furnished with special bearings.

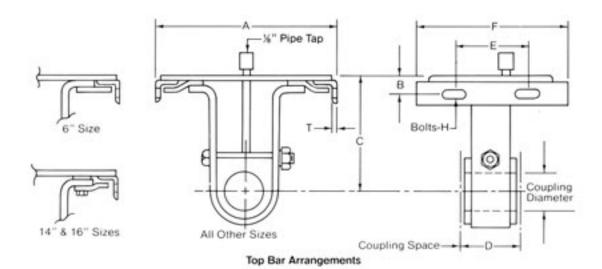
Screw	Coupling		umbers	Weight	Α	В	c	D	E	F	н	T	U
Diameter, Inches	Diameter, Inches	Without Oil Pipe	With Oil Pipe	Pounds			-	Inches			- "		_
6	11/2	162-353-B	162-353-C	4.2	7	%	41/2	2	21/2	5	36	%e	3/16
9	11/2	162-473-B	162-473-C	6.7	10	1	6%	2	21/2	5	36	₹/se	-
9	2	162-474-B	162-474-C	7.8	10	1	6%	2	21/2	5	36	7100	-
10	11/2	162-475-B	162-475-C	7.1	11	1	6%	2	21/2	5	%	¥ ve.	-
10	2	162-476-B	162-476-C	8.2	11	1	6%	2	21/2	5	36	Yne	-
100	2	162-477-B	162-477-C	9.6	13	134	7%	2	21/2	5	56	Yne.	-
12	21/16	162-478-B	162-478-C	9.7	13	1%	7%	3	2%	5	1/2	3/1e	-
	3	162-479-B	162-479-C	12	13	134	7%	3	21/2	5	1/2	%e.	-
14	21/4	162-480-B	162-480-C	12	15	1%	9%	3	21/2	5	1/2	3/16	-
1.4	3	162-481-B	162-481-C	14	15	1%	914	3	21/2	5	1/2	y, e	-
16	3	162-482-B	162-482-C	15	17	1%	10%	3	21/2	5	1/2	y16	-
18	3	162-364-B	162-364-C	26	19	1%	12%	3	3%	6	%	%	1/2
10	31/46	162-365-B	162-365-C	35	19	1%	12%	4	31/2	6	%	%	1/2
20	3	162-366-B	162-366-C	30	21	1%	13½	3	3½	6	%	%	1/2
20	31/46	162-367-B	162-367-C	38	21	1%	13%	4	3½	6	%	%	1/2
24	31/46	162-368-B	162-368-C	49	25	1%	16%	4	31/2	6	%	%	%

Link-Belt®



No. 226 Hangers have a rigid formed steel frame with clearance for passage of material in large volume. These hangers are normally furnished with hard iron, babbitted, bronze, oil impregnated wood or molded fabric bearings, but can also be furnished with special bearings. Stainless steel frames can be furnished.

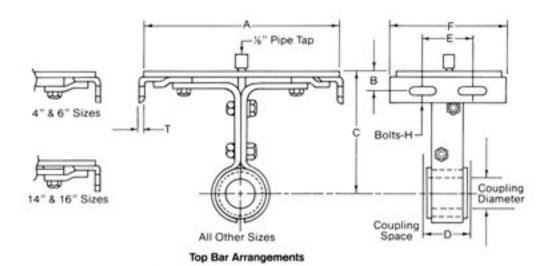
No. 226	Hangers												
Screw	Coupling	Part No		Weight	A	В	C	D	E	F	н	T	U
Diameter, Inches	Diameter, Inches	Without Oil Pipe	With Oil Pipe	Pounds				Inches					-
4	1	162-409-B	-	2.5	5	%	3%	11/2	2	31/2	34	716	9
6	136	162-381-B	162-381-C	5.6	7	34	41/2	2	21/2	5	%	11/16	3/
9	1%	162-483-B	162-483-C	8.3	10	1	6%	2	2%	5	36	Y <sub>16</sub>	-
9	2	162-484-B	162-484-C	8.6	10	1	616	2	21/2	5	36	9/16	-
10	11/2	162-485-B	162-485-C	9.9	11	1	6%	2	2%	5	%	7/16	-
10	2	162-486-B	162-486-C	10	11	1	6%	2	21/2	5	36	9/16	-
	2	162-487-B	162-487-C	12	13	1%	7%	2	21/2	5	36	Yes	-
12	21/se	162-488-B	162-488-C	16	13	1%	7%	3	2%	5	1/2	%€	-
10000	3	162-489-B	162-489-C	16	13	11/4	7%	3	21/2	5	36	₹16	-
14	21/16	162-490-B	162-490-C	18	15	1%	9%	3	21/2	5	1/2	3/16	-
14	3	162-491-B	162-491-C	18	15	1%	9%	3	21/2	5	1/2	3/16	-
16	3	162-492-B	162-492-C	26	17	1%	10%	3	21/2	5	1/2	Y10	-
18	3	162-392-B	162-392-C	35	19	1%	12%	3	31/2	6	%	%	36
10	31/16	162-393-B	162-393-C	50	19	1%	12%	4	31/2	6	%	%	36



No. 316 Hangers are similar in construction to No. 216 hangers, except that they are self-adjusting. The top bars are arranged to slide on angle guides fastened to the troughs. These hangers are normally furnished with hard iron,

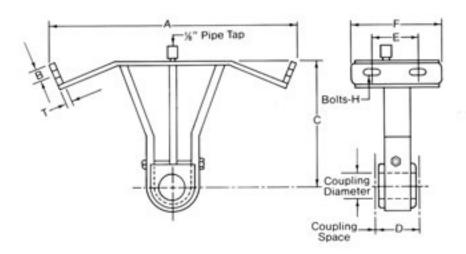
babbitted, bronze, oil impregnated wood or molded fabric bearings, but can also be furnished with special bearings.

Screw	Coupling	The second secon	umbers	Weight	A	0	c	D		F.	н	Т Т
Diameter, Inches	Diameter, Inches	Without Oil Pipe	With Oil Pipe	Pounds			-	Inche				-
6	1%	162-65-B	162-65-C	4.6	7	%	41/2	2	21/2	6	%	.36
9	1%	162-503-B	162-503-C	7.7	10	1	6%	2	21/2	6	%	9/
	2	162-504-B	162-504-C	8.7	10	1	6%	2	21/2	6	%	3/
10	1½	162-505-B	162-505-C	8.1	11	1	6%	2	21/2	6	%	3/
10	2	162-506-B	162-506-C	9.2	11	1	6%	2	21/2	6	%	3/
	2	162-507-B	162-507-C	13	13	1%	7%	2	2½	6½	1/2	3/
12	21/s	162-508-B	162-508-C	14	13	1%	7%	3	21/2	61/2	1/2	3
	3	162-509-B	162-509-C	16	13	1%	7%	3	21/2	61/2	34	35
14	21/s	162-510-B	162-510-C	20	15	1%	914	3	21/2	61/2	1/2	34
1.4	3	162-511-B	162-511-C	22	15	1%	91/4	3	21/2	61/2	1/2	34
16	3	162-512-B	162-512-C	24	17	1%	10%	3	21/2	61/2	1/2	34
18	3	162-331-B	162-331-C	30	19	1%	12%	3	31/2	61/2	%	14
10	31/ne	162-332-B	162-332-C	37	19	1%	12%	4	31/2	61/2	%	14
20	3	162-333-B	162-333-C	32	21	1%	131/2	3	31/4	61/2	%	34
20	31/he	162-334-B	162-334-C	40	21	1%	13%	4	31/2	61/2	%	34
24	31/he	162-335-B	162-335-C	54	25	1%	16%	4	31/2	7	%	94



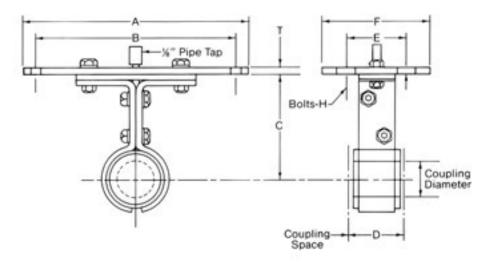
No. 326 Hangers are similar in construction to No. 226 hangers, except that they are self-adjusting. The top bars are arranged to slide on angle guides fastened to the troughs. These hangers are normally furnished with hard iron, babbitted, bronze, oil impregnated wood or molded fabric bearings, but can also be furnished with special bearings.

	Hangers	Part No	umbers									
Screw Diameter, Inches	Coupling Diameter, Inches	Without	With	Weight Pounds	A	В	С	D	E	F	н	- 1
	Inches	Oil Pipe	Oil Pipe			_		Inches		17.7	_	
4	1	162-410-B	-	3.0	5	%	3%	11/2	2	5	14	1/4
6	11/2	162-336-B	162-336-C	5.9	7	%	41/2	2	21/2	6	36	36
9	136	162-493-B	162-493-C	9.3	10	1	6%	2	21/2	6	36	- 34
	2	162-494-B	162-494-C	9.5	10	1	6%	2	21/2	6	36	- 35
10	136	162-495-B	162-495-C	11	11	. 1	6%	2	21/2	6	36	36
10	2	162-496-B	162-496-C	11	11	1	6%	2	21/2	6	36	3%
	2	162-497-B	162-497-C	16	13	1%	7%	2	21/2	61/2	1/2	35
12	21/se	162-498-B	162-498-C	20	13	1%	7%	3	21/2	6½	1/2	3/5
	3	162-499-B	162-499-C	20	13	1%	7%	3	21/2	61/2	1/2	3/5
14	21/se	162-500-B	162-500-C	26	15	1%	9%	3	21/2	6%	36	14
1.4	3	162-501-B	162-501-C	27	15	1%	9%	3	21/2	6½	36	- 14
16	3	162-502-B	162-502-C	34	17	1%	10%	3	21/2	6%	36	.%
18	3	162-347-B	162-347-C	39	19	1%	12%	3	3%	61/2	56	34
10	31/s	162-348-B	162-348-C	54	19	1%	12%	4	3%	6%	%	34



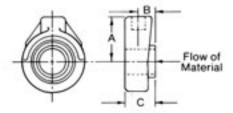
No. 216F Hangers are similar in construction to No. 216 hangers, except that they are designed for mounting in flared trough. These hangers are normally furnished with hard iron, babbitted, bronze, oil impregnated wood or molded fabric bearings, but can also be furnished with special bearings.

40. Z 10F	Hangers											
Screw	Coupling Diameter.	Part No	with	Weight	A	В	C	D	E	F	н	T
Diameter, Inches	Inches	Without Oil Pipe	Oil Pipe	Pounds			-	Inches	5			_
6	11/2	162-419-B	162-419-A	9.4	14	%	7	2	21/2	5	%	3/4
	11/2	162-420-B	162-420-A	14	18	%	9	2	21/2	5	%	3/4
9	2	162-421-B	162-421-A	17	18	%	9	2	21/2	5	%	3/1
	2	162-422-B	162-422-A	24	22	1%	10	2	21/2	5	1/2	36
12	27/16	162-423-B	162-423-A	28	22	1%	10	3	21/2	5	1/2	36
	3	162-424-B	162-424-A	32	22	1%	10	3	21/2	5	1/2	36
	21/16	162-425-B	162-425-A	31	24	1%	11	3	21/2	5	1/2	36
14	3	162-426-B	162-426-A	34	24	1%	11	3	21/2	5	1/2	34
16	3	162-427-B	162-427-A	38	28	1%	111/2	3	21/2	5	1/2	34
40	3	162-462-B	162-462-A	52	31	11/2	12%	3	31/2	6	%	36
18	31/4	162-463-B	162-463-A	61	31	11/2	12%	4	31/2	6	%	%
20	3	162-464-B	162-464-A	55	34	11/2	131/2	3	31/2	6	%	%
20	31/46	162-465-B	162-465-A	64	34	11/2	131/2	4	31/2	6	%	36
24	31/4	162-466-B	162-466-A	71	40	11/6	161/2	4	31/2	6	%	36



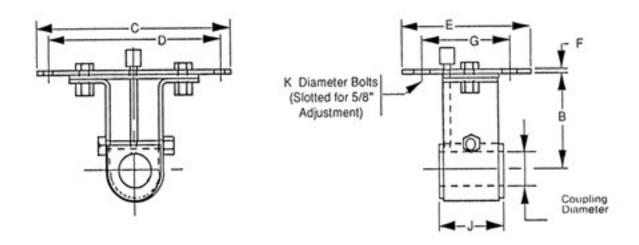
No. 220 Hangers are similar in construction to No. 226 hangers, except that they are mounted on top of the trough angles or flanges. These hangers are normally furnished with hard iron, babbitted, bronze, oil impregnated wood or molded fabric bearings, but can also be furnished with special bearings. Stainless steel frames can be furnished.

Screw	Coupling	Part No	umbers	Weight	A	8	С	D	E	F	н	T
Diameter, Inches	Diameter, Inches	Without Oil Pipe	With Oil Pipe	Pounds				Inches	-	,		-
6	11/2	162-369-B	162-369-C	5.4	9%	8%	41/2	2	21/2	41/2	36	%
9	11/2	162-370-B	162-370-C	8.3	131/2	12%	6%	2	21/2	41/2	36	14
	2	162-37 I-B	162-371-C	8.5	13½	12%	6%	2	21/2	41/2	%	14
10	11/2	162-372-B	162-372-C	10	141/2	13%	6%	2	21/2	41/2	%	14
10	2	162-373-B	162-373-C	11	141/2	13%	6%	2	21/2	41/2	%	14
	2	162-374-B	162-374-C	17	17½	15%	7%	2	21/2	5	1/2	%
12	21/1e	162-375-B	162-375-C	21	171/2	15%	7%	3	21/2	5	1/2	%
100	3	162-376-B	162-376-C	22	171/2	15%	7%	3	21/2	5	1/2	36
14	2%e	162-377-B	162-377-C	28	19%	17%	9%	3	21/2	5	1/2	1/2
14	3	162-378-B	162-378-C	29	19%	17%	9%	3	21/2	5	1/2	34
16	3	162-379-B	162-379-C	36	21%	19%	10%	3	21/2	5	1/2	36
18	3	162-380-B	162-380-C	45	24%	22%	12%	3	31/2	6	%	36



Hanger Bearing 270

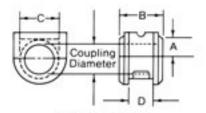
Coupling Diameter, Inches	Part Numbers	A	В	С
11/2	324-154-1	2%	11/32	1%
2	324-154-2	31/4	17/64	2
2%∗	324-154-3	4	1%4	21/14
3	324-154-4	41/6	117/32	215/16
31/14	324-154-5	6	123/64	31/6



No. 230 Hangers are similar in construction to No. 216 hangers, except that they are mounted on top of the trough angles or flanges. These hangers are normally furnished with hard iron, babitted, bronze, oil impregnated wood or molded fabric bearings, but can also be furnished with special bearings. Stainless steel frames can be furnished.

No. 230 H			09/10/32		399	- 65	3339			230	2,51	
Screw	Coupling		mbers	100000	В	C	D	E	F	G	J	K
Diameter Inches	Diameter Inches	Without Oil Pipe	With Oil Pipe	Weight Pounds				Inc	hes			
6	11/2	162-571-FA	162-571-FAP	4	412	914	814	412	376	212	115%	3/
9	110	162-571-FB	162-571-FBP	7	619	1312	12%	4%	14	219	115/16	3
	2	162-571-FC	162-571-FCP	8	619	1312	12%	4%	14	219	115/16	3
10	11/2	162-571-FD	162-571-FDP	8	6%	1412	1314	412	14	21/2	115/16	3
10	2	162-571-FE	162-571-FEP	8	639	1412	1314	412	14	212	115/16	3
	2	162-571-FF	162-571-FFP	14	7%	171/2	15%	5	36	212	115/16	1,
12	27/16	162-571-FG	162-571-FGP	15	7%	1712	15%	5	39	212	215/16	1/
	3	162-571-FH	162-571-FHP	16.63	7%	171/2	15%	5	39	212	215/16	1,
14	27/16	162-571-FJ	162-571-FJP	22	914	1912	17%	5	10	212	215/16	1/
14	3	162-571-FK	162-571-FKP	24	914	19%	17%	5	10	210	215/16	1/
16	3	162-571-FL	162-571-FLP	26	1046	211/2	19%	5	1/2	21/2	215/16	1/
18	3	162-571-FM	162-571-FMP	35	1216	2412	2214	6	10	312	215ne	5/
10	37/16	162-571-FN	162-571-FNP	41	1216	2412	2214	6	1/2	31/2	315/16	5
20	3	162-571-FP	162-571-FPP	40	1312	2612	24%	6	1/2	31/2	215/16	5
20	37/16	162-571-FR	162-571-FRP	42	1312	2612	24%	6	1/2	31/2	315ne	5
24	37/16	162-571-FS	162-571-FSP	61	1619	3012	28%	6	54	31/2	315/16	- 5

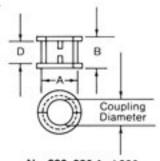
Link-Belt®



No. 216 And 316 Hanger Bearings

Coupling	Worker .			Part Numbers			A 200	525,000	500	1 1
Diameter. Inches	Bearing	Han	d Iron	Babbitted	Bronze	Oil	A	В	C	D
II ICTROS		No Oil Pipe	For Oil Pipe	Backingo	GIONE	Impregnated Wood		Inci	hes	
11/6	Upper	283-120-1	283-168-A	283-16-C	283-39-C	000 50 0	414	41007	611	444
1.72	Lower	283	21-4	283-16-C	283-39-C	283-56-D	13/52	119/16	21/4	15/
2	Upper	283-121-1	283-168-B	283-16-E	200 20 5	202 67 0	****	4167	01/	400
2	Lower	283-	23-4	203-10-E	283-39-E	283-57-D	17/92	115/16	31/4	1%
21/m	Upper	283-122-1	283-168-C	283-16-F	283-39-F	202 50 0	4.070	OH4		400
2710	Lower	283-	25-4	203-10-1	203-39-F	283-58-B	127/92	215/10	4	1%
3	Upper	283-123-1	283-168-D	202 16 H	202 20 14	202 60 0	****	O.I.	411	-
3	Lower	283-	27-5	283-16-H	283-39-H	283-59-D	12/32	215/14	41/2	2%
3%	Upper	283-136-1	283-168-E	202.46.1	202.20.1	000 00 D		0.07	430	-
3716	Lower	283-1	137-1	283-16-J	283-39-J	283-60-B	23/50	315/16	41/4	2%
315/m	Upper	283-30-3	283-168-F		000 00 K		0.00		war.	
3.74	Lower	283-	31-3	-	283-39-K	-	221/32	315/16	53/4	31/4

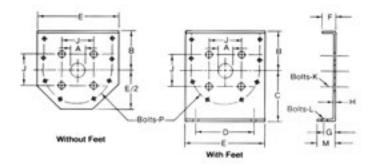
▲ For numbers 16, 16B, 24, and 24A, old style hangers.



No. 220, 226 And 326 Hanger Bearings

Coupling					Part Numbers						
Diameter Inches	Bearing		d Iron	Babbitted	Bronze	Oil Impregnated		Nylon	A	В	D
THEFT	0000	Oil Pipe	OliPipe	baconed	Dronze :	Wood	Wearite	MOS2		Inches	
1	Upper	283-69-3		283-61-F	283-84-A	283-97-D	10000		416	470	See.
1	Lower	283	-69-3	203-01-F	203-04-A	203-91-0	1-12	-	1%	17/16	11/6
1%	Upper	283-70-3	283-70-4	202 01 4	000 04 0	200 00 0	000 174 1	000 447 4		4100	
1 72	Lower	283	-70-3	283-61-A	283-84-B	283-98-D	283-171-A	283-147-1	21/6	115/16	1%
2	Upper	283-72-3	283-72-4	202 01 0	000 04 0	000 00 0	202 171 2			- America	
2	Lower	283	72-3	283-61-B	283-84-C	283-99-D	283-171-B	283-147-2	23/4	115/16	196
21/10	Upper	283-73-3	283-73-4	283-61-C	202.04.0	202 100 0	000 171 0	000 447.0	- Oli	000	
2716	Lower	283	-73-3	283-61-0	283-84-D	283-100-B	283-171-C	283-147-3	31/4	215/ie	2%
3	Upper	283-74-3	283-74-4	202 64 0	202 04 5	000 101 0	000 171 0	000 117 1			
3	Lower	283	74-3	283-61-D	283-84-E	283-101-D	283-171-D	283-147-4	4	215/16	2%
31/16	Upper	283-138-1	_	202 24 5	000 04 5	000 400 0	000 131 5				
37%	Lower	283-	138-1	283-61-E	283-84-F	283-102-B	283-171-E	283-147-5	43/4	315/16	3%
315/16	Upper	283-114-1	-	. 5	1 200			Silve			
3.74	Lower	283-	114-1	-		-	_	-	51/4	315/16	31/4

For numbers 20A, 20B, 26A, 26B, 28A, 28B old style hangers.



Trough End Plates consist of heavy steel plate, flanged at the top for supporting the trough cover. They can be furnished with or without feet, formed by a flange at the bottom for supporting the conveyor trough. They are drilled and countersunk on the back side, to suit either babbitted, bronze, or ball bearing flanged units, or shaft-mounted screw conveyor drive adapter housings. Trough end plates with mounting holes located other than shown, can be furnished. Stainless steel trough end plates with or without feet, can be furnished.

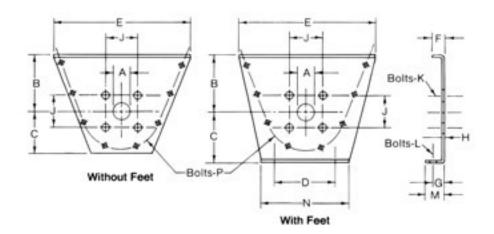
Sorew	Shaft		Trough E	nd Plate		400						G	н		-		**	p
Dia.	Dia.	With Feet		Without Fee	4	A	8	С	D	E		0	"	3	K	-	М	
Inc	hes	Part No.	Weight	Part No.	Weitht						Inches	1						_
4	1	651-536-1	5	651-536-4	3	11/4	35/6	4%	53/4	73/4	17/16	1	3/16	21/4	3/6	3/4	1%	3/6(1)
6	11/2	651-536-7	7	651-536-10	5	13/4	41/2	5%	81/6	93/4	11/2	1	3/16	4	1/2	3/6	13/4	3/4(1)
	11/2	651-536-13	17	651-536-19	12	13/4	61/6	77/6	91/4	13%	15%	11/2	1/4	4	1/2	1/2	21/6	3/6(2)
9	2	651-536-16	17	651-536-22	12	21/4	61/6	77/a	9%	13%	15%	11/2	1/4	51/6	1/4	1/2	25/6	3/4(2)
	11/2	651-536-25	20	651-536-31	14	13/4	63/6	87/6	91/2	14%	13/4	13/4	1/4	4	1/2	1/2	27/6	3/4(2)
10	2	651-536-28	20	651-536-34	14	21/4	63/6	87/4	91/2	14%	13/4	13/4	1/4	51/6	1/6	1/2	27/6	3/4(2)
	2	651-536-37	28	651-536-46	19	21/4	73/4	9%	121/4	171/4	2	1%	1/4	51/6	1/6	5/4	23/4	1/2(2)
12	27/1e	651-536-40	28	651-536-49	19	2"/16	73/4	9%	121/4	171/4	2	1%	1/4	5%	1/6	1/4	23/4	1/2(7)
	3	651-536-43	28	651-536-52	19	31/4	73/4	91/4	121/4	171/4	2	15%	1/4	6	3/4	5/4	23/4	1/2(2)
	27/1e	651-536-55	42	651-536-61	32	211/16	9//4	10%	131/2	191/4	2	1%	1/16	5%	1/6	5/4	27/6	1/2(2)
14	3	651-536-58	42	651-536-64	32	31/4	91/4	10%	131/2	191/4	2	15%	1/10	6	3/4	5/6	27/6	1/2(2)
16	3	651-536-67	54	651-536-70	41	31/4	10%	12	147/4	211/4	21/2	2	5/16	6	3/4	5/4	31/4	5/6(2)
40	3	651-536-73	80	651-536-79	61	31/4	121/6	13%	16	241/4	21/2	2	3/6	6	3/4	5/6	31/4	5/6(3)
18	37/16	651-536-76	80	651-536-82	61	311/16	121/6	131/4	16	241/4	21/2	2	3/6	63/4	3/4	5/6	31/4	5/6(3)
	3	651-536-85	96	651-536-91	72	31/4	131/2	15	191/4	261/4	21/2	21/4	3/6	6	3/4	3/4	33/4	5/6(3)
20	37/16	651-536-88	96	651-536-94	72	311/16	131/2	15	191/4	261/4	21/2	21/4	3/6	63/4	3/4	3/4	31/4	5/6(3)
	3	651-536-97	130	651-536-103	96	31/4	161/2	181/6	20	301/4	21/2	21/2	3/6	6	3/4	3/4	41/6	5/6(4)
24	31/14	651-536-100	130	651-536-106	96	311/se	161/2	181/6	20	301/4	21/2	21/2	3/6	63/4	3/4	2/4	41/6	3/6(4)

(1)Six bolt holes

(3)Ten bolt holes

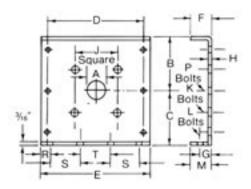
(7)Eight bolt holes

(4)Twelve bolt holes



Screw	Shaft		Trough	End Plate					0		-	-	-							
Dia.	Dia.	With Fee	rt .	Without Fe	HOT	Α.	В	W/Feet'i	N/O Feet	D	E	F	G	H	3	K	L	м	N	P
Inc	hes	Part. No.	Weight	Part No.	Weight							Inch	es							
6	11/2	651-537-1	10	651-537-4	9	1%	7	5%	5	81/4	161/4	11/2	1	3/16	4	1/2	3/6	13/4	101/4	34(1
9	11/2	651-537-7 651-537-10	25 24	651-537-13 651-537-16	21 20	1¾ 2¼	9	71/h 71/h	6¾ 6¾	93/4 93/4	211/4 211/4	1% 1%	11/2	1/4 1/4	4 5¼	1/2 5/8	1/2 1/2	21/h 21/h	14% 14%	3/4(2
12	2 2 <sup>7</sup> /4 3	651-537-19 651-537-22 651-537-25	36 36 35	651-537-28 651-537-31 651-537-34	31 31 30	21/4 211/16 31/4	10 10 10	9% 9% 9%	81/4 81/4 81/4	121/4 121/4 121/4	26¾ 26¾ 26¾	2 2 2	1% 1% 1%	1/4 1/4 1/4	51/a 51/a 6	56 56 74	% % %	2¾ 2¾ 2¾ 2¾	17½ 17½ 17½	1/4(2 1/4(2 1/4(2
14	2 <sup>1</sup> /16 3	651-537-37 651-537-40	54 53	651-537-43 651-537-46	46 46	2 <sup>11</sup> /1e 3 <sup>1</sup> /4	11 11	101/a 101/a	99/4 99/4	131/2 131/2	28¾ 28¾	2 2	1% 1%	9/16 9/16	51/h 6	5/h 3/4	5/6 5/6	27/a 27/a	19½ 19½	1/4(2 1/4(2
16	3	651-537-49	66	651-537-52	57	31/4	111/2	12	10%	141/4	321/2	21/2	2	1/16	6	3/4	5/6	31/4	213/4	5/6(3
18	37/10	651-537-A 651-537-D	107 107	651-537-G 651-537-K	91 91	31/4 311/16	121/a 121/a	13% 13%	121/4 121/4	16 16	361/± 361/±	21/2 21/2	2 2	3/6 3/6	6 6¾	3/4 3/4	5/6 5/6	31/4 31/4	24¾ 24¾	5/6(3 5/6(3
20	37/14	651-537-N 651-537-S	129 128	651-537-V 651-537-Y	106 106	31/4 311/16	13½ 13½	15 15	131/4 131/4	19¼ 19¼	391/± 391/±	21/2 21/2	21/4 21/4	3/6 3/6	6 6¾	3/4 3/4	3/4	3¾ 3¾	261/a 261/a	5/6(3) 5/6(3)
24	3'/14	651-537-AB 651-537-AE	175 175	651-537-AH 651-537-AL	143 142	31/4	161/a 161/a	181/a 181/a	15¼ 15¼	20 20	451/z 451/z	21/2 21/2	21/2 21/2	3/6 3/6	6 63/4	3/4 3/4	3/4 3/4	41/e 41/e	31 31	5/6(4) 5/6(4)

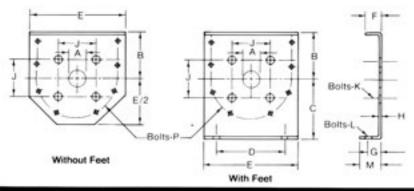
(1)Six bolt holes (2)Eight bolt holes (3)Ten bolt holes (4)Twelve bolt holes



Screw Dia.	Shaft Dia.	Part Number	Weight, Pounds	Α.	В	C	D	E	E	G	н	J	K	L	м	Ρ.	R.	S	T
Inc	hes										Inches								
4	1	651-538-A	- 4	11/4	35/6	31/4	7	73/4	17/16	7/6	3/16	23/4	3/6	1/4(1)	11/4	3/6(2)	1/2	21/4	21/4
6	11/2	651-538-D	6	13/4	41/2	5	81/h	93/4	11/2	13/16	3/16	4	1/2	3/6(1)	11/2	3/6(2)	9/16	213/16	3
9	11/2	651-538-G 651-538-K	14 14	13/4 21/4	61/s 61/s	71/6 71/6	12½ 12½	13¾ 13¾	15/6 15/6	1	1/4	4 5%	1/2 5/6	3/6(1) 3/6(1)	11/2	3/6(3)	7/6 7/6	4	4
10	11/2	651-538-N 651-538-S	17 17	1¾ 2¼	63/a 63/a	7º/s 7º/s	131/4 131/4	14¾ 14¾	13/4 13/4	1 1	1/4 1/4	4 5%	1/2 5/6	3%(1) 3%(1)	156 156	3/6(3)	7/a 7/a	4% 4%	41/4
12	2 2 <sup>1</sup> /16 3	651-538-V 651-538-Y 651-538-AB	22 22 22	21/4 211/4 31/4	73/4 73/4 73/4	87/6 87/6 87/6	15½ 15½ 15½	171/4 171/4 171/4	2 2 2	1¼ 1¼ 1¼	1/4 1/4 1/4	5% 5% 6	5/6 5/6 3/4	3%(1) 3%(1) 3%(1)	21/A 21/A 21/A	1/5(3) 1/5(3) 1/5(3)	7/a 7/a 7/a	51/A 51/A 51/A	51/4 51/4
14	2 <sup>7</sup> /16 3	651-538-AE 651-538-AH	37 36	2"/16 31/4	91/4 91/4	101/6 101/6	17½ 17½	191/4 191/4	2 2	11/4	%н %н	5% 6	5/6 3/4	3/4(2) 3/4(2)	21/h 21/h	1/2(3) 1/2(3)	7/4	31/2 31/2	31/4
16	3	651-538-AL	45	31/4	10%	111/6	20	211/4	21/2	11/4	5/16	6	3/4	3/4(2)	21/4	5/6(3)	7/6	31/4	4
18	3 3½e	651-538-AP 651-538-AT	69 68	31/4 311/46	121/h 121/h	12% 12%	22 22	241/4 241/4	2½ 2½	11/2	3/6 3/6	6 6¾	3/4 3/4	1/2(2) 1/2(2)	21/a 21/a	5/6(4) 5/6(4)	11/6	4 <sup>3</sup> /16 4 <sup>3</sup> /16	4%
20	3 37/16	651-538-AW 651-538-AZ	82 81	31/4 311/16	13½ 13½	13% 13%	24¾ 24¾	261/4 261/4	21/2	11/2	3/a 3/a	6 6¾	3/4	1/5(2) 1/5(2)	25/a 25/a	5/6(4) 5/6(4)	11/6 11/6	47/a 47/a	43/4
24	3 37/m	651-538-BC 651-538-BF	111 110	31/4	161/2	15¾ 15¾	28½ 28½	301/4 301/4	21/2	11/2	3/6 3/6	6 63/4	3/4 3/4	1/2(2) 1/2(2)	25/s 25/s	5/6(5) 5/6(5)	11/6	5% 5%	51/2

(1)Four bolt holes (2)Six bolt holes (3)Eight bolt holes

(\*)Ten bolt holes (\*)Twelve bolt holes

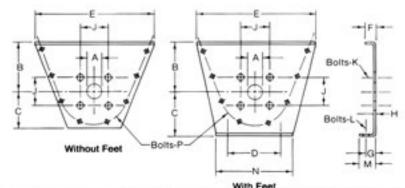


		111	Trough	End Plate					Ι.				I					
Screw Dia.	Shaft Dia.	With Fo	too	Without F	oot	Aft	8	C	D	E	F	G	н	1	K	L	м	P
Inches	Inches	Part Number	Weight, Pounds	Part Number	Weight, Pounds						Incl	hes						
6	11%	651-123-1	11	651-123-64	8	4%	41/2	5%	81/6	9%	11/2	1	%	5%	%	%	1%	360
9	11/2	651-123-2 651-123-2	24 24	651-123-65 651-123-65	17 17	4% 4%	6% 6%	7% 7%	9% 9%	13%	1% 1%	11/2	% %	5% 5%	% %	1/4 1/4	2% 2%	%(5 %(5
10	11/2	651-123-3 651-123-3	30 30	651-123-67 651-123-67	19 19	4% 4%	6% 6%	8% 8%	9½ 9½	14% 14%	1% 1%	1% 1%	% %	5% 5%	% %	% %	2% 2%	%(* %(*
12	2 21/46 3	651-123-4 651-123-5 651-123-6	37 36 36	651-123-69 651-123-70 651-123-71	28 27 27	4% 5% 6	7% 7% 7%	9% 9% 9%	12¼ 12¼ 12¼	17¼ 17¼ 17¼	2 2 2	1% 1% 1%	% % %	5% 6% 8	% %	% % %	2% 2% 2%	567 567 567
14	2%s 3	651-123-7 651-123-8	61 61	651-123-72 651-123-73	47 46	5% 6	9¼ 9¼	10% 10%	13%	19¼ 19¼	2	1% 1%	% %	6¼ 8	1 %	%	2% 2%	341 341
16	3	651-123-9	77	651-123-74	60	6	10%	12	14%	21%	21/2	2	1/2	8	1	%	314	560
18	3 31/16 315/16	651-123-A 651-123-A 651-123-A	113 113 113	651-123-S 651-123-S 651-123-S	92 92 92	6 6 6	12% 12% 12%	13% 13% 13%	16 16 16	24% 24% 24%	2½ 2½ 2½	2 2 2	1/4 1/4 1/4	8 8 8	1 1 1	% %	3¼ 3¼ 3¼	%(* %(* %(*
20	3 31/4 319/4	651-123-C 651-123-C 651-123-C	136 136 136	651-123-U 651-123-U 651-123-U	109 109 109	6 6 6	13½ 13½ 13½	15 15 15	19¼ 19¼ 19¼	26¼ 26¼ 26¼	2½ 2½ 2½	2¼ 2¼ 2¼	1/4 1/4 1/4	8 8 8	1 1 1	% %	3% 3% 3%	%(* %(* %(*
24	31/46 311/46	651-123-E 651-123-E	186 186	651-123-W 651-123-W	147 147	6	16½ 16½	18%	20 20	30¼ 30¼	2½ 2½	2½ 2½	36 36	8	1	%	4% 4%	%(* %(*

(1)Six bolt holes (2)Eight bolt holes (3)Ten bolt holes (4)Twelve bolt holes

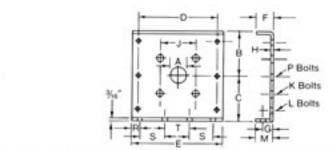
(5)Tolerance + .010"

			Trough 8	End Plate		20.20	100	- (			0000			250		0.00		100	1.22	100
Dia.	Shaft Dia.	With Fee	4	Without Fe	ret	A(")	В	With Foot	W/O Foot	D	E	F	G	н	3	к	r	м	N	P
In	ches	Part No.	Weight	Part No.	Weight							Inc	thes							
6	11/2	651-447-35	19	651-480-35	16	4%	7	-5%	5	8%	16%	11/2	1	%	5%	34	%	1%	10%	36(*
9	1% & 2	651-447-36	36	651-480-36	30	4%	9	7%	6%	9%	21%	1%	11/2	%	5%	%	1/2	2%	14%	36(2)
12	2 2% 3	651-447-37 651-447-38 651-447-39	53 53 52	651-480-37 651-480-38 651-480-39	46 45 44	4% 5% 6	10 10 10	9% 9% 9%	8% 8% 8%	12¼ 12¼ 12%	26% 26% 26%	2 2 2	1% 1% 1%	% % %	5% 6% 8	% %	% % %	2% 2% 2%	17% 17% 17%	%(*) %(*) %(*)
14	21/16 3	651-447-40 651-447-41	83 82	651-480-40 651-480-41	72 71	5½ 6	11	10% 10%	9% 9%	13%	28% 28%	2	1%	% %	6¼ 8	.% 1	%	2% 2%	19%	36(3) 36(3)



		7.00	Trough 8	End Plate				-	2	_	-	-	_			2			166	-
Dia.	Shaft Dia.,	With Fee	4	Without Fe	et	A	В	With Foot	W/O Foot	D	E	,	G	н	,	K	١.	м	N	P
Inc	thes	Part No.	Weight	Part No.	Weight		-					Inc	hes						77	
16	3	651-447-42	103	651-480-42	88	6	11½	12	10%	14%	32%	21/2	2	1/2	8	1	%	3%	21%	%(
18	3 31/46 311/48	651-512-S 651-512-S 651-512-S	140 140 140	651-512-A 651-512-A 651-512-A	118 118 118	6 6 6	12% 12% 12%	13% 13% 13%	12¼ 12¼ 12¼	16 16 16	36½ 36½ 36½	2½ 2½ 2½	2 2 2	% % %	8 8 8	1 1 1	% % %	3¼ 3¼ 3¼	24% 24% 24%	%( %( %(
20	3 3% 3%	651-512-U 651-512-U 651-512-U	168 168 168	651-512-C 651-512-C 651-512-C	139 139 139	6 6	13½ 13½ 13½	15 15 15	13¼ 13¼ 13¼	19¼ 19¼ 19¼	39½ 39½ 39½	2½ 2½ 2½	2% 2% 2%	% % %	8 8 8	1 1 1	% %	3% 3% 3%	26% 26% 26%	%( %( %(
24	31/16 319/16	651-512-W 651-512-W	230 230	651-512-E 651-512-E	188 188	6	16½ 16½	18%	15¼ 15¼	20 20	45½ 45½	2½ 2½	21/2	1/4	8	1	%	4% 4%	31 31	%( %(

(1)Six bolt holes (2)Eight bolt holes (\*)Ten bolt holes (\*)Twelve bolt holes (5)Tolerance +.010"

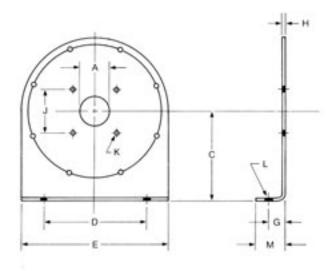


Screw Dia.	Shaft Dia.	Part Number	Weight, Pounds	A(*)	В	С	D	E	F	G	н	J	к	L	м	P	R	s	T
Inc	hes	110000									Inche	15							
6	11/2	651-502-A	10	4%	41/2	5	8%	9%	11/2	11/16	%	5%	%	%(1)	11/2	36(2)	%10	211/14	3
9	11/2	651-502- D 651-502- D	21 21	4% 4%	6% 6%	7% 7%	12½ 12½	13% 13%	1% 1%	1	% %	5% 5%	% %	%(1) %(1)	1½ 1½	%(2) %(2)	% %	4	4
10	11/2	651-502- G 651-502- G	24 24	4% 4%	6% 6%	7% 7%	13¼ 13¼	14% 14%	1% 1%	1	% %	5% 5%	% %	%(1) %(1)	1% 1%	%(3) %(3)	% %	4%s 4%s	4% 4%
12	2 2% 3	651-502- AB 651-502- AE 651-502- AH	35 34 34	4¾ 5½ 6	7% 7% 7%	8% 8% 8%	15% 15% 15%	17¼ 17¼ 17¼	2 2 2	1% 1% 1%	% % %	5% 6% 8	% % 1	%(°) %(°) %(°)	2% 2% 2%	%(*) %(*) %(*)	% % %	5% 5% 5%	5% 5% 5%
14	21/16 3	651-502- AL 651-502- AP	55 54	5½ 6	9% 9%	10%	17% 17%	19% 19%	2 2	1% 1%	1/4 1/4	6¼ 8	1 %	%(°) %(°)	2% 2%	%(°) %(°)	% %	31/2 31/2	3½ 3½
16	3	651-502-AT	69	6	10%	11%	20	21%	21/2	1%	1/2	8	1	%(2)	2%	56(3)	36	3%	4
18	3 31/16 315/16	651-502-K 651-502-K 651-502-K	104 104 104	6 6	12% 12% 12%	12% 12% 12%	22 22 22	24% 24% 24%	2½ 2½ 2½	1½ 1½ 1½	% % %	8 8 8	1 1 1	35(2) 35(2) 35(2)	2% 2% 2%	%(*) %(*) %(*)	11/6 11/6 11/6	47/16 47/16 47/16	4% 4% 4%
20	3 31/4 31/4	651-502-V 651-502-V 651-502-V	122 122 122	6 6	13½ 13½ 13½	13% 13% 13%	24% 24% 24%	26% 26% 26%	21/2 21/2 21/2	1½ 1½ 1½	1/4 1/4 1/4	8 8 8	1 1 1	36(2) 36(2) 36(2)	2% 2% 2%	%(*) %(*) %(*)	1% 1% 1%	4% 4% 4%	4% 4% 4%
24	31/16 315/16	651-502-Y 651-502-Y	163 163	6	16½ 16½	15% 15%	28½ 28½	30¼ 30¼	2½ 2½	11/2	1/2 1/2	8	1	1/2(2) 1/2(2)	2% 2%	%(*) %(*)	11/6	5% 5%	5½ 5½

(1)Four bolt holes (2)Six bolt holes (\*)Eight bolt holes (\*)Ten bolt holes (\*)Twelve bolt holes (\*)Tolerance +.010"

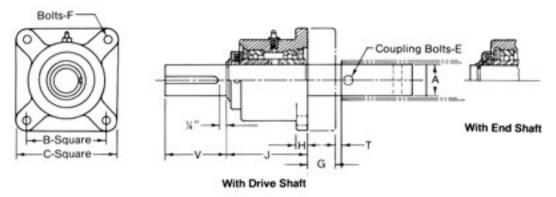
# component description

# **Trough Ends**



Screw	Shaft	P	art Numbe	M.	Wei	ght, inds	A	С	D	Ε	G	н	J	к	L	м
Dia.	Dia.	C.S.	304sst	316sst	C.S.	SST										
6	11/6	546-1	547-1	548-1	6	6.7	1%	5%	8%	10	1	3/16	4	% to	3/1e	1%
9	1½ 2	546-2 546-3	547-2 547-3	548-2 548-3	15.5	17	1% 2%	7%	9%	13%	1%	%	4 5%	9/16 11/16	%/ie	2%
12	2 21/14 3	546-4 546-5 546-6	547-4 547-5 547-6	548-4 548-5 548-6	23.9	26	2% 2% 3%	9%	12%	17%	1%	14	5% 5% 6	11/16 11/16 13/16	11/16	2%
14	27/16	546-7 546-8	547-7 547-8	548-7 548-8	37	40	2%s 3%	10%	12%	19%	1%	%e	5% 6	11/16 13/16	11/16	2%
16	3	546-9	547-9	548-9	45	48.6	3%	12	14%	21%	2	Vie :	6	13/16	11/ie	3%
18	3//16		547-10 547-11			73.7	3% 3%s	13%	16	241/2	2	%	6 6%	13/16	- 11/16	3%
20	3 31/16		547-12 547-13			88.5	3% 3%s	15	19%	26%	2%	%	6 6%	13/16	13/16	3%
24	3 31/he		547-14 547-15			120	3% 3%	18%	20	30%	2½	%	6 6%	13/16	13/16	4%

<sup>\*</sup> Complete part number by adding prefix 651-. Example: 651-546-7

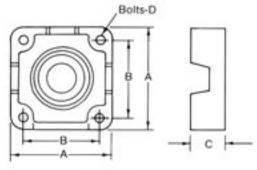


Double Ball Bearing Flanged Blocks with drive shafts consist of rigid shafts operating in two single row, deep groove ball bearings which are effectively sealed and mounted in heavy, one-piece gray iron housings. Spring locking collars with two set screws hold bearings firmly on shafts. This unit will accommodate radial and thrust loads. Shafts are available for use with or without trough end seals. These flanged blocks can also be furnished with tail shafts.

S		Fla	nged Bloc	k With Shaft		1		1				>				
Shaft Diameter		Provision For ugh End Seal	1000		Provision For ugh End Seal	- 6	В	С	E	F	G	н	3	т	v	Keyseal
A. Inches	Part N	umbers	Weight, Pounds	Part No	umbers	Weight Pounds										
2000	Drive Shaft	End Shaft	(1)	Drive Shaft	End Shaft	(')						Inche	05			1,500
11/2	153-96-BA	153-96-DA	17	153-96-FC	153-96-FD	18	4	5%	36	36	1%	%	4%	1%	31/2	%× 5%
2	153-97-BA	153-97-DA	30	153-97-FC	153-97-FD	32	5%	6%	%	%	1%	11/16	51/10	1%	4	%×%
21/16	153-98-AG	153-98-CC	44	153-98-EA	153-98-EB	46	5%	6%	%	%	1%	11/16	5%2	1%	41/2	% x %s
3	153-99-BJ	153-99-EG	70	153-99-HG	153-99-HH	74	6	7%	%	%	1%	%	6%	1%	5%	%×%
31/4	153-100-BA	153-100-DA	107	153-100-FC	153-100-FD	112	6%	8%	34	34	2%	1	7%	2%	6	% x 1/16

<sup>(1)</sup>Weights are for assemblies with drive shaft.

Trough End Seals provide bearing protection against dust or fumes from within the trough and against entrance of dirt, moisture or lubricant along the shaft. The gray iron seal housings are designed for assembly between bearing flanged blocks and the trough end plates. They can be provided with lip-type seals for maximum protection for or against the materials being handled, with felt seals when handling dusty materials, or with waste packing when handling abrasive materials.



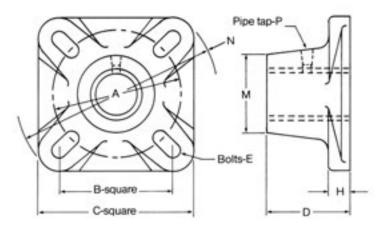
Lip Type

Shaft	Thou	gh End Seal N	lumber	Ministra				
Diameter, Inches	Lip Type(')		Waste-Pack Type(1)	Weight Pounds	Α.	B In	C	D
11/2	121-83-KL		121-83-KW	4.3	5%	4	1%	1/4
2	121-83-SL		121-83-SW	6.0	6%	5%	1%	%
2%e	121-83-UL		121-83-UW	7.0	6%	5%	1%	%
3	121-83-XL		121-83-XW	10.0	7%	6	1%	34
31/ne	121-83-YL		121-83-YW	15.5	8%e	6%	2%	34

<sup>(1)</sup>Normally carried in stock as unassembled parts.

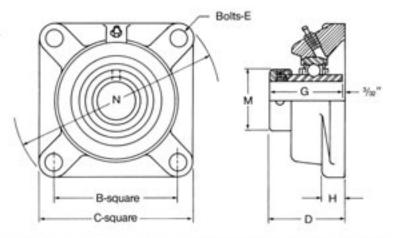
<sup>(2) 304</sup> and 316 SST applications use 121-92.

#### **Screw conveyor**



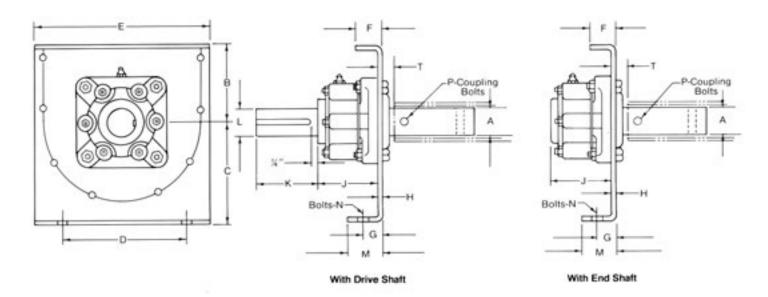
Shaft diameter,	Part nu	mbers	Weight,	A	В	c	D	E	н	м	N	p
inches	Babbitted	Bronze	pounds					Inches		S		
1	176-62-C	556-6-C	2.4	3	2%	3%	2	%	1/2	1%	429/32	- 14
1½	176-62-H	556-6-H	5.3	4%	4	5%	3	1/2	%	21/2	613/16	X
2	176-62-AB	556-6-AB	10.3	514	5%	6%	4	%	36	31/4	8%	14
21/14	176-62-AE	556-6-AE	16.5	614	5%	6%	5	%	1	4	9%	34
3	176-62-AK	556-6-AK	26.0	7%	6	7%	6	%	1%	4%	10%	. %
37/m	176-62-BC	556-6-BC	35.0	8%	6%	8%s	7	%	11%	51/6	11%	1/2

Grease cups or fittings are not included.



Ball bearin	g-flanged b	locks								
Shaft diameter.	Part number	Weight, pounds	В	С	D	Ε	G	н	м	N
inches	3.7957634	30000				Inches	5			
1	292	2.0	2%	3%	129/64	7/16	123/64	19/32	1%	429/32
11/2	301	5.2	4	5%	2584	1/2	129/32	%	211/16	625/32
2	309	9.5	5%	6%	215 <sub>84</sub>	56	21/4	%	3½	81/2
21/16	318	11.0	5%	6%	227,02	56	2½	15/16	321/32	97/32
3	39	17.0	6	7%	231/32	%	2%	%	4%	10%
37/16	42	26.0	6%	8%s	321/32	%	31/16	1	51/16	11%

<sup>\*</sup> Complete number by adding prefix 1040-10. Example: 1040-10-9. Blocks include grease fittings, are greased and ready for operation. These are Series F3-U200N thru 21/10 size and Series F 200 for 3" and over.

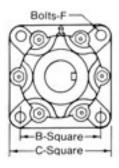


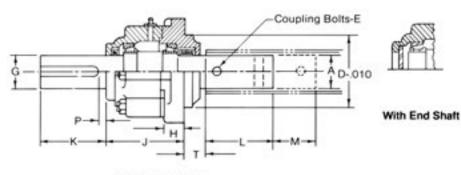
Drive Shaft Trough Ends with Double Roller Bearings have large radial capacity. In addition, the assembly accommodates heavy thrust loads in either direction, making separate thrust provisions unnecessary.

Screw	A, Shaft	Part N	umbers	Weight,	n	C	D	E	F	G	н	J	K	L	м	N	P	T
Nameter, Inch	Dia.	Drive Shaft	End Shaft	Pounds (*)							Inch	os						
6	1%	155-6-AD	155-6-BD	65	4%	5%	8%	9%	1%	1	%	6%	4	1%s	1%	36	1/2	13
9	1% 2	155-6-AE 155-7-AD	155-6-BE 155-7-BD	78 81	6% 6%	7% 7%	9% 9%	13% 13%	1% 1%	135 135	% %	6% 6%	4 4%	1%s 1%s	2% 2%	1/2 1/2	1/2 1/4	13
10	1% 2	155-6-AF 155-7-AE	155-6-BF 155-7-BE	84 87	6% 6%	8% 8%	9½ 9½	14% 14%	1% 1%	1% 1%	% %	6% 6%	4 4%	1%s 1%s	2% 2%	½ ½	½ %	13
12	2 2%s 3	155-7-AF 153-130-L 153-131-W	155-7-BF 153-130-H 153-131-P	94 102 165	7% 7% 7%	9% 9% 9%	12% 12% 12%	17% 17% 17%	2 2 2	1% 1% 1%	% % %	6% 6% 8%	4½ 5½ 6	1% 2% 2% 2%	2% 2% 2%	% %	% % %	13 13 2
14	21/1s 3	153-130-M 153-131-X	153-130-J 153-131-R	127 190	9% 9%	10% 10%	13½ 13½	19% 19%	2 2	1% 1%	½ ½	6¼ 8¼	5% 6	21/16 211/16	2% 2%	%	% %	13
16	3	153-131-Y	153-131-S	206	10%	12	14%	21%	21/2	2	1/2	814	6	2%	3%	%	%	2
18	3 3% 3%	153-131-Z 153-142-R 153-143-R	153-131-T 153-142-K 153-143-K	242 264 280	12% 12% 12%	13% 13% 13%	16 16 16	24% 24% 24%	2½ 2½ 2½	2 2 2	% % %	8¼ 8¼ 8¼	6 7 6%	2% 3% 3%	3% 3% 3%	% % %	% % 1	23
20	3 3% 3%	153-131-AA 153-142-S 153-143-S	153-131-U 153-142-L 153-143-L	265 287 303	13½ 13½ 13½	15 15 15	19% 19% 19%	26% 26% 26%	2½ 2½ 2½	2¼ 2¼ 2¼	1/2 1/2 1/2	8¼ 8¼ 8¼	6 7 6%	2% 3% 3%	3% 3% 3%	% % %	% % 1	2)
24	31/4e 311/4e	153-142-T 153-143-T	153-142-M 153-143-M	337 353	16½ 16½	18%	20 20	30%	2%	21/2	% %	8¼ 8¼	7 6%	31/16	4% 4%	%	1 %	21

<sup>(1)</sup>Weights are for drive shaft assembly.

Bearing blocks are provided with grease fittings and are greased ready for operation. Coupling bolts are not included.





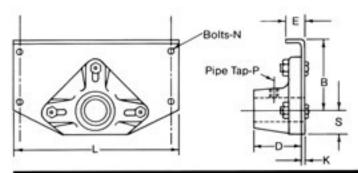
With Drive Shaft

Double Roller Bearing Flanged Blocks with drive shafts consist of rigid shafts operating in two oversize roller bearings which are effectively sealed and mounted in rugged two-piece gray iron housings. The bearings are held in place by necked shafts and are suitable for heavy thrust loads in either direction in addition to carrying radial loads for overhung drive applications. These flanged blocks can also be furnished with tail shafts.

	End Bearings Imbers and W	-Flanged-E /eights)	Oouble Roller		
Shaft Diameter Inches	With Drive Shaft	With End Shaft	Without Drive Shaft	Without End Shaft	Weight (*) Pounds
1½	155-6-AB	155-6-BB	155-6-B	155-6-C	52
2	155-7-AB	155-7-BB	155-7-B	155-7-C	55
2%	153-130-K	153-130-G	153-130-D	153-130-A	63
3	153-131-V	153-131-N	153-131-G	153-131-A	125
31/4	153-142-P	153-142-J	153-142-E	153-142-A	147
315/4	153-143-P	153-143-J	153-143-E	153-143-A	163

(¹)Weights are for drive shaft assembly. Blocks include grease fittings, are greased and ready for operation. Bore tolerance for mounting +.010"—.000." For unusually heavy loads extend shaft and provide outboard bearing.

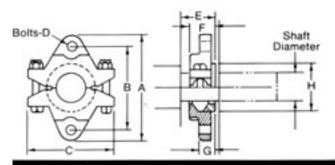
Shaft Dia. A	В	С	D	E	F	G	н	J	к	L	М	P	т	Keyseat
							Inches							
11/2	5%	714	4.75	10	34	17/16	1%	634	4	4%	3	To.	139	39 X 316
2	5%	719	4.75	50	34	115/16	114	61/4	412	4%	3	to.	139	12 x 14
27/16	614	8	5.50	1.0	7.0	27/16	119	614	512	474	3	1a	179	50 x 510
3	8	10	6.00	34	1	215/16	110	814	6	5	3	14	2	30 x 30
37/16	8	10	6.00	7.0	1	37/16	110	814	7	7	4	14	21/2	76 x 756
315/16	8	10	6.00	1	1	315/16	110	819	619	7	4	179	219	1 x 12



Outside Discharge Trough Ends are for bolting to conventional trough flanges, permitting free discharge of material below the trough end. They are made of heavy steel with a top flange to support the trough cover and are fitted with babbitted, bronze or ball bearing flanged blocks.

_	Cou-		Part Numbers		Weigh	t/Lbs.		- 50	D					P		S
Screw Diam- eter, Inches	pling Diam- eter,	Bab- bitted Bear-	Bronze Bear- ing	Ball Bear- ing	Bab- bitted or	Ball Bear- ing	В	Babb. Brz.	Ball	E	К	L	N	Babb. Brz. (*)	Babb. Brz.	Ball
	Inches	ing	***9	(1)	Bronze	my	7				- 1	nches				
6	13/2	153-127-A	153-128-A	_	9.2	-	41/2	3	-	1%	%	9%	%(°)	34	1%	-
9	136	153-127-B	153-128-B	153-129-B	13	13.	6%	3	2	1%	X	13%	%(")	74	11/2	2
29	2	153-127-C	153-128-C	153-129-C	20	18.	6%	4	211/32	1%	14	13%	%(°)	74	1%	211/16
	136	153-127-D	153-128-D	153-129-D	14	14.	6%	3	2	134	34	14%	%(°)	34	11%	2
10	2	153-127-E	153-128-E	153-129-E	21	19.	6%	4	211/32	134	34	14%	%(°)	34	1%	211/16
	2	153-127-F	153-128-F	153-129-F	23	22.	7%	4	211/32	2	34	17%	35(°)	14	1%	211/16
12	21/16	153-127-G	153-128-G	153-129-G	30	23.	7%	5	211/32	2	%	17%	%(1)	36	2%	3
	3	153-127-H	153-128-H	153-129-H	39	30.	7%	6	231/32	2	14	17%	35(1)	%	2%	3%
	21/16	153-127-J	153-128-J	153-129-J	38	31.	9%	5	211/32	2	1/16	19%	35(*)	36	21/6	3
14	3	153-127-K	153-128-K	153-129-K	48	39.	9%	6	231/32	2	¥16	19%	%(°)	%	2%	3%
16	3	153-127-L	153-128-L	153-129-L	54	44.	10%	6	231/32	21/2	1/10	21%	%(1)	%	2%	3%
	3	153-127-M	153-128-M	153-129-M	67	57.	12%	6	231/32	21/2	%	24%	%(1)	36	2%	3%
18	31/16	153-127-N	153-128-N	153-129-N	74	65.	12%	7	321/32	21/2	%	24%	5(1)	36	316	3%
	3	153-127-P	153-128-P	153-129-P	74	64.	13%	6	231/32	21/2	%	26%	%(1)	36	2%	3%
20	31/m	153-127-R	153-128-R	153-129-R	81	71.	131/2	7	321/22	21/2	%	26%	56(1)	36	316	3%
24	31/m	153-127-S	153-128-S	153-129-S	98	89.	16%	7	321/22	2%	36	30%	56(2)	56	3%	3%

<sup>(1)</sup> Four bolt holes

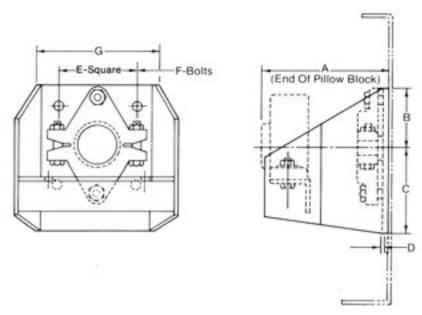


Seal Glands are mounted internally on all trough ends except the outboard bearing type where they are externally mounted. They consist of gray iron split flanges in which packing materials are compressed against machined steel collars. These seals provide maximum protection for or against materials being

	Glands	445-1-5-4								
Shaft Diameter,	Part Numbers	Weight, Each	A	В	C	D	E	F	G	н
Inches	(9)	Pounds				In	ches			
11/2	318-9-A	3	5%	4%	41/16	36	2	1%e	%	2%
2	318-9-B	5	6%	5%	5%	34	2	11%	%	314
21/m	318-9-C	7	7%	6%	61/2	%	2	1%	1	311/4
3	318-9-D	8	8%	7%	7%	%	2	1%	1	4%
3%	318-9-E	15	10%	81/4	8%	34	3	2%	1%	411/10
311/16	318-9-F	15	10%	9	9	%	2%	1%	1%	5%

<sup>(1)</sup>Mounting bolts not included

<sup>(\*)</sup> Six bolt holes
(\*) Series FX-3-U200N for 1%"; Series F3-U200N for 2" and 2%s"; Series F200 for 3" & 3%s"
(\*) Babbitted or bronze bearings.

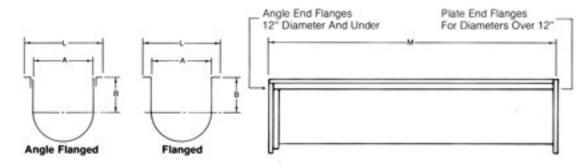


Outboard Bearing Trough End Brackets permit the use of pillow block bearings to accommodate greater thrust, radial loads and special sealing arrangements.

Shaft	Screw		A				0	e e		G
Diameter	Diameter	Roller	Ball	Sleeve	ь			-		
				Inche	bris .					
11%	6-9-10	6	51/ns	614	3	41/2	74	4	1/4	6%
2	9-10-12	7	61/2	71/2	31/2	4%	1/4	5%	%	8
21/16	12-14	7%	7%	8%	4	51/2	%e	5%	%	8%
3	12-14 16-18-20	9	8% 8%	10 10	4½ 4½	6% 6%	% %	6	% %	9% 9%
3%e	20-24	10%s	9%	12%	514	736	%	6%	%	10%

Shaft	Shelf & Sea	Gland Assembly	Only			Shelf & Sea	I Gland Ass	embly with Pillow B	lock(*)		
Diameter, Inches	For Ball or Roller Bearing	For Sleeve Bearing	Weight, Pounds	Ball Bearing	Weight, Pounds	Roller Bearing	Weight, Pounds	Babbitted Bearing	Weight, Pounds	Brz. Bushed Bearing	Weight, Pounds
11/6	154-437-A	154-437-F	11	154-437-L	16	154-437-S	18	154-437-X	15	154-437-AC	15
2	154-437-B	154-437-G	16	154-437-M	24	154-437-T	28	154-437-Y	24	154-437-AD	24
2%e	154-437-C	154-437-H	25	154-437-N	37	154-437-U	42	154-437-Z	39	154-437-AE	39
3	154-437-D	154-437-J	39	154-437-P	58	154-437-V	66	154-437-AA	61	154-437-AF	61
31/s	154-437-E	154-437-K	57	154-437-R	71	154-437-W	101	154-437-AB	90	154-437-AG	90

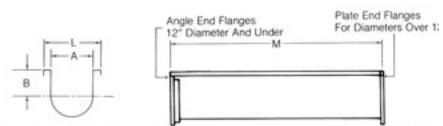
<sup>(</sup>¹)Ball bearing pillow blocks are series P3-U200N thru 2½° bore, and P-200 for 3" & 3½° bore. Roller bearing pillow blocks are series P-B22400H. Sleeve bearing pillow blocks are series 2-1200 for babbitt and 2-1200Z for bronze.



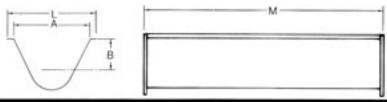
Screw Conveyor U-Troughs are made in two basic types: angle flanged and flanged. Angle flanged troughs consist of steel angles welded lengthwise to the trough plates to form the top flanges. Flanged troughs are made by forming the top flanges integrally with the trough sides from a single steel plate. Steel end flanges are securely welded to each end of the trough plate

in special fixtures to assure square, true connections, They also preserve trough contour and facilitate assembly, Angle end flanges are used on troughs for 4-through 12-inch diameter screws, and plate end flanges on all other sizes, Troughs made of stainless steel, or other kinds of special metals for specific purposes, can be furnished.

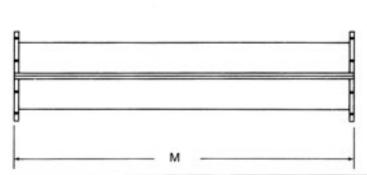
Screw	17 9250-29 11	Part N	umbers		Pounds		В		м
Diameter, Inches	Trough Thickness	Angle Flanged Trough	Flanged Trough	Angle Flanged Trough	Flanged Trough	A .	Inches	L	Fee
	16 ga.	157-73-F	157-63-F	48	39	5	3%	7%	10
4	14 ga.	157-73-G	157-63-G	56	48	5	3%	71%	10
7	12 ga.	157-73-H	157-63-H	71	66	5	3%	714	10
	16 ga.	157-74-G	157-64-G	76	52	7	41/2	9%	10
	14 ga.	157-74-H	157-64-H	86	64	7	41/6	9%	10
6	12 ga.	157-74-J	157-64-J	106	87	7	41/6	9%	10
99	10 ga.	157-74-K	157-64-K	127	110	7	41/2	9%	10
	7'16"	157-74-L	157-64-L	159	145	7	41/2	9%	10
	14 ga.	157-75-K	157-65-K	117	89	10	6%	13%	10
	12 ga.	157-75-L	157-65-L	145	121	10	6%	13%	10
9	10 ga.	157-75-M	157-65-M	174	153	10	61/4	13%	10
	3/16"	157-75-N	157-65-N	219	201	10	616	13%	10
	Х"	157-75-P	157-65-P	281	270	10	6%	131/2	10
	14 ga	157-76-K	157-66-K	123	95	11	6%	14%	10
	12 ga.	157-76-L	157-66-L	153	129	11	6%	14%	10
10	10 ga.	157-76-M	157-66-M	184	164	11	6%	14%	10
	3/se"	157-76-N	157-66-N	232	215	11	6%	14%	10
	X**	157-76-P	157-66-P	299	288	11	6%	14%	10
	12 ga.	157-77-N	157-67-N	232	191	13	7%	17%	12
12	10 ga.	157-77-P	157-67-P	276	241	13	7%	17%	12
	%e"	157-77-R	157-67-R	343	315	13	7%	17%	12
	%"	157-77-S	157-67-S	439	422	13	7%	171/2	12
	12 ga.	157-78-N	157-68-N	254	214	15	9%	19¼	12
14	10 ga.	157-78-P	157-68-P	307	272	15	9%	19%	12
	%e**	157-78-R	157-68-R	385	358	15	914	19%	12
	14"	157-78-S	157-68-S	498	482	15	914	19%	12
	12 ga.	157-79-N	157-69-N	281	241	17	10%	21%	12
16	10 ga.	157-79-P	157-69-P	341	306	17	10%	21%	12
200	3/16. <sup>10</sup>	157-79-R	157-69-R	430	403	17	10%	21%	12
	Х"	157-79-S	157-69-S	559	543	17	10%	21½	12
	12 ga.	157-80-N	157-70-N	354	279	19	12%	24%	12
18	10 ga.	157-80-P	157-70-P	421	352	19	12%	24%	12
- 2	3/1e"	157-80-R	157-70-R	522	463	19	12%	24%	12
	¼"	157-80-S	157-70-S	667	622	19	12%	24%	12
00	10 ga.	157-81-P	157-71-P	456	387	21	13%	26%	12
20	%s" %"	157-81-R 157-81-S	157-71-R 157-71-S	568 729	509 684	21	13%	26% 26%	12
		157-82-P	157-72-P	529	461	25	16%	30%	12
24	10 ga. %"	157-82-P	157-72-P	664	605	25		30%	
24	716 ¼"	157-82-R 157-82-S	157-72-R 157-72-S	858	813	25	16½ 16½	30%	12

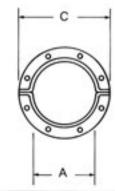


Screw Diameter.	Trough	Part	Weight	A	8	L	м
Inches	Thickness	Number	Pounds		Inches		Feet
	16 ga.	157-174-A	55	7	416	10%	10
6	14 ga.	157-174-C	68	7	436	10%	10
0	12 ga.	157-174-J	93	7	436	10%	10
	10 ga.	157-174-L	118	7	41/2	10%	10
	14 ga.	157-175-A	95	10	6%	13%	10
9	12 ga.	157-175-E	130	10	6%	13%	10
	10 ga.	157-175-G	164	10	6%	13%	10
12	12 ga.	157-176-B	200	13	7%	17%	12
12	10 ga.	157-176-D	251	13	7%	17%	12
14	12 ga.	157-177-B	223	15	9%	19%	12
14	10 ga.	157-177-D	281	15	9%	19%	12
16	12 ga.	157-178-B	250	17	10%	21%	12
10	10 ga.	157-178-D	316	17	10%	21%	12
18	10 ga.	157-179-B	358	19	12%	24%	12
20	10 ga.	157-180-B	391	21	131/2	26%	12
24	10 ga.	157-181-B	463	25	16%	30%	12



Screw Diameter,	Trough	Part	Weight	A	0	D	L	м
Inches	Thickness	Number	Pounds		Inc	hes		Feet
6	14 ga. 12 ga.	157-87-C 157-87-D	81 111	14 14	7 7	3½ 3½	16% 16%	10
. 9	12 ga. 10 ga.	157-88-C 157-88-D	148 188	18 18	9	5 5	21% 21%	10 10
12	12 ga.	157-89-G	215	22	10	6½	26¼	12
	10 ga.	157-89-H	273	22	10	6½	26¼	12
	%e"	157-89-J	360	22	10	6½	26%	12
14	12 ga. 10 ga. %"	157-90-G 157-90-H 157-90-J	238 302 398	24 24 24	11 11 11	7½ 7½ 7½ 7½	28¼ 28¼ 28%	12 12 12
16	10 ga.	157-91-G	310	28	11	8½	32¼	12
	%"	157-91-H	436	28	11½	8½	32%	12
	'4"	157-91-J	587	28	11	8½	32½	12
18	10 ga.	157-149-G	369	31	12%	9%	36%	12
	%e"	157-149-H	486	31	12%	9%	36%	12
	%"	157-149-J	653	31	12%	9%	36%	12
20	10 ga.	157-150-G	405	34	13%	10%	39%	12
	%e"	157-150-H	533	34	13%	10%	39%	12
	%"	157-150-J	717	34	13%	10%	39%	12
24	10 ga.	157-151-G	481	40	16½	12½	45%	12
	%a″	157-151-H	633	40	16½	12½	45%	12
	¼″	157-151-J	851	40	16%	12½	45%	12

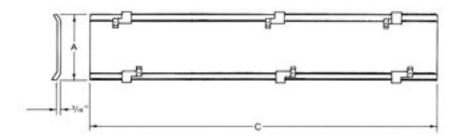




Trough	Trough		Part Numbers	•		Dimensio	ns	Weight,
Diameter	Thk.	Carbon Steel	304SST	316SST	Α	М	С	Pounds
6	14 ga. 12 ga. 10 ga.	A B C	AA AB AC	BA BB BC	7	120	10	75 105 135
9	14 ga. 12 ga. 10 ga. <sup>3</sup> / <sub>16</sub>	D E F G	AD AE AF AG	BD BE BF BG	10	120	13¾	105 145 185 245
12	12 ga 10 ga. <sup>3</sup> / <sub>16</sub>	H J K	AH AJ AK	BH BJ BK	13	144	171/2	235 300 395
14	10 ga. 3/16	L M	AL AM	BL BM	15	144	191/2	265 445
- 16	10 ga. 3/16	N P	AN AP	BN BP	17	144	211/2	370 490
18	3/16 1/4	R S	AR AS	BR BS	19	144	241/2	565 745
20	3/16 1/4	T U	AT AU	BT BU	21	144	261/2	610 805
24	3/16 1/4	v w	AV AW	BV BW	25	144	301/2	710 940

<sup>\*</sup>Complete Part Number by Adding Prefix 157-243-. Example:157-243-AD

Link-Belt®



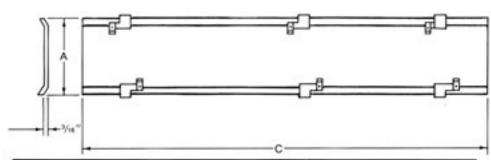
Screw Conveyor Trough Covers are used for the protection of operating personnel, dust control or protection for or against the material being handled. Covers for U and flared troughs are made in semi-flanged, flanged or hip roof types.

Screw Diameter	Trough	Cover	Part Number	Weight,	Α	C
Inches	Thickness	Thickness		Pounds	Inc	hes
4	%" & under	16 ga.	188-37-AK	19	814	120
6	¼"& under	16 ga.	188-37-AL	24	10%	120
9	%"& under	14 ga.	188-37-AM	41	14%	120
10	%"& under	14 ga.	188-37-AN	44	15%	120
12	¼"& under	14 ga.	188-37-BG	62	18%	144
14	¼"& under	14 ga.	188-37-BJ	68	20%	144
16	%"& under	14 ga.	188-37-BL	75	22%	144
18	%"& under	12 ga.	188-37-BN	113	25%	144
20	%"& under	12 ga.	188-37-BR	122	27%	144
24	%"& under	12 ga.	188-37-BT	139	31%	144

Covers for other trough lengths and thicknesses are available.

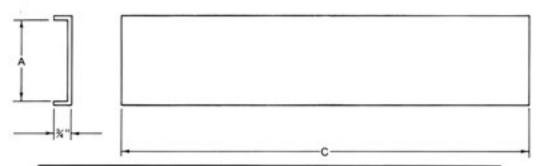


Screw Diameter	Trough	Cover	Part	Weight,	A	C
Inches	Thickness	Thickness	Number	Pounds	Incl	hes
4	%"& under	16 ga.	188-27-41	20	8	120
6	¼"& under	16 ga.	188-27-42	22	10%	120
9	%"& under	16 ga.	188-27-43	32	14	120
10	%"& under	16 ga.	188-27-44	34	15	120
12	¼"& under	14 ga.	188-27-65	63	18	144
14	%"& under	14 ga.	188-27-66	70	20	144
16	%"& under	14 ga.	188-27-67	76	22	144
18	¾"& under	14 ga.	188-27-68	86	25	144
20	%"& under	14 ga.	188-27-69	92	27	144
24	%"& under	14 ga.	188-27-70	105	31	144

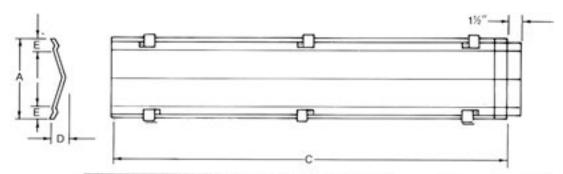


Screw Diameter,	Trough Thickness	Cover	Part Number	Weight.	A	С
Inches	Inickness	Trackness	20,000,000,000	Pounds	Inc	hes
6	%"& under	16 ga.	188-67-CA	39	17%	120
9	%"& under	14 ga.	188-67-CE	62	22%	120
12	¼"& under	14 ga.	188-67-CL	91	27%	144
14	¼"& under	14 ga.	188-67-CT	98	29%	144
16	¼"& under	14 ga.	188-67-CZ	111	331/2	144
18	¼"& under	12 ga.	188-67-DF	166	371/2	144
20	¼"& under	12 ga.	188-67-DM	179	401/2	144
24	¼"& under	12 ga.	188-67-DU	205	46%	144

Covers for other trough lengths and thicknesses are available

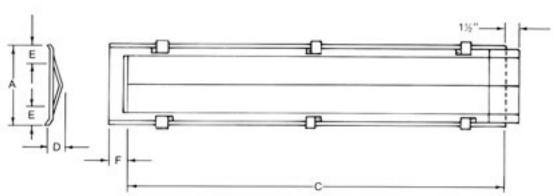


Screw Diameter,	Trough Thickness	Cover Thickness	Part Number	Weight, Pounds	A	С
Inches					Inc	
6	%" & under	16 ga.	188-77-B	38	16%	120
9	%" & under	- 16 ga.	188-77-D	48	21%	120
12	%" & under	14 ga.	188-77-G	91	26%	144
14	%" & under	14 ga.	188-77-K	98	28%	144
16	%" & under	14 ga.	188-77-N	111	32%	144
18	%" & under	14 ga.	188-77-S	124	36%	144
20	%" & under	14 ga.	188-77-V	134	39%	144
24	%" & under	14 ga.	188-77-Y	153	45%	144

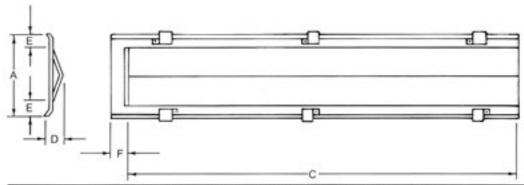


Screw Diameter,	Trough Thickness	Cover	Part Number	Weight.	A	C	D	E
Inches	IIIICANICIS	THICKNESS	reumper	Pounds		Inc	thes	
6	¼"& under	16 ga.	188-64-AN	24	10%	120	17/16	17/16
9	%"& under	16 ga.	188-64-AP	33	14%	120	2%	11%
10	%"& under	16 ga.	188-64-AR	36	15%	120	21/10	1%
12	%"& under	14 ga.	188-64-AS	62	1814	144	211/16	2%
14	%"& under	14 ga.	188-64-AT	68	20%	144	2%	21/16
16	%"& under	14 ga.	188-64-AU	75	2214	144	31/m	21/16
18	%"& under	14 ga.	188-64-AV	84	2514	144	31/4	211/4
20	¼"& under	14 ga.	188-64-AW	90	2714	144	31/16	211/4
24	¼"& under	14 ga.	188-64-AX	103	31%	144	31/16	211/4

Covers for other trough lengths and thicknesses are available.

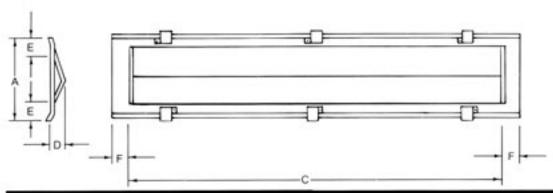


Screw Diameter,	Trough Thickness	Cover Thickness	Part Number	Weight, Pounds	A	С	D	E	F
Inches	Timperioss	THOMPSO	recitors	Pounds			Inches		
6	%"& under	16 ga.	188-64-AY	26	10%	120	17/16	11/16	1%
9	%"& under	16 ga.	188-64-AZ	35	14%	120	2%	11%	1%
10	%" & under	16 ga.	188-64-BA	37	151/2	120	21/16	1%	1%
12	¼"& under	14 ga.	188-64-BB	64	18%	144	211/4	2%	2
14	%"& under	14 ga.	188-64-BC	71	201/4	144	2%	2%	2
16	14" & under	14 ga.	188-64-BD	77	221/4	144	31/s	21/14	21/2
18	%"& under	14 ga.	188-64-BE	87	25%	144	31/m	211/16	21/2
20	%"& under	14 ga.	188-64-BF	93	27¼	144	31/46	211/16	21/2
24	%"& under	14 ga.	188-64-BG	106	31¼	144	31/4	211/4	2%

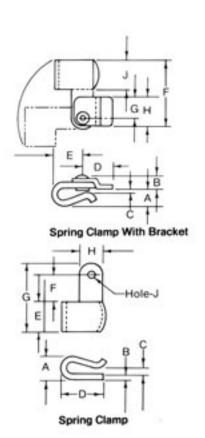


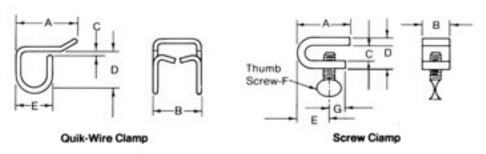
Screw Diameter,	Trough	Cover	Part	Weight,	A	c	D	E	F
Inches	Thickness	Thickness	Number	Pounds			Inches		
6	14" & under	16 ga.	188-64-BH	25	10%	120	17/16	1%	136
9	%"& under	16 ga.	188-64-BJ	34	14½	120	2%	1 %e	15
10	%"& under	16 ga.	188-64-BK	36	15½	120	21/14	119/16	13/
12	%"& under	14 ga.	188-64-BL	63	18%	144	211/4	21/16	2
14	%"& under	14 ga.	188-64-BM	69	20%	144	2%	21/16	2
16	%"& under	14 ga.	188-64-BN	76	22%	144	31/16	21/16	25
18	%"& under	14 ga.	188-64-BP	85	25%	144	31/m	211/16	2%
20	%"& under	14 ga.	188-64-BR	91	27%	144	31/4	211/16	23
24	%"& under	14 ga.	188-64-BS	104	31%	144	31/4	211/16	2)

Covers for other trough lengths and thicknesses are available.



Screw Diameter	Trough	Cover	Part	Weight,	A	C	D	E	F
Inches	Thickness	Thickness	Number	Pounds			Inches		
6	%"& under	16 ga.	188-64-BT	26	10%	120	11/4	1%	139
9	%" & under	16 ga.	188-64-BU	36	14½	120	2%	119/10	1%
10	%"& under	16 ga.	188-64-BV	38	15½	120	21/4	1%	136
12	%"& under	14 ga.	188-64-BW	65	18¼	144	211/16	21/10	2
14	%"& under	14 ga.	188-64-BX	72	20%	144	2%	2%	2
16	%"& under	14 ga.	188-64-BY	78	22%	144	31/16	2%	21/
18	%"& under	14 ga.	188-64-BZ	88	25%	144	31/16	211/16	21/2
20	%"& under	14 ga.	188-64-CA	95	27%	144	31/16	211/16	21/2
24	¼"& under	14 ga.	188-64-CB	108	31%	144	31/10	2*1/16	21/2





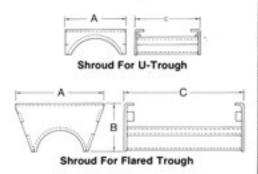
Clamps for attaching covers to screw conveyor troughs are available in spring, Quik-Wire and screw types. Quick-acting clamps are primarily used for drop bottom screw conveyor troughs. Spring clamps with brackets are attached to the top side of semi-flanged covers. Plain spring clamps are used for service doors, inspection doors or removable covers and panels. Quik-Wire clamps and screw clamps are normally used for attaching flanged covers to screw conveyor troughs, but can also be used for attaching plain and semi-flanged covers.

Clamps					-						
Type of	Part	Weight,	A	В	C	D	E	F	G	н	J
Clamp	Number	Pounds		•	•	- 1	nches	-			•
Spring clamp	368-16-1 368-18-1	.20 .40	1 %	.134 %s	% %	1% 2	1% 1%	1% 1%	219/16 33/16	% 1%	17/10
Spring clamp with bracket	368-15-A 368-15-B(1) 368-15-C(2)	.31 .31 .31	11/16 11/16 11/16	% % %	716 716 716	1% 1% 1%	1%s 1%s 1%s	2% 2% 2%	% % %	1¼ 1¼ 1¼	1% 1% 1%
Screw clamp	368-35-A 368-35-B	.42 .48	2¼ 2¼	1	%s 1%s	1%s 1%s	1% 1%	% %	%s %	=	_

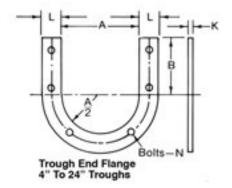
(1)Galvanized clamp with 304 stainless steel bracket

(2)Zinc plated

Shrouds are used in trough sections of screw feeders to decrease the clearance between the cover and feeder screw to obtain proper feed regulation. Lengths are sufficient to prevent flushing of the majority of materials being handled and gauges are proportioned to trough size and gauge. Stainless steel shrouds can be furnished.

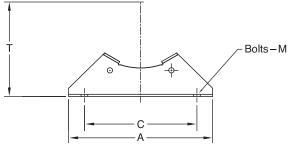


Shrou	ids									
Screw	Shroud		art nber	Weig		A	Elect 1	B		C
Diameter, Inches	Thickness		7.7			U-Trough	Flared	U-Trough	Flared	
		U-Trough	Flared	-	Flared	-		Inches		
4	7 ga.	157-131-A	-	5	-	5	-	214	-	8
3,875	12 ga.	157-131-B	-	4	-	5	-	21/4	-	8
6	7 ga.	157-132-A	157-141-A	11	16	7	13%	211/16	6%	14
	12 ga.	157-132-B	157-141-B	7	13	7	13%	211/16	6%	14
9	7 ga.	157-133-A	157-142-A	17	28	10	17%	311/16	8%	18
9	12 ga.	157-133-B	157-142-B	13	23	10	17%	311/16	8%	18
10	7 ga.	157-134-A	_	19	_	11	_	3%	-	20
10	12 ga.	157-134-B	_	14	-	11	-	311/16	-	20
12	7 ga.	157-135-A	157-143-A	28	41	13	21%	4%	9%	24
12	12 ga.	157-135-B	157-143-B	20	32	13	21%	4%	91/2	24
14	7 ga.	157-136-A	157-144-A	37	54	15	23%	5%	10%	28
	12 ga.	157-136-B	157-144-B	30	42	15	23%	5%	10%	28
16	7 ga.	157-137-A	157-145-A	47	68	17	27%	611/16	11%	32
10	12 ga.	157-137-B	157-145-B	35	52	17	27%	6%	11%	32
18	7 ga.	157-138-A	157-146-A	60	82	19	30%	7%	11%	36
10	12 ga.	157-138-B	157-146-B	45	63	19	30%	7%	11%	36
20	7 ga.	157-139-A	157-147-A	71	100	21	33%	811/16	13%	40
24	7 ga.	157-140-A	157-148-A	100	142	25	39%	10%	15%	48

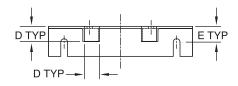


Trough End Flanges are made of steel plates, formed and punched to assure accurate, closely-fitted trough connections and complete interchangeability.

Troug	h End	l Flar	nges (	Dime	nsior	ns)			Trough	n End F	anges (	Part Nu	mbers	& Weigh	nts)
	,	Ą		В			L				End F	lange			
Screw	Thru	3/16"	Angle	Flanged	Trough		3/ <sub>16</sub> "	N			Part Nu	mber (1)			Weight
Diameter Inches	10 Ga.	and ¼"	Flanged Trough		3/16" and	10 Ga.	and ¼"		Angle	ed Flanged T	rough	FI	langed Troug	gh	Pounds
Inches	Trough	Trough	Thru ¾"		1/4"	Trough	Trough		Thru 10 Ga.	_ <sup>3</sup> / <sub>16</sub> "	_ 1/4"	Thru 10 Ga.	_ ³/ <sub>16</sub> "	_ 1/4"	
				Inches					Trough	Trough	Trough	Trough	Trough	Trough	
4	51/4	_	35%	_	_	11/4	n/a	3/ <sub>8</sub> (3)	278-19-1	278-19-4	n/a	278-19-7	278-19-10	n/a	1
6	71/4	7%	41/2	_	_	11/4	11/4	3/ <sub>8</sub> (3)	278-19-13	278-19-16	278-19-19	278-19-22	278-19-25	278-19-28	3
9	101/4	10½	61/8	_	_	<b>1</b> ¾	11/2	3/ <sub>8</sub> (4)	278-19-31	278-19-34	278-19-34	278-19-40	278-19-43	278-19-43	5
10	111/4	1111/2	6%	_	_	<b>1</b> ¾	11/2	3/ <sub>8</sub> (4)	278-19-U	278-19-X	278-19-X	278-19-BG	278-19-BK	278-19-BK	6
12	13¼	13½	7¾	_	_	2	2	1/2(4)	278-19-AD	278-19-AG	278-19-AG	278-19-BR	278-19-BU	278-19-BU	10
14	151/4	15½	91/4	91/8	9	2	2	1/2(4)	278-10-1	278-10-2	278-10-2	278-10-4	278-10-5	278-10-5	6.4
16	171/4	17½	10%	10½	10/8	2	2	5/ <sub>8</sub> (4)	278-11-1	278-11-2	278-11-2	278-11-4	278-11-5	278-11-5	7.1
18	191/4	19½	121/8	12	<b>11</b> %	21/2	21/2	5/8 <b>(</b> 5 <b>)</b>	1278-12-1	278-12-2	278-12-2	278-12-4	278-12-5	278-12-5	10
20	211/4	21½	13½	13%	13/4	21/2	21/2	5/8 <b>(</b> 5 <b>)</b>	278-13-1	278-13-2	278-13-2	278-13-4	278-13-5	278-13-5	11
24	251/4	25½	16½	16%	161/4	21/2	21/2	5/8(6)	278-15-1	278-15-2	278-15-2	278-15-4	278-15-5	278-15-5	13







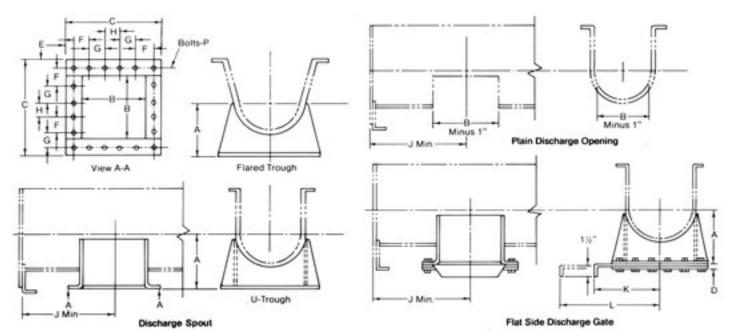
Support Foot / Saddle

Supporting Feet are of formed steel for use with end flanges and provide a convenient means of aligning and supporting conveyors from floors, and supporting structures.

Suppo	ort Foot / Sa	ddle									
Trough	Trough	Part Number	Weight				Dime	nsions			
Diameter	Thickness	C STL	Pounds	Α	С	D	E	Т	U	Plate Thickness	М
4	16 GA - 7 GA	166-14-1	1	7%	5¾	1	7/8	45/8	11/2	3/16	3/8
6	16 GA - 0.25	166-14-5	<b>1</b> ½	10	81/8	1	13/16	5%	11/2	3/16	3/8
9	16 GA - 0.25	166-14-9	3	12	9%	<b>1</b> 1/4	<b>1</b> 5/ <sub>16</sub>	<b>7</b> %	2½	3/16	1/2
9	0.31 - 0.38	166-14-13	3	12	9%	<b>1</b> 1/4	<b>1</b> 5/ <sub>16</sub>	<b>7</b> %	2½	3/16	1/2
10	16 GA - 0.25	166-14-17	31/2	12%	9½	<b>1</b> 1/ <sub>4</sub>	<b>1</b> %16	8%	2½	3/16	1/2
10	0.31 - 0.38	166-14-21	31/2	12%	9½	<b>1</b> 1/ <sub>4</sub>	<b>1</b> %16	8%	2½	3/16	1/2
12	16 GA - 0.25	166-14-25	41/2	15	121/4	<b>1</b> 1/ <sub>4</sub>	1%	9%	2½	3/16	5/8
12	0.31 - 0.38	166-14-29	41/2	15	121/4	<b>1</b> 1/ <sub>4</sub>	1%	9%	2½	3/16	5/8
14	16 GA - 0.25	166-14-33	6	16½	13½	<b>1</b> ½	1%	10%	2½	1/4	5/8
14	0.31 - 0.38	166-14-37	6	16½	13½	<b>1</b> ½	1%	10%	2½	1/4	5/8
16	16 GA - 0.25	166-14-41	<b>7</b> ½	18	14%	<b>1</b> ½	<b>1</b> ¾	12	3	1/4	5/8
16	0.31 - 0.38	166-14-45	<b>7</b> ½	18	14%	<b>1</b> ½	<b>1</b> ¾	12	3	1/4	5/8
18	16 GA - 0.25	166-14-49	8	191/8	16	<b>1</b> ½	<b>1</b> ¾	13%	3	1/4	5/8
18	0.31 - 0.38	166-14-53	8	191/8	16	<b>1</b> ½	<b>1</b> ¾	13%	3	1/4	5/8
20	16 GA - 0.25	166-14-57	12	22¾	19¼	2	2	15	3½	1/4	3/4
20	0.31 - 0.38	166-14-61	12	22¾	19¼	2	2	13	3½	1/4	3/4
24	16 GA - 0.25	166-14-65	14	24	20	2	21/4	18%	4	1/4	3/4
24	0.31 - 0.38	166-14-69	14	24	20	2	21/4	18%	4	1/4	3/4

- (1) Bolts are not included. Support Foot / Saddle include clips for welding to trough.
- (2) Supporting feet are regularly furnished. Only one supporting foot per trough section is normally required.
- (3) Six bolt holes (4) Eight bolt holes
- (5) Ten bolt holes (6) Twelve bolt holes



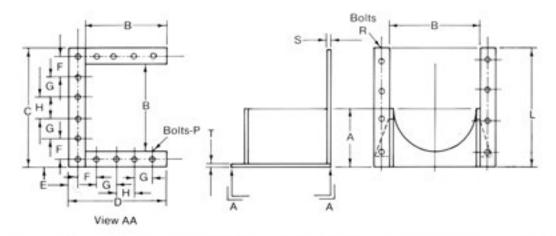


Discharge Spouts and Gates provide the means for discharging materials from the conveyor trough and for connection to succeeding equipment to which material is delivered. Gates provide for selective control of multiple spouts. When ordered separately, spouts or gates will be furnished loose. When ordered as parts of complete conveyors with locations determined, they will be furnished in place. Stainless steel discharge spouts and flat slide discharge gates can be furnished.

Screw Diameter	A	8	c	D		F	G	н	With Foot	W/O Foot	к	L	P
					6 2		Inche	ris .					
4	3%	5	71/2	1/10	%	21/4	-	214	6	4	5%	11	34(°)
6	5	7	10	1/16	11/16	211/16	-	3	71/2	6	6%	14	36(1)
9	7%	10	13	1/16	1/2	4	-	4	10	8	8	19	36C
10	7%	11	14%	%	%	4%	-	4%	11	9½	8%	20	3601
12	8%	13	17%	1/16	36	5%	-	514	12%	10%	10%	24	36(1)
14	10%	15	19%	%	%	31/2	31/2	31/2	131/2	111/2	11%	27	36(2
16	1136	17	21%	%	36	3%	4	4	14%	13%	12%	30	36(2
18	12%	19	24%	5/10	136	41/m	4%	4%	16%	14%	13%	33	1/42
20	13%	21	26%	36	136	4%	4%	4%	171/2	151/2	14%	36	36(2
24	15%	25	30%	%	1%	5%	5%	51/2	20	171/2	16%	42	36(2

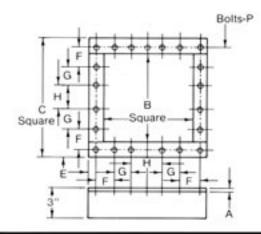
(1)12 bolt holes (2)20 bolt holes

		Spout		Dischary	ge Spouts		Hand Slide	Gate
Screw Diameter	Trough	and	U-Troug	ph	Flared Tro	ugh	Only	
Inches	Thickness	gate Thickness	Part Number	Weight, Pounds	Part Number	Weight, Pounds	Part Number	Weight Pounds
4	16 and 14 ga. 12, ga.	14 ga. 12 ga.	164-13-A 164-13-B	3	=	=	180-43-CA 180-43-CA	
6	16, 14, 12 & 10 ga.	14 ga. 12 ga.	164-13-C 164-13-D	2 4	164-17-A 164-17-A	2 2	180-43-CD 180-43-CD	
9	14, 12 & 10 ga. %" & %"	14 ga. 10 ga.	164-13-E 164-13-F	6 10	164-17-D 164-17-D	6	180-43-CG 180-43-CG	
10	14, 12 & 10 ga. *** 8 %"	14 ga. 10 ga.	164-13-G 164-13-H	8 14	Ξ	Ξ	180-43-CK 180-43-CK	11
12	12 & 10 ga. 12 % 10 ga.	12 ga. ∜₀"	164-13-J 164-13-K	12 21	164-17-G 164-17-K	12 21	180-43-CN 180-43-CN	
14	12 & 10 ga. %" & %"	12 ga. ∜s"	164-13-L 164-13-M	16 28	164-17-N 164-17-S	16 28	180-43-CS 180-43-CS	24 24
16	12 & 10 ga. %" & ½"	12 ga. %"	164-13-N 164-13-P	19 34	164-17-V 164-17-Y	19 34	180-43-CV 180-43-CV	28 28
18	12 & 10 ga. %" & ¼"	12 ga. %"	164-13-Q 164-13-R	24 43	164-17-AB 164-17-AE	24 43	180-43-CY 180-43-CY	37 37
20	10 ga. %" & ½"	12 ga. %"	164-13-S 164-13-T	28 51	164-17-AH 164-17-AL	28 51	180-43-DC 180-43-DC	41 41
24	10 ga. %" & ¼"	12 ga.	164-13-U 164-13-V	37 67	164-17-AP 164-17-AT	37 67	180-43-DF 180-43-DF	64 64



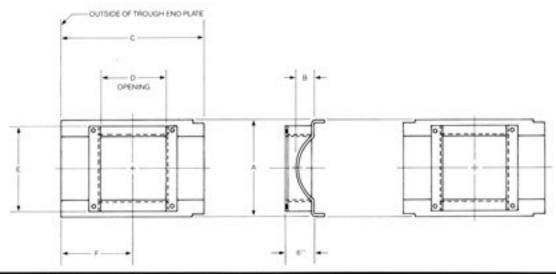
- tusii	End Discharg																
Screw		Part N	lumber		A				E	F	G	н		P	R	s	
Diameter Inches	Trough Thickness	Flanged Trough	Angle Flanged Trough	Weight Pounds		В	С	D		Inches		-		-	"	9	Γ,
4	16 & 14 ga. 12 ga.	164-22-A 164-22-B	164-24-A 164-24-B	2 3	3% 3%	5% 5%		6% 6%	%	2% 2%	=	2¼ 2¼	7% 7%	N(2) N(2)	%(1) %(1)	% %	14 g
6	16, 14, 12, & 10 ga. %a**	164-22-D 164-22-E	164-24-D 164-24-E	2 4	5	7% 7%		8% 8%	11/m 11/m	2% 2%	Ξ	3	9% 9%	%(2) %(2)	%(1) %(1)	У <sub>16</sub> У <sub>16</sub>	14 gr 12 gr
9	14, 12 & 10 ga. % " & %"	164-22-G 164-22-H	164-24-G 164-24-H	7	7% 7%	10%		11%	% %	4	_	4	13% 13%	$\frac{3(2)}{3(2)}$	$\frac{7i}{7i}(^2)$ $\frac{7i}{7i}(^2)$	%a ∀a	14 g 10 g
10	14, 12 & 10 ga. %" & %"	164-22-J 164-22-K	164-24-J 164-24-K	9	7% 7%	11% 11%	14% 14%	12% 12%	%	4% 4%	=	4% 4%	14% 14%	$\frac{\%(^2)}{\%(^2)}$	$\frac{7i}{7i}(^2)$ $\frac{7i}{7i}(^2)$	У <sub>16</sub> У <sub>16</sub>	12 9
12	12 & 10 ga. % " & %"	164-22-L 164-22-M	164-24-L 164-24-M	14 20	8% 8%		17% 17%	15% 15%	% %	5% 5%	Ξ	5% 5%	16% 16%	%(2) %(2)	1/2(2) 1/2(2)	X	12 g
14	12 & 10 ga. %" & %"	164-22-N 164-22-P	164-24-N 164-24-P	17 26	10%		19% 19%	17% 17%	% %	3½ 3½	3% 3%	3% 3%	19% 19%	36(5) 36(5)	$\frac{\%(^2)}{\%(^2)}$	X	12 g
16	12 & 10 ga. %" & %"	164-22-R 164-22-S	164-24-R 164-24-S	20 32	11% 11%		21% 21%	19% 19%	% %	3% 3%	4	4	21% 21%	%(*) %(*)	$\frac{5(2)}{5(2)}$	X	12 g
18	12 & 10 ga. %" & %"	164-22-T 164-22-U	164-24-T 164-24-U	27 41	12% 12%		24% 24%	21% 21%	1% 1%	41/m 41/m	4% 4%	4% 4%	24% 24%	36(5) 36(5)	$\frac{\%(^3)}{\%(^3)}$	×	12 g
20	10 ga. %="& %"	164-22-V 164-22-W	164-24-V 164-24-W	30 48	13% 13%	21% 21%	26¼ 26¼	23% 23%	136 136	4% 4%	4% 4%	4% 4%	26% 26%	1/4( <sup>5</sup> ) 1/4( <sup>5</sup> )	%(°) %(°)	X X	12 gr %*
24	10 ga. %" & %"	164-22-X 164-22-Y	164-24-X 164-24-Y	39 61	15% 15%	25% 25%		27% 27%	1% 1%	5% 5%	5% 5%	5% 5%	31% 31%	1/4( <sup>5</sup> ) 1/4( <sup>5</sup> )	%(*) %(*)	% %	12 ga

Link-Belt®



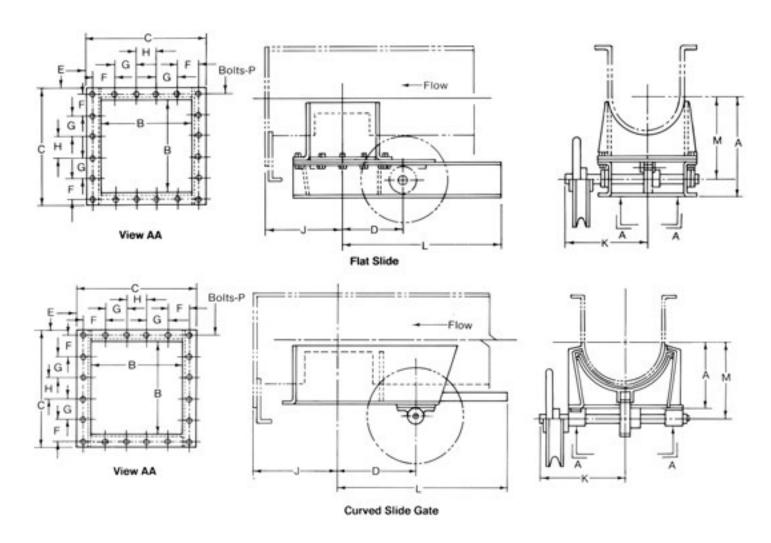
Inlet Spout	ts										
Screw Diameter,	Part Number Carbon	Weight Pounds	Flange Thickness	В	С	E	F	G	Н	Р	
Inches	Inches		A	100	23 12:30		Inches		25 2333	26 040	
4	164-23-A	3.0	12 ga.	5	71/2	3%	21/4	-	2%	%(°)	
6	164-23-D	4.2	12 ga.	. 7	10	11/16	213/14	-	3	36(1)	
9	164-23-G	7.8	10 ga.	10	13	36	4	_	4	%(1)	
10	164-23-K	8.6	10 ga.	11	14%	%	49/16	-	4%	3(1)	
12	164-23-N	11	10 ga.	13	17%	36	51%	-	5%	%(1)	
14	164-23-S	13	10 ga.	15	1914	36	3%	3%	31/2	%(2)	
16	164-23-V	14	10 ga.	17	211/4	76	3%	4	4	- ¾(²)	
18	164-23-Z	20	10 ga.	19	241/4	1%	41/16	4%	4%	3(2)	
20	164-23-AC	22	10 ga.	21	261/4	1%	4%	4%	4%	36(2)	
24	164-23-AF	23	10 ga.	25	30%	1%	5%	5%	5%	7/ <sub>2</sub> (2)	

(1)12 bolts (2)20 bolts



Shaft	Cover & Spout Thickness	Part N	lumber				Dimensions	, Inches				Mounting.
diameter, inches		End Inlet	Intermediate Inlet	Wt., Lbs.	A	8	С	D	E	F	Qty.	Dia.
4	12 ga.	164-33-A	164-32-A	8	814	19/14	15	- 5	71/2	7%	4	%
6	12 ga.	164-33-B	164-32-B	13	10%	136	18	7	10	9	4	%
9	10 ga.	164-33-C	164-32-C	24	14%	113/16	23%	10	13	11%	6	%
10	10 ga.	164-33-D	164-32-D	27	15%	1%	251/2	11	14%	12%	6	%
12	10 ga.	164-33-E	164-32-E	34	18%	21/16	29	13	17%	14%	6	. %
14	10 ga.	164-33-F	164-32-F	39	20%	214	31	15	19%	15%	6	- %
16	10 ga.	164-33-G	164-32-G	44	22%	2%	34	17	21%	17	8	- %
18	10 ga.	164-33-H	164-32-H	54	25%	213/16	38	19	24%	19	8	36
20	10 ga.	164-33-J	164-32-J	59	271/4	2%	40	21	26%	20	8	. 16
24	10 ga.	164-33-K	164-32-K	69	31%	3%16	45	25	30%	22%	8	36

- (1) Stainless steel inlet spouts, can be furnished. (2) Mounting bolts not included



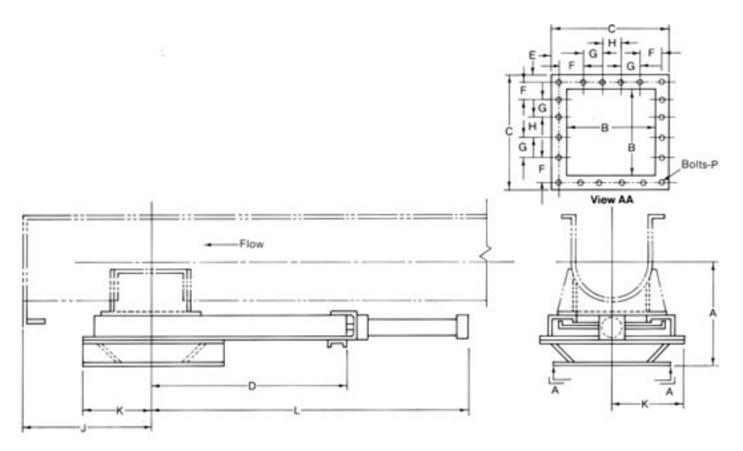
Rack and Pinion Discharge Gates have cut-tooth racks welded to the slide plates and are actuated by cut-tooth pinions mounted on pinion shafts

operated by hand wheels or chain wheels. Stainless steel rack and pinions can be furnished.

Screw Diameter,	- A					D			9.5	1	J		Flat Slide Gate			Curved Slide Gate				
	Flat Slide	Curved Slide		c	Flat Slide	Curved Slide	ε	F	G	н	With Feet	Less Feet	К	L	м	к	Open	Remove	м	P
										Inches							-			
4	7	3%	5	71/2	4%	6%	%	214	-	21/4	6	4	5%	11%	5%	6%	12	18½	4%	340
6	8%	5	7	10	5%	71/2	11/16	2%	-	3	71/2	6	6%	14%	6%	8	1514	22%	5%	360
9	10%	7%	10	13	7	9%	1/2	4	-	4	10	8	9%	19%	8%	10	20%	29%	8%	360
10	11%	7%	11	14%	8%	10	%	4%e	-	4%	11	91/2	10	21%	9%	10%	22	31%	9	36(1)
12	12%	8%	13	17%	9%	111/2	%	5%	-	514	121/2	10%	12%	251/2	10%	12	251/2	37	10	36(1)
14	13%	10%	15	19%	10%	12%	%	31/2	31/2	31/2	131/2	11%	13%	28%	12%	13%	29	42	11%	36(2)
16	14%	11%	17	21%	111/2	131/2	%	3%	4	4	141/2	131/2	14%	30%	13%	14%	32	45	12%	36(2)
18(3)	15%	12%	19	24%	12%	15	1%	41/se	4%	4%	16%	14%	15%	33%	14%	15%	35%	49%	10%	36(*)
20(3)	16%	13%	21	26%	13%	16	1%	4%	4%	4%	17½	151/2	16%	36%	15%	16%	38%	54	11%	59(2)
24(3)	18%	15%	25	30%	16%	18	1%	5%	5%	5%	20	17%	18%	43%	17%	18%	44%	63	13%	36(2)

- (1) 12 bolt holes (2) 20 bolt holes
- (3) Uses two rack and pinion

	Trough Thickness	3	N/			Discharg	e Gates					
Screw		Flange		Flat S	lide		Curved Slide					
inches		Thickness (Maximum)	With Hand V	Wheel	With Chain	Wheel	With Hand \	Wheel	With Chain	Wheel		
110,144		Unaconding	Part Number	Weight, Pounds	Part Number	Weight, Pounds	Part Number	Weight, Pounds	Part Number	Weight Pound		
4	16 & 14 ga. 12 ga.	12 ga. 12 ga.	180-139-B 180-139-C	19 20		1	180-159-B 180-159-D	18 20		-		
6	16, 14, 12 & 10 ga. %"	12 ga. 12 ga.	180-140-B 180-140-C	25 27	-	-	180-160-B 180-160-D	22 25	-	-		
9	14, 12 & 10 ga.	10 ga.	180-141-B	43	180-141-C	48	180-161-B	39	180-161-C	48		
	%a" & ¼"	10 ga.	180-141-D	47	180-141-E	52	180-161-D	47	180-161-E	55		
10	14, 12 & 10 ga.	10 ga.	180-142-B	51	180-142-C	56	180-162-B	45	180-162-C	53		
	%,," & ¼"	10 ga.	180-142-D	57	180-142-E	62	180-162-D	54	180-162-E	62		
12	12 and 10 ga.	3/16"	180-143-B	84	180-143-C	92	180-163-B	69	180-163-C	78		
	∜₁₀" & ¼"	3/16"	180-143-D	93	180-143-E	101	180-163-D	85	180-163-E	94		
14	12 and 10 ga.	∜na"	180-144-B	95	180-144-C	103	180-164-B	81	180-164-C	90		
	%e" & %"	3/na"	180-144-D	108	180-144-E	116	180-164-D	100	180-164-E	109		
16	12 and 10 ga.	3/16"	180-145-B	100	180-145-C	109	180-165-B	88	180-165-C	97		
	3/16" & 1/4"	3/16"	180-145-D	115	180-145-E	124	180-165-D	111	180-165-E	120		
18	12 and 10 ga.	3/16"	180-146-B	138	180-146-C	147	180-166-B	128	180-166-C	137		
	%e" & ¼"	3/16"	180-146-D	158	180-146-E	167	180-166-D	158	180-166-E	167		
20	10 ga.	3/16"	180-147-B	162	180-147-C	170	180-167-B	143	180-167-C	152		
	% <sub>16</sub> " & ½"	3/16"	180-147-D	185	180-147-E	194	180-167-D	176	180-167-E	185		
24	10 ga.	3/16"	180-148-B	206	180-148-C	214	180-168-B	185	180-168-C	194		
	%4" & ¼"	3/16"	180-148-D	243	180-148-E	243	180-168-D	230	180-168-E	235		



Air Operated Gates for remote operation can be furnished with or without air cylinder.

_	Part N	Part Number Weight/Lbs.		t/Lbs.	1	hicknes	hickness		Air	100		100	7.27		100	1	100		)	1		-
Screw Diameter Inches	Air	r Cylinder Opt	tion		Gate	Gate	Gate		linder	^	В	C	DE		FG		н	With Feet	Less Feet	K	-	P
socres	W/O	With	W/O	With	Flange	Body	Plate	Bore	Stroke						In	ches						
4	180-266-A	180-266-B	73	93	10 ga.	10 ga.	7 ga.	21/2	11	12%	5	71%	21%	%	2%	-	2%	6	4	8%	37%	301
6	180-267-A	180-267-B	70	90	10 ga.	10 ga.	7 ga.	2%	11	12%	7	10	21%	11/14	2%	-	3	7%	6	8%	371/2	M(*)
9	180-268-A	180-268-B	54	74	10 ga.	10 ga.	7 ga.	2%	11	12%	10	13	21%	16	4	-	4	10	8	8%	37%	%(*)
10	180-269-A	180-269-B	59	80	10 ga.	10 ga.	7 ga.	2%	12	13%	11	14%	231/32	%	47m	-	4%	11	9%	8%	40	%(1)
12	180-270-A	180-270-B	69	91	10 ga.	10 ga.	7 ga.	2%	14	14%	13	17%	261/32	34	5%	-	5%	12%	10%	9%	45	360
14	180-271-A	180-271-B	78	103	10 ga.	10 ga.	7 ga.	2%	16	15%	15	19%	291/32	%	3%	3%	31/2	13%	11%	10%	50	%(2)
16	180-272-A	180-272-B	88	114	10 ga.	10 ga.	7 ga.	2%	18	16%	17	21%	321/30	%	3%	4	4	14%	13%	11%	55	36(2)
18	180-273-A	180-273-B	160	202	7 ga.	7 ga.	Х"	3%	20	20	19	24%	36%	1%	4%	4%	4%	16%	14%	13%	62%	%(2)
20	180-274-A	180-274-B	176	221	7 ga.	7 ga.	Х"	3%	22	21	21	26%	39%	1%	4%	4%	4%	17%	15%	14%	67%	16(2)
24	180-275-A	180-275-B	212	262	7 ga.	7 ga.	34"	3%	26	23	25	30%	45%	136	5%	5%	5%	20	17%	16%	77%	36(2)

(1)12 bolt holes (2)20 bolt holes

Link-Belt®



# **Screw Conveyor Safety Practices**

TO AVOID UNSAFE OR HAZARDOUS CONDITIONS, THE FOLLOWING MINI PROVISIONS MUST BE STRICTLY OBSERVED.

1.(A) SCREW CONVEYORS SHALL NEVER BE OPERATED UNLESS THE CONVEYOR HOUSING COMPLETELY ENCLOSES THE CONVEYOR MOVING ELEMENTS.

All necessary housings, covers, safety guards, railings, gratings and power transmission guards must be in place. If the conveyor is to be opened for inspection, cleaning or observation, the motor driving the conveyor is to be locked out electrically in such a manner that it cannot be started by anyone, however remote from the area unless the conveyor housing has been closed and all guards are in place. THE HOUSINGS, COVERS, AND GUARDS ARE NECESSARY TO PREVENT ANYONE FROM ENTERING, REACHING, OR FALLING INTO THE MACHINERY, WHICH MAY RESULT IN SERIOUS PERSONAL INJURY.

- (B) If the conveyor must have an open housing as a condition of its use, the entire open conveyor is then to be guarded by a railing, fence or rugged safety grating.
- (C) Feed openings for shovel, front end loader or other mechanical equipment shall be constructed in such a way that the conveyor is covered by a rugged grating. It the nature of the material is such that a grating can't be used, then the exposed section of the conveyor is to be guarded by a railing and there shall be warning signs posted.
- 2. DO NOT PLACE HANDS OR FEET IN ANY CONVEYOR OPENING, TO AVOID BEING CAUGHT BETWEEN THE ROTATING CONVEYOR SCREW AND THE CONVEYOR HOUSING.
- 3. DO NOT WALK ON CONVEYOR COVERS OR GRATINGS OR POWER TRANSMISSION GUARDS, TO AVOID FALLING INTO OR AGAINST THE ROTATING CONVEYOR SCREW.
- **4. DO NOT** poke or prod material in the conveyor with a bar or stick, **to avoid being struck by the bar or stick**.
- **5. DO NOT** overload conveyor or use it for anything but its intended use.
- **6. DO** practice good housekeeping.

Syntron Material Handling SCREW CONVEYERS MUST BE INSTALLED, OPERATED AND MAINTAINED IN ACCORDANCE WITH THE Syntron Material Handling OPERATION MAINTENANCE, INSTALLATION INSTRUCTION MANUAL.



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