SECTION III

SEE PRICE LIST FOR ITEMS CARRIED IN STOCK

Component Selection

Required Information

Screw diameter
Shaft diameter
Material component group
Unusual material characteristics

Conveyor Screws

Standard length conveyor screws should be used whenever possible to reduce the number of hanger bearings required.

The recommended screws listed in the Component Series Table are standard helicoid and sectional screw conveyors. The use of helicoid or sectional conveyors is largely a matter of individual preference.

Right hand screw conveyors pull material toward the end which is being rotated in a clockwise direction. If the rotation is reversed (counterclockwise), the material is pushed away from that end.

In left hand screw conveyors, the material flow is opposite to that of right hand screws, the direction of rotation being unchanged.

To determine hand of screw see pages H-36 and H-37.

The material is carried on one face of the conveyor flighting in conveyors which are required to transport material in one direction, therefore, conveyor end lugs are located on the opposite face to facilitate unimpeded flow of the material. Conveyor sections must be installed in such a manner that all end lugs are toward the inlet end of the conveyor. Conveyor sections must not be turned end for end without reversing the direction of rotation, or conversely, the direction of rotation must not be reversed without turning the conveyor sections end for end.

Requirements for reversible conveyor screws intended for material transport in either direction should be referred to our Engineering Department.

Flighting should be omitted from the conveyor pipe over the last discharge opening to ensure complete discharge of material without carryover.

Continuity of material flow at hanger points is accomplished by opposing adjacent flight ends approximately 180 degrees. (As close to 180° as the pre drilled holes will allow.)

Conveyor Trough and Tubular Housing

Standard trough and housing sections are available in five, six, ten and 12 foot lengths. Standard five and six foot lengths should be used when connecting flanges coincide with discharge openings or hanger bearings.

Shafts

The primary consideration in determining the type and size of coupling and drive shafts is whether the shafts selected are adequate to transmit the horsepower required, including any overload. Normally, cold-rolled shafts are adequate. However, high-tensile shafts may be required due to torque limitations. Also, stainless steel shafts may be necessary when corrosive or contaminable materials are to be handled. Conveyors equipped with non-lubricated hard iron hanger bearings require hardened coupling shafts. Specific shaft size determination is covered in the Torsional Rating Section, page H-25.

Shaft Seals

Several conveyor end seal types are available to prevent contamination of the conveyed material or to prevent the escape of material from the system.

Bearings

Hanger Bearing — The purpose of hanger bearings is to provide intermediate support when multiple screw sections are used. Hanger bearings are designed primarily for radial loads. Therefore, adequate clearance should be allowed between the bearings and the conveyor pipe ends to prevent damage by the thrust load which is transmitted through the conveyor pipe.

The hanger bearing recommendations listed in the Material Characteristic Tables are generally adequate for the material to be handled. Often, however, unusual characteristics of the material or the conditions under which the conveyor must operate make it desirable to use special bearing materials. Regarding the use of special bearing materials, consult our Engineering Department.

End Bearings — Several end bearing types are available, and their selection depends on two basic factors: Radial load and thrust load. The relative values of these loads determines end bearing types.

Radial load is negligible at the conveyor tail shaft. However, drive ends (unless integrated with the conveyor end plate) are subject to radial loading due to overhung drive loads, such as chain sprockets or shaft-mounted speed reducers. Screw Conveyor Drive Reducers at the drive end will adequately carry both thrust and radial loads.

Discharge Spouts and Gates

Standard discharge spouts and gates are available for either conveyor trough or tubular housing in several designs, operated either manually or by remote controls.

In installations where it is possible to overfill the device to which material is being transported, an additional overflow discharge opening or overflow relief device should be provided. Consult our Engineering Department for suggested electrical interlock and safety devices to prevent overflow or damage to equipment.

It is sometimes found that the material characteristics are such that standard component specifications are inadequate. Should unusual material characteristics or severe conditions exist, our Engineering Department should be consulted.

Conveyor Ends

A complete line of conveyor ends are available as standard for either conveyor trough or tubular housing with a choice of many bearing types and combinations.

Special Applications

More common of the unusual material characteristics which require other than the recommended components are:

Corrosive Materials — Components may be fabricated from alloys not affected by the material or may be coated with a protective substance.

Contaminable Materials — require the use of oil impregnated, sealed or dry type hanger bearings. End shafts should be sealed to prevent entrance of contaminants from the outside. Due to the necessity for frequent cleaning conveyor components should be designed for convenient disassembly.

Abrasive Materials — These materials may be handled in conveyors, troughs, or housings constructed of abrasion resistant alloys with hard surfaced screws. Lining of all exposed surfaces with rubber or special resins also materially reduces abrasive damage.

Interlocking or Matting Materials — Conveying with standard components is sometimes possible by the use of special feeding devices at the conveyor inlet.

Hygroscopic Materials — Frequently these materials may be handled successfully in a conveyor which is substantially sealed from the exterior atmosphere. In extreme cases it is necessary to provide jacketed trough or housing with an appropriate circulating medium to maintain the material at an elevated temperature. Purging of the conveyor with a suitable dry gas is also used in some installations.

Viscous or Sticky Materials — Ribbon flight conveyor screws are most frequently used for conveying these materials although standard components may be specially coated to improve the flow of material.

Harmful Vapors or Dusts — These materials may be safely handled in dust sealed trough, plain tubular housing or gasketed flanged tubular housing with particular attention to shaft sealing. Trough or housing exhaust systems have also been successfully used in some installations.

Blending in Transit — Ribbon, cut flight, paddle or a combination of these screw types may be designed to produce the desired degree of blending, aeration or mixing.

Explosive Dusts — The danger of this condition may be minimized in most installations by the use of components which are fabricated from non-ferrous materials and proper conveyor sealing techniques observed. Exhaust systems are also advisable for the removal of explosive dusts.

Materials Subject to Packing — This condition requires the use of aerating devices at the conveyor inlet when materials are pulverulent and a special feeder device when material particles are large or fibrous.

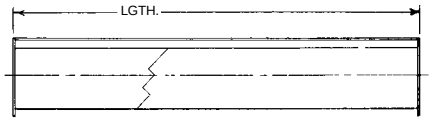
Materials which are Fluid when Aerated — This condition may be used to advantage in some installations by declining the conveyor system toward the discharge end.

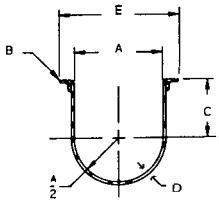
Degradable Materials — Some particles that are easily broken or distorted may usually be handled in screw conveyors by reducing the speed and selecting a larger conveyor size sufficient to deliver the required volume of material.

Elevated Temperature — Components should be fabricated from high temperature alloys. Should the process be such that cooling of the material in the conveyor is permissible, jacketed trough or housing may be used at the inlet end to cool the material and standard components used after the point where material temperature has been reduced to a safe degree.

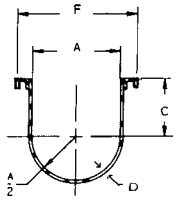
Standard Conveyor Trough

Standard conveyor troughs have a U-shaped steel body with angle iron top flanges or formed top flanges and jig drilled end flanges.





Angle Flange



Formed Flange

Conveyor Diameter	D	Angle Flanged	Angle Flanged Trough				Formed Flanged Trough ▲					A	B	C	E	F
			Weight		Weight			Weight		Weight						
	Trough Thick.	Part Number	10´* Length	5´ Length	12´ Length	6´ Length	Part Number	10´ Length	5´ Length	12´ Length	6´ Length					
4	□ 16 GA.	4CTA16	53	29	—	—	4CTF16	41	23	—	—	5	1	3⅜	7⅛	7¾
4	14	4CTA14	60	33	—	—	4CTF14	50	28	—	—				7⅜	7 13/16
4	12	4CTA12	78	42	—	—	4CTF12	70	38	—	—				7¼	8
6	□ 16 GA.	6CTA16	67	44	—	—	6CTF16	55	32	—	—	7	1¼	4½	9⅝	9¾
6	14	6CTA14	78	49	—	—	6CTF14	67	38	—	—				9 11/16	9 13/16
6	12	6CTA12	101	60	—	—	6CTF12	91	50	—	—				9¾	10
6	10	6CTA10	123	73	—	—	6CTF10	117	64	—	—				9¾	10
6	3/16	6CTA7	164	86	—	—	6CTF7	150	79	—	—				9⅞	9⅞
9	16 GA.	9CTA16	113	66	—	—	9CTF16	83	51	—	—	10	1½	6⅛	13⅛	13¼
9	□ 14	9CTA14	127	73	—	—	9CTF14	99	59	—	—				13 3/16	13 5/16
9	12	9CTA12	156	87	—	—	9CTF12	132	75	—	—				13¼	13½
9	10	9CTA10	176	102	—	—	9CTF10	164	91	—	—				13 5/16	13½
9	3/16	9CTA7	230	124	—	—	9CTF7	214	116	—	—				13⅜	13⅜
9	¼	9CTA3	286	152	—	—	9CTF3	276	147	—	—				13½	13½
10	16 GA.	10CTA16	118	69	—	—	10CTF16	88	54	—	—	11	1½	6⅜	14⅛	14¼
10	□ 14	10CTA14	133	76	—	—	10CTF14	105	62	—	—				14 3/16	14 5/16
10	12	10CTA12	164	92	—	—	10CTF12	140	80	—	—				14¼	14½
10	10	10CTA10	178	102	—	—	10CTF10	167	91	—	—				14 5/16	14½
10	3/16	10CTA7	233	131	—	—	10CTF7	217	123	—	—				14⅜	14⅜
10	¼	10CTA3	306	163	—	—	10CTF3	296	158	—	—				14½	14½
12	□ 12 GA.	12CTA12	197	113	236	135	12CTF12	164	95	197	114	13	2	7¾	17¼	17½
12	10	12CTA10	234	133	281	160	12CTF10	187	117	224	140				17 5/16	17½
12	3/16	12CTA7	294	164	353	197	12CTF7	272	150	326	180				17⅜	17⅜
12	¼	12CTA3	372	203	446	244	12CTF3	357	194	428	233				17½	17½
14	□ 12 GA.	14CTA12	214	121	257	145	14CTF12	183	102	219	122	15	2	9¼	19¼	19½
14	10	14CTA10	258	143	309	172	14CTF10	207	127	248	152				19 5/16	19½
14	3/16	14CTA7	328	180	394	216	14CTF7	304	168	365	202				19⅜	19⅜
14	¼	14CTA3	418	224	501	269	14CTF3	403	215	483	258				19½	19½
16	□ 12 GA.	16CTA12	238	133	285	160	16CTF12	206	107	247	128	17	2	10⅝	21¼	21½
16	10	16CTA10	288	159	345	191	16CTF10	234	144	281	173				21 5/16	21½
16	3/16	16CTA7	368	200	442	240	16CTF7	345	188	414	226				21⅜	21⅜
16	¼	16CTA3	471	243	565	291	16CTF3	455	228	546	273				21½	21½
18	□ 12 GA.	18CTA12	252	159	302	191	18CTF12	240	133	288	160	19	2½	12⅛	24¼	24½
18	10	18CTA10	353	170	423	204	18CTF10	269	165	323	198				24 5/16	24½
18	3/16	18CTA7	444	243	533	291	18CTF7	394	217	473	260				24⅜	24⅜
18	¼	18CTA3	559	298	671	358	18CTF3	520	275	624	330				24½	24½
20	□ 10 GA.	20CTA10	383	228	460	274	20CTF10	296	190	355	228	21	2½	13½	26 5/16	26½
20	3/16	20CTA7	484	271	581	325	20CTF7	434	247	521	296				26⅜	26⅜
20	¼	20CTA3	612	334	734	401	20CTF3	573	315	687	378				26½	26½
24	□ 10 GA.	24CTA10	443	255	531	306	24CTF10	384	227	461	272	25	2½	16½	30 5/16	30½
24	3/16	24CTA7	563	319	676	383	24CTF7	514	293	617	352				30⅜	30⅜
24	¼	24CTA3	717	363	860	435	24CTF3	678	339	813	406				30½	30½

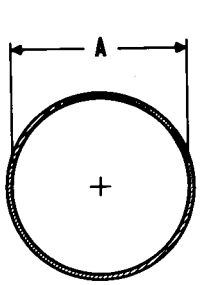
□ **Standard Gauge Bolt Patterns**
Page H-40

All troughs available in other materials such as stainless, aluminum, abrasion resistant, etc.

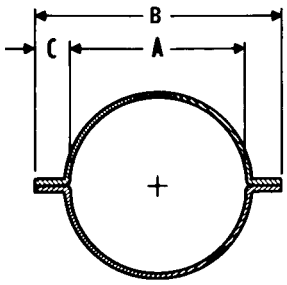
▲ Double formed flange standard on all sizes through 10 ga.

Tubular Housing

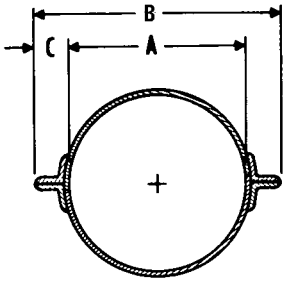
Tubular conveyor housings are inherently dust and weather-tight, and may be loaded to a full cross section. Conveyors with tubular housings are rigid and are highly suitable for conveying material on an incline. Three types shown are available.



Tubular housing



Flanged tubular housing



Angle flanged tubular housing

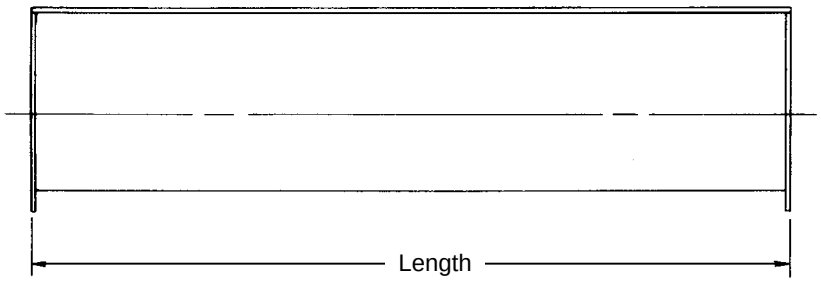
Conveyor Diameter	Trough Thickness	Tubular Housing			Formed Flange		Angle Flange		A	B	C
		Part Number	Weight 10´ Length	Weight 5´ Length	Part Number	Weight 10´	Part Number	Weight 10´			
4	□ 16 GA.	4CHT16			4CHT16-F	43	4CHT16-A	81		7⅛	
4	14	4CHT14	60	31	4CHT14-F	53	4CHT14-A	89	5	7 3/16	1
4	12	4CHT12			4CHT12-F	74	4CHT12-A	106		7¼	
6	□ 16 GA.	6CHT16	50	27	6CHT16-F	60	6CHT16-A	110		9⅝	
6	14	6CHT14	62	33	6CHT14-F	75	6CHT14-A	122		9 11/16	
6	12	6CHT12	85	44	6CHT12-F	103	6CHT12-A	145	7	9¾	1¼
6	10	6CHT10	109	56	6CHT10-F	133	6CHT10-A	187		9 13/16	
6	3/16	6CHT7	145	74	6CHT7-F	168	6CHT7-A	205		9⅞	
9	16 GA.	9CHT16	72	39	9CHT16-F	84	9CHT16-A	131		12⅝	
9	□ 14	9CHT14	89	47	9CHT14-F	104	9CHT14-A	148		12 11/16	
9	12	9CHT12	122	64	9CHT12-F	143	9CHT12-A	181		12¾	
9	10	9CHT10	155	80	9CHT10-F	182	9CHT10-A	214	10	12 13/16	1¼
9	3/16	9CHT7	208	107	9CHT7-F	245	9CHT7-A	267		12⅞	
9	¼	9CHT3	275	140	9CHT3-F	324	9CHT3-A	334		13	
10	16 GA.	10CHT16	79	42	10CHT16-F	91	10CHT16-A	138		13⅝	
10	□ 14	10CHT14	97	52	10CHT14-F	112	10CHT14-A	156		13 11/16	
10	12	10CHT12	133	70	10CHT12-F	154	10CHT12-A	192		13¾	
10	10	10CHT10	169	88	10CHT10-F	196	10CHT10-A	228	11	13 13/16	1¼
10	3/16	10CHT7	227	117	10CHT7-F	264	10CHT7-A	286		13⅞	
10	¼	10CHT3	301	154	10CHT3-F	350	10CHT3-A	360		14	
12	□ 12 GA.	12CHT12	163	88	12CHT12-F	193	12CHT12-A	235		16¼	
12	10	12CHT10	208	111	12CHT10-F	247	12CHT10-A	280		16 5/16	
12	3/16	12CHT7	275	144	12CHT7-F	328	12CHT7-A	347	13	16⅜	1½
12	¼	12CHT3	362	188	12CHT3-F	432	12CHT3-A	434		16½	
14	□ 12 GA.	14CHT12	187	101	14CHT12-F	217	14CHT12-A	259		18¼	
14	10	14CHT10	236	126	14CHT10-F	275	14CHT10-A	308		18 5/16	
14	3/16	14CHT7	316	166	14CHT7-F	369	14CHT7-A	388	15	18⅜	1½
14	¼	14CHT3	416	216	14CHT3-F	486	14CHT3-A	488		18½	
16	□ 12 GA.	16CHT12	212	114	16CHT12-F	242	16CHT12-A	310		21¼	
16	10	16CHT10	268	142	16CHT10-F	307	16CHT10-A	366		21 5/16	
16	3/16	16CHT7	358	187	16CHT7-F	411	16CHT7-A	456	17	21⅜	2
16	¼	16CHT3	472	244	16CHT3-F	542	16CHT3-A	570		21½	
18	□ 12 GA.	18CHT12	242	133	18CHT12-F	280	18CHT12-A	340		23¼	
18	10	18CHT10	304	164	18CHT10-F	352	18CHT10-A	402		23 5/16	
18	3/16	18CHT7	405	214	18CHT7-F	471	18CHT7-A	503	19	23⅜	2
18	¼	18CHT3	533	278	18CHT3-F	621	18CHT3-A	631		23½	
20	□ 10 GA.	20CHT10	335	188	20CHT10-F	381	20CHT10-A	433		25 5/16	
20	3/16	20CHT7	446	237	20CHT7-F	510	20CHT7-A	544	21	25⅜	2
20	¼	20CHT3	586	307	20CHT3-F	671	20CHT3-A	684		25½	
24	□ 10 GA.	24CHT10	399	215	24CHT10-F	445	24CHT10-A	497		29 5/16	
24	3/16	24CHT7	531	281	24CHT7-F	594	24CHT7-A	629	25	29⅜	2
24	¼	24CHT3	699	365	24CHT3-F	784	24CHT3-A	797		29½	

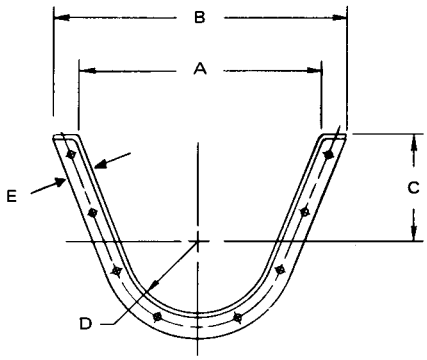
□ Standard Gauge

For Bolt Patterns See Page H-41

Flared Trough

Flared troughs are used primarily to convey materials which are not free-flowing or which have a tendency to stick to the trough.





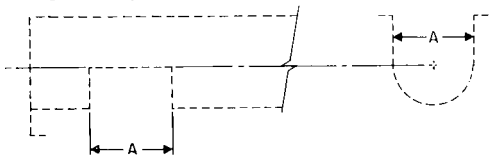
Conveyor Diameter	Trough Thickness	Part Number	Weight Per Foot	A	B	C	D	E	Standard Length Foot
6	□ 14 GA.	6FCT14	9	14	16⅝	7	3½	1 5/16	10
6	12	6FCT12	12		16¾				
9	□ 14 GA.	9FCT14	13		21 3/16				
9	12 GA.	9FCT12	14		21¼				
9	10	9FCT10	19	18	21¼	9	5	1¾	10
9	3/16	9FCT7	22		21⅜				
9	¼	9FCT3	25		21½				
12	□ 12 GA.	12FCT12	20		26¼	10	6½	2¼	12
12	10	12FCT10	24	22	26¼				
12	3/16	12FCT7	32		26⅜				
12	¼	12FCT3	43		26½				
14	□ 12 GA.	14FCT12	23		28¼	11	7½	2¼	12
14	10	14FCT10	27	24	28¼				
14	3/16	14FCT7	37		28⅜				
14	¼	14FCT3	49		28½				
16	□ 12 GA.	16FCT12	25		32¼				
16	10	16FCT10	31	28	32¼	11½	8½	2¼	12
16	3/16	16FCT7	39		32⅜				
16	¼	16FCT3	52		32½				
18	□ 12 GA.	18FCT12	27		36¼				
18	10	18FCT10	35	31	36¼	12⅛	9½	2¾	12
18	3/16	18FCT7	45		36⅜				
18	¼	18FCT3	56		36½				
20	□ 10 GA.	20FCT10	36		39¼				
20	3/16	20FCT7	48	34	39⅜	13½	10½	2¾	12
20	¼	20FCT3	60		39½				
24	□ 10 GA.	24FCT10	41	40	45¼	16½	12½	2¾	12
24	3/16	24FCT7	54		45⅜				
24	¼	24FCT3	69		45½				

□ **Standard Gauge**

See Page H-40 for Bolt Pattern

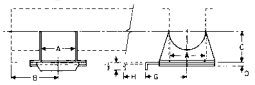
Discharge Spouts

Plain Opening



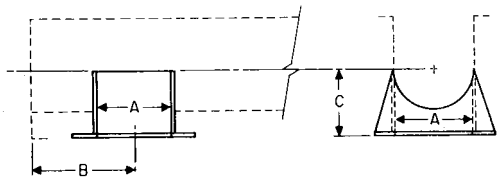
Plain spout openings are cut in the trough permitting free material discharge.

Fixed Spout with Slide Gate



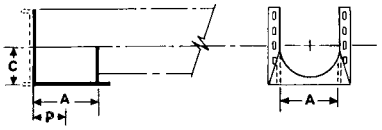
Fixed spouts with slide gates are used where distribution of material is to be controlled. Bolted flange permits slide to be operated from any side.

Fixed Spout



Fixed spouts are fabricated in proportion to size and thickness of trough. Can be furnished loose or welded to trough.

Flush End Spout



Flush end discharge spouts are designed for use at the final discharge point. The end of the spout is comprised of a housing end with bottom flange drilled with standard discharge flange bolt pattern. Because it is located at the extreme end of the conveyor, there is no carryover of material past the final discharge point. The flush end arrangement eliminates the unnecessary extension of trough and interior components beyond the actual discharge point.

Screw Diameter	A	B	C	D	G	H	F
4	5	4½	3¾	5/16	5⅝	11	2½
6	7	6	5	5/16	6⅝	14	3½
9	10	8	7⅛	5/16	8	19	5
10	11	9	7⅞	5/16	8⅝	20	5½
12	13	10½	8⅞	5/16	10⅛	24	6½
14	15	11½	10⅛	5/16	11¼	27	7½
16	17	13½	11⅛	5/16	12⅜	30	8½
18	19	14½	12⅜	5/16	13⅜	33	9½
20	21	15½	13⅜	⅜	14⅜	36	10½
24	25	17½	15⅜	⅜	16⅜	42	12½

Screw Diameter	Trough Thickness Gauge	Spout and Gate Thickness Gauge	Part Number			Weight		
			Fixed Spout		Flush End Spout	Fixed Spout		Flush End Spout
			Plain	With Slide		Plain	Slide	
4	16-14	□ 16	4TSD16	4TSDS16	4TSDF16	2	6	1.5
4	12	12	4TSD12	4TSDS12	4TSDF12	3	7	2.25
6	14-12	□ 16	6TSD14	6TSDS14	6TSDF16	4	11	3.0
6	3/16	12	6TSD12	6TSDS12	6TSDF12	6	13	4.50
9	16-14-12-10	□ 14	9TSD14	9TSDS14	9TSDF14	8	18	6.0
9	3/16-¼	10	9TSD10	9TSDS10	9TSDF10	13	22	9.75
10	14-12-10	□ 14	10TSD14	10TSDS14	10TSDF14	10	21	7.5
10	3/16-¼	10	10TSD10	10TSDS10	10TSDF10	16	27	12.0
12	12-10	□ 12	12TSD12	12TSDS12	12TSDF12	17	36	12.75
12	3/16-¼	3/16	12TSD7	12TSDS7	12TSDF7	29	48	21.75
14	12-10	□ 12	14TSD12	14TSDS12	14TSDF12	22	46	16.50
14	3/16-¼	3/16	14TSD7	14TSDS7	14TSDF7	38	62	28.50
16	12-10	□ 12	16TSD12	16TSDS12	16TSDF12	21	49	15.75
16	3/16-¼	3/16	16TSD7	16TSDS7	16TSDF7	40	68	30.0
18	12-10	□ 12	18TSD12	18TSDS12	18TSDF12	32	69	24.0
18	3/16-¼	3/16	18TSD7	18TSDS7	18TSDF7	60	97	45.0
20	10	□ 12	20TSD12	20TSDS12	20TSDF12	40	91	30.0
20	3/16-¼	3/16	20TSD7	20TSDS7	20TSDF7	67	118	50.25
24	10	□ 12	24TSD12	24TSDS12	24TSDF12	52	116	39.0
24	3/16-¼	3/16	24TSD7	24TSDS7	24TSDF7	87	151	65.25

□ **Standard Gauge**

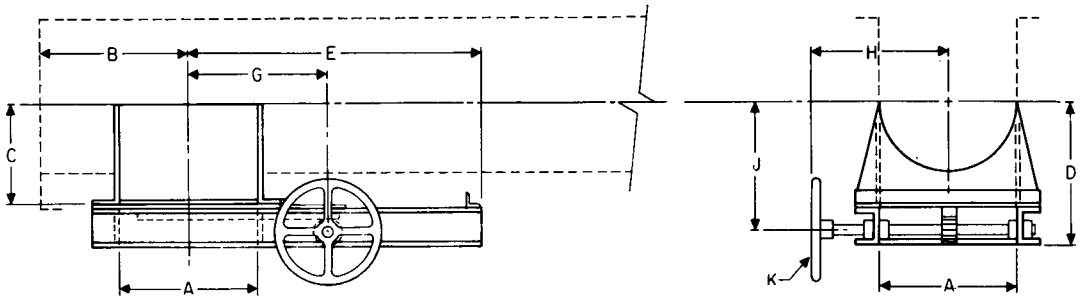
① Add –F for Fitted

For Bolt Patterns See Page H-41

Discharge Gates

Flat rack and pinion slide gates can be bolted to standard discharge spouts at any of the four positions desired. Hand wheel is normally furnished but is also available with chain or rope wheel.

Rack and Pinion Flat Slide



Screw Diameter	A	B	C	D	E	G	H	J	K Diameter
4	5	4½	3¾	7	13½	6½	5	5½	12
6	7	6	5	8¼	16	7½	6	6¾	12
9	10	8	7⅛	10⅜	20¼	9	9½	8⅞	12
10	11	9	7⅞	11⅛	23½	10½	10	9⅞	12
12	13	10½	8⅞	12⅛	25½	11	12¼	10⅞	12
14	15	11½	10⅛	13⅜	31¼	12½	13¼	12	12
16	17	13½	11⅛	14⅜	33⅝	13½	14¼	13	12
18	19	14½	12⅜	15⅝	37⅞	14½	15¾	14⅛	12
20	21	15½	13⅜	16 1/16	40¾	15½	16¾	15⅛	12
24	25	17½	15⅜	18 1/16	46½	17½	18¾	17⅜	12

Screw Diameter	Trough Thickness Gauge	Spout and Gate Thickness Gauge	Part Number Rack and Pinion† ①	Weight Rack and Pinion
4	16-14	□ 14	4RPF14	18
4	12	12	4RPF12	21
6	16-14-12	□ 14	6RPF14	28
6	3/16	12	6RPF12	31
9	14-12-10	□ 14	9RPF14	49
9	3/16-¼	10	9RPF10	54
10	14-12-10	□ 14	10RPF14	56
10	3/16-¼	10	10RPF10	62
12	12-10	□ 12	12RPF12	94
12	3/16-¼	3/16	12RPF7	106
14	12-10	□ 12	14RPF12	107
14	3/16 -¼	3/16	14RPF7	123
16	12-10	□ 12	16RPF12	112
16	3/16-¼	3/16	16RPF7	131
18*	12-10	□ 12	18RPF12	157
18*	3/16-¼	3/16	18RPF7	185
20*	10	□ 12	20RPF12	185
20*	3/16-¼	3/16	20RPF7	212
24*	10	□ 12	24RPF12	233
24*	3/16-¼	3/16	24RPF7	268

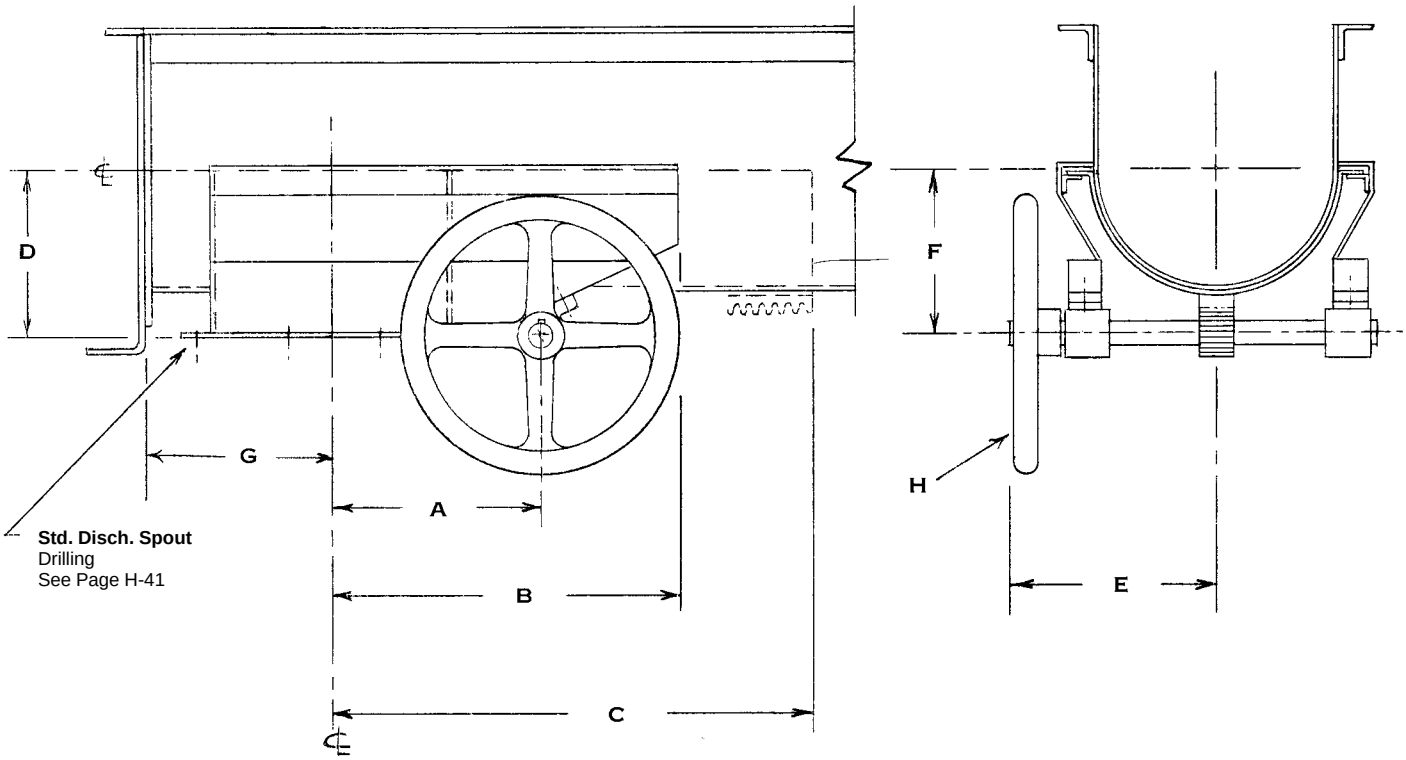
* Handwheel supplied as Standard Assembly
— C Chain Wheel
— R Rope Wheel

□ **Standard Gauge**
For Bolt Patterns See Page H-41
†**All Rack & Pinion Gates 18″ and Larger Have Double Rack & Pinion.**

① Add –F for Fitted

Rack and Pinion Curved Slide

Curved rack and pinion slide gates are contoured to the shape of the trough thus eliminating pocket caused by flat slide. Slide operates parallel to the trough only. Hand wheel is normally furnished but is also available with chain or rope wheel.



Std. Disch. Spout
Drilling
See Page H-41

Conveyor Diameter	Trough Thickness	Spout Thickness	Part Number*①	Weight Pounds	A	B	C	D	E	F	G	H Diameter
4 4	14,16 Cal. 12 Cal.	□ 14 Cal. 12 GA.	4RPC14 4RPC12	20 22	6¼ 6¼	8¾ 8¾	12 12	3¾ 3¾	6 6	4½ 4⅜	4½	12
6 6	16,14,12 GA. 3/16″	□ 14 GA. 12 GA.	6RPC14 6RPC12	25 28	7½ 7½	10½ 10½	15 15	5 5	8 8	5½ 5⅝	6	12
9 9	14,12,10 GA. 3/16″,¼″	□ 14 GA. 10 GA.	9RPC14 9RPC10	46 54	9 9	15 15	20½ 20½	7⅛ 7⅛	8¾ 8¾	7 7⅛	8	12
10 10	14,12,10 GA. 3/16″,¼″	□ 14 GA. 10 GA.	10RPC14 10RPC10	53 62	9½ 9½	14½ 14½	21 21	7⅞ 7⅞	9⅛ 9⅛	7½ 7⅝	9	12
12 12	12,10 GA. 3/16″,¼″	□ 12 GA. 3/16″	12RPC12 12RPC7	81 97	11⅜ 11⅜	17½ 17½	25¾ 25¾	8⅞ 8⅞	11 11	8½ 8⅝	10½	12
14 14	10,12 GA. 3/16″,¼″	□ 12 GA. 3/16″	14RPC12 14RPC7	95 114	12⅞ 12⅞	20½ 20½	30¼ 30¼	10⅛ 10⅛	12 12	9½ 9⅝	11½	12
16 16	10,12 GA. 3/16″,¼″	□ 12 GA. 3/16″	16RPC12 16RPC7	103 116	14⅜ 14⅜	23½ 23½	36 36	11⅛ 11⅛	13 13	10½ 10⅝	13½	12
18 18	10,12 GA. 3/16″,¼″	□ 12 GA. 3/16″	18RPC12 18RPC7	157 187	15⅞ 15⅞	25½ 25½	37¼ 37¼	12⅜ 12⅜	15⅜ 15⅜	11½ 11⅝	14½	12
20 20	12 GA. 3/16″,¼″	□ 12 GA. 3/16″	20RPC12 20RPC7	175 208	17⅜ 17⅜	28½ 28½	39 39	13⅜ 13⅜	16⅜ 16⅜	12½ 12⅝	15½	12
24 24	10 GA. 3/16″,¼″	□ 12 GA. 3/16″	24RPC12 24RPC7	220 265	19⅜ 19⅜	35½ 35½	47 47	15⅜ 15⅜	18⅜ 18⅜	14½ 14⅝	17½	12

* Hand wheel supplied as Standard Assembly
— C Chain Wheel
— R Rope Wheel

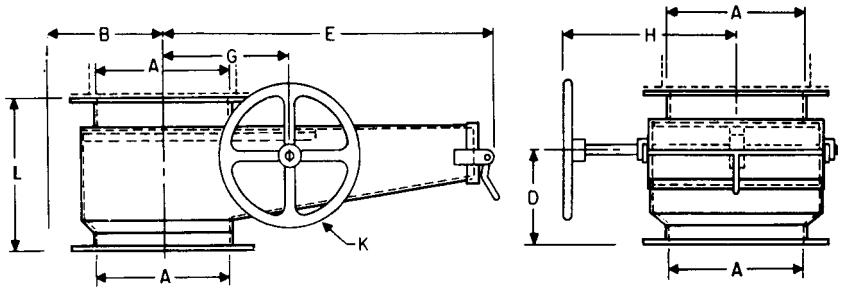
□ Standard Gauge

① Add –F for Fitted

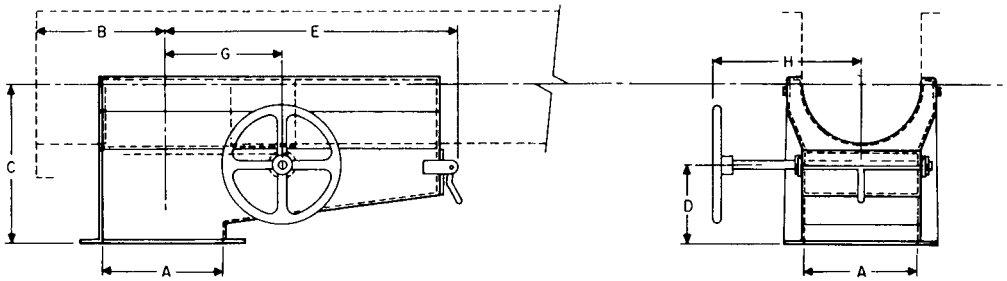
Discharge Gates

Dust Tight Rack and Pinion Flat Slide

Dust tight rack and pinions are totally enclosed and can be furnished with either flat or curved slide. Handwheel is normally furnished but is also available with chain or rope wheel.



Dust Tight Rack and Pinion Curved Slide



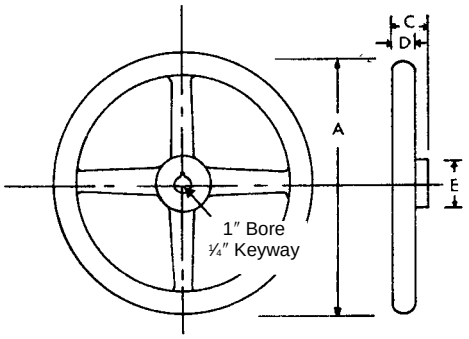
Screw Diameter	A	B	C	D	E	G	H	K Diameter	L
4	5	4½	7½	2½	12	6	7	12	7½
6	7	6	10	4	18½	7½	8	12	9
9	10	8	12½	5	23	9	11	12	10
10	11	9	13	5	25	10	11½	12	10½
12	13	10½	15	5	28	11½	13	12	10½
14	15	11½	15½	5½	31	12½	14	12	10½
16	17	13½	16½	5½	34	13½	15	12	10½
18	19	14½	18½	6½	38½	15	16½	12	11½
20	21	15½	20	7	40½	16	17½	12	12
24	25	17½	23	8	47½	18	19½	12	13

Screw Diameter	Trough Thickness Gauge	Spout and Slide Thickness Gauge	Part Number			
			Flat Slide * ①	Weight	Curved Slide * ①	Weight
4	16-14	14	4RPFD14	27	4RPCD16	30
4	12	12	4RPFD12	32	4RPCD12	35
6	16-14-12	14	6RPFD14	42	6RPCD16	46
6	3/16	12	6RPFD12	47	6RPCD12	52
9	14-12-10	14	9RPFD12	74	9RPCD12	81
9	3/16-1/4	10	9RPFD10	81	9RPCD10	89
10	14-12-10	14	10RPFD14	84	10RPCD14	92
10	3/16-1/4	10	10RPFD10	93	104PCD10	102
12	12-10	12	12RPFD12	141	12RPCD12	155
12	3/16-1/4	3/16	12RPFD7	158	12RPCD7	174
14	12-10	12	14RPFD12	160	14RPCD12	176
14	3/16-1/4	3/16	14RPFD7	185	14RPCD7	204
16	12-10	12	16RPFD12	168	16RPCD12	185
16	3/16-1/4	3/16	16RPFD7	197	16RPCD7	217
18	12-10	12	18RPFD12	240	18RPCD12	264
18	3/16-1/4	3/16	18RPFD7	277	18RPCD7	305
20	10	12	20RPFD12	278	20RPCD12	306
20	3/16-1/4	3/16	20RPFD7	318	20RPCD7	350
24	10	12	24RPFD12	350	24RPCD12	385
24	3/16-1/4	3/16	24RPFD7	402	24RPCD7	442

* Handwheel supplied as standard assembly
— C Chain Wheel
— R Rope Wheel

Flange drilling is standard. See page H-41
① Add –F for Fitted

Discharge Gate Accessories

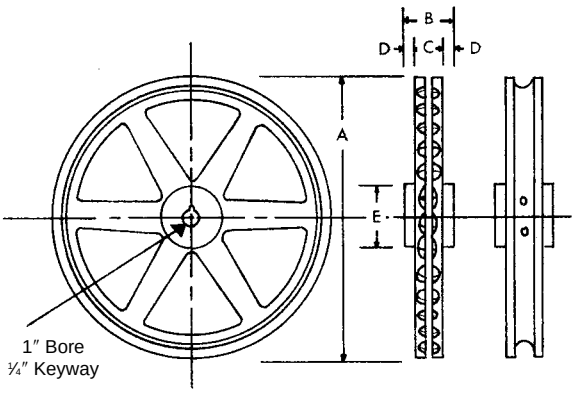


Hand Wheel

Dimensions in Inches and Weight in Pounds

Wheel Diameter	Part No.	Weight	C	D	E
12	12HW1	11	2	1⅛	1⅞

The hand wheel is regularly furnished to rotate the pinion shaft when the slide gate is readily accessible.



Pocket Wheel & Rope Wheel

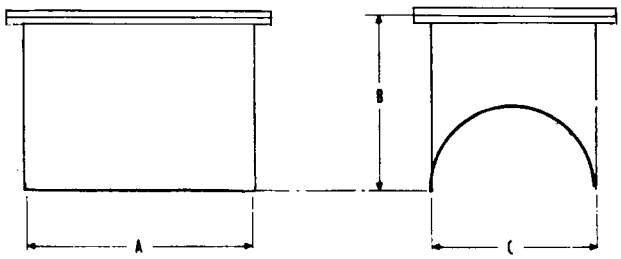
Dimensions in Inches and Average Weights in Pounds

Wheel Diameter	Part No.	Weight	A	C	D	D	E
Chain Wheel	20PW1	11	12¾	2	1⅜	5/16	2
Rope Wheel	12RW1	13	12⅝	2¼	1⅝	1¼	1⅞

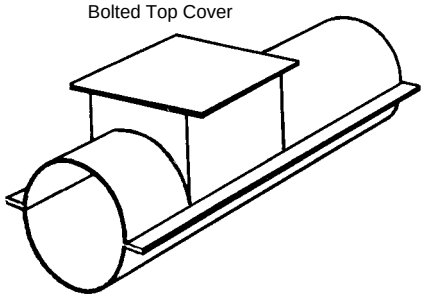
Pocket chain and rope wheels are used to rotate pinion shaft where remote operation is desired. It is designed to be used with number 3/16 pocket chain.

Hanger Pockets

Hanger pockets are used with tubular trough and are mounted on the trough at bearing connections. The hanger pocket forms a “U” shaped section for a short distance, allowing the use of standard hangers and providing easy access to them.



Bolted Top Cover

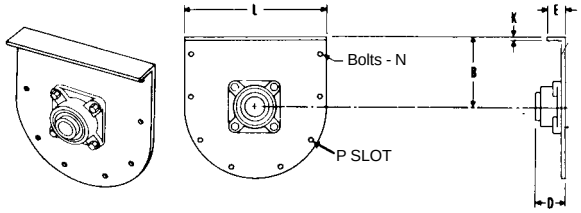


Conveyor Diameter	Part Numer	A	B	C	Weight Each
4	4CPH16	8	3¾	5	2
6	6CPH16	12	4¾	7	3
9	9CPH14	12	6⅜	10	4
10	10CPH14	12	6⅝	11	9
12	12CPH12	18	8	13	18
14	14CPH12	18	9½	15	24
16	16CPH12	18	10⅞	17	26
18	18CPH12	18	12⅜	19	30
20	20CPH10	18	13¾	21	45
24	24CPH10	18	16¾	25	50

Trough Ends

Outside Less Feet

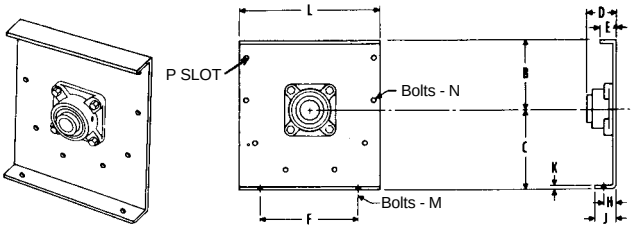
Outside trough ends less feet are used to support end bearing and cover when no trough support is required. Drilling for bronze bearing or flanged ball bearing is standard.



Conveyor Diameter	Shaft Diameter	▲ Part Number	B	D			E	K	L	N	Weight	P Slot
				Friction Bearing	Ball Bearing	Roller Bearing						
4	1	4TE2–*	3⅜	2⁵⁄₁₆	1⅝		1⁷⁄₁₆	¼	8⅛	⅜	3	⁷⁄₁₆ × ⁹⁄₁₆
6	1½	6TE3–*	4½	3⁵⁄₁₆	2⁵⁄₁₆	3¹¹⁄₁₆	1½	¼	10⅛	⅜	4	⁷⁄₁₆ × ⁹⁄₁₆
9	1½	9TE3–*	6⅛	3¼	2⁵⁄₁₆	3¹¹⁄₁₆	1⅝	¼	13¾	⅜	9	⁷⁄₁₆ × ⁹⁄₁₆
	2	9TE4–*	6⅛	4¼	2½	3¹³⁄₁₆	1⅝	¼	13¾	⅜	9	
10	1½	10TE3–*	6⅜	3¼	2⁵⁄₁₆	3¹¹⁄₁₆	1¾	¼	14¾	⅜	11	⁷⁄₁₆ × ⁹⁄₁₆
	2	10TE4–*	6⅜	4¼	2½	3¹³⁄₁₆	1¾	¼	14¾	⅜	11	⁷⁄₁₆ × ⁹⁄₁₆
12	2	12TE4–*	7¾	4¼	2⁹⁄₁₆	3⅞	2	¼	17¼	½	20	
	2⁷⁄₁₆	12TE5–*	7¾	5¼	2¹⁵⁄₁₆	4⁷⁄₁₆	2	¼	17¼	½	20	⁹⁄₁₆ × ¹¹⁄₁₆
	3	12TE6–*	7¾	6¼	3¾	4¹⁵⁄₁₆	2	¼	17¼	½	20	
14	2⁷⁄₁₆	14TE5–*	9¼	5⁵⁄₁₆	2¹⁵⁄₁₆	4⁷⁄₁₆	2	¼	19¼	½	35	⁹⁄₁₆ × ¹¹⁄₁₆
	3	14TE6–*	9¼	5⁵⁄₁₆	3¾	4¹⁵⁄₁₆	2	⁵⁄₁₆	19¼	½	35	
16	3	16TE6–*	10⅝	6⁵⁄₁₆	3¹³⁄₁₆	5	2½	⁵⁄₁₆	21¼	⅝	42	¹¹⁄₁₆ × ¹³⁄₁₆
18	3	18TE6–*	12⅛	6⅜	3¹³⁄₁₆	5	2½	⅜	24¼	⅝	60	¹¹⁄₁₆ × ¹³⁄₁₆
	3⅞₁₆	18TE7–*	12⅛	7⅜	4⁹⁄₁₆	5⁹⁄₁₆	2½	⅜	24¼	⅝	60	
20	3	20TE6–*	13½	6⅜	3⅞	5¹⁄₁₆	2½	⅜	26¼	⅝	90	¹¹⁄₁₆ × ¹³⁄₁₆
	3⁷⁄₁₆	20TE7–*	13½	7⅜	4⅜	5⅝	2½	⅜	26¼	⅝	90	
24	3⁷⁄₁₆	24TE7–*	16½	7⅜	4⅜	5⅝	2½	⅜	30¼	⅝	120	¹¹⁄₁₆ × ¹³⁄₁₆

Outside With Feet

Outside trough ends with feet are used to support end bearing, cover and trough. Drilling for bronze or flanged ball bearing is standard.



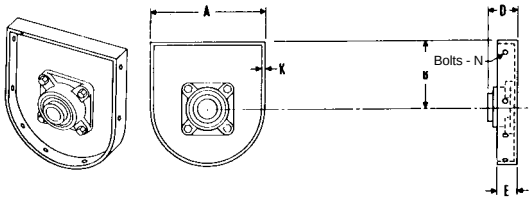
Conveyor Diameter	Shaft Diameter	▲ Part Number	B	C	D			E	F	H	J	K	L	M	N	Weight	P Slot
					Friction Bearing	Ball Bearing	Roller Bearing										
4	1	4TEF2–*	3⅝	4⅝	2¹⁵⁄₁₆	1⅝	—	1⁷⁄₁₆	5¾	1	1⅝	¼	8⅛	⅜	⅜	4	⁷⁄₁₆ × ⁹⁄₁₆
6	1½	6TEF3–*	4½	5⅝	3¹⁵⁄₁₆	2⁵⁄₁₆	3¹¹⁄₁₆	1½	8⅛	1	1¾	¼	10⅛	⅜	⅜	7	⁷⁄₁₆ × ⁹⁄₁₆
9	1½	9TEF3–*	6⅛	7⅛	3¹⁵⁄₁₆	2⁵⁄₁₆	3¹¹⁄₁₆	1⅝	9⅜	1½	2⅝	¼	13¾	½	⅜	12	⁷⁄₁₆ × ⁹⁄₁₆
	2	9TEF4–*	6⅛	7⅛	4¹⁵⁄₁₆	2½	3¹³⁄₁₆	1⅝	9⅜	1½	2⅝	¼	13¾	½	⅜	12	⁷⁄₁₆ × ⁹⁄₁₆
10	1½	10TEF3–*	6⅜	8⅛	3¹⁵⁄₁₆	2⁵⁄₁₆	3¹¹⁄₁₆	1¾	9½	1¾	2⅛	¼	14¾	½	⅜	14	⁷⁄₁₆ × ⁹⁄₁₆
	2	10TEF4–*	6⅜	8⅛	4¹⁵⁄₁₆	2½	3¹³⁄₁₆	1¾	9½	1¾	2⅛	¼	14¾	½	⅜	14	⁷⁄₁₆ × ⁹⁄₁₆
12	2	12TEF4–*	7¾	9⅝	5	2⁹⁄₁₆	3⅞	2	12¼	1⅝	2¾	¼	17¼	⅝	½	23	⁹⁄₁₆ × ¹¹⁄₁₆
	2⁷⁄₁₆	12TEF5–*	7¾	9⅝	5½	2¹⁵⁄₁₆	4⁷⁄₁₆	2	12¼	1⅝	2¾	¼	17¼	⅝	½	23	⁹⁄₁₆ × ¹¹⁄₁₆
	3	12TEF6–*	7¾	9⅝	5⅝	3¾	4¹⁵⁄₁₆	2	12¼	1⅝	2¾	¼	17¼	⅝	½	23	⁹⁄₁₆ × ¹¹⁄₁₆
14	2⁷⁄₁₆	14TEF5–*	9¼	10⅞	5½	2¹⁵⁄₁₆	4⁷⁄₁₆	2	13½	1⅝	2⅞	¼	19¼	⅝	½	38	⁹⁄₁₆ × ¹¹⁄₁₆
	3	14TEF6–*	9¼	10⅞	5⅝	3¾	4¹⁵⁄₁₆	2	13½	1⅝	2⅞	⁵⁄₁₆	19¼	⅝	½	38	⁹⁄₁₆ × ¹¹⁄₁₆
16	3	16TEF6–*	10⅝	12	5¹¹⁄₁₆	3¹³⁄₁₆	5	2½	14⅞	2	3¼	⁵⁄₁₆	21¼	⅝	⅝	45	¹¹⁄₁₆ × ¹³⁄₁₆
18	3	18TEF6–*	12⅛	13⅜	5¹¹⁄₁₆	3¹³⁄₁₆	5	2½	16	2	3¼	⅜	24½	⅝	⅝	67	¹¹⁄₁₆ × ¹³⁄₁₆
	3⁷⁄₁₆	18TEF7–*	12⅛	13⅜	6¹⁵⁄₁₆	4⁹⁄₁₆	5⁹⁄₁₆	2½	16	2	3¼	⅜	24¼	⅝	⅝	67	¹¹⁄₁₆ × ¹³⁄₁₆
20	3	20TEF6–*	13½	15	5¾	3⅞	5¹⁄₁₆	2½	19¼	2¼	3¾	⅜	26¼	¾	⅝	120	¹¹⁄₁₆ × ¹³⁄₁₆
	3⁷⁄₁₆	20TEF7–*	13½	15	7	4⅜	5⅝	2½	19¼	2¼	3¾	⅜	26¼	¾	⅝	120	¹¹⁄₁₆ × ¹³⁄₁₆
24	3⁷⁄₁₆	24TEF7–*	16½	18⅛	7	4⅜	5⅝	2½	20	2½	4⅛	⅜	30¼	¾	⅝	162	¹¹⁄₁₆ × ¹³⁄₁₆

▲ Can be furnished with CSP, CSW, or CSFP seals

–*BB Ball Bearing
–*BR Bronze Bearing
–*RB Roller Bearing
–*P Less Bearing

Inside

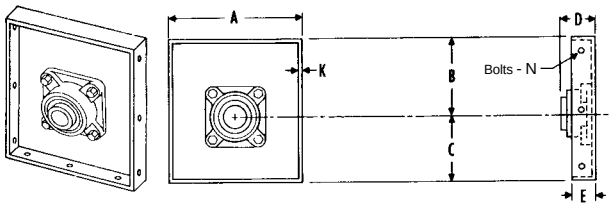
Inside trough ends are used in place of outside type where no trough end flanges are required. Drilling for bronze bearings or flanged ball bearing is standard.



Conveyor Diameter	Shaft Diameter	▲ Part Number	A	B	D			E	K	N	Weight
					Friction Bearing	Ball Bearing	Roller Bearing				
4	1	4TEI2–*	5	3⅝	2⁵⁄₁₆	1⅝	—	2	¼	¼	3
6	1½	6TEI3–*	7	4½	3⁵⁄₁₆	2⁵⁄₁₆	3¹¹⁄₁₆	2	¼	⁵⁄₁₆	5
9	1½	9TEI3–*	10	6⅛	3¼	2⁵⁄₁₆	3¹¹⁄₁₆	2	¼	⅜	9
	2	9TEI4–*	10	6⅛	4¼	2½	3¹³⁄₁₆	2	¼	⅜	9
10	1½	10TEI3–*	11	6⅜	3¼	2⁵⁄₁₆	3¹¹⁄₁₆	2	¼	⅜	11
	2	10TEI4–*	11	6⅜	4¼	2½	3¹³⁄₁₆	2	¼	⅜	11
12	2	12TEI4–*	13	7¾	4¼	2⁵⁄₁₆	3⅞	2	¼	½	19
	2⁷⁄₁₆	12TEI5–*	13	7¾	5¼	2¹⁵⁄₁₆	4⁷⁄₁₆	2	¼	½	19
	3	12TEI6–*	13	7¾	6¼	3¾	4¹⁵⁄₁₆	2	¼	½	19
14	2⁷⁄₁₆	14TEI5–*	15	9¼	5⁵⁄₁₆	2¹⁵⁄₁₆	4⁷⁄₁₆	2	¼	½	34
	3	14TEI6–*	15	9¼	6⁵⁄₁₆	3¾	4¹⁵⁄₁₆	2	⁵⁄₁₆	½	34
16	3	16TEI6–*	17	10⅝	6⁵⁄₁₆	3¹³⁄₁₆	5	2	⁵⁄₁₆	⅝	40
18	3	18TEI6–*	19	12⅛	6⅜	3¹³⁄₁₆	5	2	⅜	⅝	58
	3⁷⁄₁₆	18TEI7–*	19	12⅛	7⅜	4⁵⁄₁₆	5⁹⁄₁₆	2	⅜	⅝	58
20	3	20TEI6–*	21	13½	6⅜	3⅞	5¹⁄₁₆	2	⅜	⅝	83
	3⁷⁄₁₆	20TEI7–*	21	13½	7⅜	4⅜	5⅝	2	⅜	⅝	83
24	3⁷⁄₁₆	24TEI7–*	25	16½	7⅜	4⅜	5⅝	2	⅜	⅝	116

Inside Rectangular

Rectangular trough ends are used inside of rectangular trough. Drilling for bronze bearing or flanged ball bearing is standard.



Conveyor Diameter	Shaft Diameter	▲ Part Number	A	B	C	D			E	K	N	Weight
						Friction Bearing	Ball Bearing	Roller Bearing				
4	1	4TER2–*	5	3⅝	2½	2⁵⁄₁₆	1⅝	—	2	¼	¼	4
6	1½	6TER3–*	7	4½	3½	3⁵⁄₁₆	2⁵⁄₁₆	3¹¹⁄₁₆	2	¼	⁵⁄₁₆	6
9	1½	9TER3–*	10	6⅛	5	3¼	2⁵⁄₁₆	3¹¹⁄₁₆	2	¼	⅜	9
	2	9TER4–*	10	6⅛	5	4¼	2½	3¹³⁄₁₆	2	¼	⅜	9
10	1½	10TER3–*	11	6⅜	5½	3¼	2⁵⁄₁₆	3¹¹⁄₁₆	2	¼	⅜	12
	2	10TER4–*	11	6⅜	5½	4¼	2½	3¹³⁄₁₆	2	¼	⅜	12
12	2	12TER4–*	13	7¾	6½	4¼	2⁵⁄₁₆	3⅞	2	¼	½	21
	2⁷⁄₁₆	12TER5–*	13	7¾	6½	5¼	2¹⁵⁄₁₆	4⁷⁄₁₆	2	¼	½	21
	3	12TER6–*	13	7¾	6½	6¼	3¾	4¹⁵⁄₁₆	2	¼	½	21
14	2⁷⁄₁₆	14TER5–*	15	9¼	7½	5⁵⁄₁₆	2¹⁵⁄₁₆	4⁷⁄₁₆	2	¼	½	35
	3	14TER6–*	15	9¼	7½	6⁵⁄₁₆	3¾	4¹⁵⁄₁₆	2	⁵⁄₁₆	½	35
16	3	16TER6–*	17	10⅝	8½	6⁵⁄₁₆	3¹³⁄₁₆	5	2	⁵⁄₁₆	⅝	41
18	3	18TER6–*	19	12⅛	9½	6⅜	3¹³⁄₁₆	5	2	⅜	⅝	60
	3⁷⁄₁₆	18TER7–*	19	12⅛	9½	7⅜	4⁵⁄₁₆	5⁹⁄₁₆	2	⅜	⅝	60
20	3	20TER6–*	21	13½	10½	6⅜	3⅞	5¹⁄₁₆	2	⅜	⅝	88
	3⁷⁄₁₆	20TER7–*	21	13½	10½	7⅜	4⅜	5⅝	2	⅜	⅝	88
24	3⁷⁄₁₆	24TER7–*	25	16½	12½	7⅜	4⅜	5⅝	2	⅜	⅝	125

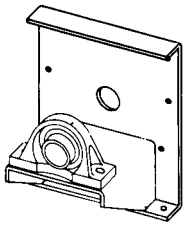
▲ Can be furnished with CSP, CSW, or CSS seals

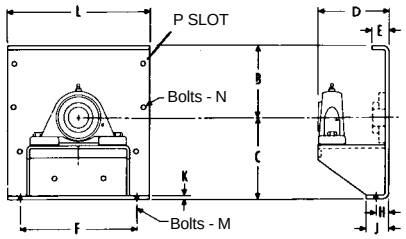
–*BB Ball Bearing
–*BP Bronze Bearing
–*RB Roller Bearing
–*P Less Bearing

Trough Ends

Single Bearing

Single bearing pedestal type trough ends are constructed with base for mounting pillow block bearings and shaft seal or packing gland.

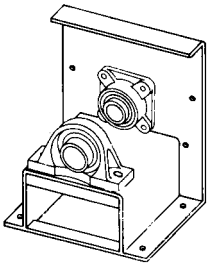


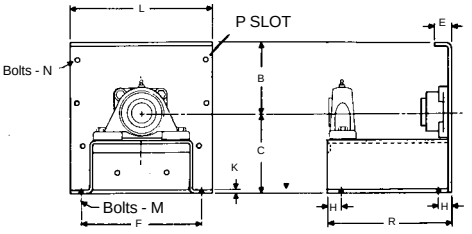


Conveyor Diameter	Shaft Diameter	Part Number	B	C	D	E	F	H	J	K	L	M	N	P Slot	Weight
6	1½	6TEO3	Consult Factory												
9	1½ 2	9TEO3 9TEO4													
10	1½ 2	10TEO3 10TEO4													
12	2 2 7/16 3	12TEO4 12TEO5 12TEO6													
14	2 7/16 3	14TEO5 14TEO6													
16	3	16TEO6													
18	3 3 7/16	18TEO6 18TEO7													
20	3 3 7/16	20TEO6 20TEO7													
24	3 7/16	24TEO7													

Double Bearing

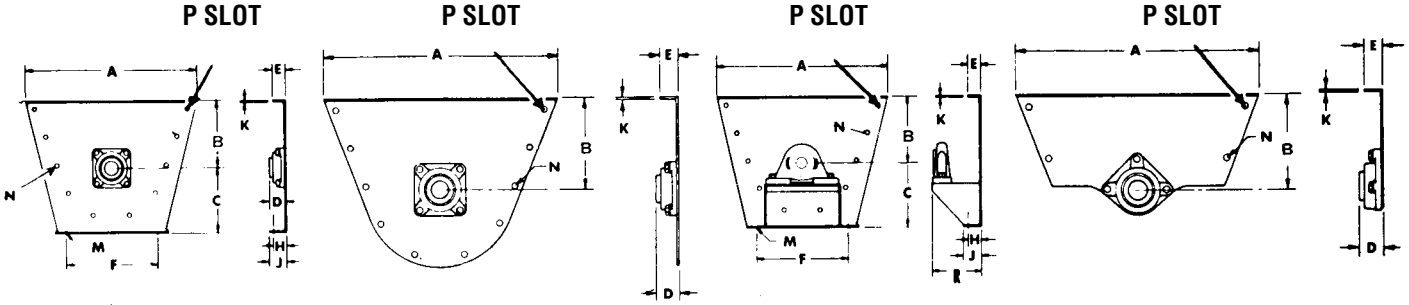
Double bearing pedestal type trough ends are for use with pillow block bearing in conjunction with a flanged bearing providing extra shaft support.





Conveyor Diameter	Shaft Diameter	Part Number	B	C	E	F	H	K	L	M	N	R	P Slot	Weight
6	1½	6TEOD3	Consult Factory											
9	1½ 2	9TEOD3 9TEOD4												
10	1½ 2	10TEOD3 10TEOD4												
12	2 2 7/16 3	12TEOD4 12TEOD5 12TEOD6												
14	2 7/16 3	14TEOD5 14TEOD6												
16	3	16TEOD6												
18	3 3 7/16	18TEOD6 18TEOD7												
20	3 3 7/16	20TEOD6 20TEOD7												
24	3 7/16	24TEOD7												

Trough Ends



Outside With Feet | **Outside Less Feet** | **Outboard Bearing** | **Discharge**

Application: same as standard trough ends except for flared trough.

Conveyor Diameter	Shaft Diameter	A	B	C	D			E	F	H	J	K	M	N	R	P Slot
					Friction Bearing	Ball Bearing	Roller Bearing									
6	1½	16⅝	7	5⅝	3 3/16	2 3/16	3¾	1½	8⅛	1	1¾	¼	⅜	⅜	Consult Factory	7/16 × 9/16
9	1½	21¼	9	7⅞	3¼	2 3/16	3¾	1⅝	9⅜	1½	2⅝	¼	½	⅜		7/16 × 9/16
	2	21¼	9	7⅞	4¼	2½	3⅞	1⅝	9⅜	1½	2⅝	¼	½	⅜		7/16 × 9/16
12	2	26⅜	10	9⅝	4¼	2 9/16	3⅞	2	12¼	1⅝	2¾	¼	⅝	½		9/16 × 11/16
	2 7/16	26⅜	10	9⅝	5¼	2 15/16	4½	2	12¼	1⅝	2¾	¼	⅝	½		9/16 × 11/16
	3	26⅜	10	9⅝	6¼	3¾	5	2	12¼	1⅝	2¾	¼	⅝	½		9/16 × 11/16
14	2 7/16	28⅜	11	10⅞	5 5/16	2 15/16	4½	2	13½	1⅝	2⅞	¼	⅝	½		9/16 × 11/16
	3	28⅜	11	10⅞	6 5/16	3¾	5	2	13½	1⅝	2⅞	5/16	⅝	½		9/16 × 11/16
16	3	32½	11½	12	6 5/16	3 13/16	5	2½	14⅞	2	3¼	5/16	⅝	⅝		11/16 × 13/16
18	3	36½	12⅛	13⅜	6⅜	3 13/16	5	2½	16	2	3¼	⅜	⅝	⅝		11/16 × 13/16
	3 7/16	36½	12⅛	13⅜	7⅜	4 5/16	5⅝	2½	16	2	3¼	⅜	⅝	⅝		11/16 × 13/16
20	3	39½	13½	15	6⅜	3⅞	5	2½	19¼	2¼	3¾	⅜	¾	⅝		11/16 × 13/16
	3 7/16	39½	13½	15	7⅜	4⅜	5⅝	2½	19¼	2¼	3¾	⅜	¾	⅝		11/16 × 13/16
24	3 7/16	45½	16½	18⅛	7⅜	4⅜	5⅝	2½	20	2½	4⅛	⅜	¾	⅝		11/16 × 13/16

Conveyor Diameter	Shaft Diameter	Part Number							
		Outside With Feet	Weight	Outside Less Feet	Weight	Outboard Bearing	Weight	Discharge	Weight
6	1½	6FTEF3.*	15	6FTE3–*	13	6FTEO3–*	22	6FTDO3–**	11
9	1½	9FTEF3–*	22	9FTE3–*	19	9FTEO3–*	31	9FTDO3–**	15
	2	9FTEF4–*	27	9FTE4–*	24	9FTEO4–*	36	9FTDO4–**	20
12	2	12FTEF4–*	43	12FTE4–*	36	12FTEO4–*	63	12FTDO4–**	28
	2 7/16	12FTEF5–*	44	12FTE5–*	37	12FTEO5–*	64	12FTDO5–**	29
	3	12FTEF6–*	56	12FTE6–*	49	12FTEO6–*	76	12FTDO6–**	41
14	2 7/16	14FTEF5–*	52	14FTE5–*	43	14FTEO5–*	75	14FTDO5–**	33
	3	14FTEF6–*	64	14FTE6–*	55	14FTEO6–*	87	14FTDO6–**	45
16	3	16FTEF6–*	85	16FTE6–*	72	16FTEO6–*	125	16FTDO6–**	56
18	3	18FTEF6–*	98	18FTE6–*	83	18FTEO6–*	138	18FTDO6–**	63
	3 7/16	18FTEF7–*	104	18FTE7–*	89	18FTEO7–*	144	18FTDO7–**	69
20	3	20FTEF6–*	133	20FTE6–*	103	20FTEO6–*	196	20FTDO6–**	75
	3 7/16	20FTEF7–*	139	20FTE7–*	109	20FTEO7–*	202	20FTDO7–**	81
24	3 7/16	24FTEF7–*	179	24FTE7–*	132	24FTEO7–*	250	24FTDO7–**	96

–*BB Ball Bearing
–*BR Bronze Bearing
–*RB Roller Bearing
–*P Less Bearing

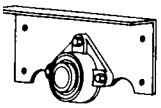
–**BB Ball Bearing
–**BR Bronze Bearing
–**P Less Bearing

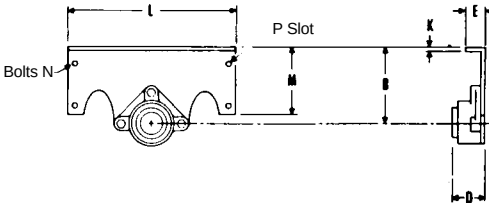
For Bolt Pattern see Page H-40

Trough Ends

Outside Discharge

Outside discharge trough ends are used to support end bearing and will allow material to discharge or overflow through the end of the trough. Drilling for three bolt bronze or flanged ball bearing is standard.

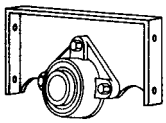


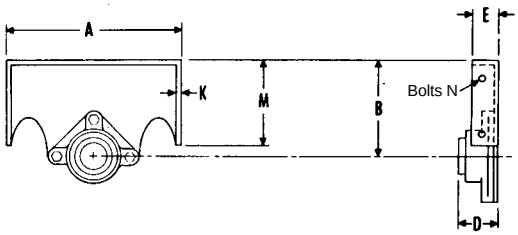


Conveyor Diameter	Shaft Diameter	Part Number	B	D			E	K	L	M	N	P Slot	Weight
				Friction Bearing	Ball Bearing	Roller Bearing							
4	1	4TDO2.*	3⅝	2⁹⁄₁₆	1⅝		2	¼	8	3⅝	⅜	7⁄16 × 9⁄16	2
6	1½	6TDO3–*	4½	3⁹⁄₁₆	2⁹⁄₁₆	3¹¹⁄₁₆	2	¼	9¾	4½	⅜	7⁄16 × 9⁄16	3
9	1½	9TDO3–*	6⅛	3¼	2⁹⁄₁₆	3¹¹⁄₁₆	2	¼	13¾	6⅛	⅜	7⁄16 × 9⁄16	5
	2	9TDO4–*	6⅛	4¼	2½	3¹³⁄₁₆	2	¼	13¾	6⅛	⅜	7⁄16 × 9⁄16	5
10	1½	10TDO3–*	6⅜	3¼	2⁹⁄₁₆	3¹¹⁄₁₆	2	¼	14¾	6⅜	⅜	7⁄16 × 9⁄16	6
	2	10TDO4–*	6⅜	4¼	2½	3¹³⁄₁₆	2	¼	14¾	6⅜	⅜	7⁄16 × 9⁄16	6
12	2	12TDO4–*	7¾	4¼	2⁹⁄₁₆	3⅞	2	¼	17½	7¾	½	9⁄16 × ¾	12
	2⁷⁄₁₆	12TDO5–*	7¾	5¼	2¹⁵⁄₁₆	4⁷⁄₁₆	2	¼	17½	7¾	½	9⁄16 × ¾	12
	3	12TDO6–*	7¾	6¼	3¾	4¹⁵⁄₁₆	2	¼	17½	7¾	½	9⁄16 × ¾	12
14	2⁷⁄₁₆	14TDO5–*	9¼	5⁵⁄₁₆	2¹⁵⁄₁₆	4⁷⁄₁₆	2	¼	19¼	9¼	⅝	9⁄16 × ¾	17
	3	14TDO6–*	9¼	6⁵⁄₁₆	3¾	4¹⁵⁄₁₆	2	⁵⁄₁₆	19¼	9¼	⅝	9⁄16 × ¾	17
16	3	16TDO6–*	10⅝	6⁵⁄₁₆	3¹³⁄₁₆	5	2	⁵⁄₁₆	21⅛	10⅝	⅝	11⁄16 × ⅞	26
18	3	18TDO6–*	12⅛	6⅜	3¹³⁄₁₆	5	2	⅜	23½	12⅛	⅝	11⁄16 × ⅞	33
	3⁷⁄₁₆	18TDO7–*	12⅛	7⅜	4⁵⁄₁₆	5⁵⁄₁₆	2	⅜	23½	12⅛	⅝	11⁄16 × ⅞	33
20	3	20TDO6–*	13½	6⅜	3⅞	5¹⁄₁₆	2	⅜	26¾	13½	⅝	11⁄16 × ⅞	55
	3⁷⁄₁₆	20TDO7–*	13½	7⅜	4⅜	5⅝	2	⅜	26¾	13½	⅝	11⁄16 × ⅞	55
24	3⁷⁄₁₆	24TDO7–*	16½	7⅜	4⅜	5⅝	2	⅜	30½	16½	⅝	11⁄16 × ⅞	81

Inside Discharge

Inside discharge trough ends are used to support end bearing and will allow material to discharge or overflow through the end of the trough. This trough end is used inside the trough where no trough end flanges are required. Drilling for three bolt bronze or flanged ball bearing is standard.



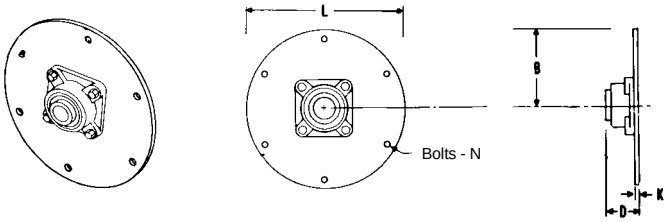


Conveyor Diameter	Shaft Diameter	Part Number	A	B	D			E	K	M	N	Weight
					Friction Bearing	Ball Bearing	Roller Bearing					
4	1	4TDI2–*	5	3⅝	2⁹⁄₁₆	1⅝		2	¼	3⅝	⅜	2
6	1½	6TDI3–*	7	4½	3⁹⁄₁₆	2⁹⁄₁₆	3¹¹⁄₁₆	2	¼	4½	⅜	3
9	1½	9TDI3–*	10	6⅛	3¼	2⁹⁄₁₆	3¹¹⁄₁₆	2	¼	6⅛	⅜	5
	2	9TDI4–*	10	6⅛	4¼	2½	3¹³⁄₁₆	2	¼	6⅛	⅜	5
10	1½	10TDI3–*	11	6⅜	3¼	2⁹⁄₁₆	3¹¹⁄₁₆	2	¼	6⅜	⅜	6
	2	10TDI4–*	11	6⅜	4¼	2½	3¹³⁄₁₆	2	¼	6⅜	⅜	6
12	2	12TDI4–*	13	7¾	4¼	2⁹⁄₁₆	3⅞	2	¼	7¾	½	12
	2⁷⁄₁₆	12TDI5–*	13	7¾	5¼	2¹³⁄₁₆	4⁷⁄₁₆	2	¼	7¾	½	12
	3	12TDI6–*	13	7¾	6¼	3¾	4¹⁵⁄₁₆	2	¼	7¾	½	12
14	2⁷⁄₁₆	14TDI5–*	15	9¼	5⁵⁄₁₆	2¹⁵⁄₁₆	4⁷⁄₁₆	2	¼	9¼	⅝	16
	3	14TDI6–*	15	9¼	6⁵⁄₁₆	3¾	4¹⁵⁄₁₆	2	⁵⁄₁₆	0.9¼	⅝	16
16	3	16TDI6–*	17	10⅝	6⁵⁄₁₆	3¹³⁄₁₆	5	2	⁵⁄₁₆	10⅝	⅝	25
18	3	18TDI6–*	19	12⅛	6⅜	3¹³⁄₁₆	5	2	⅜	12⅛	⅝	32
	3⁷⁄₁₆	18TDI7–*	19	12⅛	7⅜	4⁵⁄₁₆	5⁵⁄₁₆	2	⅜	12⅛	⅝	32
20	3	20TDI16–*	21	13½	6⅜	3⅞	5⁵⁄₁₆	2	⅜	13½	⅝	50
	3⁷⁄₁₆	20TDI7–*	21	13½	7⅜	4⅜	5⅝	2	⅜	13½	⅝	50
24	3⁷⁄₁₆	24TDI7–*	25	16½	7⅜	4⅜	5⅝	2	⅜	16½	⅝	76

–*BB Ball Bearing
–*BR Bronze Bearing
–*P Less Bearing

Outside

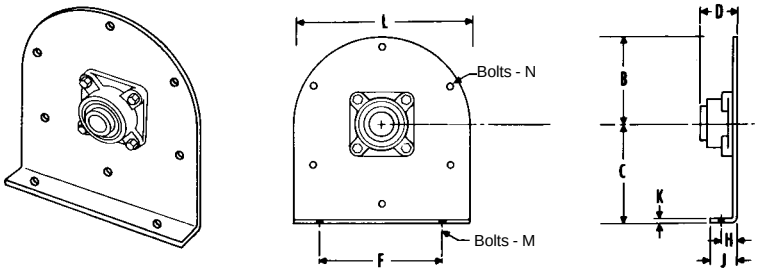
Outside tubular trough ends less feet are used to support end bearings on tubular trough where no foot or support is required. Drilling for bronze or flanged ball bearing is standard.



Conveyor Diameter	Shaft Diameter	Part Number	B	D			K	L	N	Weight
				Friction Bearing	Ball Bearing	Roller Bearing				
4	1	4CHTE2–*	3⅞	2⁹⁄₁₆	1⅝		¼	8	⅜	2
6	1½	6CHTE3–*	5¹⁄₁₆	3⁹⁄₁₆	2⁹⁄₁₆	3¹¹⁄₁₆	¼	10⅛	⅜	3
9	1½	9CHTE3–*	6¹⁹⁄₃₂	3¼	2⁹⁄₁₆	3¹¹⁄₁₆	¼	13¼	⅜	6
	2	9CHTE4–*	6¹⁹⁄₃₂	4¼	2½	3¹³⁄₁₆	¼	13¼	⅜	6
10	1½	10CHTE3–*	7⅜	3¼	2⁹⁄₁₆	3¹¹⁄₁₆	¼	14¾	⅜	7
	2	10CHTE4–*	7⅜	4¼	2½	3¹³⁄₁₆	¼	14¾	⅜	7
12	2	12CHTE4–*	8⅛	4¼	2⁹⁄₁₆	3⅞	¼	16¼	½	13
	2⁷⁄₁₆	12CHTE5–*	8⅛	5¼	2¹⁵⁄₁₆	4⁷⁄₁₆	¼	16¼	½	13
	3	12CHTE6–*	8⅛	6¼	3¾	4¹⁵⁄₁₆	¼	16¼	½	13
14	2⁷⁄₁₆	14CHTE5–*	9⅛	5⁵⁄₁₆	2¹⁵⁄₁₆	4⁷⁄₁₆	¼	18¼	½	19
	3	14CHTE6–*	9⅛	6⁵⁄₁₆	3¾	4¹⁵⁄₁₆	⁵⁄₁₆	18¼	½	19
16	3	16CHTE6–*	10⅝	6⁵⁄₁₆	3¹³⁄₁₆	5	⁵⁄₁₆	21¼	⅝	29
18	3	18CHTE6–*	12⅛	6⅜	3¹³⁄₁₆	5	⅜	24¼	⅝	39
	3⅜₁₆	18CHTE7–*	12⅛	7⅜	4⁵⁄₁₆	5⁵⁄₁₆	⅜	24¼	⅝	39
20	3	20CHTE6–*	13⅛	6⅜	3⅞	5¹⁄₁₆	⅜	26¼	⅝	63
	3⅜₁₆	20CHTE7–*	13⅛	7⅜	4⅜	5⅝	⅜	26¼	⅝	63
24	3⅜₁₆	24CHTE7–*	15⅛	7⅜	4⅜	5⅝	⅜	30¼	⅝	87

Outside with Feet

Outside tubular trough ends with feet are used to support end bearing where trough support is required. Drilling for bronze bearing or flanged ball bearing is standard.



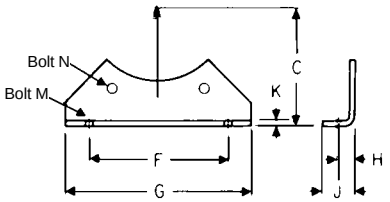
Conveyor Diameter	Shaft Diameter	Part Number	B	C	D			F	H	J	K	L	M	N	Weight
					Friction Bearing	Ball Bearing	Roller Bearing								
4	1	4CHTEF2–*	3⅞	4⅝	2⁹⁄₁₆	1⅝		5¾	1	1⅝	¼	8	⅜	⅜	3
6	1½	6CHTEF3–*	5¹⁄₁₆	5⅝	3⁹⁄₁₆	2⁹⁄₁₆	3¹¹⁄₁₆	8⅛	1	1¾	¼	10⅛	⅜	⅜	5
9	1½	9CHTEF3–*	6¹⁹⁄₃₂	7⅛	3¼	2⁹⁄₁₆	3¹¹⁄₁₆	9⅜	1½	2⅝	¼	13¼	½	⅜	10
	2	9CHTEF4–*	6¹⁹⁄₃₂	7⅛	4¼	2½	3¹³⁄₁₆	9⅜	1½	2⅝	¼	13¼	½	⅜	10
10	1½	10CHTEF3–*	7⅜	8⅛	3¼	2⁹⁄₁₆	3¹¹⁄₁₆	9½	1¾	2⅛	¼	14¾	½	⅜	12
	2	10CHTEF4–*	7⅜	8⅛	4¼	2½	3¹³⁄₁₆	9½	1¾	2⅛	¼	14¾	½	⅜	12
12	2	12CHTEF4–*	8⅛	9⅝	4¼	2⁹⁄₁₆	3⅞	12¼	1⅝	2¾	¼	16¼	⅝	½	22
	2⁷⁄₁₆	12CHTEF5–*	8⅛	9⅝	5¼	2¹⁵⁄₁₆	4⁷⁄₁₆	12¼	1⅝	2¾	¼	16¼	⅝	½	22
	3	12CHTEF6–*	8⅛	9⅝	6¼	3¾	4¹⁵⁄₁₆	12¼	1⅝	2¾	¼	16¼	⅝	½	22
14	2⁷⁄₁₆	14CHTEF5–*	9⅛	10⅞	5⁵⁄₁₆	2¹⁵⁄₁₆	4⁷⁄₁₆	13½	1⅝	2⅞	¼	18¼	⅝	½	24
	3	14CHTEF6–*	9⅛	10⅞	6⁵⁄₁₆	3¾	4¹⁵⁄₁₆	13½	1⅝	2⅞	⁵⁄₁₆	18¼	⅝	½	24
16	3	16CHTEF6–*	10⅝	12	6⁵⁄₁₆	3¹³⁄₁₆	5	14⅞	2	3¼	⁵⁄₁₆	21¼	⅝	⅝	44
18	3	18CHTEF6–*	12⅛	13⅜	6⅜	3¹³⁄₁₆	5	16	2	3¼	⅜	24¼	⅝	⅝	56
	3⅜₁₆	18CHTEF7–*	12⅛	13⅜	7⅜	4⁵⁄₁₆	5⁵⁄₁₆	16	2	3¼	⅜	24¼	⅝	⅝	56
20	3	20CHTEF6–*	13⅜	15	6⅜	3⅞	5¹⁄₁₆	19¼	2¼	3¾	⅜	26¼	¾	⅝	92
	3⅜₁₆	20CHTEF7–*	13⅜	15	7⅜	4⅜	5⅝	19¼	2¼	3¾	⅜	26¼	¾	⅝	92
24	3⅜₁₆	24CHTEF7–*	15⅜	18⅜	7⅜	4⅜	5⅝	20	2½	4⅛	⅜	30¼	¾	⅝	134

–*BB Ball Bearing

–*BR Bronze Bearing
–*RB Roller Bearing

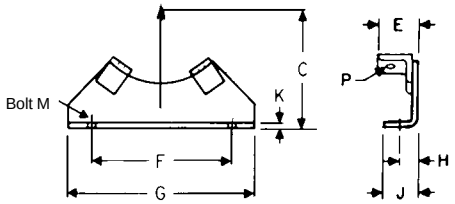
For Bolt Pattern see Page H-40

Saddles — Feet
Trough End Flanges



Flange Foot

Trough feet are used to support trough at trough connections.



Saddle

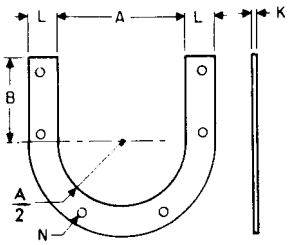
Trough saddles are used to support trough where flange feet cannot be used at connections.

Conveyor Diameter	Part Number		Weight	
	Saddle	Flange Foot	Saddle	Flange Foot
4	4TS	4TFF	1.5	1.5
6	6TS	6TFF	2.0	2.0
9	9TS	9TFF	4.5	4.5
10	10TS	10TFF	5.0	5.0
12	12TS	12TFF	6.0	6.0
14	14TS	14TFF	7.0	7.0
16	16TS	16TFF	8.0	7.5
18	18TS	18TFF	10	9.5
20	20TS	20TFF	13	12.5
24	24TS	24TFF	15	14.5

Conveyor Diameter	C	E	F	G	H	J	K	M*	N	P
4	4⅝	1 3/16	5¾	7⅜	⅞	1½	3/16	⅜	⅜	¼
6	5⅝	1 3/16	8⅛	10	1 3/16	1½	3/16	⅜	⅜	¼
9	7⅛	1½	9⅜	12	1 5/16	2½	3/16	½	⅜	⅜
10	8⅛	1½	9½	12⅜	1 9/16	2½	3/16	⅝	⅜	⅜
12	9⅝	1½	12¼	15	1⅜	2½	¼	⅝	½	½
14	10⅛	1¾	13½	16½	1⅜	2½	¼	⅝	½	½
16	12	1¾	14⅞	18	1¾	3	¼	⅝	⅝	½
18	13⅜	1¾	16	19⅛	1¾	3	¼	⅝	⅝	½
20	15	2¼	19¼	22¾	2	3½	¼	¾	⅝	⅝
24	18⅛	2¼	20	24	2¼	4	¼	¾	⅝	⅝

*Holes for Bolt M Slotted ① Add –F for Fitted

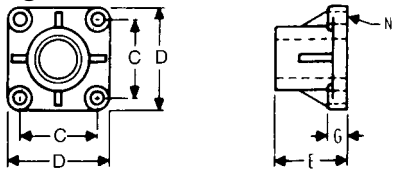
Trough End Flanges



Size	Part No.	A Trough Thickness Thru 10 Ga.	A Trough Thickness 3/16 & ¼	B	K	L	N	Weight	Red Rubber Gasket Part No.
4	4TF*	5¼	5⅜	3⅜	¼	1¼	⅜	.09	4TFG
6	6TF*	7¼	7⅜	4¼	¼	1½	⅜	1.5	6TFG
9	9TF*	10¼	10½	5⅞	¼	1¾	⅜	2.4	9TFG
10	10TF*	11¼	11½	6⅛	¼	1¾	⅜	2.6	10TFG
12	12TF*	13¼	13½	7½	¼	2	½	5.6	12TFG
14	14TF*	15¼	15½	9	¼	2	½	6.5	14TFG
16	16TF*	17¼	17½	10⅜	¼	2	⅝	7.4	16TFG
18	18TF*	19¼	19½	11 3/16	¼	2½	⅝	10.2	18TFG
20	20TF*	21¼	21½	13 3/16	¼	2½	⅝	11.3	20TFG
24	24TF*	25¼	25½	16½	¼	2½	⅝	15.5	24TFG

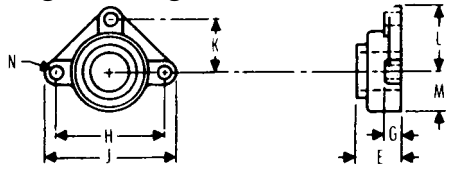
*–10 used for troughs through 10 ga. *–3 used for troughs 3/16 and ¼ thick

Bronze Flange Unit



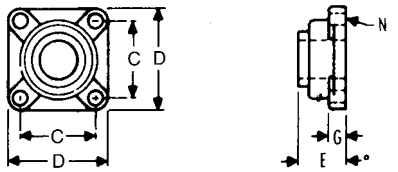
Bore	Part Number	C	D	E	G	N
1	TEB2BR	2¾	3¾	2	7/16	3/8
1½	TEB3BR	4	5⅜	3¼	¾	½
2	TEB4BR	5⅛	6½	4 3/16	⅞	⅝
2 7/16	TEB5BR	5⅝	7⅜	4 15/16	1	⅝
3	TEB6BR	6	7¾	5 11/16	1⅛	¾
3 7/16	TEB7BR	6¾	9¼	6¼	1¼	¾

Ball Bearing Discharge Unit



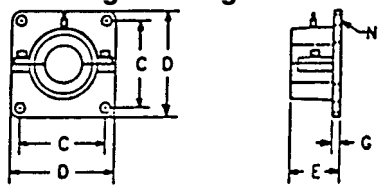
Bore	Part Number	E	G	H	J	K	L	M	N
1	TDB2BB	1⅜	½	3⅜	5⅜	1 15/16	2 11/16	2	⅜
1½	TDB3BB	2	9/16	5⅝	7¼	2 13/16	3⅝	2½	½
2	TDB4BB	2⅛	⅝	7¼	8	3⅝	4	3	½
2 7/16	TDB5BB	2½	11/16	8	9⅞	4	4 15/16	3½	⅝
3	TDB6BB	3½	⅞	8½	11	4¼	5½	4	¾
3 7/16	TDB7BB	4	1	9½	12	4¾	6	4½	¾

Ball Bearing Flange Unit



Bore	Part Number	C	D	E	G	N
1	TEB2BB	2¾	3¾	1⅜	½	⅜
1½	TEB3BB	4	5⅜	2	9/16	½
2	TEB4BB	5⅛	6½	2⅜	11/16	⅝
2 7/16	TEB5BB	5⅝	7	2½	11/16	⅝
3	TEB6BB	6	7¾	3½	⅞	¾
3 7/16	TEB7BB	6¾	8 7/16	4	1	¾

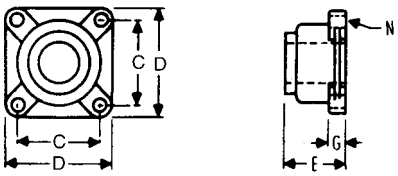
Trough End Bearing Housing



Bore	Part Number	C	D	E	G	N
1½	TEBH3	4	5¼	2½	½	½
2	TEBH4	5⅛	6⅜	2½	½	½
2 7/16	TEBH5	5⅜	6⅞	3 9/16	9/16	⅝
3	TEBH6	6	7¾	3⅝	⅝	¾
3 7/16	TEBH7	7	9¼	4¾	¾	¾

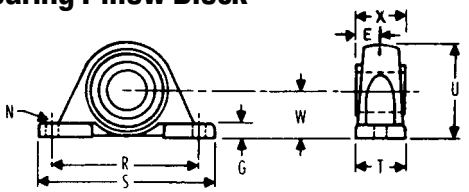
Use #220 Type Hanger Bearings, See Page H-90

Roller Bearing Flange Unit



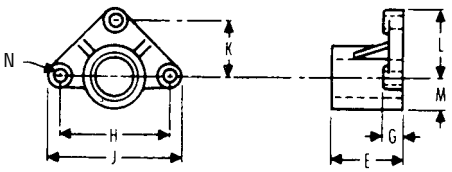
Bore	Part Number	C	D	E	G	N
1½	TEB3R	4⅛	5⅜	3½	1 3/16	½
2	TEB4R	4⅜	5⅝	3⅝	1 3/16	½
2 7/16	TEB5R	5⅜	6⅞	4 3/16	1½	⅝
3	TEB6R	6	7¾	4 11/16	1⅝	¾
3 7/16	TEB7R	7	9¼	5¼	1⅞	¾

Ball Bearing Pillow Block



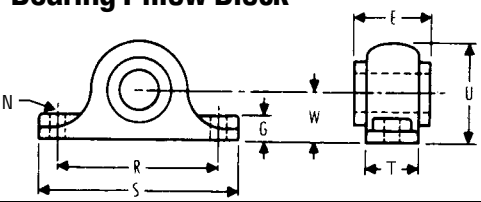
Bore	Part Number	E	G	N	R	S	T	U	W	X
1	TPB2BB	13/16	13/16	⅜	4⅛	5⅛	1½	3 3/16	1 7/16	1⅜
1½	TPB3BB	1 13/16	1¼	½	5⅜	6⅞	2	4⅛	2⅛	1 15/16
2	TPB4BB	1 13/16	1⅜	⅝	6¼	7¾	2¼	4 9/16	2¼	2 3/16
2 7/16	TPB5BB	1 13/16	1⅝	⅝	7¼	9	2½	5½	2¾	2 9/16
3	TPB6BB	1 15/16	2⅛	⅞	9	11⅝	3½	7⅛	3½	3¼
3 7/16	TPB7BB	2¼	2⅜	⅞	11⅛	13⅞	4⅜	8¼	4	3⅜

Bronze Discharge Unit



Bore	Part Number	E	G	H	J	K	L	M	N
1	TDB2BR	2	½	3⅜	5⅜	1 15/16	2 11/16	1	⅜
1½	TDB3BR	3¼	9/16	5⅝	7¼	2 13/16	3⅜	1¼	½
2	TDB4BR	4 3/16	⅝	7¼	8	3⅝	4	1⅝	⅝
2 7/16	TDB5BR	4 15/16	11/16	8	9⅞	4	4 15/16	1⅞	⅝
3	TDB6BR	5 11/16	⅞	8½	11	4¼	5½	2⅛	¾
3 7/16	TDB7BR	6¼	1	9½	12	4¾	6	2½	¾

Roller Bearing Pillow Block

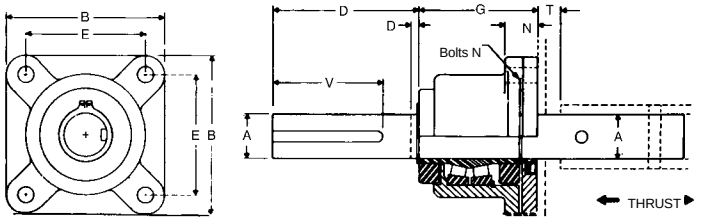


Bore	Part Number	E	G	N	R	S	T	U	W
1½	TPB3R	3⅜	1¼	½	6¼	7⅞	2⅜	4¼	2⅛
2	TPB4R	3½	1⅜	⅝	7	8⅞	2½	4½	2¼
2 7/16	TPB5R	4	1⅝	⅝	8½	10½	2⅞	5½	2¾
3	TPB6R	4½	1⅞	¾	9½	12	3⅜	6¼	3⅛
3 7/16	TPR7R	5	2¼	⅞	11	14	3⅝	7½	3¾

Thrust Bearings

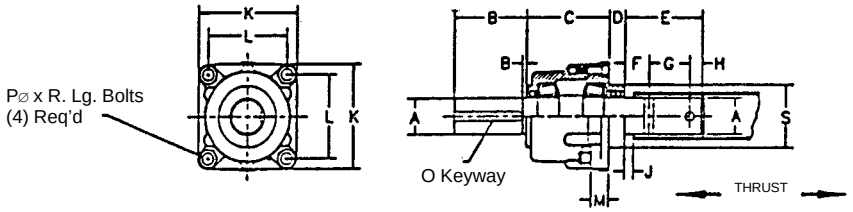
Type E Thrust Assembly

Type E roller thrust bearings are designed to carry thrust in both directions and carry radial load under normal conditions. This double roller bearing is furnished with a lip type seal plate and either drive or tail shaft whichever is applicable to conveyor design.



A Shaft Diameter	Part Number Drive Shaft	Part Number End Shaft	B	D Drive Shaft	D End Shaft	E	G	H	N	T	V	Weight Drive Shaft	Weight End Shaft
1½	CT3D	CT3E	5⅜	4¾	¾	4⅛	4	1 11/16	½	1¼	4	22	20
2	CT4D	CT4E	5⅜	5	¾	4⅜	4⅛	1 11/16	½	1¼	4½	32	29
2 7/16	CT5D	CT5E	6⅞	5½	¾	5⅜	4 11/16	2	⅝	1 13/16	5	50	44
3	CT6D	CT6E	7¾	6½	¾	6	5 3/16	2⅛	¾	1⅞	6	73	60
3 7/16	CT7D	CT7E	9¼	7½	¾	7	6	2⅜	¾	2⅜	7	111	88

Heavy Duty RB End Thrust Bearings

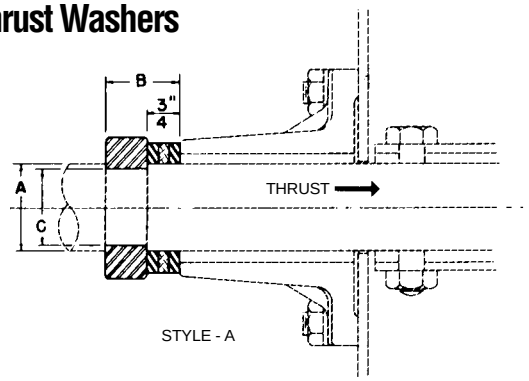


Dimensions in inches and average weight in pounds

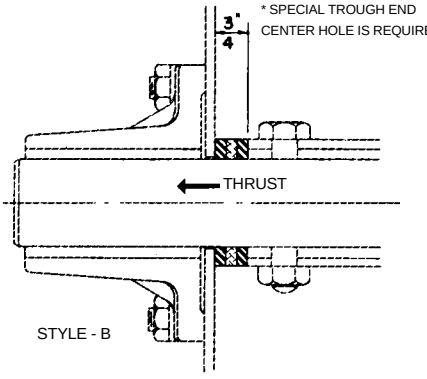
A Shaft Dia.	With Drive Shaft Part No.	With Drive Shaft Weight	With Tail Shaft Part No.	With Tail Shaft Weight	B Drive Shaft	B End Shaft	C	D	E	F	G	H	J	K	L	M	O Keyway	P	R	S
1½	CTH3D	60	CTH3E	52	4½	¼	6¾	1⅛	4⅞	1	3	⅞	⅛	7¼	5¾	1 3/16	⅜ × 4¼	¾	2½	4¾
2	CTH4D	65	CTH4E	56	4½	¼	6¾	1⅛	4⅞	1	3	⅞	⅛	7¼	5¾	1 3/16	⅜ × 4¼	¾	2½	4¾
2 7/16	CTH5D	80	CTH5E	66	5 5/16	5/16	6¼	1¼	5 7/16	1½	3	15/16	9/16	8	6¼	1½	⅝ × 5¼	¾	3	5½
3	CTH6D	145	CTH6E	119	6⅛	¼	8¼	1½	5⅜	1⅜	3	1	⅜	10	8	1¾	¾ × 5¼	1	3½	6
3 7/16	CTH7D	170	CTH7E	140	7⅛	⅜	8¼	1½	7⅜	2⅜	4	1¼	⅞	10	8	1¾	⅞ × 6¾	1	3½	6

Other shaft sizes available are 3 15/16″, 4 7/16″ & 4 15/16″. Please consult factory.

Thrust Washers

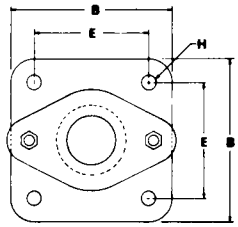


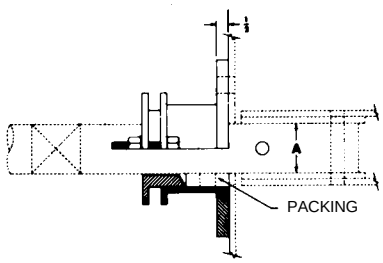
Thrust washers are designed for use where light thrust loads prevail. Style A or B mounting may be used depending on direction of thrust. This unit consists of two steel washers separated by one bronze washer, and Style B is not recommended for use in conveyors handling abrasive materials.



A Size Shaft	Washers & Collar Style A Part No.	Washers & Collar Style A Weight	Washer Set Style B Part No.	Washer Set Style B Weight	B	C
1½	CTCW3	2.4	CTW3	1	1¼	1¼
2	CTCW4	2.8	CTW4	1.25	1 1/16	1¾
2 7/16	CTCW5	3.9	CTW5	1.5	1½	2⅛
3	CTCW6	4.6	CTW6	2	1½	2¾
3 7/16	CTCW7	6.1	CTW7	3	1⅝	3¼

Compression Type Packing Gland Seal



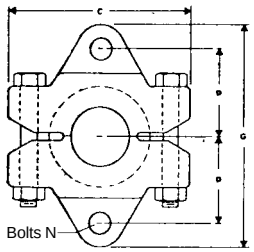


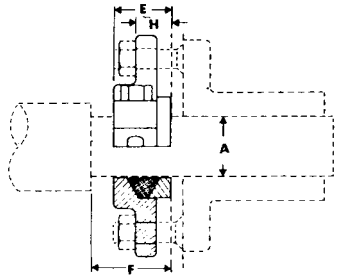
A Shaft Diameter	Part Number	B	E	H Bolts	Weight
1½	PGC3	5	4	½	14
2	PGC4	7⅛	5⅛	⅝	18
2 7/16	PGC5	7⅝	5⅝	⅝	21
3	PGC6	8½	6	¾	27
3 7/16	PGC7	9¼	6¾	¾	30

*Braided rope graphite packing is standard. Other types available on request.

Flanged gland seals consist of an external housing and an internal gland which is forced into the housing to compress the packing. This is the most positive type shaft seal and may be used where pressure requirements are desired.

Split Gland Seal

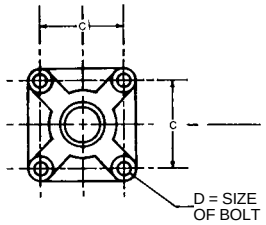


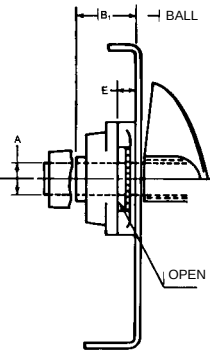


A Shaft Diameter	Part Number	C	D	E	F	G	H	N	Weight
1½	CSS3	4¾	2 3/16	1 7/16	2½	5⅞	⅞	½	5
2	CSS4	6¼	2⅝	1½	2½	6½	⅞	½	10
2 7/16	CSS5	6⅞	3 1/16	1⅝	3¼	7⅝	1	⅝	15
3	CSS6	7½	3 3/16	1⅝	3¼	8⅝	1	⅝	22
3 7/16	CSS7	8¾	4⅛	2⅛	3¾	10¼	1¼	¾	30

Split gland compression type seals provide for easy replacement and adjustment of packing pressure on the shaft without removal of the conveyor. These seals are normally installed inside the end plates.

Flanged Product Drop-Out Seal





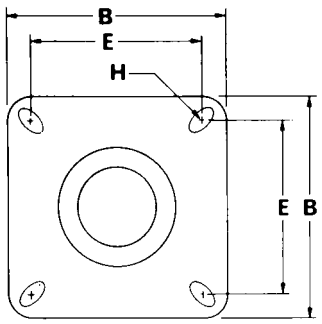
Dimensions in inches and average weight in pounds

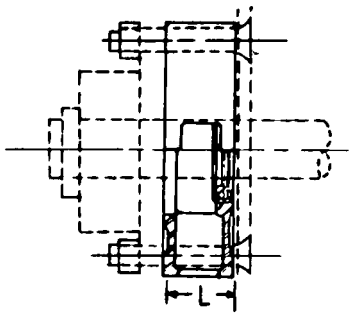
A Shaft Diameter	Part Number	Weight	B_1	C	E	D
1	CSFP2	1.75	2⅛	2¾	1 1/16	7/16
1½	CSFP3	3.4	2 57/64	4	⅞	½
2	CSFP4	5.3	3 3/16	5⅛	⅞	⅝
2 7/16	CSFP5	5.8	3 3/16	5⅝	⅞	⅝
3	CSFP6	7.2	4⅜	6	⅞	¾
3 7/16	CSFP7	—	4 31/32	6¾	1	¾

This flange type dust seal is designed for insertion between trough end and flanged bearing. The cast iron housing is open on all four sides for exit of material that might work past seal or lubricant from bearing.

Shaft Seals

Waste Pack Seal



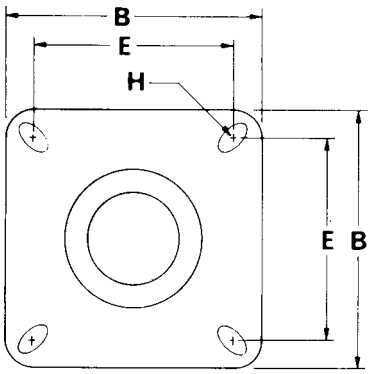


With Lip Seal

Waste pack seals are furnished with waste packing in combination with lip seal. This type seal is normally installed between the trough end and bearing, but may be used separtely on pedestal type trough ends. An opening is provided at top for repacking without removing seal from trough end.

A Shaft	Part Number	B	L	E		H Bolts		Weight
				(–B)	(–R)	(–B)	(–R)	
1½	CSW3	5⅜	1¾	4	4⅛	½	½	6
2	CSW4	6½	1¾	5⅛	4⅜	⅝	½	8
2 7/16	CSW5	7⅜	1¾	5⅝	5⅜	⅝	⅝	10
3	CSW6	7¾	1¾	6	6	¾	¾	13
3 1/16	CSW7	9¼	2¼	6¾	7	¾	¾	16

Plate Seal



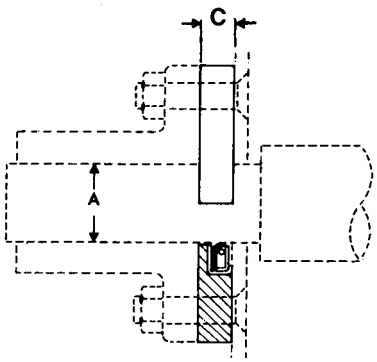
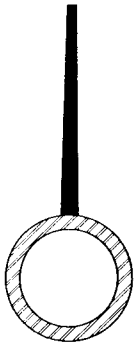


Plate seals are the most common and economical seal. They are furnished with a lip seal. This type seal is normally installed between the trough end and bearing, but may be used separately on pedestal type trough ends. Slotted mounting holes allow use with both ball and roller flanged bearings.

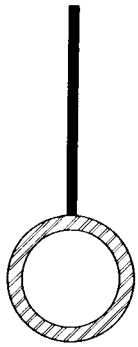
A Shaft Diameter	Part Number	B	C	E		H Bolts		Weight
				(–B)	(–R)	(–B)	(–R)	
1½	CSP3	5⅜	½	4	4⅛	½	½	2
2	CSP4	6½	½	5⅛	4⅜	⅝	½	3
2 7/16	CSP5	7⅜	½	5⅝	5⅜	⅝	⅝	4
3	CSP6	7¾	½	6	6	¾	¾	5
3 1/16	CSP7	9¼	¾	6¾	7	¾	¾	8

Helicoid flights are formed in a special rolling machine by forming a steel strip into a continuous one-piece helix of the desired diameter, pitch and thickness to fit conveyor screw pipes. The helicoid flight is tapered in cross section, with the thickness at the inner edge approximately twice the thickness of the outer edge.

Sectional flights are individual flights or turns blanked from steel plates and formed into a spiral or helix of the desired diameter and pitch to fit conveyor screw pipes. The flights are butt welded together to form a continuous conveyor screw. Modifications can be furnished, such as, fabrication from various metals, different flight thicknesses, other diameters and pitches. The buttweld flight is the same thickness in the full cross section.



Helicoid Flight



Sectional Flight

Key to Conveyor Size Designation

The letter "H" indicates screw conveyor with helicoid flighting. The figures to the left of the letters indicate the nominal outside diameter of the conveyor in inches. The first figure following the letters is twice the diameter of the couplings in inches. The last two figures indicate the nominal thickness of flighting at the outer edge in 1/64″. Thus conveyor 12H408 indicates 12″ diameter helicoid conveyor for 2″ couplings with flighting 8/64″ or 1/8″ thickness at outer edge. Hand of conveyor is indicated by "R" or "L" following the designation.

Comparison Table • helicoid flight and sectional flight conveyor screws

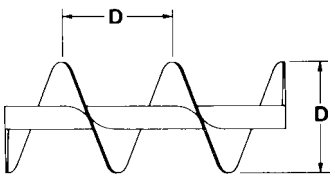
Screw Diameter, Inches	Helicoid Flight						Sectional Flight			
	Conveyor Screw Size Designation ▲	Former Designation	Coupling Diameter, Inches	Nominal Inside Diameter of Pipe, Inches	Thickness of Flight, Inches		Conveyor Screw Size Designation ▲	Coupling Diameter, Inches	Nominal Inside Diameter of Pipe, Inches	Thickness of Flight
					Inner Edge	Outer Edge				
4	4H206	4X	1	1¼	3/16	3/32				
6	6H304	6 Standard	1½	2	1/8	1/16				
	6H308	6 X	1½	2	1/4	1/8	6S309	1½	2	10 ga.
	6H312	6 XX	1½	2	3/8	3/16	6S312	1½	2	3/16 in.
9	9H306	9 Standard	1½	2	3/16	3/32	9S307	1½	2	12 ga.
	9H406	9 Special	2	2½	3/16	3/32	9S407	2	2½	12 ga.
	9H312	9 X	1½	2	3/8	3/16	9S312	1½	2	3/16 in.
	9H412	9 XX	2	2½	3/8	3/16	9S412	2	2½	3/16 in.
	9H414	—	2	2½	7/16	7/32	9S416	2	2½	1/4 in.
10	10H306	10 Standard	1½	2	3/16	3/32	10S309	1½	2	10 ga.
	10H412	10 XX	2	2½	3/8	3/16	10S412	2	2½	3/16 in.
12	12H408	12 Standard	2	2½	1/4	1/8	12S409	2	2½	10 ga.
	12H508	12 Special	2 7/16	3	1/4	1/8	12S509	2 7/16	3	10 ga.
	12H412	12 X	2	2½	3/8	3/16	12S412	2	2½	3/16 in.
	12H512	12 XX	2 7/16	3	3/8	3/16	12S512	2 7/16	3	3/16 in.
	12H614	—	3	3½	7/16	7/32	12S616	3	3½	1/4 in.
14	14H508	14 Standard	2 7/16	3	1/4	1/8	14S509	2 7/16	3	10 ga.
	14H614	14 XX	3	3½	7/16	7/32	14S616	3	3½	1/4 in.
16	16H610	16 Standard	3	3½	5/16	5/32	16S609	3	3½	10 ga.
	16H614	—	3	4	7/16	7/32	16S616	3	3½	1/4 in.

▲ Size designation: Examples: 12H412 and 12S412.
12 = screw diameter in inches
H = helicoid flight
S = sectional flight
4 = 2 times 2″ coupling diameter
12 = thickness of flight at periphery in increments of 1/64″

Conveyor Screws

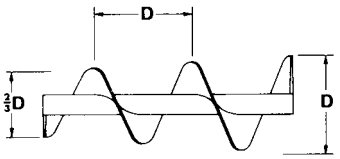
Basic Conveyor Flight and Pitch Types

Standard Pitch, Single Flight



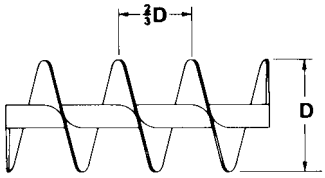
Conveyor screws with pitch equal to screw diameter are considered standard. They are suitable for a wide range of materials in most conventional applications.

Tapered, Standard Pitch, Single Flight



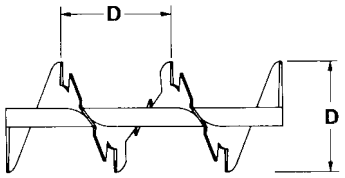
Screw flights increase from ⅔ full diameter. Used in screw feeders to provide uniform withdrawal of lumpy materials. Generally equivalent to and more economical than variable pitch.

Short Pitch, Single Flight



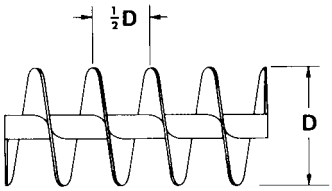
Flight pitch is reduced to ⅔ diameter. Recommended for inclined or vertical applications. Used in screw feeders. Shorter pitch retards flushing of materials which fluidize.

Single Cut-Flight, Standard Pitch



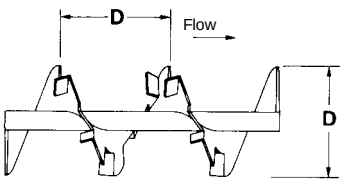
Screws are notched at regular intervals at outer edge. Affords mixing action and agitation of material in transit. Useful for moving materials which tend to pack.

Half Pitch, Single Flight



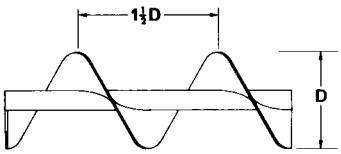
Similar to short pitch, except pitch is reduced to ½ standard pitch. Useful for vertical or inclined applications, for screw feeders and for handling extremely fluid materials.

Cut & Folded Flight, Standard Pitch



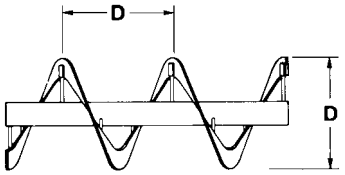
Folded flight segments lift and spill the material. Partially retarded flow provides thorough mixing action. Excellent for heating, cooling or aerating light substances.

Long Pitch, Single Flight



Pitch is equal to 1½ diameters. Useful for agitating fluid materials or for rapid movement of very free-flowing materials.

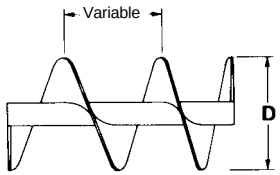
Single Flight Ribbon



Excellent for conveying sticky or viscous materials. Open space between flighting and pipe eliminates collection and build-up of the material.

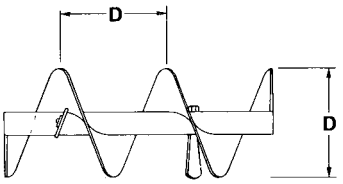
Available in post type or integral leg.

Variable Pitch, Single Flight



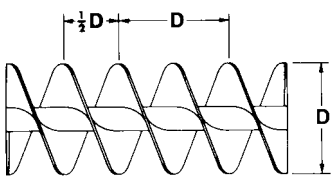
Flights have increasing pitch and are used in screw feeders to provide uniform withdrawal of fine, free-flowing materials over the full length of the inlet opening.

Standard Pitch with Paddles



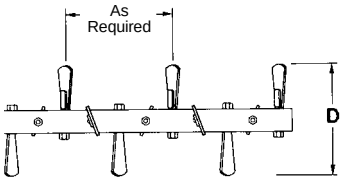
Adjustable paddles positioned between screw flights oppose flow to provide gentle but thorough mixing action.

Double Pitch, Single Flight

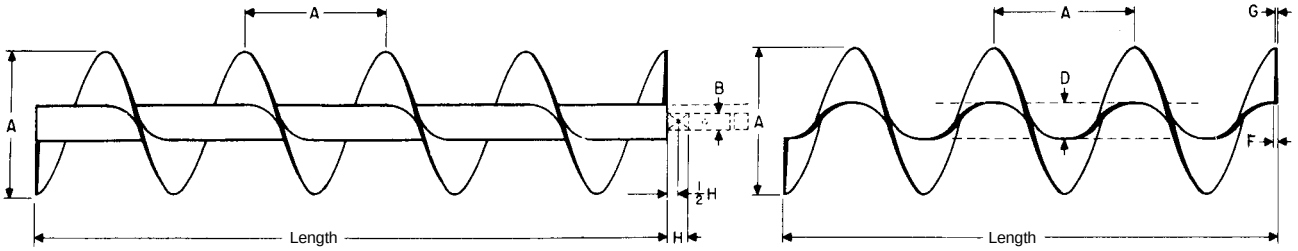


Double flight, standard pitch screws provide smooth, regular material flow and uniform movement of certain types of materials.

Paddle



Adjustable paddles provide complete mixing action, and controlled material flow.



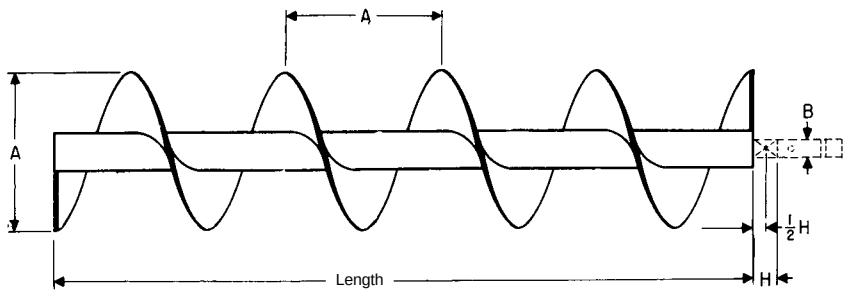
Helicoid Conveyor Screw **Flighting**

A	B	Size Part No. Conveyor Mounted	Size Part No. Flighting Only	D Pipe Size		Flight Thickness		H	Standard Length Feet-Inches	Average Weight			
										Complete Screw		Flighting Only	
Screw Diameter	Coupling Diameter			Inside	Outside	F Inside	G Outside	Coupling Bearing Length		Standard Length	Per Foot	Standard Length	Per Foot
4	1	4H206–*	4HF206–*	1¼	1⅝	3/16	3/32	1½	9-10½	40	4	16	1.3
6	1½	6H304–*	6HF304–*	2	2⅜	⅛	1/16	2	9-10	52	5	14	1.4
	1½	6H308–*	6HF308–*	2	2⅜	¼	⅛	2	9-10	62	6	28	2.8
	1½	6H312–*	6HF312–*	2	2⅜	⅜	3/16	2	9-10	72	7	42	4.3
9	1½	9H306–*	9HF306–*	2	2⅜	3/16	3/32	2	9-10	70	7	31	3.2
	1½	9H312–*	9HF312–*	2	2⅜	⅜	3/16	2	9-10	101	10	65	6.1
	2	9H406–*	9HF406–*	2½	2⅞	3/16	3/32	2	9-10	91	9	30	3.0
	2	9H412–*	9HF412–*	2½	2⅞	⅜	3/16	2	9-10	121	12	60	6.6
	2	9H414–*	9HF414–*	2½	2⅞	7/16	7/32	2	9-10	131	13	70	6.3
10	1½	10H306–*	10HF306–*	2	2⅜	3/16	3/32	2	9-10	81	8	48	4.9
	2	10H412–*	10HF412–*	2½	2⅞	⅜	3/16	2	9-10	130	13	76	7.7
12	2	12H408–*	12HF408–*	2½	2⅞	¼	⅛	2	11-10	140	12	67	5.7
	2	12H412–*	12HF412–*	2½	2⅞	⅜	3/16	2	11-10	180	15	102	8.6
	2 7/16	12H508–*	12HF508–*	3	3½	¼	⅛	3	11-9	168	14	64	5.4
	2 7/16	12H512–*	12HF512–*	3	3½	⅜	3/16	3	11-9	198	17	96	8.2
	3	12H614–*	12HF614–*	3½	4	7/16	7/32	3	11-9	220	18	112	9.3
14	2 7/16	14H508–*	14HF508–*	3	3½	¼	⅛	3	11-9	170	14	84	7.1
	3	14H614–*	14HF614–*	3½	4	7/16	7/32	3	11-9	254	22	132	11.2
16	3	16H610–*	16HF610–*	3½	4	5/16	5/32	3	11-9	228	19	120	10.0
▲	3	16H614–*	16HF614–*	4	4½	7/16	7/32	3	11-9	285	24	154	11.7
18 ▲	3	18H610–*	18HF610–*	3½	4	5/16	5/32	3	11-9	282	24	167	13.9

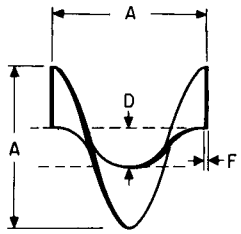
–* R For Right Hand
–* L For Left Hand

▲ Offered only in full pitch helicoid flighting.

Conveyor Screws (Sectional)



Sectional Conveyor Screw



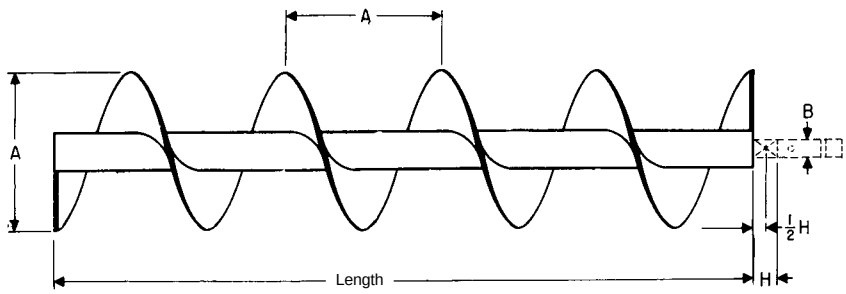
Flight

A	B	Size Part No. Mounted Conveyor	Size Part No. Flighting Only	Pipe Size		F	H	Standard Length Feet-Inches	Average Weight			Approx. Flights Per Foot
Screw Diameter	Coupling Diameter			Inside	D Outside	Flight Thickness	Coupling Bearing Length		Standard Length	Per Foot	Flight Each	
6	1½	6S312–*	6SF312–*	2	2⅜	3/16	2	9-10	75	7.5	1.7	2.0
	1½	6S316–*	6SF316–*	2	2⅜	¼	2	9-10	90	8.0	2.2	2.0
9	1½	9S312–*	9SF312–*	2	2⅜	3/16	2	9-10	95	9.5	4.3	1.33
	1½	9S316–*	9SF316–*	2	2⅜	¼	2	9-10	130	13.0	5.5	1.33
	1½	9S324–*	9SF324–*	2	2⅜	⅜	2	9-10	160	16.0	7.9	1.33
	2	9S412–*	9SF412–*	2½	2⅞	3/16	2	9-10	115	11.5	4.3	1.33
	2	9S416–*	9SF416–*	2½	2⅞	¼	2	9-10	130	13.0	5.5	1.33
	2	9S424–*	9SF424–*	2½	2⅞	⅜	2	9-10	160	16.0	7.9	1.33
10	1½	10S312–*	10SF312–*	2	2⅜	3/16	2	9-10	120	12.0	5.0	1.2
	1½	10S316–*	10SF316–*	2	2⅜	¼	2	9-10	135	13.5	6.7	1.2
	1½	10S324–*	10SF324–*	2	2⅜	⅜	2	9-10	165	16.5	8.7	1.2
	2	10S412–*	10SF412–*	2½	2⅞	3/16	2	9-10	120	12.0	5.0	1.2
	2	10S416–*	10SF416–*	2½	2⅞	¼	2	9-10	135	13.5	6.7	1.2
	2	10S424–*	10SF424–*	2½	2⅞	⅜	2	9-10	165	16.5	8.7	1.2
12	2	12S412–*	12SF412–*	2½	2⅞	3/16	2	11-10	156	13.0	7.2	1.0
	2	12S416–*	12SF416–*	2½	2⅞	¼	2	11-10	204	17.0	9.7	1.0
	2	12S424–*	12SF424–*	2½	2⅞	⅜	2	11-10	268	22.3	12.7	1.0
	2 7/16	12S509–*	12SF509–*	3	3½	10 Ga.	3	11-9	160	14.0	5.7	1.0
	2 7/16	12S512–*	12SF512–*	3	3½	3/16	3	11-9	178	14.8	7.2	1.0
	2 7/16	12S516–*	12SF516–*	3	3½	¼	3	11-9	210	17.5	9.7	1.0
	2 7/16	12S524–*	12SF524–*	3	3½	⅜	3	11-9	274	22.5	12.7	1.0
	3	12S612–*	12SF612–*	3½	4	3/16	3	11-9	198	16.5	7.2	1.0
	3	12S616–*	12SF616–*	3½	4	¼	3	11-9	216	18.0	9.7	1.0
	3	12S624–*	12SF624–*	3½	4	⅜	3	11-9	280	24.0	12.7	1.0

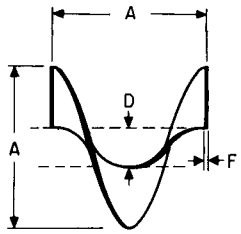
–* R For Right Hand
–* L For Left Hand

Martin

Conveyor Screws (Sectional)



Sectional Conveyor Screw



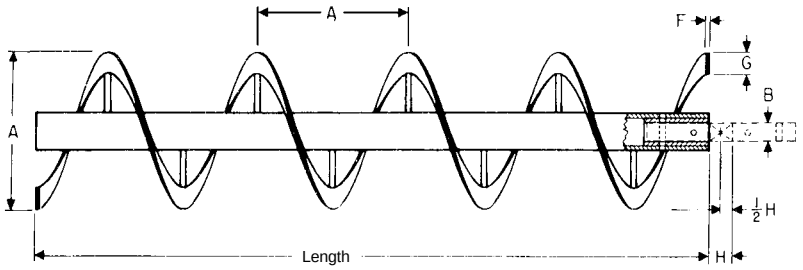
Flight

A	B	Size Part No. Mounted Conveyor	Size Part No. Flighting Only	Pipe Size		F	H	Standard Length Feet-Inches	Average Weight			Approx. Flights Per Foot
Screw Diameter	Coupling Diameter			Inside	D Outside	Flight Thickness	Coupling Bearing Length		Standard Length	Per Foot	Flight Each	
14	2 7/16	14S512–*	14SF512–*	3	3½	3/16	3	11-9	214	18.0	9.9	.86
	2 7/16	14S516–*	14SF516–*	3	3½	¼	3	11-9	240	20.0	13.2	.86
	2 7/16	14S524–*	14SF524–*	3	3½	⅜	3	11-9	330	27.5	19.8	.86
	3	14S612–*	14SF612–*	3½	4	3/16	3	11-9	222	19.0	9.9	.86
	3	14S616–*	14SF616–*	3½	4	¼	3	11-9	246	21.0	13.2	.86
	3	14S624–*	14SF624–*	3½	4	⅜	3	11-9	342	29.0	19.8	.86
16	3	16S612–*	16SF612–*	3½	4	3/16	3	11-9	234	20.0	14.0	.75
	3	16S616–*	16SF616–*	3½	4	¼	3	11-9	282	24.0	18.0	.75
	3	16S624–*	16SF624–*	3½	4	⅜	3	11-9	365	31.0	25.5	.75
	3	16S632–*	16SF632–*	3½	4	½	3	11-9	402	33.5	36.0	.75
18	3	18S612–*	18SF612–*	3½	4	3/16	3	11-9	246	21.0	18.0	.67
	3	18S616–*	18SF616–*	3½	4	¼	3	11-9	294	25.0	24.0	.67
	3	18S624–*	18SF624–*	3½	4	⅜	3	11-9	425	36.0	34.5	.67
	3	18S632–*	18SF632–*	3½	4	½	3	11-9	530	44.0	46.0	.67
	3 7/16	18S712–*	18SF712–*	4	4½	3/16	4	11-8	293	24.4	18.0	.67
	3 7/16	18S716–*	18SF716–*	4	4½	¼	4	11-8	345	28.8	24.0	.67
	3 7/16	18S724–*	18SF724–*	4	4½	⅜	4	11-8	470	39.2	34.5	.67
	3 7/16	18S732–*	18SF732–*	4	4½	½	4	11-8	570	47.5	46.0	.67
20	3	20S612–*	20SF612–*	3½	4	3/16	3	11-9	300	26.0	20.0	.60
	3	20S616–*	20SF616–*	3½	4	¼	3	11-9	360	31.0	28.0	.60
	3	20S624–*	20SF624–*	3½	4	⅜	3	11-9	410	33.4	40.0	.60
	3	20S632–*	20SF632–*	3½	4	½	3	11-9	506	42.2	56.0	.60
	3 7/16	20S712–*	20SF712–*	4	4½	3/16	4	11-8	310	27.0	20.0	.60
	3 7/16	20S716–*	20SF716–*	4	4½	¼	4	11-8	370	32.0	28.0	.60
	3 7/16	20S724–*	20SF724–*	4	4½	⅜	4	11-8	475	40.0	40.0	.60
	3 7/16	20S732–*	20SF732–*	4	4½	½	4	11-8	525	45.0	56.0	.60
24	3 7/16	24S712–*	24SF712–*	4	4½	3/16	4	11-8	440	37.0	32.0	.50
	3 7/16	24S716–*	24SF716–*	4	4½	¼	4	11-8	510	43.0	42.0	.50
	3 7/16	24S724–*	24SF724–*	4	4½	⅜	4	11-8	595	50.0	63.0	.50
	3 7/16	24S732–*	24SF732–*	4	4½	½	4	11-8	690	60.0	84.0	.50

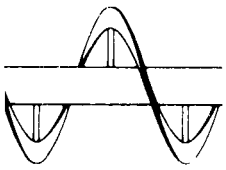
–* R For Right Hand
–* L For Left Hand

Conveyor Screws (Ribbon)

Ribbon flight conveyor screws consist of sectional flights, buttwelded together to form a continuous helix. Flights are secured to the pipe by supporting legs. Both ends of the pipe are prepared with internal collars and drilling to accept couplings, drive shafts and end shafts. They are used to convey sticky, gummy, or viscous substances, or where the material tends to adhere to flighting and pipe.

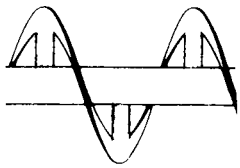


Ribbon Conveyor Screw



Post

Integral (Int) Leg

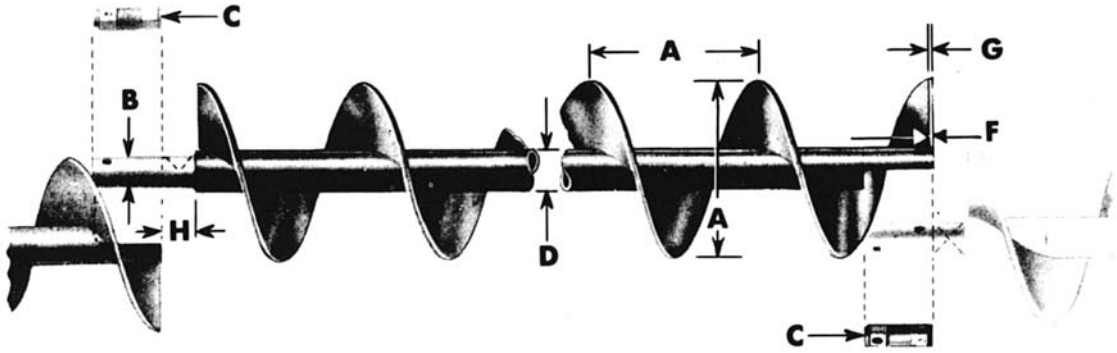


A Screw Diameter	B Coupling Diameter	Size Part No. Mounted Conveyor	Pipe Size		Flight Size		H Coupling Bearing Length	Standard Length Feet-Inches	Weight	
									Complete Screw	
			Inside	Outside	F Thickness	G Width			Standard Length	Per Foot
6	1½	6R312–*	2	2⅜	3/16	1	2	9-10	65	6.5
9	1½	9R316–*	2	2⅜	¼	1½	2	9-10	100	10
10	1½	10R316–*	2	2⅜	¼	1½	2	9-10	110	11
12	2	12R416–*	2½	2⅞	¼	2	2	11-10	180	15
	2	12R424–*	2½	2⅞	⅜	2½	2	11-10	216	19
	2 7/16	12R524–*	3	3½	⅜	2½	3	11-9	240	21
14	2 7/16	14R516–*	3	3½	¼	2½	3	11-9	228	19
	2 7/16	14R524–*	3	3½	⅜	2½	3	11-9	264	22
	3	14R624–*	3½	4	⅜	2½	3	11-9	288	25
16	3	16R616–*	3½	4	¼	2½	3	11-9	276	24
	3	16R624–*	3½	4	⅜	2½	3	11-9	324	28
18	3	18R624–*	3½	4	⅜	3	3	11-9	384	33
20	3 3/16	20R724–*	4	4½	⅜	3	4	11-8	408	35
24	3 3/16	24R724–*	4	4½	⅜	3	4	11-8	424	36

–* R For Right Hand
–* L For Left Hand

Quick Detachable (QD) Helicoid Conveyor

Q.D. — Quick Detachable conveyor screws are designed for convenient removal from the conveyor assembly. Each section of screw has a Q.D. cap at one end of the pipe. By removing this cap, a conveyor screw section can quickly and easily be removed and returned to the conveyor assembly without disturbing the other screw sections. Quick Detachable conveyor can be furnished both in helicoid and buttweld construction.

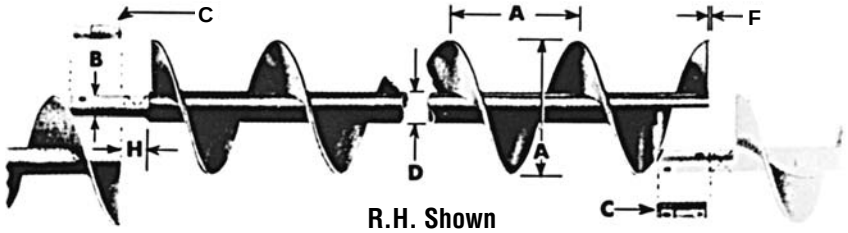


R.H. Shown

A	Size Part No. Mounted Conveyor	B	Standard-Length Feet-Inches	C	D Pipe Size		Flight Thickness		H	Average Weight	
Nominal Conveyor Diameter		Coupling Diameter	End to End of Pipe	Cap Part Number	Inside	Outside	F Inside	G Outside	Coupling Bearing Length	Standard Length	Per Foot
6	6HQ304–*	1½	9′-10	3QDC2	2	2⅜	⅛	1/16	2	52	5
	6HQ308–*						¼	⅛	2	62	6
	6HQ312–*						⅜	3/16	2	72	7
9	9HQ306–*	1½	9′-10	3QDC2	2	2⅜	3/16	3/32	2	70	7
	9HQ312–*						⅜	3/16	2	101	10
	9HQ406–*	2	9′-10				3/16	3/32	2	91	9
	9HQ412–*			4QDC25	2½	2⅞	⅜	3/16	2	121	12
	9HQ414–*						7/16	7/32	2	131	13
10	10HQ306–*	1½	9′-10	3QDC2	2	2⅜	3/16	3/32	2	81	8
	10HQ412–*	2	9′-10	4QDC25	2½	2⅞	⅜	3/16	2	130	13
12	12HQ408–*	2	11′-10	4QDC25	2½	2⅞	¼	⅛	2	140	12
	12HQ412–*						⅜	3/16	2	180	15
	12HQ508–*	2 7/16	11′-9	5QDC3	3	3½	¼	⅛	3	168	14
	12HQ512–*						⅜	3/16	3	198	17
	12HQ614–*	3	11′-9	6QDC35	3½	4	7/16	7/32	3	220	18
14	14HQ508–*	2 7/16	11′-9	5QDC3	3	3½	¼	⅛	3	170	14
	14HQ614–*	3	11′-9	6QDC35	3½	4	7/16	7/32	3	254	22
16	16HQ614–*	3	11′-9	6QDC35	3½	4	5/16	5/32	3	228	19
	16HQ614–*	3	11′-9	6QDC4	4	4½	7/16	7/32	3	285	23.8

Note: Q.D. caps are not recommended on the drive shaft end.

Quick Detachable (QD) Sectional Spiral Conveyors

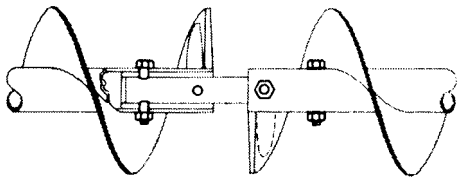


R.H. Shown

A	Size Part No. Mounted Conveyor	B	Standard Length Feet-Inches	C	D		F	H	Average Weight	
Nominal Conveyor Diameter		Coupling Diameter	End to End of Pipe	Cap Part Number	Pipe Size Inside	Pipe Size Outside	Flight Thickness	Coupling Bearing Length	Standard Length	Per Foot
6	6SQ307–* 6SQ309–* 6SQ312–* 6SQ316–*	1½	9′-10	3QDC2	2	2⅜	12 10 3/16 ¼	2 2 	62 65 75 90	6.2 6.5 7.5 8.0
9	9SQ307–* 9SQ309–* 9SQ312–* 9SQ316–*	1½	9′-10	3QDC2	2	2⅜	12 10 3/16 ¼	 2 	73 80 95 120	7.3 8.0 9.5 13
	9SQ407–* 9SQ409–* 9SQ412–* 9SQ416–* 9SQ424–*	2	9′-10	4QDC25	2½	2⅞	12 10 3/16 ¼ ⅜	 2 	90 100 115 130 160	9 10 11.5 13.0 16
10	10SQ309–*	1½	9′-10	3QDC2	2	2⅜	10	2	85	8.5
	10SQ412–* 10SQ416–*	2	9′-10	4QDC25	2½	2⅞	3/16 ¼	2 	120 135	12.0 13.5
12	12SQ409–* 12SQ412–* 12SQ416–*	2	11′-10	4QDC25	2½	2⅞	10 3/16 ¼	2 	140 156 204	12.0 13.0 17
	12SQ509–* 12SQ512–*	2 7/16	11′-9	5QDC3	3	3½	10 3/16	3 	160 178	14 15
	12SQ612–* 12SQ616–* 12SQ624–*	3	11′-9	6QDC35	3½	4	3/16 ¼ ⅜	 3 	191 216 280	16.5 18.0 24
14	14SQ509–* 14SQ512–*	2 7/16	11′-9	5QDC3	3	3½	10 3/16	3 	185 214	16 18
	14SQ612–* 14SQ616–* 14SQ624–*	3	11′-9	6QDC35	3½	4	3/16 ¼ ⅜	3 	222 246 342	19 21 29
16	16SQ609–* 16SQ612–* 16SQ616–* 16SQ624–*	3	11′-9	6QDC35	3½	4	10 3/16 ¼ ⅜	3 	210 234 282 365	18 20 24 31
18	18SQ612–* 18SQ616–* 18SQ624–*	3	11′-9	6QDC35	3½	4	3/16 ¼ ⅜	3 	246 294 425	21 25 36
20	20SQ612–* 20SQ616–*	3	11′-9	6QDC35	3½	4	3/16 ¼	3 	300 360	26 31
	20SQ724–*	3 3/16	11′-8	7QDC4	4	4½	⅜	4	475	40
24	24SQ712–* 24SQ716–* 24SQ724–*	3 3/16	11′-8	7QDC4	4	4½	3/16 ¼ ⅜	4 	410 510 595	37 43 50

Conveyor Screw (Components)

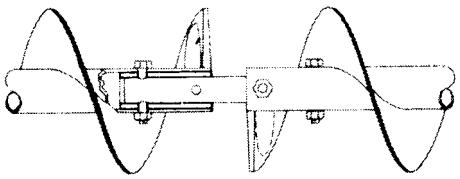
Coupling Bolts



Conveyor coupling bolts are manufactured from special analysis high-torque steel. Close tolerance and no threads inside of the conveyor pipe allow for a minimum of wear. Lock nuts are furnished with each bolt.

Coupling Diameter	Outside Pipe Diameter	Bolt Size	Part Number Standard	Weight Each Lbs.
1	1⅝	⅜ × 2 1/16	CCB2	.13
1½	2⅜	½ × 3	CCB3	.2
2	2⅞	⅝ × 3⅝	CCB4	.45
2 7/16	3½	⅝ × 4⅜	CCB5	.5
3	4	¾ × 5	CCB6	.85
3	4½	¾ × 5½	CCB6A	.9
3 7/16	4½	⅞ × 5½	CCB7	1.29

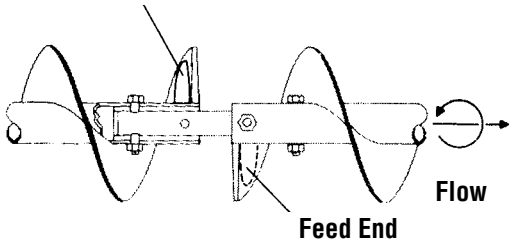
Internal Collar



Internal collars are made from seamless tubing machined for a press fit in the conveyor pipe. When installed at the factory collars are jig drilled and plug welded into the pipe. No drilling in replacement collars is furnished allowing for field drilling to match existing bolt holes.

Coupling Diameter	Inside Pipe Diameter	Part Number Standard	Weight Each Lbs.
1	1¼	CIC2	.58
1½	2	CIC3	2.06
2	2½	CIC4	2.16
2 7/16	3	CIC5	3.72
3	3½	CIC6	4.03
3	4	CIC6A	8.03
3 7/16	4	CIC7	6.52

Discharge End — End Lugs



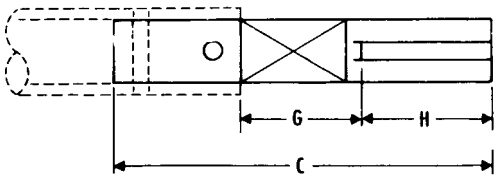
End lugs are welded opposite the carrying side of the conveyor flight and provide maximum support with minimum obstruction of material flow.

Conveyor Diameter	Part Number		Weight Each Lbs.
	Intake End Standard	Discharge End Standard	
6	6CELI–*	6CELD–*	.06
9	9CELI–*	9CELD–*	.15
10	9CELI–*	9CELD–*	.15
12	12CELI–*	12CELD–*	.2
14	12CELI–*	12CELD–*	.2
16	16CELI–*	16CELD–*	.4
18	16CELI–*	16CELD–*	.4
20	16CELI–*	16CELD–*	.4
24	16CELI–*	16CELD–*	.4

–* R For Right Hand Flight –* L For Left Hand Flight

No. 1
Drive Shaft

No. 1 drive shafts are normally used where standard end plates are furnished. Jig drilling allows for ease of installation.



No. 1 Drive Shaft Used Without Seal*

Bronze Bearing

Shaft Diameter	Part Number	C	G	H	Weight
1	1CD2B	9½	3½	3	2.0
1½	1CD3B	12¾	4¾	3¼	6.3
2	1CD4B	15	5¾	4½	13.3
2 7/16	1CD5B	17⅜	7	5½	21.0
3	1CD6B	19⅛	8⅛	6	37.0
3 7/16	1CD7B	23	9	7¼	60.4

Ball Bearing

Shaft Diameter	Part Number	C	G	H	Weight
1	1CD2BB	9	3	3	1.8
1½	1CD3BB	11½	3½	3¼	5.6
2	1CD4BB	13⅜	3⅞	4½	11.5
2 7/16	1CD5BB	15⅛	4¾	5½	18.0
3	1CD6BB	16⅝	5⅝	6	32.0
3 7/16	1CD7BB	20⅝	6⅝	7¼	52.5

**Consult Factory

No. 1 Drive Shaft Used With Plate or Product Drop Out Seals*

Bronze Bearing

Shaft Diameter	Part Number	C	G	H	Weight
1	1CD2B-P	10	4	3	2.1
1½	1CD3B-P	13¼	5¼	3¼	6.6
2	1CD4B-P	15¼	6¼	4½	14.1
2 7/16	1CD5B-P	18⅜	8	5½	24.3
3	1CD6B-P	19⅝	8⅝	6	38.0
3 7/16	1CD7B-P	24⅛	10⅛	7¼	61.0

Ball Bearing

Shaft Diameter	Part Number	C	G	H	Weight
1	1CD2BB-P	9½	3½	3	2.0
1½	1CD3BB-P	12⅜	4⅜	3¼	6.2
2	1CD4BB-P	14	4¾	4½	12.5
2 7/16	1CD5BB-P	15⅞	5½	5½	21
3	1CD6BB-P	17½	6½	6	35
3 7/16	1CD7BB-P	21½	7½	7¼	56.5

**Consult Factory

No. 1 Drive Shaft Used With Waste Pack Seal*

Bronze Bearing

Shaft Diameter	Part Number	C	G	H	Weight
1	1CD2B-W	11	4¼	3	2.2
1½	1CD3B-W	14½	6½	3¼	7.2
2	1CD4B-W	16¾	7½	4½	14.9
2 7/16	1CD5B-W	19⅛	8¾	5½	23.3
3	1CD6B-W	20⅞	9⅞	6	40.5
3 7/16	1CD7B-W	25⅞	11⅞	7¼	66.3

Ball Bearing

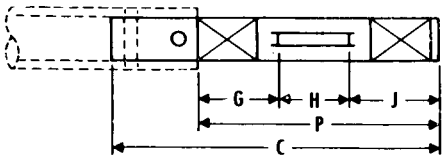
Shaft Diameter	Part Number	C	G	H	Weight
1	1CD2BB-W	10½	3¾	3	2.0
1½	1CD3BB-W	13¼	5¼	3¼	6.4
2	1CD4BB-W	14⅞	5⅝	4½	13.0
2 7/16	1CD5BB-W	16⅞	6½	5½	20.5
3	1CD6BB-W	18⅜	7⅜	6	35.5
3 7/16	1CD7BB-W	22⅞	8⅞	7¼	58.4

*Shaft length allows for ½ hanger bearing length as clearance between end plate and screw
**Consult Factory

No. 2 and No. 3 Drive Shafts

No. 2 Drive Shaft

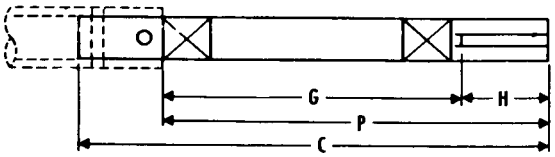
No. 2 drive shafts are used where pedestal type trough ends with single bearing are furnished. Jig drilling allows for ease of installation.



Shaft Diameter	Part Number	C	G	H	J	P	Weight
1	2CD2	11	3¼	2¼	2½	8	2.5
1½	2CD3	16½	5	3¼	3½	11¾	8.3
2	2CD4	18¾	5¼	4¼	4½	14	17.0
2 7/16	2CD5	21⅞	6	5½	5½	17	29.0
3	2CD6	23½	6½	5½	6½	18½	49.0
3 7/16	2CD7	27	6¾	6	7½	20¼	75.0

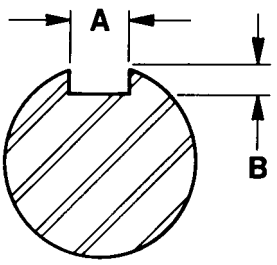
No. 3 Drive Shaft

No. 3 drive shafts are used where pedestal type trough ends with double bearings are furnished. Jig drilling allows for ease of installation.



Shaft Diameter	Part Number	C	G	H	P	Weight
1	3CD2	13	7¾	2¼	10	3
1½	3CD3	19¼	11¼	3¼	14½	10
2	3CD4	25¼	16¼	4¼	20½	21
2 7/16	3CD5	28⅞	18¾	5¼	24	36
3	3CD6	33½	22¼	6¼	28½	62
3 7/16	3CD7	39¼	25¼	7¼	32½	95

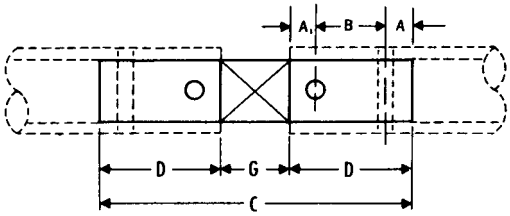
Drive Shaft Keyways



Shaft Diameter	A	B
1	¼	⅛
1½	⅜	3/16
2	½	¼
2 7/16	⅝	5/16
3	¾	⅜
3 7/16	⅞	7/16

Coupling

Conveyor couplings are used to join individual lengths of conveyor screws and allow for rotation within the hanger bearing. Mild steel couplings are normally furnished; however induction hardened bearing area couplings may be furnished where highly abrasive materials are being conveyed. Jig drilling allows for ease of installation.



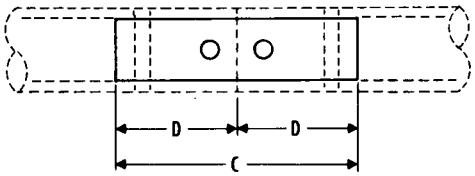
Shaft Diameter	Part Number*	A_1	A	B	C	D	G	Weight
1	CC2	½	½	2	7½	3	1½	1.5
1½	CC3	⅞	⅞	3	11½	4¾	2	5.6
2	CC4	⅞	⅞	3	11½	4¾	2	9.8
2 7/16	CC5	15/16	15/16	3	12¾	4⅞	3	15.4
3	CC6	1	1	3	13	5	3	23.8
3 7/16	CC7	1½	1¼	4	17½	6¾	4	44.5

*Add — H for Hardened Shaft.

Shaft is induction hardened in bearing area only to 45-50 RC.

Close Coupling

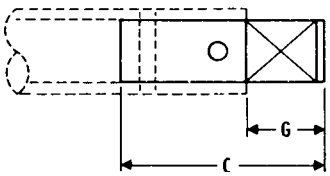
Close couplings are used to adjoin conveyor screws where no hanger is required. Jig drilling allows for ease of installation.



Shaft Diameter	Part Number	C	D	Weight
1	CCC2	6	3	1.3
1½	CCC3	9½	4¾	4.8
2	CCC4	9½	4¾	8.5
2 7/16	CCC5	9¾	4⅞	12.9
3	CCC6	10	5	20.0
3 7/16	CCC7	13½	6¾	37.0

Hanger End

Hanger end shafts are designed to connect only one conveyor section to a hanger bearing. These shafts may also be used in pairs to divide an excessively long conveyor assembly beween two drives.

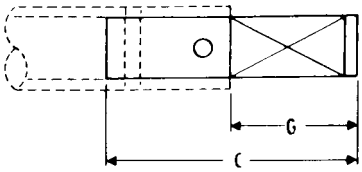


Shaft Diameter	Part Number*	C	G	Weight
1	CHE2	4⅝	1⅝	1.0
1½	CHE3	6⅞	2⅛	3.5
2	CHE4	6⅞	2⅛	6.2
2 7/16	CHE5	8⅛	3¼	10.6
3	CHE6	8¼	3¼	16.5
3 7/16	CHE7	11¼	4¼	29.7

*Add — H for Hardened Shaft
Shaft is induction hardened in bearing area only to 45-50 RC.

End Shaft

End shafts serve only to support the end conveyor section and are therefore usually supplied in cold rolled steel. End shafts are jig drilled for ease of assembly and close diametrical tolerances are held for proper bearing operation.



End Shaft Used Without Seal**

Bronze Bearing

Shaft Diameter	Part Number*	C	G	Weight
1	CE2B	6½	3½	1.4
1½	CE3B	9¼	4½	4.5
2	CE4B	10¼	5½	9.0
2 7/16	CE5B	11⅞	7	15.4
3	CE6B	13⅜	8⅜	25.6
3 7/16	CE7B	16⅜	9⅝	42.4

Ball Bearing

Shaft Diameter	Part Number*	C	G	Weight
1	CE2BB	6	3	1.2
1½	CE3BB	8¼	3½	3.8
2	CE4BB	8⅝	3⅞	7.5
2 7/16	CE5BB	9⅝	4¾	12.4
3	CE6BB	10⅝	5⅝	20.8
3 7/16	CE7BB	13⅜	6⅝	34.4

***Consult Factory

End Shaft Used With Plate or Product Drop Out Seal**

Bronze Bearing

Shaft Diameter	Part Number*	C	G	Weight
1	CE2B-P	7	4	1.5
1½	CE3B-P	10¼	5½	5.1
2	CE4B-P	11¼	6½	10.0
2 7/16	CE5B-P	12⅞	8	17.0
3	CE6B-P	13⅜	8⅝	29.8
3 7/16	CE7B-P	16⅞	10⅛	44.0

Ball Bearing

Shaft Diameter	Part Number*	C	G	Weight
1	CE2BB-P	6½	3½	1.4
1½	CE3BB-P	9	4¼	4.5
2	CE4BB-P	9⅜	4⅝	8.3
2 7/16	CE5BB-P	10⅛	5¼	13.1
3	CE6BB-P	11½	6½	23.0
3 7/16	CE7BB-P	14⅛	7⅜	37.1

***Consult Factory

End Shaft Used With Waste Pack Seal**

Bronze Bearing

Shaft Diameter	Part Number*	C	G	Weight
1	CE2B-W	8	4¼	1.6
1½	CE3B-W	11	6¼	5.2
2	CE4B-W	12	8¼	10.4
2 7/16	CE5B-W	13⅜	8¾	17.6
3	CE6B-W	14⅞	9⅞	28.2
3 7/16	CE7B-W	18⅝	11⅞	48.0

Ball Bearing

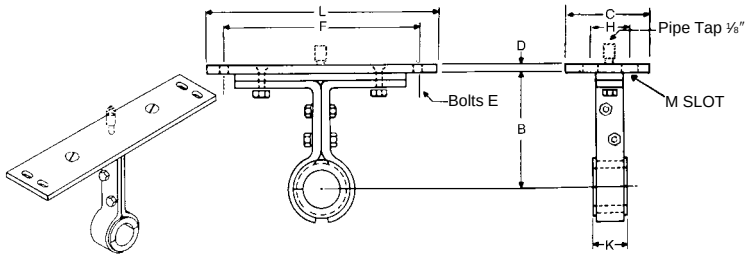
Shaft Diameter	Part Number*	C	G	Weight
1	CE2BB-W	7½	3¾	1.4
1½	CE3BB-W	10	5¼	4.8
2	CE4BB-W	10⅜	5⅝	9.0
2 7/16	CE5BB-W	11⅜	6½	14.8
3	CE6BB-W	12⅜	7⅜	24.0
3 7/16	CE7BB-W	15⅝	8⅞	40.2

*Add – H for Hardened Shaft.
**Shaft length allows for ½ hanger bearing length, clearance between end plate and screw.
***Consult Factory

Hangers

Style 220

No. 220 hangers are designed for mounting on top of the trough flanges and may be used where dust-tight or weather proof operation is not required. This type hanger allows for minimum obstruction of material flow in high capacity conveyors. Available with friction type bearing.

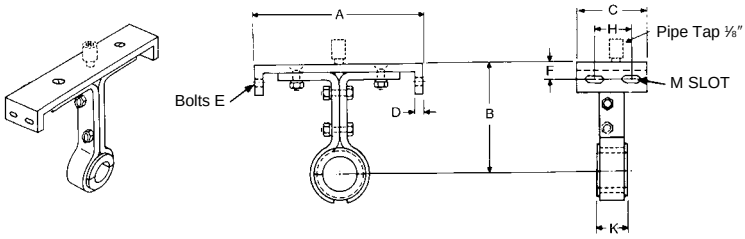


Conveyor Diameter	Coupling Size	Part Number*	B	C	D	E	F	H	K	L	M Slot	Weight Each
4	1	4CH2202	3 13/16	3½	3/16	¼	6½	2	1½	7¼	5/16 × ¾	5
6	1½	6CH2203	4½	4½	3/16	3/8	8¾	2½	2	9¾	7/16 × 1 1/16	7
9	1½	9CH2203	6⅛	4½	¼	3/8	12¼	2½	2	13½	7/16 × 1 1/16	9
	2	9CH2204	6⅛	4½	¼	3/8	12¼	2½	2	13½		11
10	1½	10CH2203	6⅜	4½	¼	3/8	13¼	2½	2	14½	7/16 × 1 1/16	10
	2	10CH2204	6⅜	4½	¼	3/8	13¼	2½	2	14½		12
12	2	12CH2204	7¾	5	3/8	½	15¾	2½	2	17½	9/16 × 1 5/16	16
	2 7/16	12CH2205	7¾	5	3/8	½	15¾	2½	3	17½		21
	3	12CH2206	7¾	5	3/8	½	15¾	2½	3	17½		28
14	2 7/16	14CH2205	9¼	5	½	½	17¾	2½	3	19½	9/16 × 1 5/16	26
	3	14CH2206	9¼	5	½	½	17¾	2½	3	19½		33
16	3	16CH2206	10⅝	5	½	½	19¾	2½	3	21½	9/16 × 1 5/16	39
18	3	18CH2206	12⅛	6	½	⅝	22¼	3½	3	24½	11/16 × 1 11/16	41
	3 7/16	18CH2207	12⅛	6	½	⅝	22¼	3½	4	24½		49
20	3	20CH2206	13½	6	½	⅝	24¼	3½	3	26½	11/16 × 1 11/16	43
	3 7/16	20CH2207	13½	6	½	⅝	24¼	3½	4	26½		51
24	3 7/16	24CH2207	16½	6	½	⅝	28¼	3½	4	30½	11/16 × 1 11/16	57

*Refer to H-90 for bearings *For hangers with oil pipe add –0 to part number

Style 226

No. 226 hangers are designed for flush mounting inside the trough permitting dust-tight or weather-proof operation. This type hanger allows for minimum obstruction of material flow in high capacity conveyors. Also available with friction type bearing.

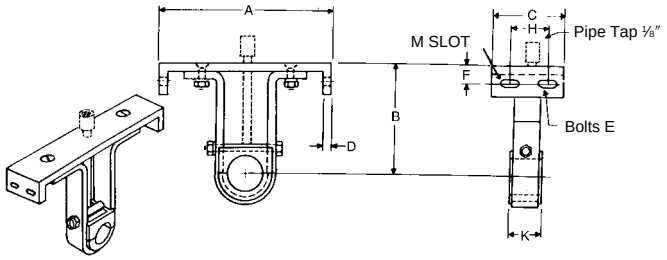


Conveyor Diameter	Coupling Size	Part Number*	A	B	C	D	E	F	H	K	M Slot	Weight Each
4	1	4CH2262	5	3⅝	3½	3/16	¼	11/16	2	1½	5/16 × ¾	5
6	1½	6CH2263	7	4½	4½	3/16	3/8	¾	2½	2	7/16 × 1 1/16	7
9	1½	9CH2263	10	6⅛	4½	¼	3/8	1	2½	2	7/16 × 1 1/16	9
	2	9CH2264	10	6⅛	4½	¼	3/8	1	2½	2		11
10	1½	10CH2263	11	6⅜	4½	¼	3/8	1	2½	2	7/16 × 1 1/16	10
	2	10CH2264	11	6⅜	4½	¼	3/8	1	2½	2		12
12	2	12CH2264	13	7¾	5	3/8	½	1¼	2½	2	9/16 × 1 5/16	16
	2 7/16	12CH2265	13	7¾	5	3/8	½	1¼	2½	3		21
	3	12CH2266	13	7¾	5	3/8	½	1¼	2½	3		28
14	2 7/16	14CH2265	15	9¼	5	½	½	1⅜	2½	3	9/16 × 1 5/16	26
	3	14CH2266	15	9¼	5	½	½	1⅜	2½	3		33
16	3	16CH2266	17	10⅝	5	½	½	1⅜	2½	3	9/16 × 1 5/16	39
18	3	18CH2266	19	12⅛	6	½	⅝	1½	3½	3	11/16 × 1 11/16	41
	3 7/16	18CH2267	19	12⅛	6	½	⅝	1½	3½	4		49
20	3	20CH2266	21	13½	6	½	⅝	1½	3½	3	11/16 × 1 11/16	43
	3 7/16	20CH2267	21	13½	6	½	⅝	1½	3½	4		51
24	3 7/16	24CH2267	25	16½	6	⅝	⅝	1⅝	3½	4	11/16 × 1 11/16	57

*Refer to H-90 for bearings *For hangers with oil pipe add –0 to part number

Style 216

No. 216 hangers are designed for heavy duty applications. This hanger is flush mounted inside the trough permitting dust tight or weather proof operation. Hard iron or bronze bearings are normally furnished; however the hanger can be furnished with other bearings.



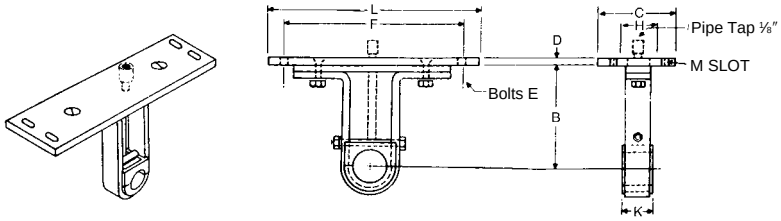
Conveyor Diameter	Coupling Size	Part Number*	A	B	C	D	E	F	H	K	M Slot	Weight Each
6	1½	6CH2163	7	4½	4½	3/16	3/8	3/4	2½	2	7/16 × 1 1/16	5
9	1½	9CH2163	10	6⅛	4½	¼	3/8	1	2½	2	7/16 × 1 1/16	7
	2	9CH2164	10	6⅛	4½	¼	3/8	1	2½	2		9
10	1½	10CH2163	11	6⅜	4½	¼	3/8	1	2½	2	7/16 × 1 1/16	8
	2	10CH2164	11	6⅜	4½	¼	3/8	1	2½	2		10
12	2	12CH2164	13	7¾	5	3/8	½	1¼	2½	2	9/16 × 1 5/16	14
	2 7/16	12CH2165	13	7¾	5	3/8	½	1¼	2½	3		18
	3	12CH2166	13	7¾	5	3/8	½	1¼	2½	3		21
14	2 7/16	14CH2165	15	9¼	5	½	½	1⅜	2½	3	9/16 × 1 5/16	23
	3	14CH2166	15	9¼	5	½	½	1⅜	2½	3		25
16	3	16CH2166	17	10⅜	5	½	½	1⅜	2½	3	9/16 × 1 5/16	28
18	3	18CH2166	19	12⅛	6	½	5/8	1½	3½	3	11/16 × 1 11/16	34
	3 7/16	18CH2167	19	12⅛	6	½	5/8	1½	3½	4		44
20	3	20CH2166	21	13½	6	½	5/8	1½	3½	3	11/16 × 1 11/16	36
	3 7/16	20CH2167	21	13½	6	½	5/8	1½	3½	4		47
24	3 7/16	24CH2167	25	16½	6	5/8	5/8	1⅝	3½	4	11/16 × 1 11/16	53

*Refer to H-90 for bearings

*For hangers with oil pipe add –0 to part number

Style 230

No. 230 hangers are designed for heavy duty applications where mounting on top of the trough flange is required. Hard iron or bronze bearings are normally furnished; however other bearings are available.



Conveyor Diameter	Coupling Size	Part Number*	B	C	D	E	F	H	K	L	M Slot	Weight Each
6	1½	6CH2303	4½	4½	¼	3/8	8¾	2½	2	9¾	7/16 × 1 1/16	6
9	1½	9CH2303	6⅛	4½	¼	3/8	12¼	2½	2	13½	7/16 × 1 1/16	8
	2	9CH2304	6⅛	4½	¼	3/8	12¼	2½	2	13½		10
10	1½	10CH2303	6⅜	4½	¼	3/8	13¼	2½	2	14½	7/16 × 1 1/16	9
	2	10CH2304	6⅜	4½	¼	3/8	13¼	2½	2	14½		11
12	2	12CH2304	7¾	5	3/8	½	15¾	2½	2	17½	9/16 × 1 5/16	15
	2 7/16	12CH2305	7¾	5	3/8	½	15¾	2½	3	17½		20
	3	12CH2306	7¾	5	3/8	½	15¾	2½	3	17½		25
14	2 7/16	14CH2305	9¼	5	3/8	½	17¾	2½	3	19½	9/16 × 1 5/16	24
	3	14CH2306	9¼	5	3/8	½	17¾	2½	3	19½		29
16	3	16CH2306	10⅜	5	3/8	½	19¾	2½	3	21½	9/16 × 1 5/16	35
18	3	18CH2306	12⅛	6	½	5/8	22¼	3½	3	24½	11/16 × 1 11/16	34
	3 7/16	18CH2307	12⅛	6	½	5/8	22¼	3½	4	24½		47
20	3	20CH2306	13½	6	½	5/8	24¼	3½	3	26½	11/16 × 1 11/16	40
	3 7/16	20CH2307	13½	6	½	5/8	24¼	3½	4	26½		49
24	3 7/16	24CH2307	16½	6	5/8	5/8	28¼	3¾	4	30½	11/16 × 1 11/16	55

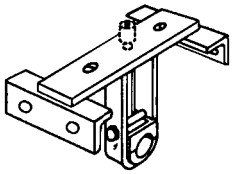
*Refer to H-90 for bearings

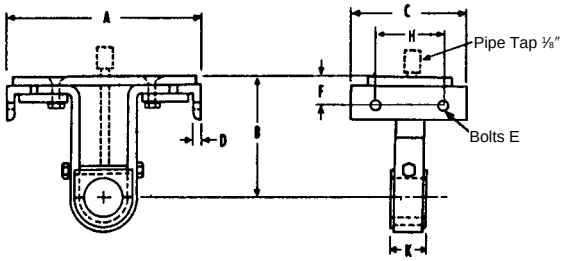
*For hangers with oil pipe add –0 to part number

Hangers

Style 316

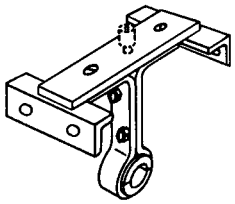
No. 316 hangers are designed for heavy duty use in conveyors where abnormal heat requires unequal expansion between the screw and conveyor trough. Hard iron or bronze bearings are normally used; however this hanger can be furnished with other bearings.

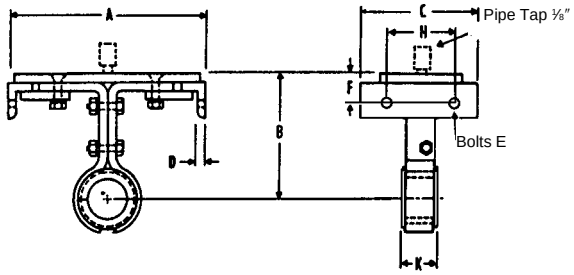




Style 326

No. 326 hangers are designed to permit minimum obstruction of material flow and are used in conveyors where abnormal heat requires unequal expansion between the screw and the conveyor trough. Hard iron or bronze bearings are normally used, but other type bearings are available.

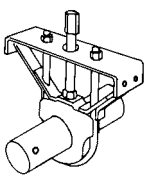


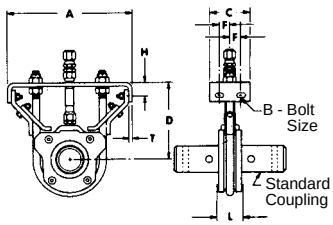


Conveyor Diameter	Coupling Size	Part Number		A	B	C	D	E	F	H	K
		Style 316*	Style 326*								
6	1½	6CH3163	6CH3263	7	4½	6	3/16	3/8	3/4	4½	2
9	1½ 2	9CH3163 9CH3164	9CH3263 9CH3264	10 10	6⅛ 6⅛	6 6	3/16 3/16	3/8 3/8	1 1	4½ 4½	2 2
10	1½ 2	10CH3163 10CH3164	10CH3263 10CH3264	11 11	6⅜ 6⅜	6 6	3/16 3/16	3/8 3/8	1 1	4½ 4½	2 2
12	2 2 1/16 3	12CH3164 12CH3165 12CH3166	12CH3264 12CH3265 12CH3266	13 13 13	7¾ 7¾ 7¾	6½ 6½ 6½	¼ ¼ ¼	½ ½ ½	1¼ 1¼ 1¼	5 5 5	2 3 3
14	2 1/16 3	14CH3165 14CH3166	14CH3265 14CH3266	15 15	9¼ 9¼	6½ 6½	¼ ¼	½ ½	1⅜ 1⅜	5 5	3 3
16	3	16CH3166	16CH3266	17	10⅝	6½	¼	½	1⅜	5	3
18	3 3 1/16	18CH3166 18CH3167	18CH3266 18CH3267	19 19	12⅛ 12⅛	6½ 7	¼ ¼	⅝ ⅝	1⅝ 1⅝	5¼ 5¼	3 4
20	3 3 1/16	20CH3166 20CH3167	20CH3266 20CH3267	21 21	13½ 13½	7 7	¼ ¼	⅝ ⅝	1⅝ 1⅝	5¼ 5¼	3 4
24	3 1/16	24CH3167	24CH3267	25	16½	7	¼	⅝	1¾	5¼	4

*Refer to H-90 for bearings

*For hangers with oil pipe add –0 to part number





Air Purged Hanger

Air purged hangers are recommended when handling dusty and abrasive materials which contribute to shut-downs and hanger bearing failures. They should not be used when handling hot materials (over 250°F) or wet sticky materials or when handling nonabrasive materials when an inexpensive hanger will do the job satisfactorily. Maximum trough loading should not exceed 15%. The air, at approximately 1¼ PSI, enters the housing at the top, passes over and around the bearing, and is dissipated around the coupling shaft on both sides of the housing. Only 3 to 7 cu. ft. of air per minute is required to keep each hanger bearing clean.

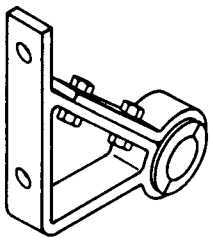
Screw Diameter	Part Number	Shaft Dia.	Weight Each	A	B	C	D	F	H	L	T
9	9CHAPH3 9CHAPH4	1½ 2	15 20	10	3/8 3/8	4½	6⅛	1¼	1	2	¼
12	12CHAPH4 12CHAPH5 12CHAPH6	2 2 1/16 3	30 52 68	13	½	5	7¼	1¼	1¼	2 3 3	¼
14	14CHAPH5 14CHAPH6	2 1/16 3	60 74	15	½	5	9¼	1¼	1⅜	3	⅜
16	16CHAPH6	3	77	17	½	5	10⅝	1¼	1⅜	3	⅛
18	18CHAPH6	3	91	19	⅝	6	12⅛	1¾	1⅝	3	½
20	20CHAPH6 20CHAPH7	3 3 1/16	105 140	21	⅝	6	13½	1¾	1⅜	3 4	½
24	24CHAPH7	3 1/16	155	25	⅝	6	16½	1¾	1⅝	4	½

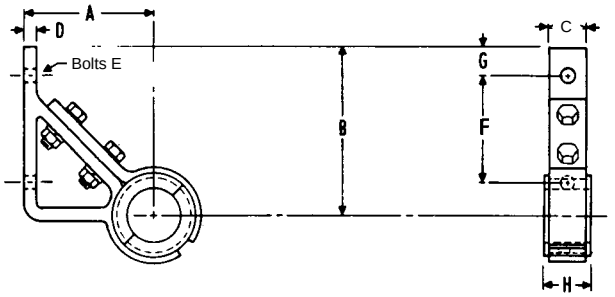
Space required on coupling for hanger.
Air supply should be clean and dry.

Dimensions in inches.
Weight in pounds.

Style 30

No. 30 hangers are designed for side mounting within the conveyor trough on the non-carrying side and permit a minimum of obstruction of material flow. Available with friction type bearing.





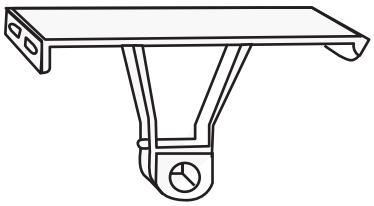
Conveyor Diameter	Coupling Diameter	Part Number*	A	B	C	D	E	F	G	H	Weight Each
6	1½	6CH303	3½	4¼	1½	⅜	5/16	3⅛	½	2	3
9	1½	9CH303	5	5⅞	1½	⅜	⅜	4¼	½	2	6
	2	9CH304	5	5⅞	1½	½	⅜	4¼	½	2	8
10	1½	10CH303	5½	6⅜	1½	⅜	½	4⅜	¾	2	8
	2	10CH304	5½	6⅜	1½	½	½	4⅜	¾	2	9
12	2	12CH304	6½	7½	1½	½	½	5½	¾	2	12
	2 7/16	12CH305	6½	7½	2	½	½	5½	¾	3	18
	3	12CH306	6½	7½	2	½	½	5½	¾	3	20
14	2 7/16	14CH305	7½	9	2	½	⅝	6⅞	⅞	3	20
	3	14CH306	7½	9	2	½	⅝	6⅞	⅞	3	22
16	3	16CH306	8½	10⅜	2	⅝	⅝	8	1	3	32
18	3	18CH306	9½	11⅞	2	¾	⅝	9	1¼	3	30
	3 7/16	18CH307	9½	11⅞	3	¾	⅝	9	1¼	4	33
20	3	20CH306	10½	13¼	2	¾	⅝	10¼	1¼	3	32
	3 7/16	20CH307	10½	13¼	3	¾	⅝	10¼	1¼	4	38
24	3 7/16	24CH307	12½	16¼	3	¾	¾	12¾	1½	4	46

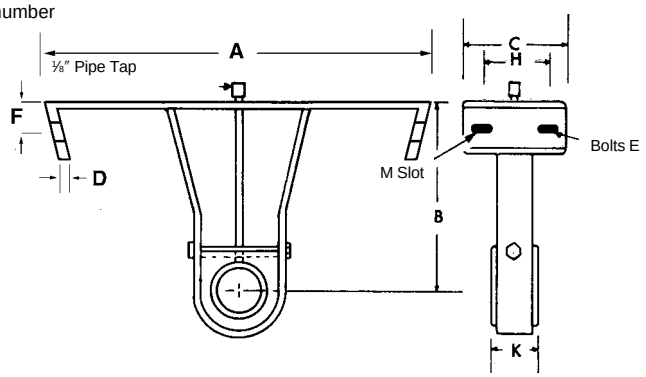
*Refer to H-90 for bearings

*For hangers with oil pipe add –0 to part number

Style 216F

No. 216F hangers are designed for heavy duty applications and are mounted inside of flared trough. Hard iron or bronze bearings are normally furnished; however other bearings are available.





Conveyor Diameter	Coupling Diameter	Part Number*	A	B	C	D	E	F	H	K	Weight Each	M Slot
6	1½	6CH216F3	14	7	4	3/16	⅜	⅞	2½	2	9	7/16 × ¾
9	1½	9CH216F3	18	9	4	3/16	⅜	⅞	2½	2	14	7/16 × ¾
	2	9CH216F4									17	
12	2	12CH216F4	22	10	5	⅜	½	1⅛	2½	2	24	9/16 × ¾
	2 1/16	12CH216F5								3	28	
	3	12CH216F6									32	
14	2 1/16	14CH216F5	24	11	5	⅜	½	1⅛	2½	3	31	9/16 × ¾
	3	14CH216F6									34	
16	3	16CH216F6	28	11½	5	⅜	½	1⅛	2½	3	38	9/16 × ¾
18	3	18CH216F6	31	12⅛	5	½	⅝	1½	3½	3	52	11/16 × ⅞
	3 7/16	18CH216F7								4	61	
20	3	20CH216F6	34	13½	5	½	⅝	1½	3½	3	55	11/16 × ⅞
	3 7/16	20CH216F7								4	64	
24	3 7/16	24CH216F7	40	16½	5	½	⅝	1½	3½	4	71	11/16 × ⅞

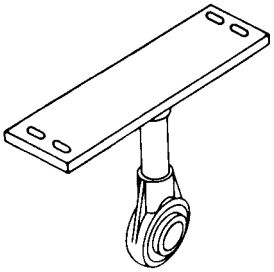
*Refer to H-90 for bearings

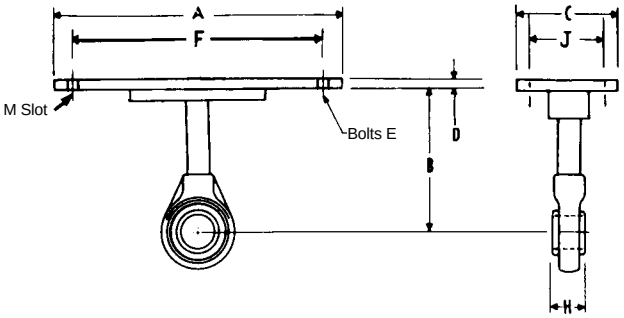
*For hangers with oil pipe add –0 to part number

Hangers

Style 60

No. 60 hangers are furnished with a heavy duty, permanently lubricated and sealed, self-aligning ball bearing which permits temperatures up to 245 degrees F. and will allow for up to 4 degrees shaft misalignment. This hanger is mounted on top of the trough flanges. Grease fitting can be furnished if specified.



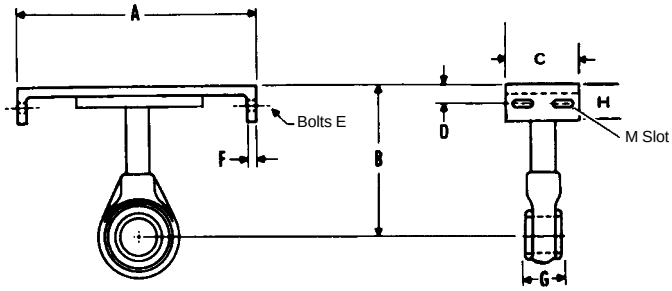


Conveyor Diameter	Coupling Size	Part Number*	A	B	C	D	E	F	H	J	Weight Each	M Slot
6	1½	6CH603	9¾	4½	4	3/16	3/8	8¾	1 11/16	2	7	7/16 × 1 1/16
9	1½	9CH603	13½	6⅛	4	¼	3/8	12¼	1 11/16	2	8	7/16 × 1 1/16
	2	9CH604	13½	6⅛	4	¼	3/8	12¼	1¾	2	9	7/16 × 1 1/16
10	1½	10CH603	14½	6⅜	4	¼	3/8	13¼	1 11/16	2	9	7/16 × 1 5/16
	2	10CH604	14½	6⅜	4	¼	3/8	13¼	1¾	2	10	7/16 × 1 5/16
12	2	12CH604	17½	7¾	5	3/8	½	15¾	1¾	2½	12	9/16 × 1 5/16
	2 7/16	12CH605	17½	7¾	5	3/8	½	15¾	1 63/64	2½	20	9/16 × 1 5/16
	3	12CH606	17½	7¾	5	3/8	½	15¾	2 1/16	2½	30	9/16 × 1 5/16
14	2 7/16	14CH605	19½	9¼	5	½	½	17¾	1 63/64	2½	21	9/16 × 1 5/16
	3	14CH606	19½	9¼	5	½	½	17¾	2 1/32	2½	32	9/16 × 1 5/16
16	3	16CH606	21½	10⅝	5	½	½	19¾	2 1/32	2½	35	9/16 × 1 5/16
18	3	18CH606	24½	12⅛	6	½	⅝	22¼	2 1/32	3½	40	1/16 × 1 1/16
20	3	20CH606	26½	13½	6	½	⅝	24¼	2 1/32	3½	45	1/16 × 1 1/16
24	3 7/16	24CH607	30½	16½	6	⅝	⅝	28¾	2 3/64	3 3/4	58	1/16 × 1 1/16

*For hangers with oil pipe add –0 to part number

Style 70

No. 70 hangers are furnished with a heavy duty, permanently lubricated and sealed, self aligning ball bearing which permits temperatures up to 245 degrees F. and will allow for up to 4 degrees shaft misalignment. This hanger is mounted inside the trough. Grease fitting can be furnished if specified.

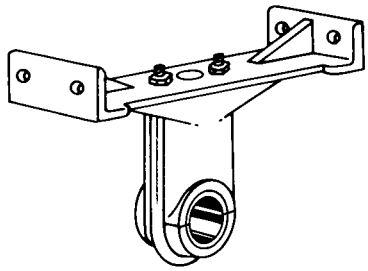


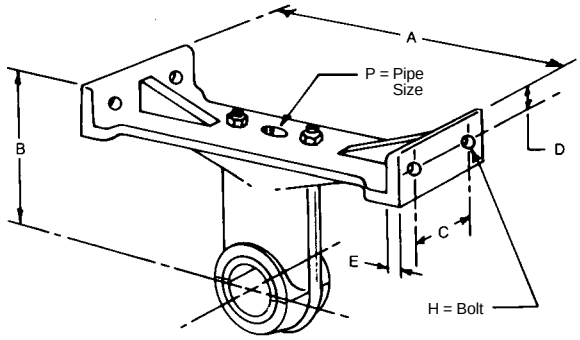
Conveyor Diameter	Coupling Size	Part Number*	A	B	C	D	E	F	G	H	Weight Each	M Slot
6	1½	6CH703	7	4½	4½	¾	3/8	3/16	1 11/16	1 1/2	7	7/16 × 1 1/16
9	1½	9CH703	10	6⅛	4½	1	3/8	¼	1 11/16	1¾	8	7/16 × 1 1/16
	2	9CH704	10	6⅛	4½	1	3/8	¼	1¾	1¾	9	
10	1½	10CH703	11	6⅜	4½	1	3/8	¼	1 11/16	1¾	9	7/16 × 1 1/16
	2	10CH704	11	6⅜	4½	1	3/8	¼	1¾	1¾	10	
12	2	12CH704	13	7¾	5	1¼	½	3/8	1¾	2⅛	12	9/16 × 1 5/16
	2 7/16	12CH705	13	7¾	5	1¼	½	3/8	1 63/64	2⅛	20	
	3	12CH706	13	7¾	5	1¼	½	3/8	2 1/32	2⅛	30	
14	2 7/16	14CH705	15	9¼	5	1⅜	½	½	1 63/64	2¼	21	9/16 × 1 5/16
	3	14CH706	15	9¼	5	1⅜	½	½	2 1/32	2¼	32	
16	3	16CH706	17	10⅝	5	1⅜	½	½	2 1/32	2¼	35	9/16 × 1 5/16
18	3	18CH706	19	12⅛	6	1½	⅝	½	2 1/32	2½	40	1/16 × 1 1/16
20	3	20CH706	21	13½	6	1½	⅝	½	2 1/32	2½	45	1/16 × 1 1/16
24	3 7/16	24CH707	25	16½	6	1⅝	⅝	⅝	2 1/32	2⅝	58	1/16 × 1 1/16

*For hangers with oil pipe add –0 to part number

Style 18B

The No. 18-B Hanger has streamlined cast iron frame and bearing cap held in place by a U-bolt. It is mounted inside the trough below the cover. Holes are located for bolting through the top angle of the conveyor trough. This hanger is regularly furnished with Babbitt bearings. Arguto oil impregnated wood, hard iron, bronze, or other special caps can be furnished.





Conveyor Diameter	Bearing Bore	Thru Bore	Part Number	Weight	A	B	C	D	E	H Bolt	P
6	1½	2	6CH18B3	5	7	4⅜	1⅞	⅝	5/16	⅜	⅛
9	1½	2	9CH18B3	9	10	6	2⅝	¾	⅜	⅜	⅛
	2	2	9CH18B4	—	10	6	2⅝	¾	⅜	⅜	⅛
10 OBSOLETE	1½	2	10CH18B3	11	11	6¼	2⅝	¾	⅜	⅜	⅛
	2	2	10CH18B4	—	11	6¼	2⅝	¾	⅜	⅜	⅛
12	2	2	12CH18B4	15	13	7⅝	2⅝	1	½	½	⅛
	2 7/16	3	12CH18B5	29	13	7⅝	2⅝	1	½	½	⅛
	3	3	12CH18B6	—	13	7⅝	2⅝	1	½	½	⅛
14	2 7/16	3	14CH18B5	25	15	9⅛	2¾	1	⅝	½	⅛
	3	3	14CH18B6	27	15	9⅛	2¾	1	⅝	½	⅛
16	3	3	16CH18B6	30	17	10½	2¾	1	⅝	½	⅛
18	3	3	18CH18B6	35	19	12	3	1¼	¾	½	⅛

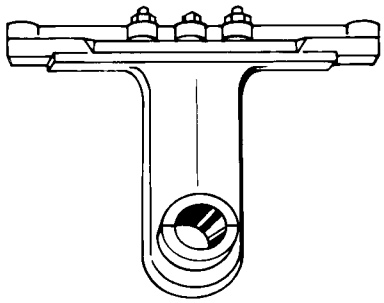
DISCONTINUED**

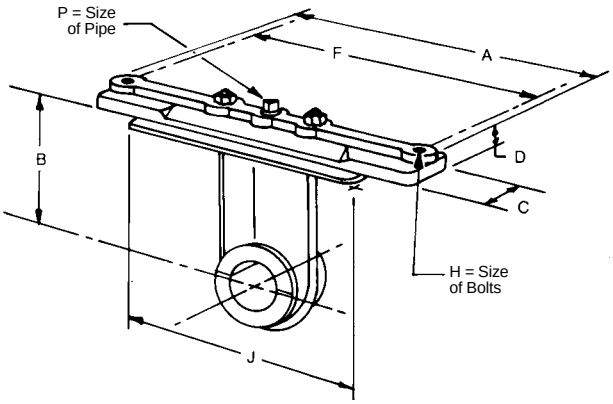
**Consult Factory

Style 19B

The No. 19-B Hanger is similar in construction to the No. 18-B except they are mounted on top of the trough angles. Built-in ledges provide supports for the ends of the cover. They are streamlined in design and permit free passage of the material.

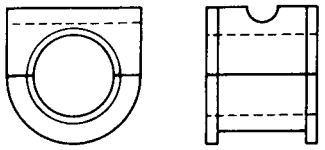
They are regularly furnished with Bronze bearings, Arguto oil impregnated wood, hard iron, bronze, or other special caps can be furnished.



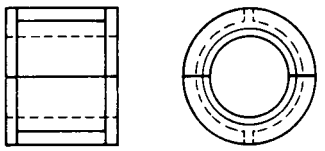


Conveyor Diameter	Bearing Bore	Part Number	Weight	A	B	C	D	F	H Bolt	J	P Pipe
6	1½	6CH19B3	8.5	9⅞	4½	1 5/16	⅞	8¾	½	6½	¼
9	1½	9CH19B3	13	13½	6⅛	1¾	1	12¼	½	9½	¼
	2	9CH19B4	15.5	13½	6⅛	1¾	1	12¼	½	9½	¼
10	1½	10CH19B3	14	14½	6⅜	1¾	1	13¼	½	10½	¼
	2	10CH19B4								10½	
12	2	12CH19B4	24	17	7¾	2	1¼	15¾	½	12½	¼
	2 7/16	12CH19B5	24.5	17	7¾	2¾	1½	15¾	½	12½	¼
	3	12CH19B6								12½	
14	2 7/16	14CH19B5	37	19¼	9¼	2¾	1¾	17¾	½	14½	¼
	3	14CH19B6								14¼	
16	2 7/16	16CH19B5									
	3	16CH19B6	45	21¼	10⅝	3	1¾	19¾	⅝	16½	¼
18	3	18CH19B6	48.5	23¾	12⅛	3	1⅝	22¼	⅝	18½	¼
20	3 3/16	20CH19B7	60.0	26¼	13½	4	1 13/16	24¼	¾	20	¼

Hanger Bearings

Hanger Type	Bore	Part Number	Bearing
216	1½	CHB2163*	
	2	CHB2164*	
230	2 7/16	CHB2165*	
	3	CHB2166*	
316	3 7/16	CHB2167*	

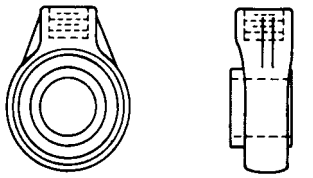
*H—Hard Iron *W—Wood *O—Oil Hole Top Cap *U—UHMW *G—Gatke *C—Ceramic * St—Stellite

Hanger Type	Bore	Part Number	Bearing
220	1½	CHB2203*	
	2	CHB2204*	
226	2 7/16	CHB2205*	
326	3	CHB2206*	
30	3 7/16	CHB2207*	

BR — Bronze *H — Cast Hard Iron *W — Wood *N — Nylatron

MHI — Martin Hard iron (oil impregnated) *MCB — Melamine

*MBR — Martin Bronze (oil impregnated) *U — UHMW

Hanger Type	Bore	Part Number	Bearing
60	1½	CHB603	
	2	CHB604	
70 Ball Bearing	2 7/16	CHB605	
80	3	CHB606	
300A	3 7/16	CHB607	

Note: New style bearings are available with slinger shield one side.

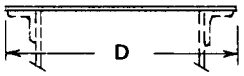
Hanger Type	Bore	Part Number	Bearing
18B	1½	CHB18B3*	
	2	CHB18B4*	
	2 7/16	CHB18B5*	
19B	3	CHB18B6*	
	3 7/16	CHB18B7*	

*W—Wood *H—Hard Iron *N—Nylatron *BR—Bronze *G—Gatke

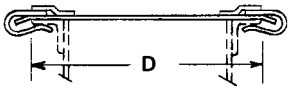
Note: Furnished as bottom cap only

Trough Cover

Plain Cover

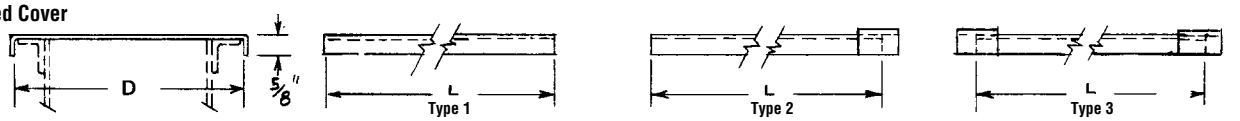


Semi-flanged Cover

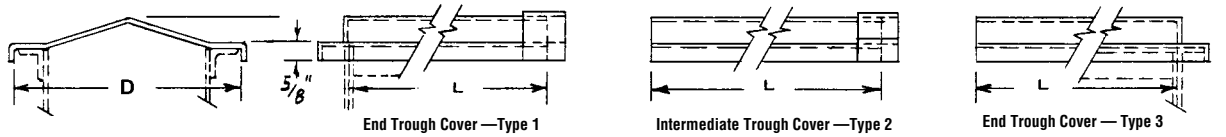


All conveyor troughs should have some type of cover not only to keep material inside the trough and to protect material in the trough from outside elements, **but trough definitely should be covered as a safety measure** preventing injuries by keeping workers clear of the moving parts inside the conveyor trough. See H-115, Safety.

Flanged Cover



Hip Roof Cover



Conveyor Diameter	Plain Cover				Plain Semi-Flanged Cover				Flanged Cover				Hip Roof Cover			
	Part Number	Thick-ness Ga.	Wt. Per Ft.	D	Part Number	Thick-ness Ga.	Wt. Per Ft.	D	Part Number	Thick-ness Ga.	Wt. Per Ft.	D	Part Number	Thick-ness Ga.	Wt. Per Ft.	D
4	4TCP16	16	1.5	8	4TCS16	□ 16	2.1	7¼	4TCF16	□ 16	1.9	8⅜	4TCH16	□ 16	2.0	
*					4TCS14	14	2.6		4TCF14	14	2.4		4TCH14	14	2.5	8⅜
6	6TCP16	16	2.0	9¾	6TCS16	□ 16	2.3	9¾	6TCF16	□ 16	2.1	10⅜	6TCH16	□ 16	2.3	10⅜
*					6TCS14	14	3.8		6TCF14	14	2.6		6TCH14	14	2.8	
9	9TCP14	14	3.5	13⅜	9TCS14	□ 14	4.1	13⅜	9TCF16	16	3.2	14	9TCH16	16	3.3	14
					9TCS12	12	5.7		9TCF14	□ 14	3.9		9TCH14	□ 14	4.1	
					9TCS10	10	7.3		9TCF12	12	5.5					
*									9TCF10	10	7.1					
10	10TCP14	14	3.8	14⅜	10TCS14	□ 14	4.4	14⅜	10TCF16	16	3.4	15	10TCH16	16	3.5	15
					10TCS12	12	6.1		10TCF14	□ 14	4.2		10TCH14	□ 14	4.3	
					10TCS10	10	7.8		10TCF12	12	5.9					
*									10TCF10	10	7.6					
12	12TCP14	14	4.6	17½	12TCS14	□ 14	5.1	17⅞	12TCF14	□ 14	4.9	18	12TCH14	□ 14	5.0	18
					12TCS12	12	7.1		12TCF12	12	6.9		12TCH12	12	7.1	
**					12TCS10	10	9.0		12TCF10	10	8.8					
14	14TCP14	14	5.1	19½	14TCS14	□ 14	5.6	19⅞	14TCF14	□ 14	5.4	19⅞	14TCH14	□ 14	5.5	19⅞
					14TCS12	12	7.8		14TCF12	12	7.6		14TCH12	12	7.7	
**					14TCS10	10	9.9		14TCF10	10	9.7					
16	16TCP14	14	5.6	21½	16TCS14	□ 14	6.1	21⅞	16TCF14	□ 14	5.9	21⅞	16TCH14	□ 14	6.1	21⅞
					16TCS12	12	8.5		16TCF12	12	8.3		16TCH12	12	8.5	
**					16TCS10	10	10.8		16TCF10	10	10.6					
18	18TCP12	12	8.9	24½	18TCS12	□ 12	9.6	24½	18TCF14	14	6.7	25	18TCH14	14	6.8	25
					18TCS10	10	12.3		18TCF12	□ 12	9.4		18TCH12	□ 12	9.5	
**									18TCF10	10	12.1					
20	20TCP12	12	9.7	26½	20TCS12	□ 12	10.3	26½	20TCF14	14	7.2	27	20TCH14	14	7.4	27
					20TCS10	10	13.3		20TCF12	□ 12	10.1		20TCH12	□ 12	10.4	
**									20TCF10	10	13.1					
24	24TCP12	12	11.1	30½	24TCS12	□ 12	11.8	30½	24TCF14	14	8.3	31	24TCH14	14	8.4	31
					24TCS10	10	15.1		24TCF12	□ 12	11.6		24TCH12	□ 12	11.8	
**									24TCF10	10	14.9					

For average applications where dust confinement is not a problem, 2´-0″ centers or 10 fasteners per 10´-0″ section are generally satisfactory. For commercially dust tight 1´-0″ centers or 20 fasteners per 10´-0″ section are suggested.

*L — Standard lengths are 5´-0″ & 10´-0″

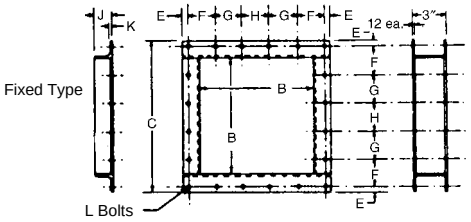
**L — Standard lengths are 5´, 6´, 10´ & 12´-0″

□ — Standard gauge

Cover Accessories

Flanged Conveyor Inlets

The two styles of flanged conveyor inlets are designed for either bolting or welding to flat or flanged conveyor trough cover. The inlet size and bolt arrangement is the same as the standard conveyor discharge spout.



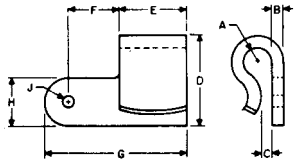
Conveyor Diameter	Part Number		Weight	B	C		E		F	G	H	J	K	L
	Fixed Inlet	Detachable Inlet			Fixed Inlet	Detachable Inlet	Fixed Inlet	Detachable Inlet						
4	4C1F	4C1D	1.8	5	7½	7½	⅜	⅜	2¼	—	2¼	1¼	⅛	¼
6	6C1F	6C1D	5.0	7	10	10	11/16	11/16	2 13/16	—	3	1½	3/16	⅜
9	9C1F	9C1D	6.8	10	13	13	½	½	4	—	4	1½	3/16	⅜
10	10C1F	10C1D	7.4	11	14	14¼	½	½	4 5/16	—	4⅜	1½	3/16	⅜
12	12C1F	12C1D	12.1	13	17	17¼	¾	⅞	5⅛	—	5¼	2	3/16	⅜
14	14C1F	14C1D	13.7	15	19	19¼	¾	⅞	3½	3½	3½	2	3/16	⅜
16	16C1F	16C1D	15.8	17	21	21¼	¾	⅞	3¾	4	4	2	¼	⅜
18	18C1F	18C1D	29.0	19	24	24¼	1	1⅛	4 7/16	4⅜	4⅜	2½	¼	½
20	20C1F	20C1D	31.8	21	26	26¼	1	1⅛	4⅞	4¾	4¾	2½	¼	½
24	24C1F	24C1D	37.2	25	30	30¼	1	1⅛	5⅞	5⅝	5½	2½	¼	½

Spring Clamps

Spring Clamps are used to attach plain and semi-flanged covers to trough. These clamps are normally riveted to the trough flange and will pivot to allow removal of cover.

Spring Clamp

Clamp No.	A	B	C	D	E	F	G	H	J	Wt.
SPC—1	5/16	3/16	¼	1¾	1⅜	1⅛	3	1	9/32	.38



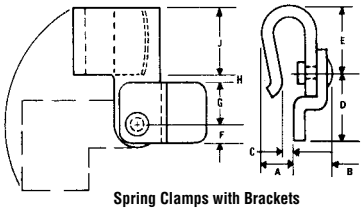
Spring Clamps

Spring Clamps with Cover Bracket

Spring Clamps with cover brackets are designed to attach to the top side of semi-flanged and plain covers.

Spring Clamp with Cover Bracket

Clamp No.	A	B	C	D	E	F	G	H	J	Wt.
SPCA—1	11/16	⅜	3/16	1¼	1 3/16	⅜	⅞	⅜	1¼	.50



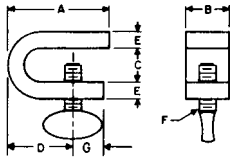
Spring Clamps with Brackets

Screw Clamps

Screw Clamps are a simple and effective means of attaching flanged or flat covers to trough.

Screw Clamp

Clamp No.	A	B	C	D	E	F	G	Wt.
CSC—2	2¼	1	1 3/16	1¼	5/16	⅜	⅝	.42



Screw Clamps

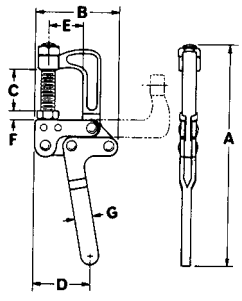
Cover Gaskets

	Red Rubber	Sponge Rubber	White Rubber
Conv. Dia.	Size	Size	Size
4,6	RR125• ⅛ X 1¼	SP75• ⅛ X ¾	WN125• ⅛ X 1¼
9,10	RR150• ⅛ X 1½	SP100• ⅛ X 1	WN150• ⅛ X 1½
12, 14, 16	RR200• ⅛ X 2	SP150• ⅛ X 1½	WB250• ⅛ X 2
18, 20, 24	RR250• ⅛ X 2½	SP200• ⅛ X 2	WN250• ⅛ X 2½

Toggle Clamps

Quick acting toggle clamps are used to attach covers for quick accessibility. Normally this type clamp is attached by welding the front or top of clamp to the trough and can be adjusted to fit all sizes of trough, while allowing 90° to clear working area.

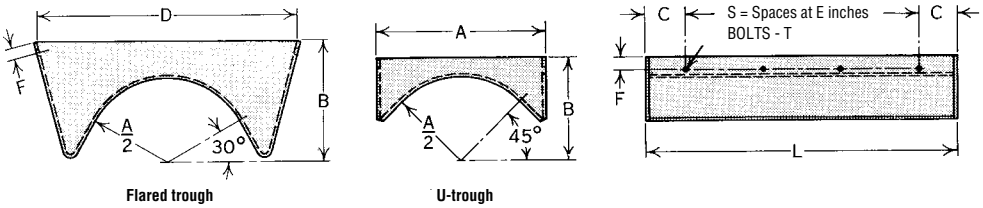
Conveyor	Part Number	No. Required per 10´ Section	A	B	C	D	E	F	G
4—24	QTC	6 to 8	7 13/16	2 15/16	1 25/32	2	1¼	5/16	⅝



Toggle Clamps

Feeder Shrouds

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.

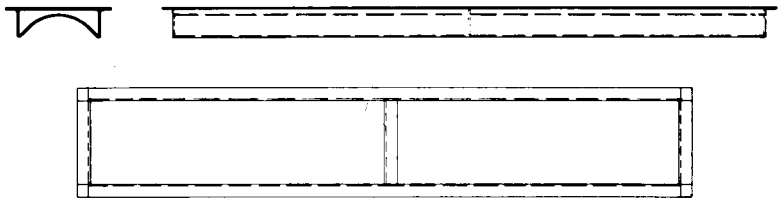


Flared trough U-trough

Screw Diameter Inches	Part No.		Shroud Thickness	A	B		C	D	E	F		L	T	S
	U	Flared			U	Flared				U	Flared			
4	4TFS14	4FFS14	14 Ga.	5	3⅜	—	2	—	4	⅝	—	8	¼	1
6	6TFS14	6FFS14	14 Ga.	7	4½	7	3	14	6	¾	¾	12	5/16	1
	6TFS12	6FFS12	12 Ga.	7	4½	7	3	14	6	¾	¾	12	5/16	1
9	9TFS14	9FFS14	14 Ga.	10	6⅛	9	3	18	6	⅞	¾	18	⅜	2
	9TFS7	9FFS7	3/16″	10	6⅛	9	3	18	6	⅞	¾	18	⅜	2
10	10TFS14	10FFS14	14 Ga.	11	6⅜	—	2½	—	5	⅞	—	20	⅜	3
	10TFS7	10FFS7	3/16″	11	6⅜	—	2½	—	5	⅞	—	20	⅜	3
12	12TFS12	12FFS12	12 Ga.	13	7¾	10	3	22	6	1⅛	1	24	⅜	3
	12TFS7	12FFS7	3/16″	13	7¾	10	3	22	6	1⅛	1	24	⅜	3
14	14TFS12	14FFS12	12 Ga.	15	9¼	11	3½	24	7	1⅛	1	28	⅜	3
	14TFS7	14FFS7	3/16″	15	9¼	11	3½	24	7	1⅛	1	28	⅜	3
16	16TFS12	16FFS12	12 Ga.	17	10⅝	11½	4	28	8	1⅛	1	32	⅜	3
	16TFS7	16FFS7	3/16″	17	10⅝	11½	4	28	8	1⅛	1	32	⅜	3
18	18TFS12	18FFS12	12 Ga.	19	12⅛	12⅛	4½	31	9	1⅜	1⅜	36	⅜	3
	18TFS7	18FFS7	3/16″	19	12⅛	12⅛	4½	31	9	1⅜	1⅜	36	⅜	3
20	20TFS10	20FFS10	10 Ga.	21	13½	13½	4	34	8	1⅜	1⅜	40	⅜	4
	20TFS7	20FFS7	3/16″	21	13½	13½	4	34	8	1⅜	1⅜	40	⅜	4
24	24TFS10	24FFS10	10 Ga.	25	16½	16½	4	40	8	1⅜	1⅜	48	⅜	5
	24TFS7	24FFS7	3/16″	25	16½	16½	4	40	8	1⅜	1⅜	48	⅜	5

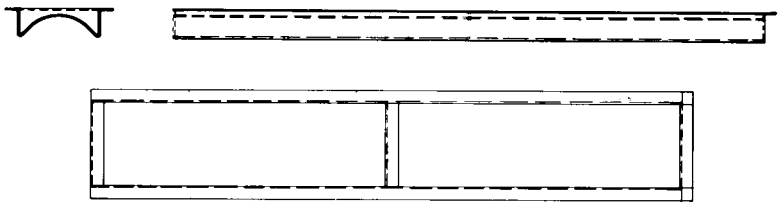
Conveyor Shrouds

Conveyor shroud covers are used to form a tubular cross section within the conveyor trough. This arrangement gives the features of a tubular housing while allowing removal of the shroud for easy access and cleaning. Flat or flanged covers can be used over the shroud cover when it is objectionable for the recess in the shroud to be exposed to dust or weather. Various types of shrouds are furnished to fit various applications. These types are described below.



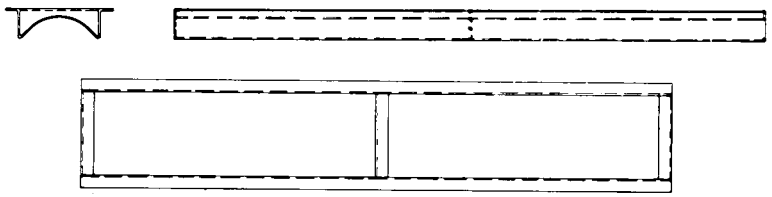
Type 1

Type 1 Shroud cover has flanged sides over top rail and flanged ends at both ends. This type is used when shroud is full length of trough or between hangers.



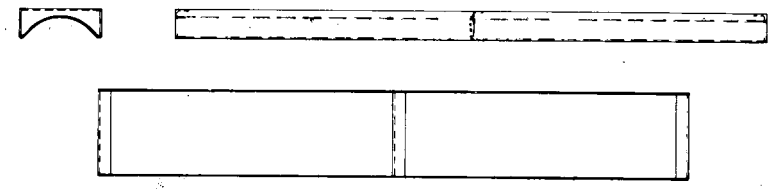
Type 2

Type 2 Shroud cover has flanged sides over top rails and flanged ends on one end over trough end; other end is plain. This type shroud is used at an inlet opening or next to a hanger at the plain end.



Type 3

Type 3 Shroud cover has flanged sides over top rail and both ends closed and no flanges over ends. This type shroud is used between hangers.



Type 4

Type 4 Shroud cover has no flanges at sides or ends. Bolt holes are provided along sides, for bolting through side of trough. This allows flush mounting with top of trough and a cover may be used over the shroud. This shroud is used mostly for short lengths when installed ahead of an inlet opening.