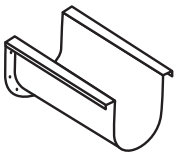
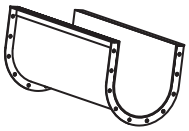
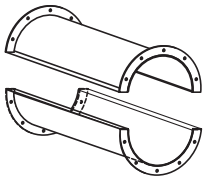
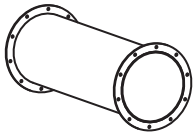
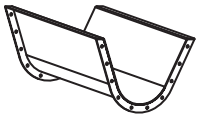
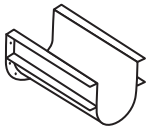
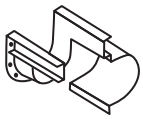
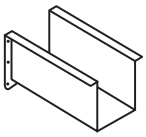
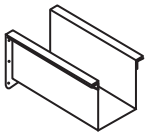
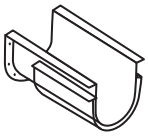
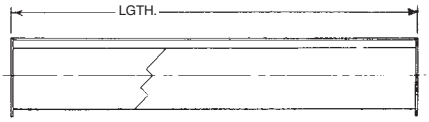
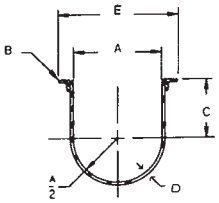
Conveyor Trough

FORMED FLANGE U-TROUGH		Commonly used economical trough. One piece construction. Standard lengths in stock.
ANGLE FLANGE U-TROUGH		Rigid construction. Standard lengths in stock.
FORMED FLANGE TUBULAR TROUGH		Loadable to full cross section for feeder applications. Minimizes fall back in inclined applications. Easily taken apart for maintenance. Can be gasketed for dust tight enclosure. Hanger pockets required for use with standard hangers.
SOLID TUBULAR TROUGH		One piece construction for totally enclosed or inclined applications. Hanger pockets required for use with standard hangers.
FLARED TROUGH		Used where materials tend to bridge or when flared inlets are needed.
CHANNEL TROUGH		Adds structural support for longer than standard spans.
DROP BOTTOM TROUGH		Used when complete material clean-out is critical. Can be furnished with hinges either side and bolts or clamps opposite side.
FORMED FLANGE RECTANGULAR TROUGH		Material being conveyed forms its own trough thereby reducing trough wear. One piece construction.
ANGLE FLANGE RECTANGULAR TROUGH		The same as formed flange rectangular except top flanges are made from structural angle.
JACKETED TROUGH		Jacket allows heating or cooling of material being conveyed.

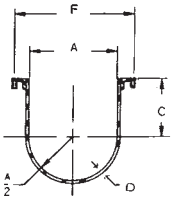
Standard Conveyor Trough

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	—	—				7⅝	7¼
4	14	4CTA14	60	33	—	—	4CTF14	50	28	—	—	5	1¼	3⅜	7 11/16	7¼
4	12	4CTA12	78	42	—	—	4CTF12	70	38	—	—				7¾	7¼
6	□ 16 GA.	6CTA16	67	44	—	—	6CTF16	55	32	—	—				9⅝	9 11/16
6	14	6CTA14	78	49	—	—	6CTF14	67	38	—	—				9 11/16	9 11/16
6	12	6CTA12	101	60	—	—	6CTF12	91	50	—	—	7	1¼	4½	9¾	
6	10	6CTA10	123	73	—	—	6CTF10	117	64	—	—				9¾	
6	3/16	6CTA7	164	86	—	—	6CTF7	150	79	—	—				9⅞	
9	16 GA.	9CTA16	113	66	—	—	9CTF16	83	51	—	—				13⅛	13¼
9	□ 14	9CTA14	127	73	—	—	9CTF14	99	59	—	—				13 3/16	
9	12	9CTA12	156	87	—	—	9CTF12	132	75	—	—	10	1½	6⅛	13¼	
9	10	9CTA10	176	102	—	—	9CTF10	164	91	—	—				13 5/16	
9	3/16	9CTA7	230	124	—	—	9CTF7	214	116	—	—				13⅜	
9	¼	9CTA3	286	152	—	—	9CTF3	276	147	—	—				13½	
10	16 GA.	10CTA16	118	69	—	—	10CTF16	88	54	—	—				14⅛	14¼
10	□ 14	10CTA14	133	76	—	—	10CTF14	105	62	—	—				14 3/16	
10	12	10CTA12	164	92	—	—	10CTF12	140	80	—	—	11	1½	6⅜	14¼	
10	10	10CTA10	178	102	—	—	10CTF10	167	91	—	—				14 5/16	
10	3/16	10CTA7	233	131	—	—	10CTF7	217	123	—	—				14⅜	
10	¼	10CTA3	306	163	—	—	10CTF3	296	158	—	—				14½	
12	□ 12 GA.	12CTA12	197	113	236	135	12CTF12	164	95	197	114				17¼	17½
12	10	12CTA10	234	133	281	160	12CTF10	187	117	224	140	13	2	7¾	17 5/16	
12	3/16	12CTA7	294	164	353	197	12CTF7	272	150	326	180				17⅜	
12	¼	12CTA3	372	203	446	244	12CTF3	357	194	428	233				17½	
14	□ 12 GA.	14CTA12	214	121	257	145	14CTF12	183	102	219	122				19¼	19⅜
14	10	14CTA10	258	143	309	172	14CTF10	207	127	248	152	15	2	9¼	19 5/16	
14	3/16	14CTA7	328	180	394	216	14CTF7	304	168	365	202				19⅜	
14	¼	14CTA3	418	224	501	269	14CTF3	403	215	483	258				19½	
16	□ 12 GA.	16CTA12	238	133	285	160	16CTF12	206	107	247	128				21¼	21⅜
16	10	16CTA10	288	159	345	191	16CTF10	234	144	281	173	17	2	10⅝	21 5/16	
16	3/16	16CTA7	368	200	442	240	16CTF7	345	188	414	226				21⅜	
16	¼	16CTA3	471	243	565	291	16CTF3	455	228	546	273				21½	
18	□ 12 GA.	18CTA12	252	159	302	191	18CTF12	240	133	288	160				24¼	24½
18	10	18CTA10	353	170	423	204	18CTF10	269	165	323	198	19	2½	12⅛	24 5/16	
18	3/16	18CTA7	444	243	533	291	18CTF7	394	217	473	260				24⅜	
18	¼	18CTA3	559	298	671	358	18CTF3	520	275	624	330				24½	
20	□ 10 GA.	20CTA10	383	228	460	274	20CTF10	296	190	355	228				26 5/16	26½
20	3/16	20CTA7	484	271	581	325	20CTF7	434	247	521	296	21	2½	13½	26⅜	
20	¼	20CTA3	612	334	734	401	20CTF3	573	315	687	378				26½	
24	□ 10 GA.	24CTA10	443	255	531	306	24CTF10	384	227	461	272				30 5/16	30½
24	3/16	24CTA7	563	319	676	383	24CTF7	514	293	617	352	25	2½	16½	30⅜	
24	¼	24CTA3	717	363	860	435	24CTF3	678	339	813	406				30½	

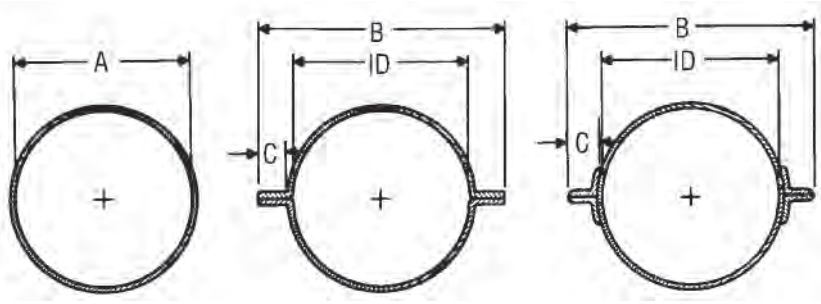
□ **Standard Gauge Bolt Patterns**
Page H-42

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**

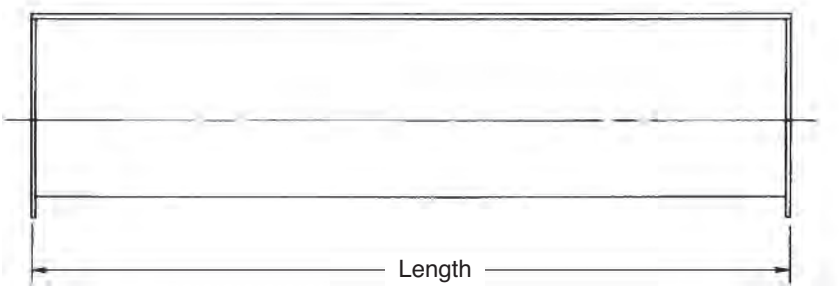
Conveyor Diameter	Trough Thickness	Tubular Housing			Formed Flange		Angle Flange		A	B	C
		Part Number	Weight 10´ Length	Weight 5´ Length	Part Number	Weight 10´	Part Number	Weight 10´			
4	□ 16 GA.	4CHT16			4CHT16-F	43	4CHT16-A	81		7⅛	
4	14	4CHT14	60	31	4CHT14-F	53	4CHT14-A	89	5	7³⁄₁₆	1
4	12	4CHT12			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		9¹¹⁄₁₆	
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		9¹³⁄₁₆	
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		12¹¹⁄₁₆	
9	12	9CHT12	122	64	9CHT12-F	143	9CHT12-A	181		12¾	
9	10	9CHT10	155	80	9CHT10-F	182	9CHT10-A	214	10	12¹³⁄₁₆	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		13¹¹⁄₁₆	
10	12	10CHT12	133	70	10CHT12-F	154	10CHT12-A	192		13¾	
10	10	10CHT10	169	88	10CHT10-F	196	10CHT10-A	228	11	13¹³⁄₁₆	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		16⁵⁄₁₆	
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		18⁵⁄₁₆	
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		21⁵⁄₁₆	
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		23⁵⁄₁₆	
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		25⁵⁄₁₆	
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		29⁵⁄₁₆	
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	

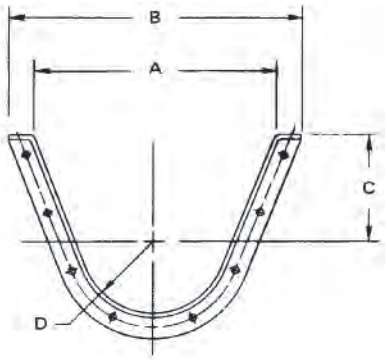
□ Standard Gauge

For Bolt Patterns See Page H-43

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	Standard Length Foot
6	□ 14 GA.	6FCT14	9	14	16⅝	7	3½	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	10
9	3/16	9FCT7	22		21⅜			
9	¼	9FCT3	25		21½			
12	□ 12 GA.	12FCT12	20		26¼	10	6½	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	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	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	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	12
20	¼	20FCT3	60		39½			
24	□ 10 GA.	24FCT10	41	40	45¼	16½	12½	12
24	3/16	24FCT7	54		45⅜			
24	¼	24FCT3	69		45½			

□ **Standard Gauge**

See Page H-42 for Bolt Pattern

Discharge Spout Index

14	TSD	12

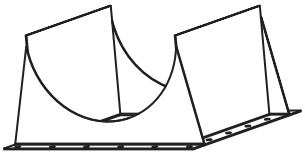
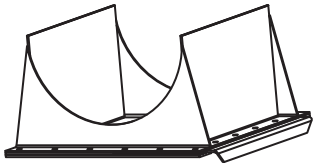
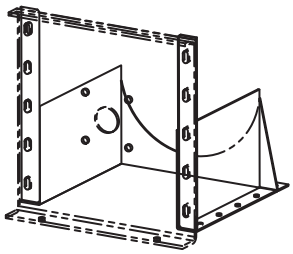
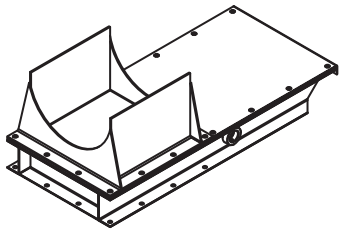
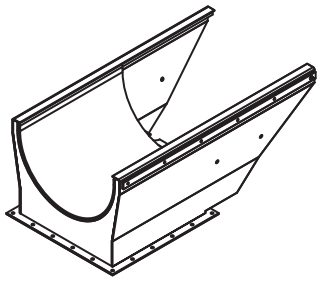
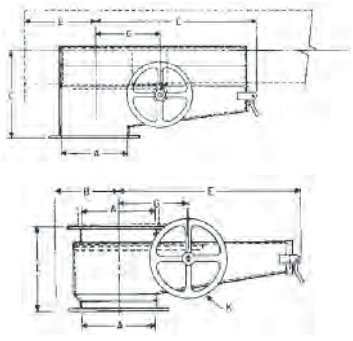
Conveyor Diameter

Types

TSD - Plain, Fixed Spout
TSDS - Plain Fixed Spout W/Slide
TSDF - Flush End Spout
RPF - Rack & Pinion/Flat Side
RPFD - Rack & Pinion/Flat Slide Dust Tight
RPC - Rack & Pinion/Curved Slide
RPCD - Rack & Pinion/Curved Slide Dust Tight

Spout Thickness

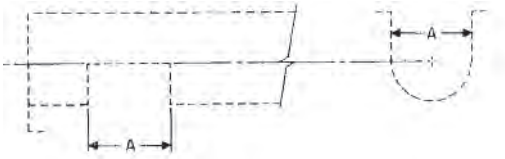
16 - 16 Gauge
14 - 14 Gauge
12 - 12 Gauge
10 - 10 Gauge
7 - 3/16

STANDARD DISCHARGE SPOUT		Most commonly used. Flanged hole drilling is per CEMA Standards. Select spout thickness according to trough thickness.
STANDARD DISCHARGE SPOUT WITH HAND SLIDE		Standard spout shown above with the addition of the slide and side guides. Select spout thickness according to trough thickness.
FLUSH END DISCHARGE SPOUT		Reduces distance from centerline of discharge to end of the conveyor which eliminates ledge at end of trough and product build-up. Special flush-end trough ends required when this style of discharge is used.
FLAT SLIDE GATE		Rack & pinion type available with hand wheel, rope wheel, pocket wheel and chain. Discharge spout is included when fitted. Flat slide (less rack & pinion) can be furnished with pneumatic, hydraulic, or electric actuators. (Not dust-tight).
CURVED SLIDE GATE		Contoured shape of slide eliminates pocket found in flat slide type. Rack & pinion type available with handwheel, or rope wheel, or pocket wheel with chain. Curved slide (less rack & pinion) can be furnished with pneumatic, hydraulic, or electric actuators. (Standard curved slide gate is not dust-tight.) All curved slide gates should be installed at factory.
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.

CONVEYORS

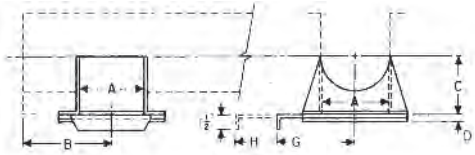
Discharge Spouts

Plain Opening



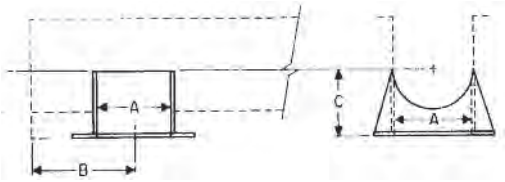
Plain spout openings are cut in the trough permitting free material discharge.

Fixed Spout with Slide Gate



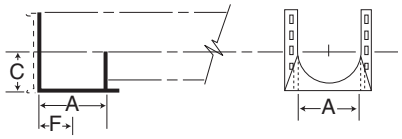
Fixed spouts with slide gates are used where distribution of material is to be controlled. Bolted flange permits slide to be operated from any side.

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	8⅜	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	□ 14	4TSD14	4TSDS14	4TSDF14	2	6	1.5
4	12	12	4TSD12	4TSDS12	4TSDF12	3	7	2.25
6	14-12	□ 14	6TSD14	6TSDS14	6TSDF14	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**

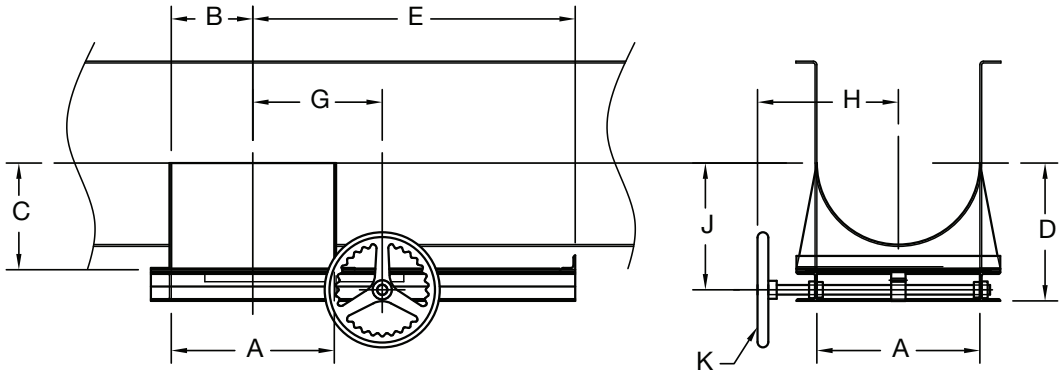
① Add –F for Fitted

For Bolt Patterns See Page H-43

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	2½	3¾	7	13½	6½	5	5½	12
6	7	3½	5	8¼	16	7½	6	6¾	12
9	10	5	7⅛	10⅜	20¼	9	9½	8⅜	12
10	11	5½	7⅞	11⅛	23½	10½	10	9⅞	12
12	13	6½	8⅞	12⅛	25½	11	12¼	10⅞	12
14	15	7½	10⅛	13⅜	31¼	12½	13¼	12	12
16	17	8½	11⅛	14⅜	33⅝	13½	14¼	13	12
18	19	9½	12⅜	15⅝	37⅞	14½	15¾	14⅛	12
20	21	10½	13⅜	16 1⁄16	40¾	15½	16¾	15⅛	12
24	25	12½	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-43
†**All Rack & Pinion Gates 18″ and Larger Have Double Rack & Pinion.**

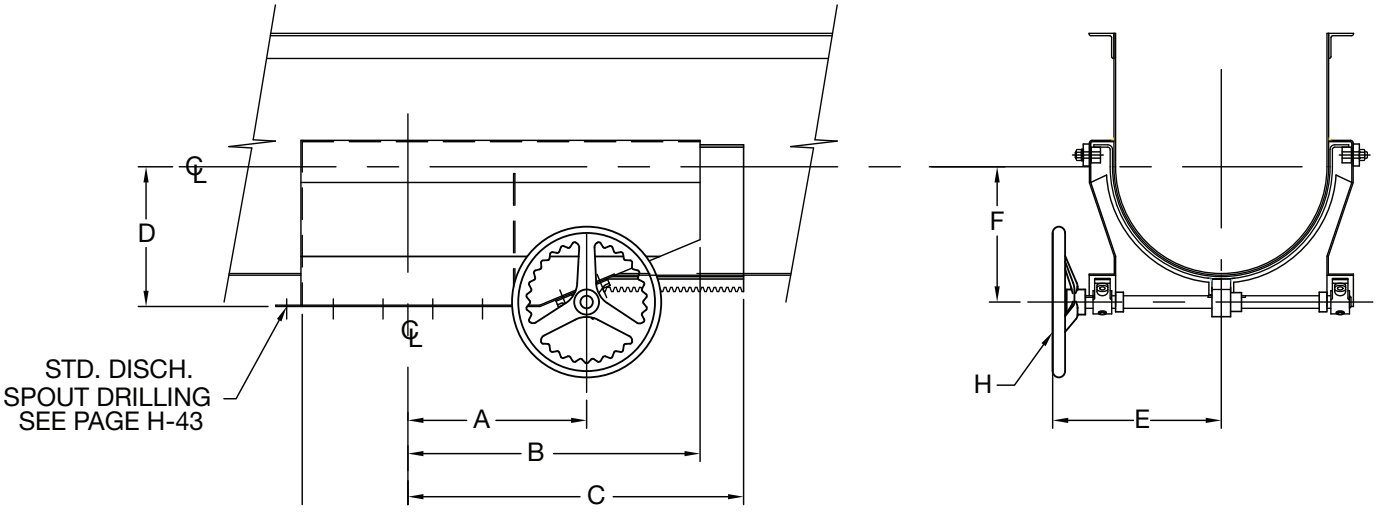
① Add –F for Fitted

CONVEYORS

Discharge Gates

Rack and Pinion Flat Slide

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.



Conveyor Diameter	Trough Thickness	Spout Thickness	Part Number*①	Weight Pounds	A	B	C	D	E	F	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 4⅝	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	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	12
10 10	14,12,10 GA. 3⁄16″,¼″	□ 14 GA. 10 GA.	10RPC14 10RPC10	53 62	9½ 9½	14½ 14½	21 21	7⅛ 7⅛	9⅛ 9⅛	7½ 7⅝	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	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	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	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	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	12
24 24	10 GA. 3⁄16″,¼″	□ 12 GA. 3⁄16″	24RPC12 24RPC7	220 265	19⅜ 19⅜	35½ 35½	47 47	15⅝ 15⅝	18⅜ 18⅜	14½ 14⅝	12

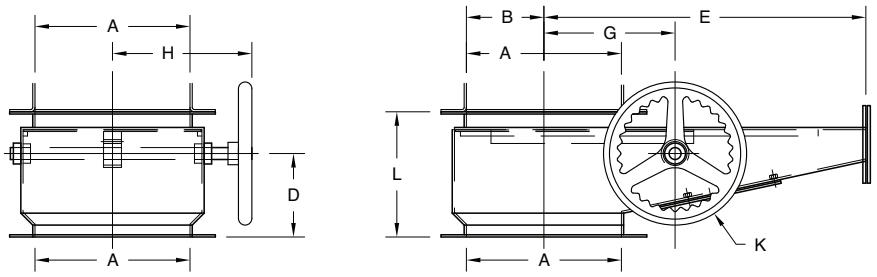
* Hand wheel supplied as Standard Assembly
— C Chain Wheel
— R Rope Wheel

□ Standard Gauge

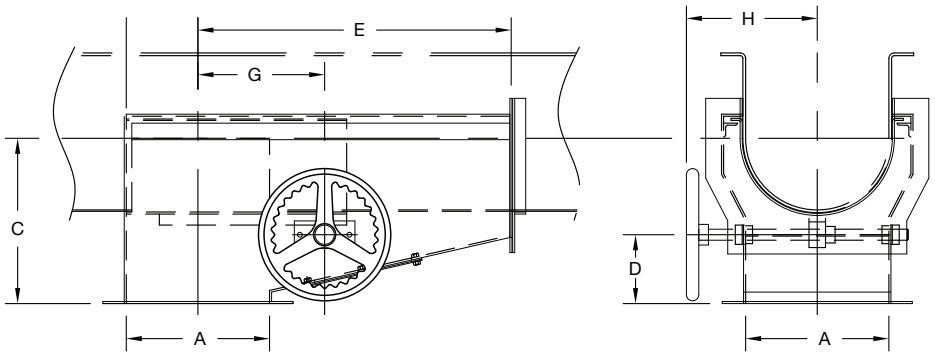
① Add –F for Fitted

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



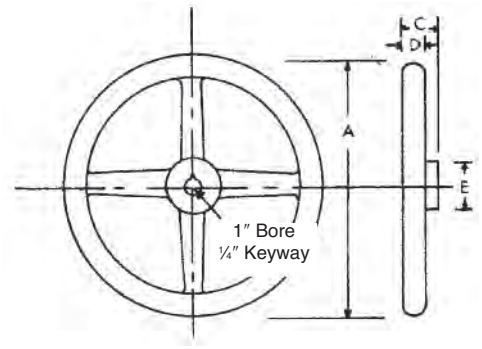
Screw Diameter	A	C	D	E	G	H	K Diameter	L
4	5	7½	2½	12	6	7	12	7½
6	7	10	4	18½	7½	8	12	9
9	10	12½	5	23	9	11	12	10
10	11	13	5	25	10	11½	12	10½
12	13	15	5	28	11½	13	12	10½
14	15	15½	5½	31	12½	14	12	10½
16	17	16½	5½	34	13½	15	12	10½
18	19	18½	6½	38½	15	16½	12	11½
20	21	20	7	40½	16	17½	12	12
24	25	23	8	47½	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	3/16-¼	10	9RPFD10	81	9RPCD10	89
10	14-12-10	14	10RPFD14	84	10RPCD14	92
10	3/16-¼	10	10RPFD10	93	104PCD10	102
12	12-10	12	12RPFD12	141	12RPCD12	155
12	3/16-¼	3/16	12RPFD7	158	12RPCD7	174
14	12-10	12	14RPFD12	160	14RPCD12	176
14	3/16-¼	3/16	14RPFD7	185	14RPCD7	204
16	12-10	12	16RPFD12	168	16RPCD12	185
16	3/16-¼	3/16	16RPFD7	197	16RPCD7	217
18	12-10	12	18RPFD12	240	18RPCD12	264
18	3/16-¼	3/16	18RPFD7	277	18RPCD7	305
20	10	12	20RPFD12	278	20RPCD12	306
20	3/16-¼	3/16	20RPFD7	318	20RPCD7	350
24	10	12	24RPFD12	350	24RPCD12	385
24	3/16-¼	3/16	24RPFD7	402	24RPCD7	442

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

Flange drilling is standard. See page H-43
① Add –F for Fitted

Discharge Gate Accessories

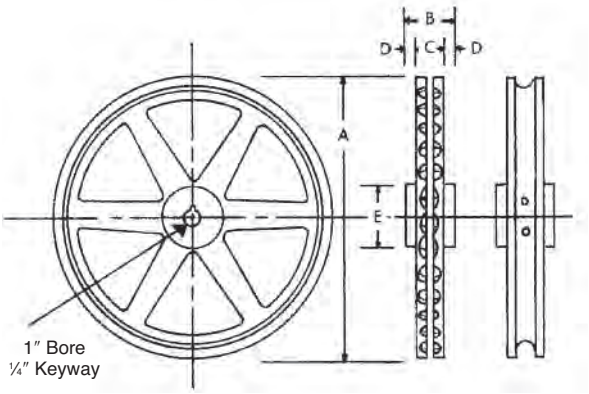


Hand Wheel

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.
NOTE: Zinc or nickel plated hand wheels available on request.



Pocket Wheel & Rope Wheel

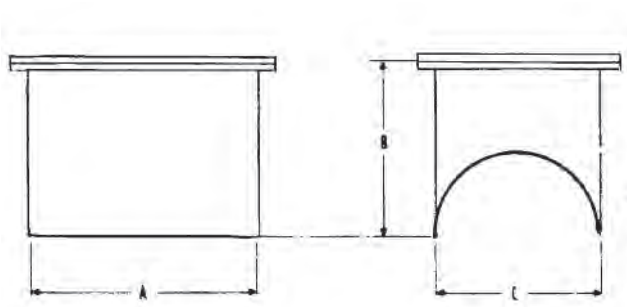
Dimensions in Inches and Average Weights in Pounds

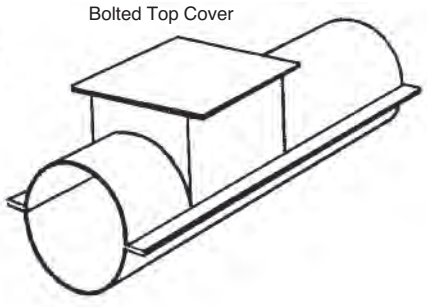
Wheel Diameter	Part No.	Weight	A	B	C	D	E
Chain Wheel	20PW1	11	12¾	2	1⅜	5⁄16	2
Rope Wheel	12RW1	13	12⅝	2¼	1⅝	1¼	1⅞

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.
NOTE: Zinc or nickel plated hand wheels available on request.
316 PC Pocket Chain in Stock

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.





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	55
20	20CPH10	18	13¾	21	70
24	24CPH10	18	16¾	25	85

Trough Ends

9	TEF	3	-BB	-P

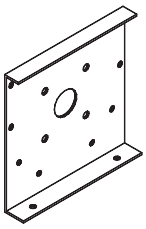
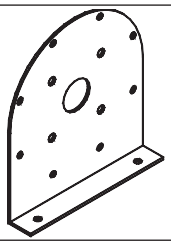
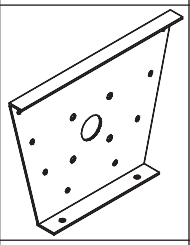
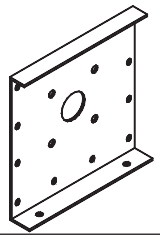
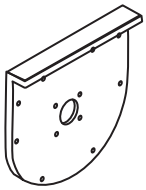
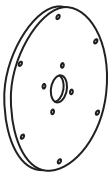
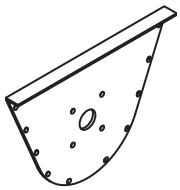
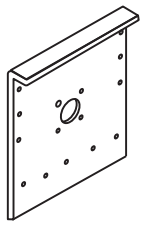
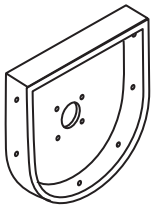
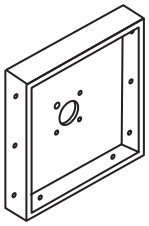
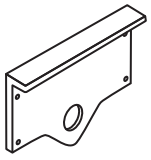
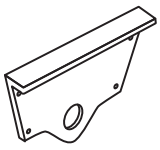
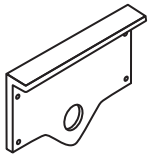
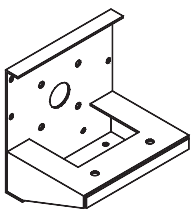
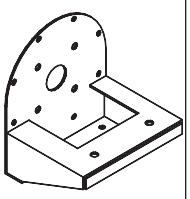
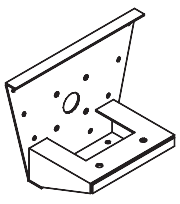
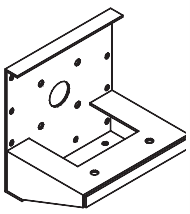
Conveyor Diameter

Type
TE — Outside W/O Feet
TEF — Outside W/Feet
TEI — Inside
TER — Inside Rectangular
TEO — Single Bearing Pedestal
TEOD — Double Bearing Pedestal
FTEF — Outside Flared W/Feet
FTE — Outside Flared W/O Feet
FTEO — Single Bearing Flared Pedestal
FTDO — Flared Discharge End
TDO — Outside Discharge End
TDI — Inside Discharge End
CHTE — Outside Tubular W/O Feet
CHTEF — Outside Tubular W/Feet
SCD —Dorris Screw Drive

Bearing Type
BB - Ball
RB - Roller

Plate Only

Coupling Diameter
2 — 1"
3 — 1-1/2"
4 — 2"
5 — 2-7/16"
6 — 3"
7 —3-7/16"

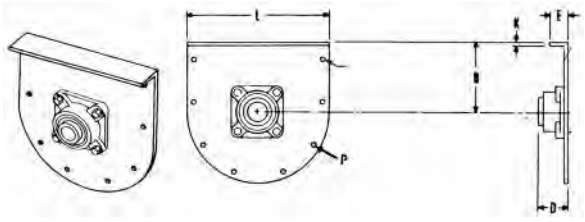
	U-TROUGH	TUBULAR TROUGH	FLARED TROUGH	RECTANGULAR TROUGH	
OUTSIDE TROUGH ENDS WITH FEET					Most common type used as trough support is included.
OUTSIDE TROUGH ENDS WITHOUT FEET					Trough support not included.
INSIDE PATTERN TROUGH ENDS		Available on application	Available on application		Used where space is limited or trough does not have end flange.
DISCHARGE TROUGH ENDS		Available on application			For end discharge conveyors. Special flange bearing required.
OUTBOARD BEARING TROUGH ENDS SINGLE					Used when compression type packing gland seal or split gland seal required.

CONVEYORS

Trough Ends

Outside Less Feet

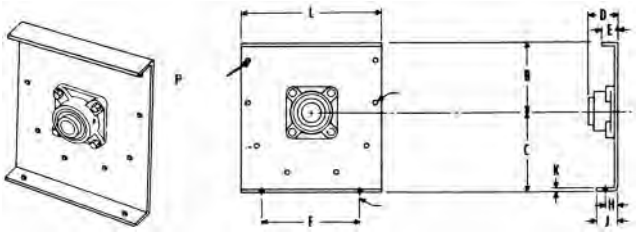
Outside trough ends less feet are used to support end bearing and cover when no trough support is required. Drilling for bronze bearing or flanged ball bearing is standard.



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	2⁹⁄₁₆	1⅝		1⁷⁄₁₆	¼	8⅛	⅜	3	⁷⁄₁₆ × ⁹⁄₁₆
6	1½	6TE3–*	4½	3⁹⁄₁₆	2⁹⁄₁₆	3¹¹⁄₁₆	1½	¼	10⅛	⅜	4	⁷⁄₁₆ × ⁹⁄₁₆
9	1½ 2	9TE3–* 9TE4–*	6⅛ 6⅛	3¼ 4¼	2⁹⁄₁₆ 2½	3¹¹⁄₁₆ 3¹³⁄₁₆	1⅝ 1⅝	¼ ¼	13¾ 13¾	⅜ ⅜	9 9	⁷⁄₁₆ × ⁹⁄₁₆
10	1½ 2	10TE3–* 10TE4–*	6⅜ 6⅜	3¼ 4¼	2⁹⁄₁₆ 2½	3¹¹⁄₁₆ 3¹³⁄₁₆	1¾ 1¾	¼ ¼	14¾ 14¾	⅜ ⅜	11 11	⁷⁄₁₆ × ⁹⁄₁₆ ⁷⁄₁₆ × ⁹⁄₁₆
12	2 2⁷⁄₁₆ 3	12TE4–* 12TE5–* 12TE6–*	7¾ 7¾ 7¾	4¼ 5¼ 6¼	2⁹⁄₁₆ 2¹⁵⁄₁₆ 3¾	3⅞ 4⁷⁄₁₆ 4¹⁵⁄₁₆	2 2 2	¼ ¼ ¼	17¼ 17¼ 17¼	½ ½ ½	20 20 20	⁹⁄₁₆ × ¹¹⁄₁₆
14	2⁷⁄₁₆ 3	14TE5–* 14TE6–*	9¼ 9¼	5⁵⁄₁₆ 5⁵⁄₁₆	2¹⁵⁄₁₆ 3¾	4⁷⁄₁₆ 4¹⁵⁄₁₆	2 2	¼ ¼	19¼ 19¼	½ ½	35 35	⁹⁄₁₆ × ¹¹⁄₁₆
16	3	16TE6–*	10⅝	6⁵⁄₁₆	3¹³⁄₁₆	5	2½	⁵⁄₁₆	21¼	⅝	42	¹¹⁄₁₆ × ¹³⁄₁₆
18	3 3⁷⁄₁₆	18TE6–* 18TE7–*	12⅛ 12⅛	6⅜ 7⅜	3¹³⁄₁₆ 4⁵⁄₁₆	5 5⁹⁄₁₆	2½ 2½	⅜ ⅜	24¼ 24¼	⅝ ⅝	60 60	¹¹⁄₁₆ × ¹³⁄₁₆
20	3 3⁷⁄₁₆	20TE6–* 20TE7–*	13½ 13½	6⅜ 7⅜	3⅞ 4⅜	5¹⁄₁₆ 5⅝	2½ 2½	⅜ ⅜	26¼ 26¼	⅝ ⅝	90 90	¹¹⁄₁₆ × ¹³⁄₁₆
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–*	3⅜	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	2⁹⁄₁₆	3¹¹⁄₁₆	1½	8⅛	1	1¾	¼	10⅛	⅜	⅜	7	⁷⁄₁₆ × ⁹⁄₁₆
9	1½ 2	9TEF3–* 9TEF4–*	6⅛ 6⅛	7⅞ 7⅞	3¹⁵⁄₁₆ 4¹⁵⁄₁₆	2⁹⁄₁₆ 2½	3¹¹⁄₁₆ 3¹³⁄₁₆	1⅝ 1⅝	9⅜ 9⅜	1½ 1½	2⅝ 2⅝	¼ ¼	13¾ 13¾	½ ½	⅜ ⅜	12 12	⁷⁄₁₆ × ⁹⁄₁₆ ⁷⁄₁₆ × ⁹⁄₁₆
10	1½ 2	10TEF3–* 10TEF4–*	6⅜ 6⅜	8⅞ 8⅞	3¹⁵⁄₁₆ 4¹⁵⁄₁₆	2⁹⁄₁₆ 2½	3¹¹⁄₁₆ 3¹³⁄₁₆	1¾ 1¾	9½ 9½	1¾ 1¾	2⅞ 2⅞	¼ ¼	14¾ 14¾	½ ½	⅜ ⅜	14 14	⁷⁄₁₆ × ⁹⁄₁₆ ⁷⁄₁₆ × ⁹⁄₁₆
12	2 2⁷⁄₁₆ 3	12TEF4–* 12TEF5–* 12TEF6–*	7¾ 7¾ 7¾	9⅝ 9⅝ 9⅝	5 5½ 5⅝	2⁹⁄₁₆ 2¹⁵⁄₁₆ 3¾	3⅞ 4⁷⁄₁₆ 4¹⁵⁄₁₆	2 2 2	12¼ 12¼ 12¼	1⅝ 1⅝ 1⅝	2¾ 2¾ 2¾	¼ ¼ ¼	17¼ 17¼ 17¼	⅝ ⅝ ⅝	½ ½ ½	23 23 23	⁹⁄₁₆ × ¹¹⁄₁₆ ⁹⁄₁₆ × ¹¹⁄₁₆ ⁹⁄₁₆ × ¹¹⁄₁₆
14	2⁷⁄₁₆ 3	14TEF5–* 14TEF6–*	9¼ 9¼	10⅞ 10⅞	5½ 5⅝	2¹⁵⁄₁₆ 3¾	4⁷⁄₁₆ 4¹⁵⁄₁₆	2 2	13½ 13½	1⅝ 1⅝	2⅞ 2⅞	¼ ¼	19¼ 19¼	⅝ ⅝	½ ½	38 38	⁹⁄₁₆ × ¹¹⁄₁₆ 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 3⁷⁄₁₆	18TEF6–* 18TEF7–*	12⅛ 12⅛	13⅜ 13⅜	5¹¹⁄₁₆ 6¹⁵⁄₁₆	3¹³⁄₁₆ 4⁵⁄₁₆	5 5⁹⁄₁₆	2½ 2½	16 16	2 2	3¼ 3¼	⅜ ⅜	24¼ 24¼	⅝ ⅝	⅝ ⅝	67 67	¹¹⁄₁₆ × ¹³⁄₁₆ ¹¹⁄₁₆ × ¹³⁄₁₆
20	3 3⁷⁄₁₆	20TEF6–* 20TEF7–*	13½ 13½	15 15	5¾ 7	3⅞ 4⅜	5¹⁄₁₆ 5⅝	2½ 2½	19¼ 19¼	2¼ 2¼	3¾ 3¾	⅜ ⅜	26¼ 26¼	¾ ¾	⅝ ⅝	120 120	¹¹⁄₁₆ × ¹³⁄₁₆ 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

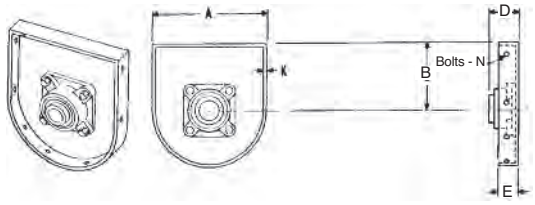
▲ Can be furnished with CSP, CSW, or CSFP seals

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

CONVEYORS

Inside

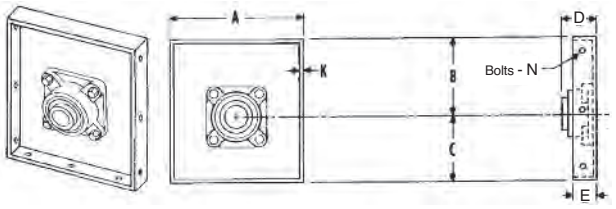
Inside trough ends are used in place of outside type where no trough end flanges are required. Drilling for bronze bearings or flanged ball bearing is standard.



Conveyor Diameter	Shaft Diameter	▲ Part Number	A	B	D			E	K	N	Weight
					Friction Bearing	Ball Bearing	Roller Bearing				
4	1	4TEI2–*	5	3⅝	2⁹⁄₁₆	1⅝	—	2	¼	¼	3
6	1½	6TEI3–*	7	4½	3⁹⁄₁₆	2⁹⁄₁₆	3¹¹⁄₁₆	2	¼	⁵⁄₁₆	5
9	1½	9TEI3–*	10	6⅛	3¼	2⁹⁄₁₆	3¹¹⁄₁₆	2	¼	⅜	9
	2	9TEI4–*	10	6⅛	4¼	2½	3¹³⁄₁₆	2	¼	⅜	9
10	1½	10TEI3–*	11	6⅝	3¼	2⁹⁄₁₆	3¹¹⁄₁₆	2	¼	⅜	11
	2	10TEI4–*	11	6⅜	4¼	2½	3¹³⁄₁₆	2	¼	⅜	11
12	2	12TEI4–*	13	7¾	4¼	2⁹⁄₁₆	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	¼	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	2⁹⁄₁₆	1⅝	—	2	¼	¼	4
6	1½	6TER3–*	7	4½	3½	3⁹⁄₁₆	2⁹⁄₁₆	3¹¹⁄₁₆	2	¼	⁵⁄₁₆	6
9	1½	9TER3–*	10	6⅛	5	3¼	2⁹⁄₁₆	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	2⁹⁄₁₆	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	2⁹⁄₁₆	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	¼	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

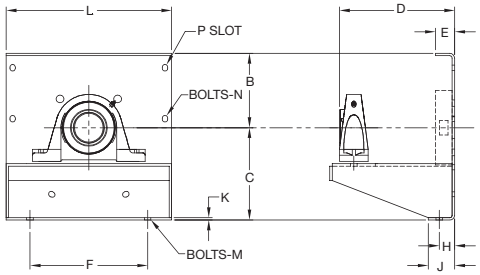
▲ Can be furnished with CSP, CSW, or CSS seals

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

Trough Ends

Single Bearing

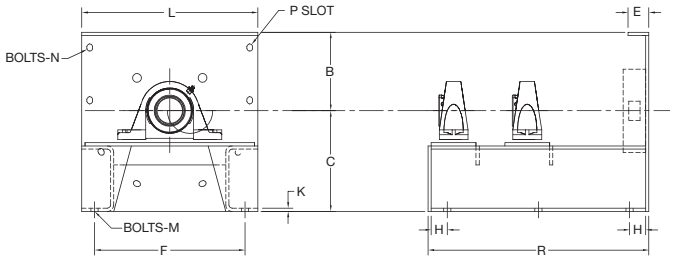
Single bearing pedestal type trough ends are constructed with base for mounting pillow block bearings and shaft seal or packing gland.



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													

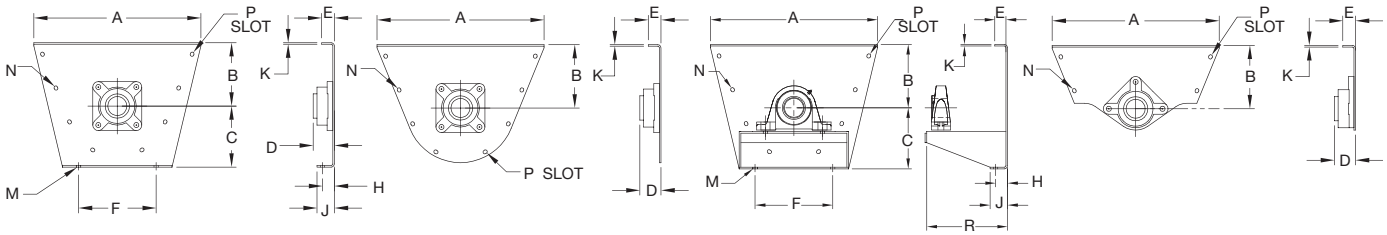
Double Bearing

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	3³⁄₁₆	2³⁄₁₆	3¾	1½	8⅛	1	1¾	¼	⅜	⅜	Consult Factory	⁷⁄₁₆ × ⁹⁄₁₆
9	1½ 2	21¼ 21¼	9 9	7⅞ 7⅞	3¼ 4¼	2³⁄₁₆ 2½	3¾ 3⅞	1⅝ 1⅝	9⅜ 9⅜	1½ 1½	2⅝ 2⅝	¼ ¼	½ ½	⅜ ⅜		⁷⁄₁₆ × ⁹⁄₁₆ ⁷⁄₁₆ × ⁹⁄₁₆
12	2 2⁷⁄₁₆ 3	26⅜ 26⅜ 26⅜	10 10 10	9⅝ 9⅝ 9⅝	4¼ 5¼ 6¼	2⁹⁄₁₆ 2¹⁵⁄₁₆ 3¾	3⅜ 4½ 5	2 2 2	12¼ 12¼ 12¼	1⅜ 1⅜ 1⅜	2¾ 2¾ 2¾	¼ ¼ ¼	⅝ ⅝ ⅝	½ ½ ½		⁹⁄₁₆ × ¹¹⁄₁₆ ⁹⁄₁₆ × ¹¹⁄₁₆ ⁹⁄₁₆ × ¹¹⁄₁₆
14	2⁷⁄₁₆ 3	28⅜ 28⅜	11 11	10⅞ 10⅞	5⁵⁄₁₆ 6⁵⁄₁₆	2¹⁵⁄₁₆ 3¾	4½ 5	2 2	13½ 13½	1⅜ 1⅜	2⅞ 2⅞	¼ ⁵⁄₁₆	⅝ ⅝	½ ½		⁹⁄₁₆ × ¹¹⁄₁₆ ⁹⁄₁₆ × ¹¹⁄₁₆
16	3	32½	11½	12	6⁵⁄₁₆	3¹³⁄₁₆	5	2½	14⅞	2	3¼	⁵⁄₁₆	⅝	⅝		¹¹⁄₁₆ × ¹³⁄₁₆
18	3 3⁷⁄₁₆	36½ 36½	12⅛ 12⅛	13⅜ 13⅜	6⅜ 7⅜	3¹³⁄₁₆ 4⁵⁄₁₆	5 5⅝	2½ 2½	16 16	2 2	3¼ 3¼	⅜ ⅜	⅝ ⅝	⅝ ⅝		¹¹⁄₁₆ × ¹³⁄₁₆ ¹¹⁄₁₆ × ¹³⁄₁₆
20	3 3⁷⁄₁₆	39½ 39½	13½ 13½	15 15	6⅜ 7⅜	3⅞ 4⅜	5 5⅝	2½ 2½	19¼ 19¼	2¼ 2¼	3¾ 3¾	⅜ ⅜	¾ ¾	⅝ ⅝		¹¹⁄₁₆ × ¹³⁄₁₆ ¹¹⁄₁₆ × ¹³⁄₁₆
24	3⁷⁄₁₆	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 2	9FTEF3–* 9FTEF4–*	22 27	9FTE3–* 9FTE4–*	19 24	9FTEO3–* 9FTEO4–*	31 36	9FTDO3–** 9FTDO4–**	15 20
12	2 2⁷⁄₁₆ 3	12FTEF4–* 12FTEF5–* 12FTEF6–*	43 44 56	12FTE4–* 12FTE5–* 12FTE6–*	36 37 49	12FTEO4–* 12FTEO5–* 12FTEO6–*	63 64 76	12FTDO4–** 12FTDO5–** 12FTDO6–**	28 29 41
14	2⁷⁄₁₆ 3	14FTEF5–* 14FTEF6–*	52 64	14FTE5–* 14FTE6–*	43 55	14FTEO5–* 14FTEO6–*	75 87	14FTDO5–** 14FTDO6–**	33 45
16	3	16FTEF6–*	85	16FTE6–*	72	16FTEO6–*	125	16FTDO6–**	56
18	3 3⁷⁄₁₆	18FTEF6–* 18FTEF7–*	98 104	18FTE6–* 18FTE7–*	83 89	18FTEO6–* 18FTEO7–*	138 144	18FTDO6–** 18FTDO7–**	63 69
20	3 3⁷⁄₁₆	20FTEF6–* 20FTEF7–*	133 139	20FTE6–* 20FTE7–*	103 109	20FTEO6–* 20FTEO7–*	196 202	20FTDO6–** 20FTDO7–**	75 81
24	3⁷⁄₁₆	24FTEF7–*	179	24FTE7–*	132	24FTEO7–*	250	24FTDO7–**	96

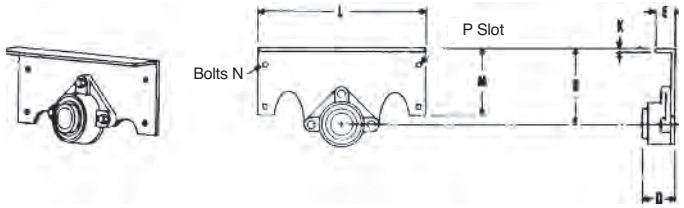
–*BB Ball Bearing
–*BR Bronze Bearing
–*RB Roller Bearing
–*P Less Bearing

For Bolt Pattern see Page H-42

Trough Ends

Outside Discharge

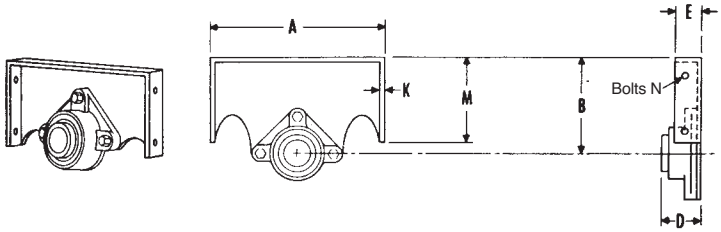
Outside discharge trough ends are used to support end bearing and will allow material to discharge or overflow through the end of the trough. Drilling for three bolt bronze or flanged ball bearing is standard.



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	3⅜	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	½	⁹⁄₁₆ × ¾	17
	3	14TDO6–*	9¼	6⁵⁄₁₆	3¾	4¹⁵⁄₁₆	2	¼	19¼	9¼	½	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	5⁹⁄₁₆	2	⅜	23½	12⅛	⅝	¹¹⁄₁₆ × ⅞	33
20	3	20TDO6–*	13½	6⅜	3⅜	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.



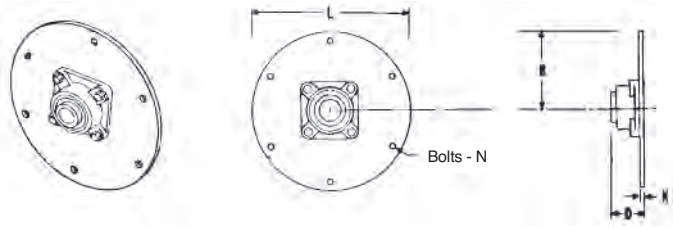
Conveyor Diameter	Shaft Diameter	Part Number	A	B	D			E	K	M	N	Weight
					Friction Bearing	Ball Bearing	Roller Bearing					
4	1	4TDI2–*	5	3⅝	2⁹⁄₁₆	1⅝		2	¼	3⅝	⅜	2
6	1½	6TDI3–*	7	4½	3⅜	2⁹⁄₁₆	3¹¹⁄₁₆	2	¼	4½	⅜	3
9	1½	9TDI3–*	10	6⅛	3¼	2⁹⁄₁₆	3¹¹⁄₁₆	2	¼	6⅛	⅜	5
	2	9TDI4–*	10	6⅛	4¼	2½	3¹³⁄₁₆	2	¼	6⅛	⅜	5
10	1½	10TDI3–*	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	¼	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	5⁹⁄₁₆	2	⅜	12⅛	⅝	32
20	3	20TDI16–*	21	13½	6⅜	3⅞	5⁹⁄₁₆	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
_*RB Roller Bearing
–*P Less Bearing

Trough Ends

Outside

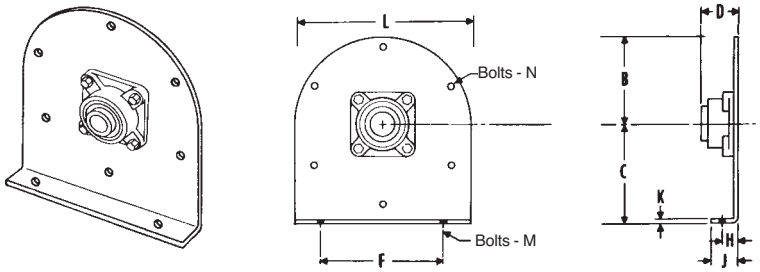
Outside tubular trough ends less feet are used to support end bearings on tubular trough where no foot or support is required. Drilling for bronze or flanged ball bearing is standard.



Conveyor Diameter	Shaft Diameter	Part Number	B	D			K	L	N	Weight
				Friction Bearing	Ball Bearing	Roller Bearing				
4	1	4CHTE2–*	4	2 3/16	1 5/8		1/4	8	3/8	2
6	1 1/2	6CHTE3–*	5 1/16	3 3/16	2 3/16	3 11/16	1/4	10 1/8	3/8	3
9	1 1/2	9CHTE3–*	6 5/8	3 1/4	2 3/16	3 11/16	1/4	13 1/4	3/8	6
	2	9CHTE4–*	6 5/8	4 1/4	2 1/2	3 13/16	1/4	13 1/4	3/8	6
10	1 1/2	10CHTE3–*	7 5/8	3 1/4	2 3/16	3 11/16	1/4	14 3/4	3/8	7
	2	10CHTE4–*	7 5/8	4 1/4	2 1/2	3 13/16	1/4	14 3/4	3/8	7
12	2	12CHTE4–*	8 1/8	4 1/4	2 3/16	3 7/8	1/4	16 1/4	1/2	13
	2 7/16	12CHTE5–*	8 1/8	5 1/4	2 15/16	4 7/16	1/4	16 1/4	1/2	13
	3	12CHTE6–*	8 1/8	6 1/4	3 3/4	4 15/16	1/4	16 1/4	1/2	13
14	2 7/16	14CHTE5–*	9 1/8	5 5/16	2 15/16	4 7/16	1/4	18 1/4	1/2	19
	3	14CHTE6–*	9 1/8	6 5/16	3 3/4	4 15/16	1/4	18 1/4	1/2	19
16	3	16CHTE6–*	10 5/8	6 5/16	3 13/16	5	5/16	21 1/4	5/8	29
18	3	18CHTE6–*	12 1/8	6 3/8	3 13/16	5	3/8	24 1/4	5/8	39
	3 7/16	18CHTE7–*	12 1/8	7 5/8	4 5/16	5 5/16	3/8	24 1/4	5/8	39
20	3	20CHTE6–*	13 1/8	6 5/8	3 7/8	5 1/16	3/8	26 1/4	5/8	63
	3 7/16	20CHTE7–*	13 1/8	7 5/8	4 3/8	5 5/8	3/8	26 1/4	5/8	63
24	3 7/16	24CHTE7–*	15 1/8	7 5/8	4 3/8	5 5/8	3/8	30 1/4	5/8	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.



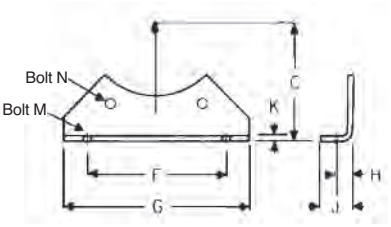
Conveyor Diameter	Shaft Diameter	Part Number	B	C	D			F	H	J	K	L	M	N	Weight
					Friction Bearing	Ball Bearing	Roller Bearing								
4	1	4CHTEF2–*	4	4 5/8	2 3/16	1 5/8		5 3/4	1	1 5/8	1/4	8	3/8	3/8	3
6	1 1/2	6CHTEF3–*	5 1/16	5 5/8	3 3/16	2 3/16	3 11/16	8 1/8	1	1 3/4	1/4	10 1/8	3/8	3/8	5
9	1 1/2	9CHTEF3–*	6 5/8	7 5/8	3 1/4	2 3/16	3 11/16	9 3/8	1 1/2	2 5/8	1/4	13 1/4	1/2	3/8	10
	2	9CHTEF4–*	6 5/8	7 5/8	4 1/4	2 1/2	3 13/16	9 3/8	1 1/2	2 5/8	1/4	13 1/4	1/2	3/8	10
10	1 1/2	10CHTEF3–*	7 5/8	8 5/8	3 1/4	2 3/16	3 11/16	9 1/2	1 3/4	2 7/8	1/4	14 3/4	1/2	3/8	12
	2	10CHTEF4–*	7 5/8	8 5/8	4 1/4	2 1/2	3 13/16	9 1/2	1 3/4	2 7/8	1/4	14 3/4	1/2	3/8	12
12	2	12CHTEF4–*	8 1/8	9 5/8	4 1/4	2 3/16	3 7/8	12 1/4	1 5/8	2 3/4	1/4	16 1/4	5/8	1/2	22
	2 7/16	12CHTEF5–*	8 1/8	9 5/8	5 1/4	2 15/16	4 7/16	12 1/4	1 5/8	2 3/4	1/4	16 1/4	5/8	1/2	22
	3	12CHTEF6–*	8 1/8	9 5/8	6 1/4	3 3/4	4 15/16	12 1/4	1 5/8	2 3/4	1/4	16 1/4	5/8	1/2	22
14	2 7/16	14CHTEF5–*	9 1/8	10 7/8	5 5/16	2 15/16	4 7/16	13 1/2	1 5/8	2 7/8	1/4	18 1/4	5/8	1/2	24
	3	14CHTEF6–*	9 1/8	10 7/8	6 5/16	3 3/4	4 15/16	13 1/2	1 5/8	2 7/8	1/4	18 1/4	5/8	1/2	24
16	3	16CHTEF6–*	10 5/8	12	6 5/16	3 13/16	5	14 7/8	2	3 1/4	5/16	21 1/4	5/8	5/8	44
18	3	18CHTEF6–*	12 1/8	13 3/8	6 3/8	3 13/16	5	16	2	3 1/4	3/8	24 1/4	5/8	5/8	56
	3 7/16	18CHTEF7–*	12 1/8	13 3/8	7 5/8	4 5/16	5 5/16	16	2	3 1/4	3/8	24 1/4	5/8	5/8	56
20	3	20CHTEF6–*	13 1/8	15	6 3/8	3 7/8	5 1/16	19 1/4	2 1/4	3 3/4	3/8	26 1/4	3/4	5/8	92
	3 7/16	20CHTEF7–*	13 1/8	15	7 5/8	4 3/8	5 5/8	19 1/4	2 1/4	3 3/4	3/8	26 1/4	3/4	5/8	92
24	3 7/16	24CHTEF7–*	15 1/8	18 1/8	7 5/8	4 3/8	5 5/8	20	2 1/2	4 1/8	3/8	30 1/4	3/4	5/8	134

–*BB Ball Bearing
–*RB Roller Bearing

–*BR Bronze Bearing

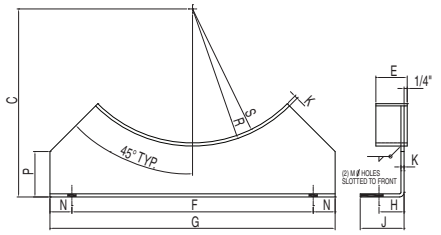
For Bolt Pattern see Page H-43

Saddles — Feet
Trough End Flanges



Flange Foot

Trough feet are used to support trough at trough connections.



Saddle

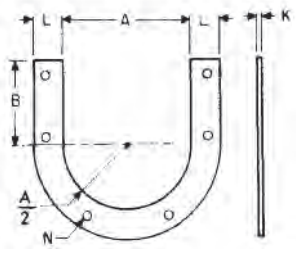
Trough saddles are used to support trough where flange feet cannot be used at connections.

Conveyor Diameter	Part Number			Weight		
	Saddle	Tubular	Flange Foot	Saddle	Tubular	Flange Foot
4	4TS	4CHTFF	4TFF	1.5	1	1.5
6	6TS	6CHTFF	6TFF	2.0	2	2.0
9	9TS	9CHTFF	9TFF	4.5	4.5	4.5
10	10TS	10CHTFF	10TFF	5.0	4.5	5.0
12	12TS	12CHTFF	12TFF	6.0	5	6.0
14	14TS	14CHTFF	14TFF	7.0	7	7.0
16	16TS	16CHTFF	16TFF	8.0	8	7.5
18	18TS	18CHTFF	18TFF	10	10	9.5
20	20TS	20CHTFF	20TFF	13	11	12.51
24	24TS	24CHTFF	24TFF	15	12	14.5

Conveyor Diameter	C	E	F	G	H	J	K	M*	N
4	4⅝	1 3/16	5¾	7⅞	1	1⅝	3/16	½	⅜
6	5⅝	1 3/16	8⅛	10	1¼	2	3/16	½	⅜
9	7⅛	1½	9⅜	12	1½	2⅝	3/16	½	⅜
10	8⅛	1½	9½	12⅜	1¾	2⅞	3/16	½	⅜
12	9⅝	1½	12¼	15	1⅝	2¾	¼	⅝	½
14	10⅞	1¾	13½	16½	1⅜	2½	¼	⅝	½
16	12	1¾	14⅞	18	2	3¼	¼	⅝	⅝
18	13⅜	1¾	16	19⅛	2	3¼	¼	⅝	⅝
20	15	2¼	19¼	22¾	2¼	3¾	¼	¾	⅝
24	18⅛	2¼	20	24	2¼	4	¼	¾	⅝

*Holes for Bolt M Slotted

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 13/16	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.
**Subtract 1/8 when using plate trough.
*** For White Rubber Gasket Add WN

Trough Covers

Trough Cover

14	TCP	14	-12

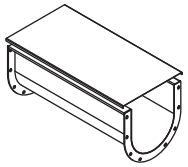
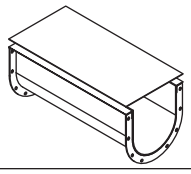
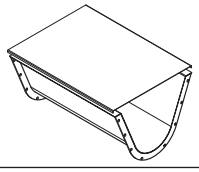
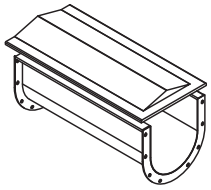
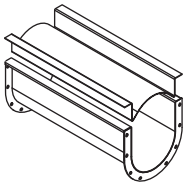
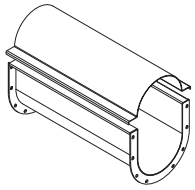
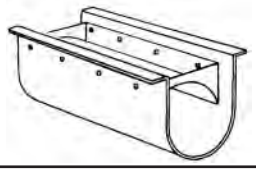
— Length of Cover

Conveyor Diameter

Type
TCP — Plain
TCS — Semi Flanged
TCF — Flanged
TCH — Hip Roof
TSC — Shroud

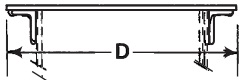
Cover Thickness
16 — 16 GA.
14 — 14 GA.
12 — 12 GA
10 — 10 GA.

It is the responsibility of the contractor, installer, owner and user to install, maintain and operate the conveyor components and conveyor assemblies manufactured and supplied by Martin in such a manner as to comply with the Williams-Steiger Occupational Safety and Health Act and with all state and local laws and ordinances and the American National Standard Institute Safety Code.

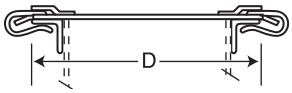
Flanged Covers		Most commonly used. Can be supplied with gaskets and butt straps for dust tight applications. Semi-flanged must be furnished if spring clamps are used.
Flat Covers		Usually used only to cover conveyor for safety.
Flared Trough Covers		Usually flanged type and heavier gauges because of span.
Hip Roof Covers		Hip roof covers are similar to conventional flanged covers except they are peaked slightly to form a ridge along the center of the cover. A welded end plate closes the peaked section at each end of the trough while intermediate joints are usually buttstrap connected. Hip roof covers are usually recommended for outdoor installations to prevent accumulation of moisture. They are also often used in applications where a more rigid cover is required.
Shroud Covers		Used to approximate tubular cross section for inclined or feeder applications.
Domed Covers		Domed covers are half circle domes rolled to the same inside diameter as the trough bottom and are flanged for bolting to the trough top rails. They are used where venting of fumes or heat from the material being conveyed is required. End sections have a welded end plate and intermediate joints are buttstrap connected. Vent pipes or suction lines can be attached to the cover.
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.

Trough Cover

Plain Cover

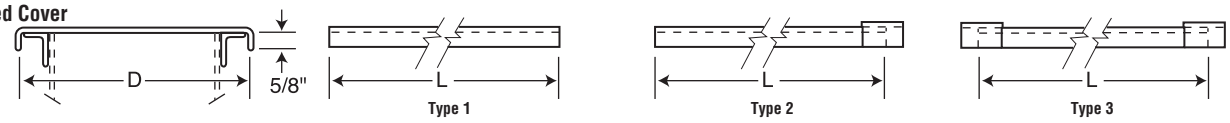


Semi-flanged Cover

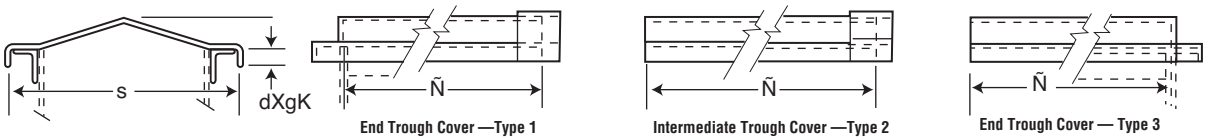


All conveyor troughs should have some type of cover not only to keep material inside the trough and to protect material in the trough from outside elements, **but trough definitely should be covered as a safety measure,** preventing injuries by keeping workers clear of the moving parts inside the conveyor trough. See H-123, 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 4TCS14	□ 16 14	2.1 2.6	7¼	4TCF16 4TCF14	□ 16 14	1.9 2.4	8⅜	4TCH16 4TCH14	□ 16 14	2.0 2.5	8⅜
6 *	6TCP16	16	2.0	9¾	6TCS16 6TCS14	□ 16 14	2.3 3.8	9¾	6TCF16 6TCF14	□ 16 14	2.1 2.6	10⅜	6TCH16 6TCH14	□ 16 14	2.3 2.8	10⅜
9 *	9TCP14	14	3.5	13⅜	9TCS14 9TCS12 9TCS10	□ 14 12 10	4.1 5.7 7.3	13⅜	9TCF16 9TCF14 9TCF12 9TCF10	16 □ 14 12 10	3.2 3.9 5.5 7.1	14	9TCH16 9TCH14	16 □ 14	3.3 4.1	14
10 *	10TCP14	14	3.8	14⅜	10TCS14 10TCS12 10TCS10	□ 14 12 10	4.4 6.1 7.8	14⅜	10TCF16 10TCF14 10TCF12 10TCF10	16 □ 14 12 10	3.4 4.2 5.9 7.6	15	10TCH16 10TCH14	16 □ 14	3.5 4.3	15
12 **	12TCP14	14	4.6	17½	12TCS14 12TCS12 12TCS10	□ 14 12 10	5.1 7.1 9.0	17⅜	12TCF14 12TCF12 12TCF10	□ 14 12 10	4.9 6.9 8.8	18	12TCH14 12TCH12	□ 14 12	5.0 7.1	18
14 **	14TCP14	14	5.1	19½	14TCS14 14TCS12 14TCS10	□ 14 12 10	5.6 7.8 9.9	19⅜	14TCF14 14TCF12 14TCF10	□ 14 12 10	5.4 7.6 9.7	19⅞	14TCH14 14TCH12	□ 14 12	5.5 7.7	19⅞
16 **	16TCP14	14	5.6	21½	16TCS14 16TCS12 16TCS10	□ 14 12 10	6.1 8.5 10.8	21⅜	16TCF14 16TCF12 16TCF10	□ 14 12 10	5.9 8.3 10.6	21⅞	16TCH14 16TCH12	□ 14 12	6.1 8.5	21⅞
18 **	18TCP12	12	8.9	24½	18TCS12 18TCS10	□ 12 10	9.6 12.3	24½	18TCF14 18TCF12 18TCF10	14 □ 12 10	6.7 9.4 12.1	25	18TCH14 18TCH12	14 □ 12	6.8 9.5	25
20 **	20TCP12	12	9.7	26½	20TCS12 20TCS10	□ 12 10	10.3 13.3	26½	20TCF14 20TCF12 20TCF10	14 □ 12 10	7.2 10.1 13.1	27	20TCH14 20TCH12	14 □ 12	7.4 10.4	27
24 **	24TCP12	12	11.1	30½	24TCS12 24TCS10	□ 12 10	11.8 15.1	30½	24TCF14 24TCF12 24TCF10	14 □ 12 10	8.3 11.6 14.9	31	24TCH14 24TCH12	14 □ 12	8.4 11.8	31

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″

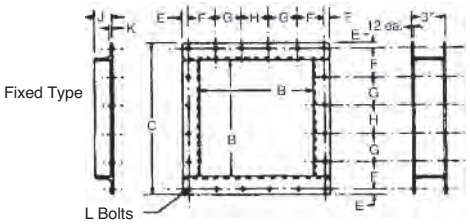
**L — Standard lengths are 5´, 6´, 10´ & 12´-0″

□ — 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.



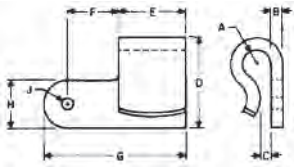
Conveyor Diameter	Part Number		Weight	B	C		E		F	G	H	J	K	L
	Fixed Inlet	Detachable Inlet			Fixed Inlet	Detachable Inlet	Fixed Inlet	Detachable Inlet						
4	4CIF	4CID	1.8	5	7½	7½	⅜	⅜	2¼	—	2¼	1¼	3/16	¼
6	6CIF	6CID	5.0	7	10	10	11/16	11/16	2 13/16	—	3	1½	3/16	⅜
9	9CIF	9CID	6.8	10	13	13	½	½	4	—	4	1½	3/16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



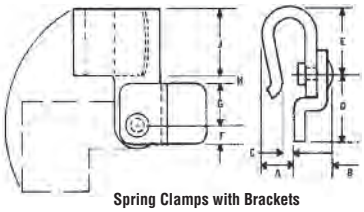
Spring Clamps

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	1 1/16	⅜	3/16	1¼	1 3/16	⅜	⅞	⅜	1¼	.50



Spring Clamps with Brackets

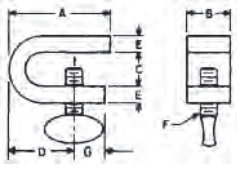
Screw Clamps

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

Screw Clamps available in mild steel, stainless steel and zinc plated.

Screw Clamp

Clamp No.	A	B	C	D	E	F	G	Wt.
CSC—2	2¼	1	1 3/16	1¼	5/16	⅜	5/8	.42



Screw Clamps

Cover Gaskets

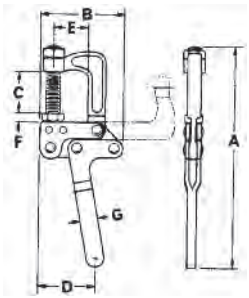
	Red Rubber	Sponge Rubber	*White Rubber
Conv. Dia.	Size	Size	Size
4.6	RR125 ⅛X 1¼	SP75 ⅛X ¾	WN125 ⅛X 1¼
9,10	RR150 ⅛X 1½	SP100 ⅛X 1	WN150 ⅛X 1½
12, 14, 16	RR200 ⅛X 2	SP150 ⅛X 1½	WN250 ⅛X 2
18, 20, 24	RR250 ⅛X 2½	SP200 ⅛X 2	WN250 ⅛X 2½

* FDA Approved

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	5/8

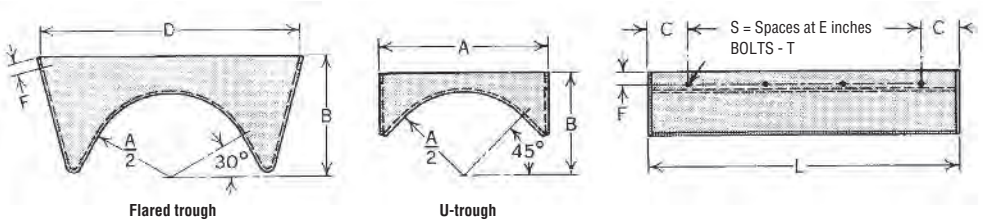


Toggle Clamps

CONVEYORS

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.

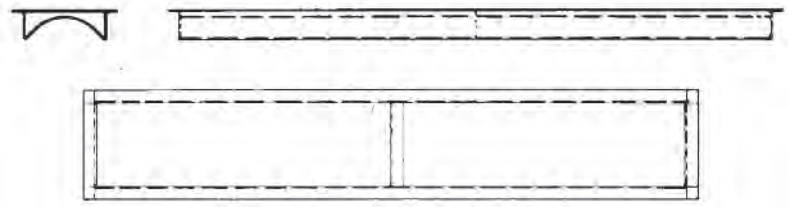


Flared trough U-trough

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	3⅝	—	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	1⅛	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

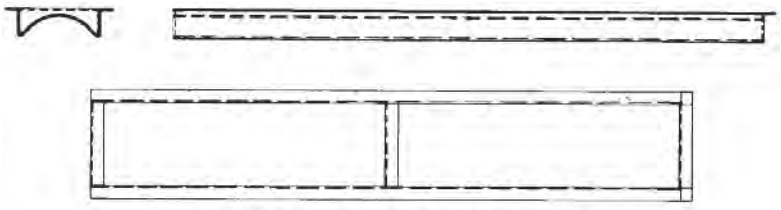
Conveyor Shrouds

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.



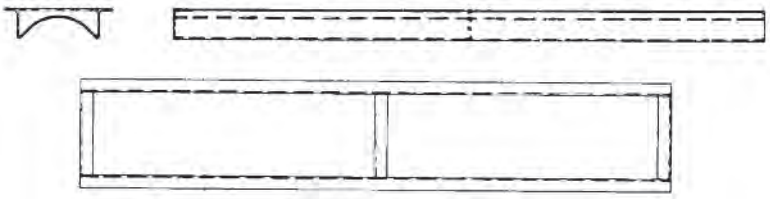
Type 1

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.



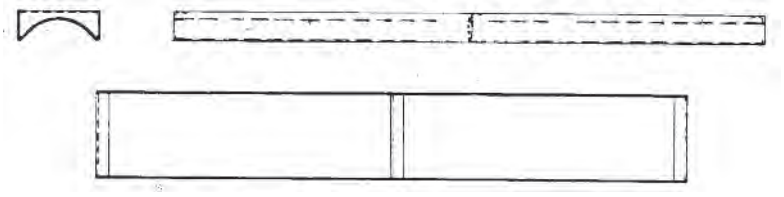
Type 2

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.