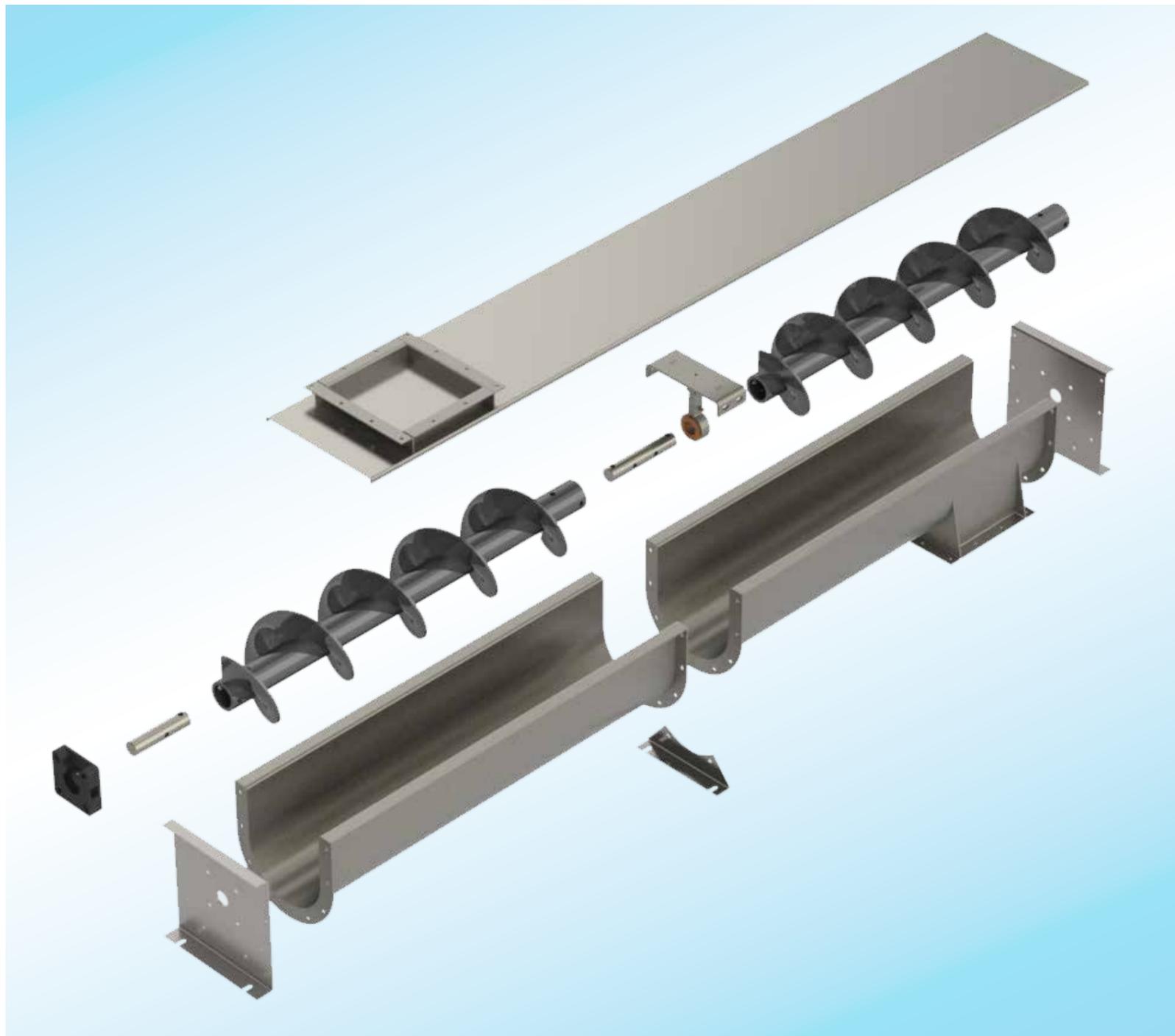


# CEMA COMPONENTS Reference Chart



# WAMGROUP CEMA Components Reference Chart



## Sectional Screws

WAM, Inc. SECTIONAL FLIGHT conveyor screws consist of individual flight segments which are cold-formed from separate flat-plate blanks and then butt-welded to form the helix. Pipe ends are bushed with close-tolerance internal collars which are pressure-inserted and plug-welded for maximum efficiency and service life.

The collars are accurately reamed for the proper coupling shaft diameter. Coupling bolt holes are jig-drilled for perfect alignment.

DIA	THK	CODE	DIA	THK	CODE	
6	10 GA	6S309	14	10 GA	14S509	
	3/16	6S312		3/16	14S512	
	1/4	6S316		1/4	14S516	
9	10 GA	9S309		3/16	14S612	
	3/16	9S312		1/4	14S616	
	1/4	9S316		3/8	14S624	
	10 GA	9S409	16	10 GA	16S609	
3/16	9S412	3/16		16S612		
1/4	9S416	1/4		16S616		
3/8	9S424	3/8		16S624		
10	10 GA	10S309	18	1/2	16S632	
	3/16	10S312		3/16	18S612	
	10 GA	10S409		1/4	18S616	
	3/16	10S412		3/8	18S624	
12	1/4	10S416	20	1/2	18S632	
	10 GA	12S409		1/4	18S716	
	3/16	12S412		3/8	18S724	
	1/4	12S416		1/2	18S732	
	10 GA	12S509		24	3/16	20S612
	3/16	12S512			1/4	20S616
1/4	12S516	3/8	20S624			
3/8	12S524	1/2	20S632			
12	3/16	12S612	24	3/16	20S712	
	1/4	12S616		1/4	20S716	
	3/8	12S624		3/8	20S724	
	1/2	20S732		1/2	20S732	
NOTE: The third character from the right indicates the coupling size						

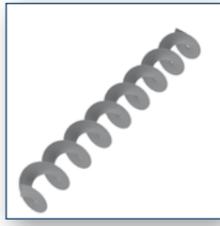


## Helicoid Screws

Standard WAM, Inc. HELICOID CONVEYOR screws are cold-rolled from special-analysis strip steels on unique rolling mills designed and built by WAM, Inc. Although the rolling operation compresses the outer flight edge, or periphery, to approximately 50% of the inside root, the cold-rolling process produces a smooth, work-hardened surface which

actually has increased wear resistance. To produce the completed conveyor section, the continuous, one piece helix is mounted on the conveyor pipe with heavy-duty end lugs and regularly spaced intermediate welds. For special applications, the flighting may be continuously welded to the pipe on one or both sides. Pipe ends are bushed with close-tolerance internal collars which are pressure-inserted and plug-welded for maximum efficiency and service life. The collars are accurately reamed for the proper coupling shaft diameter. Coupling bolt holes are jig-drilled for perfect alignment.

DIA	TIP THK	CODE	DIA	TIP THK	CODE
4	1/16	4H204	12	1/8	12H408
	3/32	4H206		3/16	12H412
6	1/16	6H304		1/8	12H508
	1/8	6H308		3/16	12H512
	3/16	6H312		7/32	12H614
9	3/32	9H306		14	1/8
	3/16	9H312	7/32		14H614
	3/32	9H406	16	5/32	16H610
	3/16	9H412		7/32	16H614
10	7/32	9H414	NOTE: The third character from the right indicates the coupling size		
	3/32	10H306			
	3/16	10H412			



## Helicoid Flightings

Standard WAM, Inc. HELICOID CONVEYOR screws are cold-rolled from special-analysis strip steels on unique rolling mills designed and built by WAM, Inc.

Although the rolling operation compresses the outer flight edge, or periphery, to approximately 50% of the inside root, the cold-rolling process produces a smooth, work-hardened surface which actually has increased wear resistance.

work-hardened surface which actually has increased wear resistance.

DIA	THK	CODE	DIA	THK	CODE
4	1/16	4HF204	12	1/8	12HF408
	3/32	4HF206		3/16	12HF412
6	1/16	6HF304		1/8	12HF508
	1/8	6HF308	3/16	12HF512	
	3/16	6HF312	7/32	12HF614	
9	3/32	9HF306	14	1/8	14HF508
	3/16	9HF312		7/32	14HF614
	3/32	9HF406	16	5/32	16HF610
	3/16	9HF412		7/32	16HF614
10	3/32	10HF306	NOTE: The third character from the right indicates the coupling size		
	3/16	10HF412			



## U-Troughs

ANGLE FLANGE - The most commonly employed U-trough is the angle-flanged type. The top flange is fabricated with heavy-duty structural steel angles welded flush with the top housing edge. End flanges are jig-welded to insure proper alignment with other trough sections. All our Troughs are sand blasted, primed and painted with a

high quality enamel paint.

FORMED FLANGE - The top flange is formed from the same sheet as the trough, resulting in a lightweight, yet rigid, housing section. End flanges are jig-welded for perfect alignment with other sections.

DIA	THK	CODE	DIA	THK	CODE
4	14 GA	4TU14 <sup>a</sup>	14	12 GA	14TU12 <sup>a</sup>
	12 GA	4TU12 <sup>a</sup>		10 GA	14TU10 <sup>a</sup>
6	14 GA	6TU14 <sup>a</sup>		3/16	14TU7 <sup>a</sup>
	12 GA	6TU12 <sup>a</sup>		1/4	14TU3 <sup>a</sup>
	10 GA	6TU10 <sup>a</sup>	16	12 GA	16TU12 <sup>a</sup>
	3/16	6TU7 <sup>a</sup>		10 GA	16TU10 <sup>a</sup>
9	14 GA	9TU14 <sup>a</sup>		3/16	16TU7 <sup>a</sup>
	12 GA	9TU12 <sup>a</sup>		1/4	16TU3 <sup>a</sup>
	10 GA	9TU10 <sup>a</sup>	18	12 GA	18TU12 <sup>a</sup>
	3/16	9TU7 <sup>a</sup>		10 GA	18TU10 <sup>a</sup>
1/4	9TU3 <sup>a</sup>	3/16		18TU7 <sup>a</sup>	
10	14 GA	10TU14 <sup>a</sup>		1/4	18TU3 <sup>a</sup>
	12 GA	10TU12 <sup>a</sup>	20	10 GA	20TU10 <sup>a</sup>
	10 GA	10TU10 <sup>a</sup>		3/16	20TU7 <sup>a</sup>
	3/16	10TU7 <sup>a</sup>		1/4	20TU3 <sup>a</sup>
	1/4	10TU3 <sup>a</sup>		24	10 GA
12	12 GA	12TU12 <sup>a</sup>			3/16
	10 GA	12TU10 <sup>a</sup>	1/4		24TU3 <sup>a</sup>
	3/16	12TU7 <sup>a</sup>	NOTE: Add A for angle flange Add F for formed flange		
	1/4	12TU3 <sup>a</sup>	Troughs in stock are with Formed Flange		



## Coupling Shafts

COUPLING SHAFTS are designed to transmit rotation between individual conveyor screw sections and to provide intermediate radial support through hanger bearings.

DIA	SHAFT DIA	CODE	DIA	SHAFT DIA	CODE
4	1	2CS	14	2 7/16	5CS
6	1 1/2	3CS		3	6CS
9	1 1/2	3CS	16	3	6CS
	2	4CS	18	3	6CS
10	1 1/2	3CS	20	3	6CS
	2	4CS		3 7/16	7CS
12	2	4CS	24	3 7/16	7CS
	2 7/16	5CS			
	3	6CS			



## Drive Shafts

WAM, Inc. screw conveyor DRIVE SHAFTS are manufactured from cold drawn C-1045 medium carbon steel which has an average tensile strength of 112,000 psi.

Exacting dimensional tolerances are maintained for proper bearing clearance. Stainless steel shafts, with an average tensile strength of 100,000 psi., are also

available in many types, including 304 and 316.

DIA	SHAFT DIA	CODE	DIA	SHAFT DIA	CODE
4	1	2DS	14	2 7/16	5DS
6	1 1/2	3DS		3	6DS
9	1 1/2	3DS	16	3	6DS
	2	4DS	18	3	6DS
10	1 1/2	3DS	20	3	6DS
	2	4DS		3 7/16	7DS
12	2	4DS	24	3 7/16	7DS
	2 7/16	5DS			
	3	6DS			



## Hangers 216 Style

No. 216 HANGERS are recommended for heavy-duty, abrasive applications, especially where dust tight operation is required. No. 216 hangers may be furnished with hard-iron, hard-surfaced or oil-impregnated wood bearings.

When hard iron or hard-surfaced bearings are used, hard iron or hard surfaced shafts are required.

DIA	SHAFT DIA	PART NO	DIA	SHAFT DIA	PART NO
6	1 1/2	6H2163	14	2 7/16	14H2165
	1 1/2	9H2163		3	14H2166
9	2	9H2164	16	3	16H2166
	1 1/2	10H2163	18	3	18H2166
10	2	10H2164	20	3	20H2166
	2	12H2164		3 7/16	20H2167
12	2 7/16	12H2165	24	3 7/16	24H2167
	3	12H2166			



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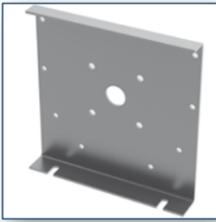
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### Hanger 226 Style

No. 226 HANGERS are recommended for high capacity conveyors and are designed for inside flush mounting to allow dust tight operation. Available in all friction type bearing materials.

DIA	SHAFT DIA	PART NO	DIA	SHAFT DIA	PART NO
4	1	4H2262	14	2 7/16	14H2265
6	1 1/2	6H2263		3	14H2266
9	1 1/2	9H2263	16	3	16H2266
	2	9H2264	18	3	18H2266
10	1 1/2	10H2263	20	3	20H2266
	2	10H2264		3 7/16	20H2267
12	2	12H2264	24	3 7/16	24H2267
	2 7/16	12H2265			
	3	12H2266			



### Through Ends

All WAM, Inc. conveyor HOUSING ENDS are manufactured to close tolerances from quality, heavy-gauge steel. Assembly bolt holes are jig-drilled for perfect alignment with housing end flanges.

DIA	W FEET	W/O FEET	DIA	W FEET	W/O FEET
4	4EF2	4E02	14	14EF5	14E05
6	6EF3	6E03		14EF6	14E06
9	9EF3	9E03	16	16EF6	16E06
	9EF4	9E04	18	18EF6	18E06
10	10EF3	10E03		18EF7	18E07
	10EF4	10E04	20	20EF6	20E06
12	12EF4	2E04		20EF7	20E07
	12EF5	12E05	24	24EF7	24E07
	12EF6	12E06			

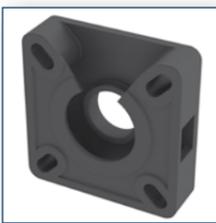
*NOTE: The last digit of the code indicates the shaft size*



### Plate Seals

The PLATE SEAL is an economical, effective sealing device designed for exterior mounting between the end bearing and the conveyor housing end.

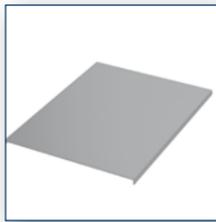
DIA	SHAFT DIA	CODE	DIA	SHAFT DIA	CODE
4	1		14	2 7/16	5SP
6	1 1/2	3SP		3	6SP
9	1 1/2	3SP	16	3	6SP
	2	4SP	18	3	6SP
10	1 1/2	3SP	20	3	6SP
	2	4SP		3 7/16	7SP
12	2	4SP	24	3 7/16	7SP
	2 7/16	5SP			
	3	6SP			



### Waste Pack Seals

The WASTE PACK seal is designed for use with waste packing or cartridge-type lip or felt seals. An opening at the top of the housing facilitates waste repacking. The packing material is partially exposed for oiling. The packing seal housing is mounted outside between the end bearing and the conveyor end.

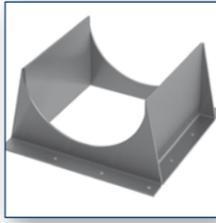
DIA	SHAFT DIA	CODE	DIA	SHAFT DIA	CODE
4	1		14	2 7/16	5SH
6	1 1/2	3SH	16	3	6SH
9	1 1/2	3SH	18	3	6SH
	2	4SH		3	6SH
10	1 1/2	3SH	20	3 7/16	7SH
	2	4SH		3 7/16	7SH
12	2	4SH	24	3 7/16	7SH
	2 7/16	5SH			
	3	6SH			



### Flanged Covers

FLANGED COVERS are turned down approximately 3/4" on each side and also may be gasketed for more complete dust or non-critical weatherproof operation. They are secured by means of bolts or screw or toggle clamps. All our covers are sand blasted, primed and painted with a high quality enamel paint.

DIA	THK	CODE	DIA	THK	CODE
4	14 GA	4CF14	14	14 GA	14CF14
6	14 GA	6CF14	16	14 GA	16CF14
9	14 GA	9CF14	18	12 GA	18CF12
10	14 GA	10CF14	20	12 GA	20CF12
12	14 GA	12CF14	24	12 GA	24CF12



### Discharge Spouts

Standard SPOUTS are fabricated in various gauges proportionate to the thickness of the conveyor housing. They are generally furnished welded to the housing but may also be furnished loose for attachment in the field.

DIA	Trough THK	Spout THK	WEIGHT	CODE
4	14 GA	14GA	3	4DA14
6	14 GA	14GA	6	6DA14
	12 GA			
	10 GA			
9	14 GA	14GA	8	9DA14
	12 GA			
	10 GA			
	3/16			
10	14 GA	10GA	13	9DA10
	12 GA			
	10 GA			
	3/16			
12	14 GA	14GA	10	10DA14
	12 GA			
	10 GA			
	3/16			
14	12 GA	12GA	17	12DA12
	10 GA			
	3/16			
	1/4			
16	12 GA	12GA	29	12DA7
	10 GA			
	3/16			
	1/4			
18	12 GA	12GA	22	14DA12
	10 GA			
	3/16			
	1/4			
20	12 GA	3/16	38	14DA7
	10 GA			
	3/16			
	1/4			
24	12 GA	12GA	21	16DA12
	10 GA			
	3/16			
16	10 GA	12GA	40	16DA7
	3/16			
	1/4			
18	10 GA	12GA	40	20DA12
	3/16			
	1/4			
20	12 GA	3/16	60	18DA7
	10 GA			
	3/16			
24	10 GA	12GA	52	24DA12
	3/16			
	1/4			
18	10 GA	12GA	67	20DA7
	3/16			
	1/4			
24	10 GA	12GA	87	24DA7
	3/16			
	1/4			



### Through Saddles

SADDLES are made of steel plate, welded to the underside of the trough to provide support along the length of the conveyor.

DIA	CODE	DIA	CODE
4	4SL	14	14SL
6	6SL	16	16SL
9	9SL	18	18SL
10	10SL	20	20SL
12	12SL	24	24SL



### Feet

Flange FEET are made of steel plate and are meant to be bolted to the trough end flanges.

DIA	CODE	DIA	CODE
4	4FF	14	14FF
6	6FF	16	16FF
9	9FF	18	18FF
10	10FF	20	20FF
12	12FF	24	24FF



### Coupling Bolts

COUPLING BOLTS are manufactured from grade 2 steel. Bolts have short thread length designed especially for use with conveyor screws. Each bolt is furnished with special type lock nut. Bolts are manufactured to close tolerances for perfect fit in coupling bolt holes. They are designed for maximum torque capacities and service life.

Grade 5 and stainless steel available on request.

DIA	COUPLING DIA	BOLT SIZE	CODE
4	1	3/8 X 2 1/16	2CB
6	1 1/2	1/2 X 3	3CB
9	1 1/2	1/2 X 3	3CB
	2	5/8 X 3 5/8	4CB
10	1 1/2	1/2 X 3	3CB
	2	5/8 X 3 5/8	4CB
12	2	5/8 X 3 5/8	4CB
	2 7/16	5/8 X 4 3/8	5CB
	3	3/4 X 5	6CB
14	2 7/16	5/8 X 4 3/8	5CB
	3	3/4 X 5	6CB
16	3	3/4 X 5	6CB
18	3	3/4 X 5	6CB
20	3	3/4 X 5	6CB
	3 7/16	7/8 X 5 1/2	7CB
24	3 7/16	7/8 X 5 1/2	7CB

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# Application



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