

# Introducing Composite Idler Rolls

- Combats roll degradation typically found in corrosive and abrasive environments
- Longer lasting rolls reduces conveyor downtime
- Lighter weight rolls – “Field Friendly” for maintenance and installation personnel
- Prolongs belt life by reducing material build-up



Dimensional specifications match our CEMA C, D and E series steel products.



## Composite Idler Roll Advantages

- Excellent Strength
- Lighter Weight
- Superior Toughness
- High Corrosion Resistance
- High Abrasion Resistance
- Reduced Material Build-Up
- Low Coefficient of Thermal Expansion
- Environmentally Friendly



*Ideal for replacement of steel rolls in corrosive environments.*

# Composite Rolls

## Technical Data

---

### What are composite idler rolls?

- Syntron Material Handling introduces a revolutionary new idler roll made with state-of-the-art glass reinforced polyurethane.
- This tubing is a composite material consisting of layers of high quality glass fabric saturated with a two part thermoset polyurethane resin.
- Syntron Material Handling offers a 5" and a 6" diameter x 1/4" wall tubing size suitable for CEMA C, D and E roll applications (Syntron Material Handling C/D3500, C/D3600 & E4600 Series).
- Roll lengths are available for troughing, return, picking and V-return idlers with belt widths ranging from 18" to 72".
- Polyurethane pultruded composite tubing offers excellent mechanical properties similar to steel and superior to many traditional plastic resin roll products. The recommended operating temperature range is -40°F to +200°F.
- Syntron Material Handling composite rolls are extremely versatile and are suitable for many material handling applications\*.
- Standard color: Traditional "Syntron Material Handling Orange"

\*Currently not suitable in combustible environments, where possible static charge can cause an explosion hazard.

### Features/Benefits

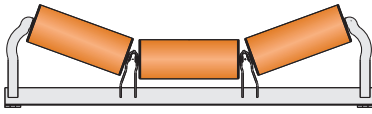
- **Excellent Strength**  
Comparable tensile and flexural strength (lengthwise) to steel and aluminum. High strength-to-weight ratio.
- **Lighter Weight**  
Material verses material: 75% lighter than steel and 30% lighter than aluminum. Approximately 50% lighter than traditional steel rolls. Easier installation, "Field Friendly" for maintenance and installation personnel, energy savings, and reduced noise.
- **Superior Toughness**  
This glass fabric distributes loads to prevent surface damage. No permanent deformities. High impact strength. Crack resistant.
- **High Corrosion Resistance**  
Superior resistance to a broad range of chemicals. Excellent in acid, alkali and salt spray environments. Low water absorption. Protective Polyurethane topcoat is suggested if exposed to UV rays during a long term storage.
- **High Abrasion Resistance**  
Superior wear resistance to traditional thermoplastic resin rolls, resulting in longer shell life, longer belt life, and less maintenance.
- **Reduced Material Build-Up**  
Polyurethane resin resists material build-up on the surface of the roll, thereby prolonging belt life.
- **Low Thermal Coefficient of Expansion**  
Low coefficient of thermal expansion, comparable to steel, reducing differential expansion between shell, shaft, and the pressed head.
- **Environmentally Friendly**  
Self extinguishing when exposed to flame in a horizontal position. Low carbon footprint compared to thermoplastic rolls. VOC Free.

*Is corrosion eating away your profits?*



# Composite Rolls

Below are the part numbers to reference when ordering sealed replacement rolls for CEMA Series C3000 and D3000.



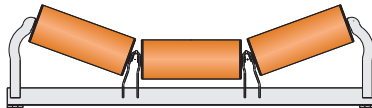
The following part numbers fit

**5"** diameter composite troughing rolls for 3601C, 3502C, 3506C, 3507C, 3508C, 3509C, 3511C, 3528C, 3532C and 3537C idlers

## C3500 Replacement Rolls

## D3500 Replacement Rolls

Belt Width	Part Number	Belt Width	Part Number
18	5269-404-A	-	-
20	5269-404-B	-	-
24	5269-403-C	24	5269-403-C
30	5269-403-D	30	5269-403-D
36	5269-403-E	36	5269-403-E
42	5269-403-F	42	5269-403-F
48	5269-403-G	48	5269-403-G
54	5269-403-H	54	5269-403-H
60	5269-403-J	60	5269-403-J
-	-	72	5269-403-L



The following part numbers fit

**6"** diameter composite troughing rolls for 3601C, 3602C, 3606C, 3607C, 3608C, 3609C, 3611C, 3628C, 3632C and 3637C idlers

## C3600 Replacement Rolls

## D3600 Replacement Rolls

Belt Width	Part Number	Belt Width	Part Number
18	5269-395-A	-	-
20	5269-395-B	-	-
24	5269-365-C	24	5269-365-C
30	5269-365-D	30	5269-365-D
36	5269-365-E	36	5269-365-E
42	5269-365-F	42	5269-365-F
48	5269-365-G	48	5269-365-G
54	5269-365-H	54	5269-365-H
60	5269-365-J	60	5269-365-J
-	-	72	5269-365-L

# Composite Rolls

Below are the part numbers to reference when ordering sealed replacement rolls for CEMA Series C3000 and D3000.



The following part numbers fit

**5”** diameter composite return/carrying rolls for 3513C, 3514C, 3517C, 3520C and 3526C idlers

## C3500 Replacement Rolls

Belt Width	Part Number
18	5269-404-AA
20	5269-404-AB
24	5269-404-AC
30	5269-404-AD
36	5269-404-AE
42	5269-404-AF
48	5269-404-AG
-	-
-	-
-	-
-	-
-	-

## D3500 Replacement Rolls

Belt Width	Part Number
-	-
-	-
24	5269-403-AC
30	5269-403-AD
36	5269-403-AE
42	5269-403-AF
48	5269-403-AG
54	5269-403-AH
60	5269-403-AJ
66	5269-403-AK
72	5269-403-AL
78	5269-403-AM



The following part numbers fit

**6”** diameter composite return/carrying rolls for 3613C, 3614C, 3617C, 3620C and 3626C idlers

## C3600 Replacement Rolls

Belt Width	Part Number
18	5269-395-AA
20	5269-395-AB
24	5269-395-AC
30	5269-395-AD
36	5269-395-AE
42	5269-395-AF
48	5269-395-AG
-	-
-	-
-	-
-	-
-	-

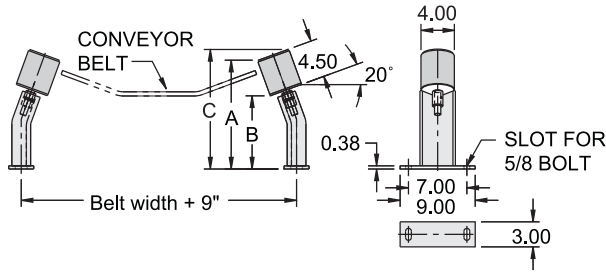
## D3600 Replacement Rolls

Belt Width	Part Number
-	-
-	-
24	5269-365-AC
30	5269-365-AD
36	5269-365-AE
42	5269-365-AF
48	5269-365-AG
54	5269-365-AH
60	5269-365-AJ
66	5269-365-AK
72	5269-365-AL
78	5269-365-AM

# Side Guide Idlers

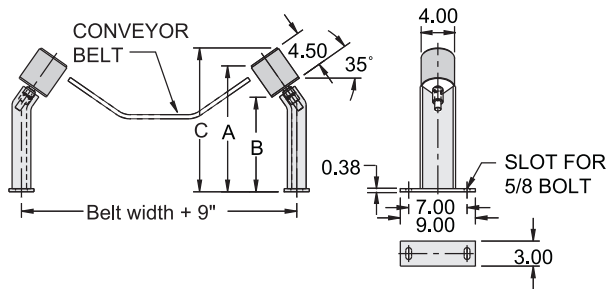
Side guide idlers are mounted at the edges of a conveyor belt to guide the belt and minimize belt edge wear. For smooth, trouble-free operation, these idlers are equipped with precision tapered roller bearings and grease seals.

# 20°



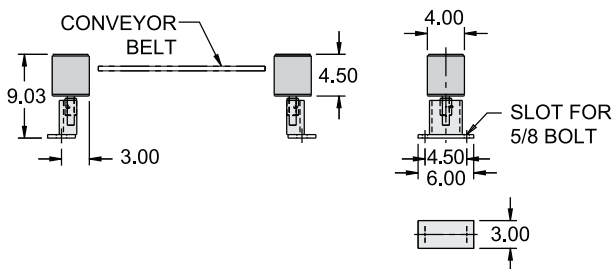
Belt width, inches	Idler number	Weight per pair, pounds	A	B	C
			Inches		
14	T2001	29	11.25	7.00	12.56
16	T2002	29	11.50	7.25	12.81
18	T2003	30	12.38	8.12	13.69
20	T2004	30	12.56	8.31	13.88
24	T2005	31	13.06	8.81	14.38
30	T2006	31	14.06	9.81	15.38
36	T2007	32	15.00	10.75	16.31
42	T2008	32	15.75	11.50	17.06
48	T2009	33	16.69	12.44	18.00
54	T2010	33	17.19	12.94	18.50
60	T2011	34	18.12	13.88	19.44
72	T2012	35	19.44	15.19	20.75

# 35°

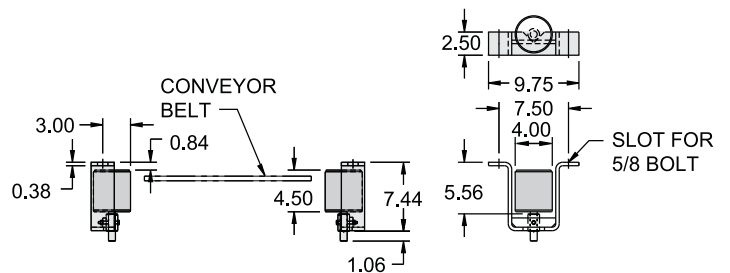


Belt width, inches	Idler number	Weight per pair, pounds	A	B	C
			Inches		
14	T3501	31	12.38	8.56	14.50
16	T3502	31	12.69	9.00	14.81
18	T3503	32	14.00	10.25	16.12
20	T3504	32	14.38	10.56	16.50
24	T3505	33	15.12	11.31	17.25
30	T3506	34	16.62	12.88	18.75
36	T3507	35	17.81	14.06	19.94
42	T3508	36	19.25	15.50	21.38
48	T3509	37	20.25	16.50	22.38
54	T3510	38	21.44	17.69	23.56
60	T3511	39	22.62	18.81	24.75
72	T3512	42	25.19	21.44	27.31

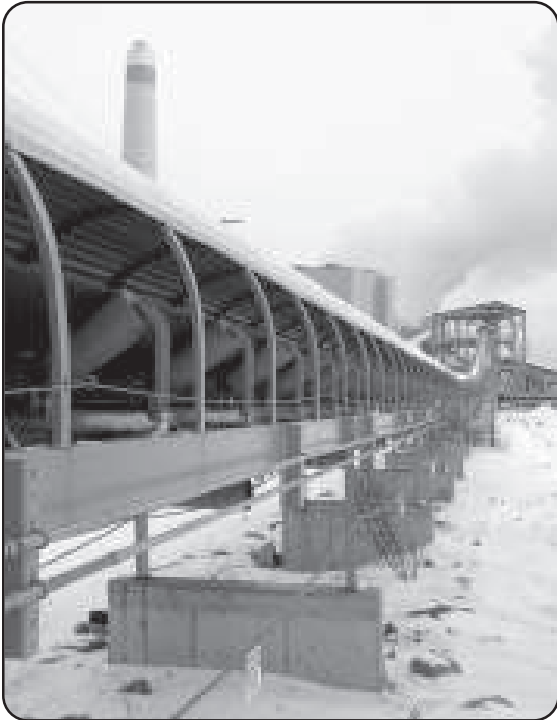
## Model Number F-1 for Flat Idlers



## Model Number R-1 for Return Idlers



## Scale Idlers

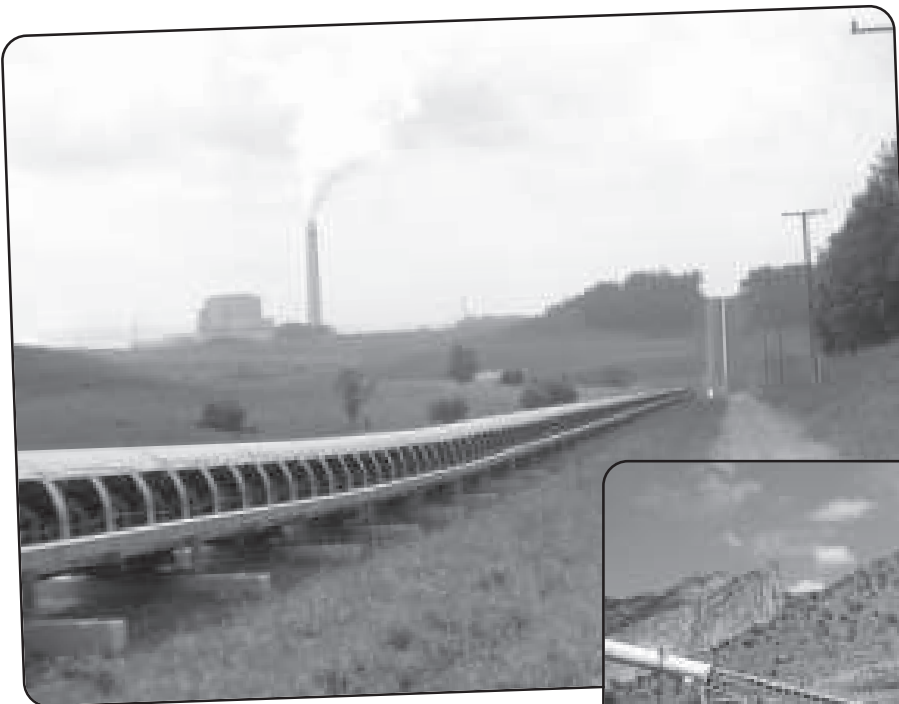


Link-Belt scale idlers are used in conjunction with mechanical-type weighing devices. They are available in CEMA D and E series for 20°, 35° or 45° troughing installations. In order to prevent load shift and obtain weighing accuracy, these idlers are fabricated to rigid belt scale manufacturers specifications:

Roll run-out does not exceed .015" T.I.R.  
Footstraps are within 0.015" of flat surface.  
Axis of rolls is  $\pm 0.031$ " from perpendicular through center of base. Backing dimension of center roll is + 0.000" - 0.125". End bracket is perpendicular to base  $90^\circ \pm 1^\circ$ . Troughing angle is template checked.

All rolls are factory lubricated and "sealed for life". For further specifications and dimensions, contact your nearest Syntron Material Handling Territory Manager.

When ordering scale quality idlers denote "W" in the Syntron Material Handling model number (example: D7628W-36).



# CEMA Series E4000 Idlers

## Bearings

- Precision tapered roller bearings with modified geometry; LM67000 with 1-1/4" bore
- Bearings/shaft are designed to accommodate bearing misalignment under fully rated loads
- L10 bearing life > 60,000 hrs @ 500 rpm, exceeds load ratings of 6308 ball bearing products

## Frames

- Inverted angle frame base with slotted foot straps to ensure quick, easy mounting and alignment
- Heavy-duty, die-formed, steel end brackets are contoured for generous clearance to safeguard against spilled materials becoming jammed and impeding the rotation of the rollers
- All idler frames are welded in accordance with AWS D1.1 specifications for structural welds

## Seal

- The outer adjusting nuts are zinc plated, machined steel, to minimize corrosion
- Rubber triple lip contact seal paired with a nylon deflector nut with integrated labyrinth seal for robust, redundant sealing capability
- Seal works well in dusty conditions and wash down environments

## Coatings

- Frames and rolls are powder-coated (see page 155 for details)
- Assembly hardware is electro-zinc plated

## CEMA

- Idlers meet or exceed CEMA requirements for rugged, continuous material handling
- Multiple belt widths and models available to meet your needs

## Roll Thickness

- 6" diameter = 8 ga (0.165) / 0.250" is available
- 7" diameter = 0.250"

## Testing Capabilities

- Load rating
- Seals
- Roll concentricity
- Roll resistance
- Roll imbalance
- Water resistance

One of the following letter suffixes may sometimes be necessary to complete an idler description:

**P** - Polyethylene rolls

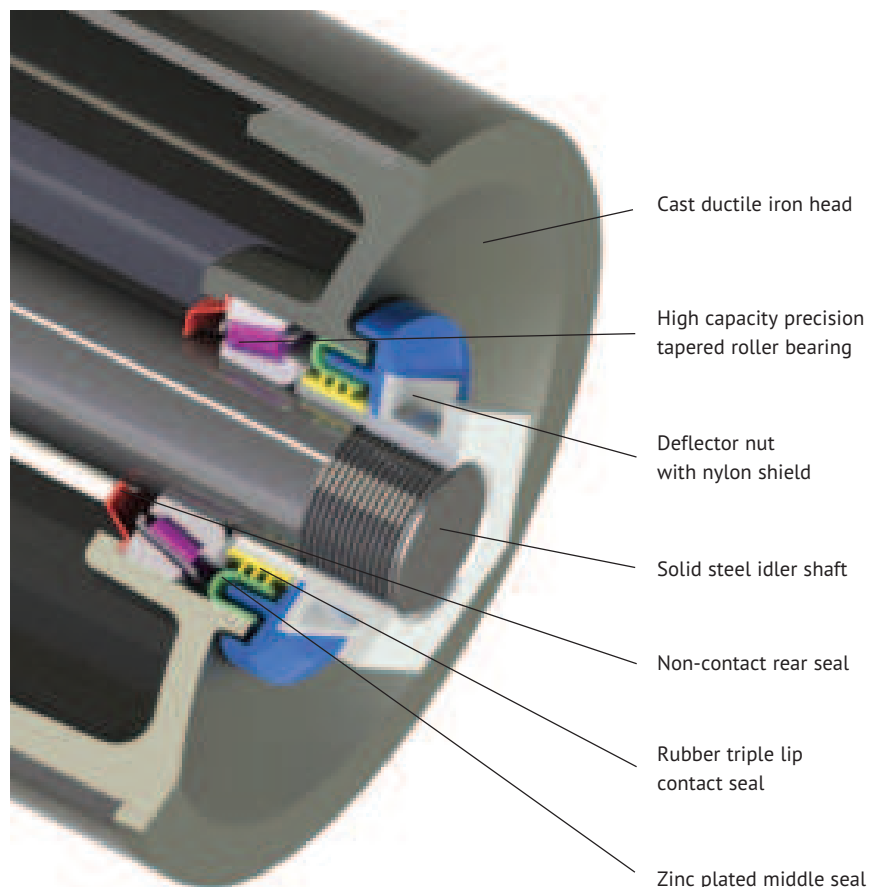
**R** - Rubber lagged impact or rubber tread rolls

**RC** - Rubber lagged impact center roll

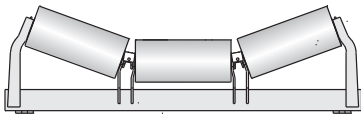
**W** - Scale idler

**U** - Urethane coated or lagged rolls

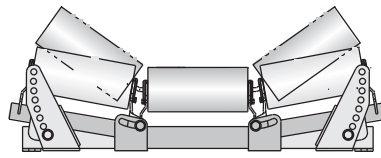
**GAL** - Galvanized frame



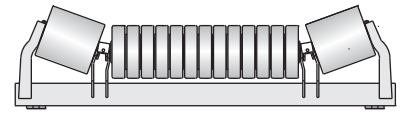
## Carrying Idler Types



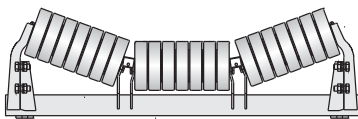
**Troughed belt idlers** for general carrying service are available with roll inclinations of 20°, 35°, and 45°.



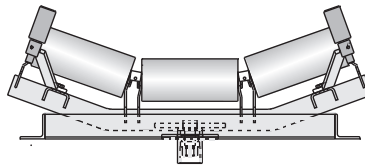
**Variable troughed belt idlers** placed between the final troughing idler and the head pulley, support the belt during its transition from a concave to a flat contour. The end rolls can be adjusted vertically to match the changing contour of the belt during this critical period of transition. Standard design features steel rolls. Also available with all rubber cushion rolls or rubber cushion center roll and steel end rolls.



**Troughed belt picking and feeder conveyor idlers** carry the load in a wide, thin layer where picking and sorting are required or where a shallow bed of material is required to minimize degradation. Standard design features rubber cushion center roll and steel end rolls. Also available with all steel or all rubber cushion rolls.



**Troughed belt rubber cushion idlers** protect the belt by absorbing impacts at loading and transfer points. Design features include removable end brackets on 35° and 45° idlers.



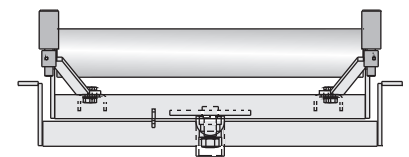
**Troughed belt training idlers** automatically train belts and protect belt edges from damage caused by misalignment. Positive action type for belts operating in one direction; actuating shoe type for two directional operation (reversing).



**Flat belt idlers** are used for handling bulk materials such as prepared foundry sand and undelinted cotton seed where it is desirable to plow off material at one or more intermediate points along the conveyor. Also used for pulpwood logs, packages, picking and sorting conveyors.



**Flat belt rubber cushion idlers** protect the belt by absorbing impacts at loading and transfer points. Fixed shaft type is for average service.

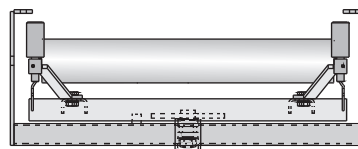


**Flat belt training idlers** automatically train belts and protect belt edges from damage caused by misalignment. Available in the positive action type for belts operating in one direction.

## Return Idler Types



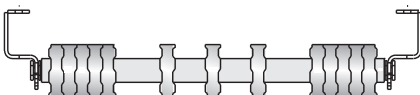
**Return belt idlers** carry the empty belt on the return run. Available with a urethane coating on standard steel rollers.



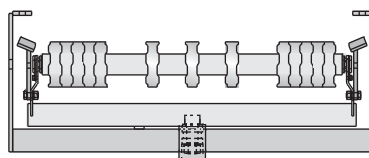
**Return belt training idlers** train the belt and protect its edges from damage caused by misalignment. Positive action type for belts operating in one direction. Actuating shoe type for reversing belts.



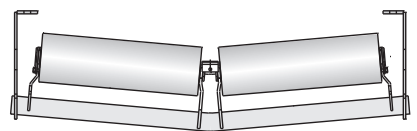
**Return belt beater idlers** remove excessive amounts of tenacious materials that adhere to the belt.



**Return belt rubber tread idlers** are used when wet or sticky materials tend to cling to the belt, where corrosion resistance is required or where chemical reaction to iron or steel is involved. Available with urethane treads.



**Return rubber tread training idlers** train the belt and protect its edges from damage caused by misalignment. Used when wet or sticky materials tend to cling to the belt, where corrosion resistance is required or where chemical attraction to iron or steel is involved. Positive action type for belts operating in one direction. Actuating shoe type for reversing belts.



**Rigid frame v-return idlers** provide a means of training the return belt, with the added benefit of additional carrying load capacity. Rigid v-returns can be adjusted using slotted bolt holes in the end brackets of the frame to aid in proper belt training.



## CEMA E idlers of every type to meet your specific needs...

Syntron Material Handling Model Number	Page	CEMA E	5°	10°	15°	20°	35°	45°	10-35° Variable
4601S / 4701S	100	36" - 96"				●			
4602S / 4702S	108	36" - 96"						●	
4604S / 4704S	101	36" - 96"				●			
4605S / 4705S	110	36" - 72"				●			
4605RCS / 4705RCS	111	36" - 72"				●			
4606S / 4706S	112	36" - 96"							●
4607S / 4707S	102	36" - 72"				●			
4608S / 4708S	103	36" - 72"				●			
4613S / 4713S	113	36" - 96"							
4613LS / 4713LS	114	36" - 96"							
4614S / 4714S	117	36" - 72"							
4615S / 4715S	116	36" - 96"							
4716S	115	36" - 96"							
4617S / 4717S	119	36" - 96"							
4618S / 4718S	120	36" - 96"							
4619S / 4719S	118	36" - 96"							
4620S / 4720S	121	36" - 72"							
4621S / 4721S	122	36" - 72"							
4623S / 4723S	109	36" - 96"						●	
4626S / 4726S	123	36" - 72"							
4627S / 4727S	124	36" - 72"							
4628S / 4728S	104	36" - 96"					●		
4630S / 4730S	105	36" - 96"					●		
4632S / 4732S	106	36" - 72"					●		
4637S / 4737S	107	36" - 72"					●		
4664S / 4764S	125	36" - 102"	●						
4665S / 4765S	126	36" - 102"		●					
4666S / 4766S	127	36" - 102"			●				
4668S / 4768S	128	36" - 102"		●					



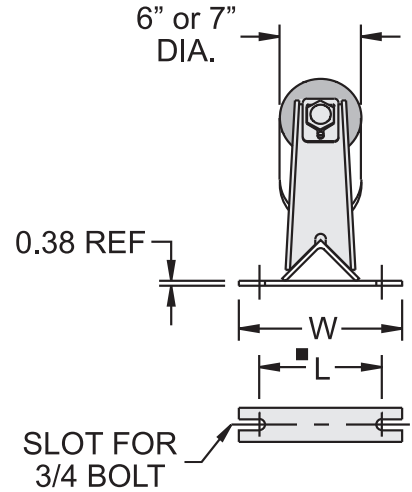
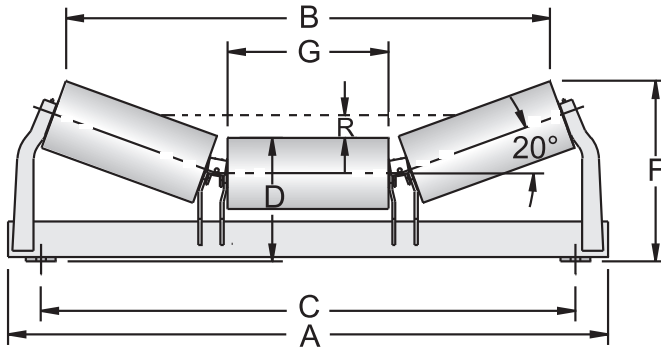
CAUTION: Link-Belt Conveyor Idlers must be installed, operated and maintained in accordance with Syntron Material Handling Service Instructions. Failure to follow these instructions can result in serious personal injury, property damage or both.

Syntron Material Handling Service Instructions are available for download at [www.syntronmh.com](http://www.syntronmh.com).

Flat Carrying	Return	V Return	Training Positive	Training Reversing	Picking & Feeding	Live Shaft	Steel	Rubber Cushion (Impact)	Rubber Tread
							●		
							●		
								●	
					●		●		
					●			●	
							●		
			●				●		
				●			●		
●							●		
●						●	●		
●			●				●		
●								●	
●						●		●	
	●						●		
	●								●
	●						●		
	●		●				●		
	●		●						●
								●	
	●			●			●		
	●			●					●
							●		
								●	
			●				●		
				●			●		
		●					●		
		●					●		
		●					●		
		●							●

# 20° Troughed Belt Idlers, Equal Length Rolls

steel rolls



## CEMA E

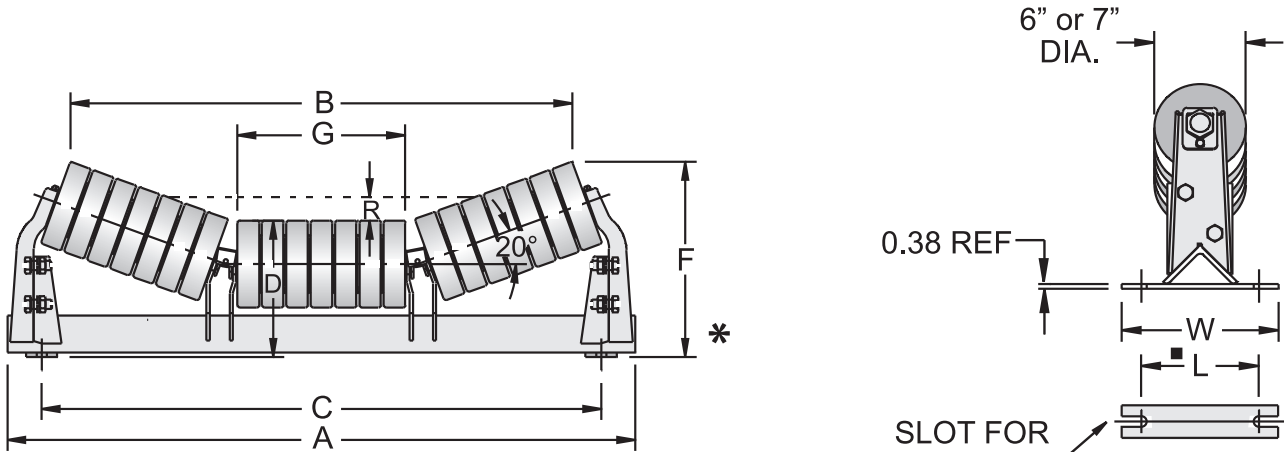
Belt width, inches	Dia.	Idler number	Standard Base (Belt width + 9")			Wide Base (Belt width + 15")			B	D	F	G	L	R**	W
			Idler weight, pounds	A	C	Idler weight, pounds	A	C							
36	6"	E4601S-36	143	50.50	45.00	145	53.50	51.00	40.81	10.44	15.25	13.56	9.00	1.88	12.00
	7"	E4701S-36	172	50.50	45.00	174	53.50	51.00	40.50	10.94	15.69	13.56	9.00	1.88	12.00
42	6"	E4601S-42	160	56.00	51.00	162	59.50	57.00	46.56	10.44	15.94	15.56	9.00	2.19	12.00
	7"	E4701S-42	193	56.00	51.00	195	59.50	57.00	46.25	10.94	16.38	15.56	9.00	2.19	12.00
48	6"	E4601S-48	173	62.00	57.00	175	65.50	63.00	52.31	10.44	16.62	17.56	9.00	2.56	12.00
	7"	E4701S-48	211	62.00	57.00	214	65.50	63.00	52.00	10.94	17.06	17.56	9.00	2.56	12.00
54	6"	E4601S-54	190	68.00	63.00	192	71.50	69.00	58.25	10.44	17.31	19.62	9.00	2.88	12.00
	7"	E4701S-54	231	68.00	63.00	233	71.50	69.00	57.88	10.94	17.75	19.62	9.00	2.88	12.00
60	6"	E4601S-60	204	74.00	69.00	206	77.50	75.00	63.31	10.44	17.94	21.38	9.00	3.25	12.00
	7"	E4701S-60	247	74.00	69.00	249	77.50	75.00	63.00	10.94	18.38	21.38	9.00	3.25	12.00
72	6"	E4601S-72	248	86.00	81.00	251	89.50	87.00	74.50	11.12	19.94	25.25	9.00	3.94	12.00
	7"	E4701S-72	299	86.00	81.00	302	89.50	87.00	74.12	11.62	20.38	25.25	9.00	3.94	12.00
84	6"	E4601S-84	323	98.00	93.00	327	101.50	99.00	86.00	11.88	22.06	29.25	11.50	4.62	14.50
	7"	E4701S-84	379	98.00	93.00	383	101.50	99.00	85.62	12.38	22.50	29.25	11.50	4.62	14.50
96	6"	E4601S-96	360	110.00	105.00	364	113.50	111.00	97.50	11.88	23.44	33.25	11.50	5.31	14.50
	7"	E4701S-96	424	110.00	105.00	428	113.50	111.00	97.12	12.38	23.88	33.25	11.50	5.31	14.50

\*\* To top of discharge or bend pulleys, except foot pulley.

■ 10" bolt spacing recommended to permit washer clearance and adjustment.

# 20° Troughed Belt Idlers, Equal Length Rolls

rubber cushion rolls (impact)



\* Demountable end bracket supplied for 36"-96" belt widths

## CEMA E

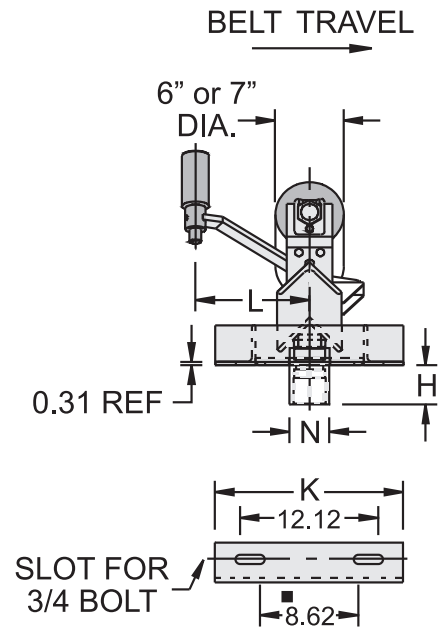
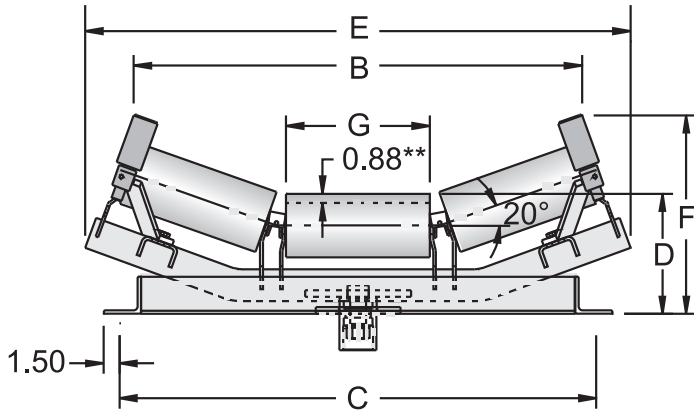
Belt width, inches	Dia.	Idler number	Standard Base (Belt width + 9")			Wide Base (Belt width + 15")			B	D	F	G	L	R**	W
			Idler weight, pounds	A	C	Idler weight, pounds	A	C							
36	6"	E4604S-36	145	50.50	45.00	148	53.50	51.00	40.69	10.44	15.25	13.50	9.00	1.88	12.00
	7"	E4704S-36	161	50.50	45.00	163	53.50	51.00	40.38	10.94	15.69	13.50	9.00	1.88	12.00
42	6"	E4604S-42	165	56.00	51.00	168	59.50	57.00	46.44	10.44	15.94	15.50	9.00	2.19	12.00
	7"	E4704S-42	183	56.00	51.00	186	59.50	57.00	46.12	10.94	16.38	15.50	9.00	2.19	12.00
48	6"	E4604S-48	182	62.00	57.00	185	65.50	63.00	52.25	10.44	16.62	17.50	9.00	2.56	12.00
	7"	E4704S-48	202	62.00	57.00	205	65.50	63.00	51.88	10.94	17.06	17.50	9.00	2.56	12.00
54	6"	E4604S-54	199	68.00	63.00	202	71.50	69.00	58.12	10.44	17.31	19.56	9.00	2.88	12.00
	7"	E4704S-54	222	68.00	63.00	224	71.50	69.00	57.81	10.94	17.75	19.56	9.00	2.88	12.00
60	6"	E4604S-60	214	74.00	69.00	217	77.50	75.00	63.19	10.44	17.88	21.31	9.00	3.25	12.00
	7"	E4704S-60	239	74.00	69.00	242	77.50	75.00	62.88	10.94	18.38	21.31	9.00	3.25	12.00
72	6"	E4604S-72	265	86.00	81.00	268	89.50	87.00	74.38	11.19	19.94	25.19	9.00	3.94	12.00
	7"	E4704S-72	294	86.00	81.00	297	89.50	87.00	74.00	11.69	20.44	25.19	9.00	3.94	12.00
84	6"	E4604S-84	364	98.00	93.00	369	101.50	99.00	85.88	11.94	22.06	29.19	11.50	4.62	14.50
	7"	E4704S-84	397	98.00	93.00	403	101.50	99.00	85.56	12.44	22.50	29.19	11.50	4.62	14.50
96	6"	E4604S-96	407	110.00	105.00	412	113.50	111.00	97.38	11.94	23.44	33.19	11.50	5.31	14.50
	7"	E4704S-96	444	110.00	105.00	450	113.50	111.00	97.06	12.44	23.88	33.19	11.50	5.31	14.50

\*\* To top of discharge or bend pulleys, except foot pulley.

■ 10" bolt spacing recommended to permit washer clearance and adjustment.  
(12.5" for 84" and 96" belt widths.)

# 20° Troughed Belt Training Idlers, Equal Length Rolls

**positive action type**  
(above deck mounting)



## CEMA E

Belt width, inches	Dia.	Idler number	Standard Base (Belt width + 9")		Wide Base (Belt width + 15")		B	D	E	F	G	H	K	L	N
			Idler weight, pounds	C	Idler weight, pounds	C									
36	6"	E4607S-36	268	45.00	271	51.00	42.31	11.31	51.25	18.69	13.56	3.69	16.50	10.00	3.50
	7"	E4707S-36	300	45.00	303	51.00	42.31	11.81	51.25	18.69	13.56	3.69	16.50	10.00	3.50
42	6"	E4607S-42	296	51.00	300	57.00	48.06	11.31	57.00	19.38	15.56	3.69	16.50	10.00	3.50
	7"	E4707S-42	330	51.00	334	57.00	48.06	11.81	57.00	19.38	15.56	3.69	16.50	10.00	3.50
48	6"	E4607S-48	323	57.00	327	63.00	53.81	11.31	62.75	20.06	17.56	3.69	16.50	10.00	3.50
	7"	E4707S-48	362	57.00	366	63.00	53.81	11.81	62.75	20.06	17.56	3.69	16.50	10.00	3.50
54	6"	E4607S-54	353	63.00	357	69.00	59.62	11.31	68.69	20.75	19.62	3.69	16.50	10.00	3.50
	7"	E4707S-54	394	63.00	398	69.00	59.62	11.81	68.69	20.75	19.62	3.69	16.50	10.00	3.50
60	6"	E4607S-60	379	69.00	382	75.00	64.69	11.31	73.75	21.31	21.38	3.69	16.50	10.00	3.50
	7"	E4707S-60	422	69.00	425	75.00	64.69	11.81	73.75	21.31	21.38	3.69	16.50	10.00	3.50
72	6"	E4607S-72	523	81.00	528	87.00	75.88	12.00	85.44	23.31	25.25	4.75	21.50	15.00	5.25
	7"	E4707S-72	574	81.00	579	87.00	75.88	12.50	85.44	23.31	25.25	4.75	21.50	15.00	5.25

\*\* To top of discharge or bend pulleys, except foot pulley.

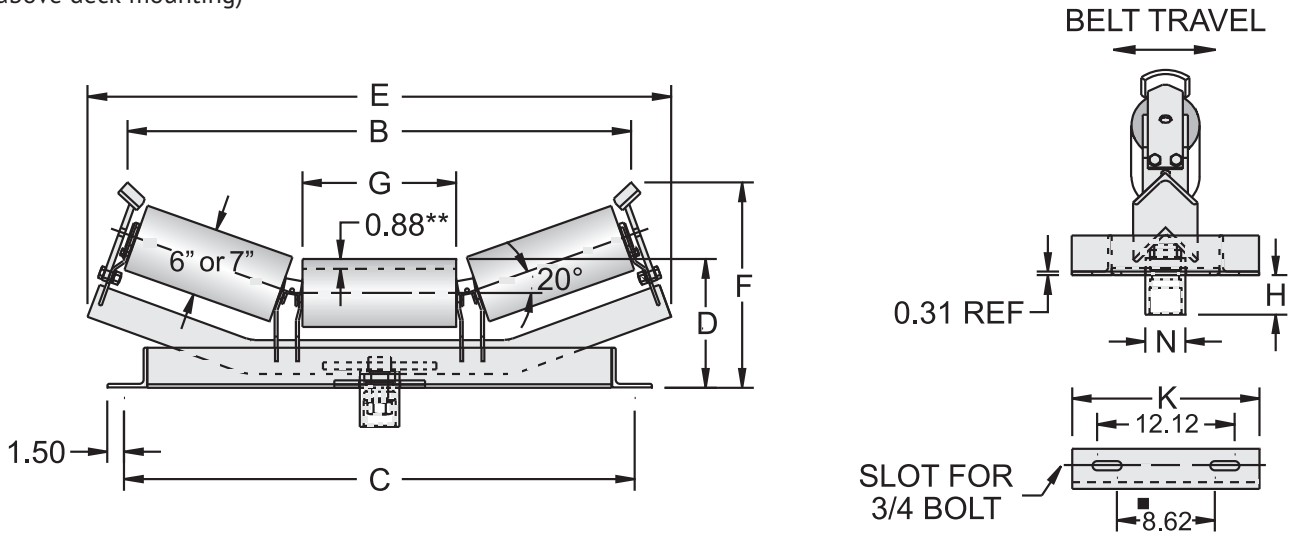
■ 10" bolt spacing recommended to permit adjustment.

.165 wall rolls are standard for E-6"; .25 is available.

.25 wall rolls are standard for E-7".

# 20° Troughed Belt Idlers, Equal Length Rolls

actuating shoe type  
(above deck mounting)



## CEMA E

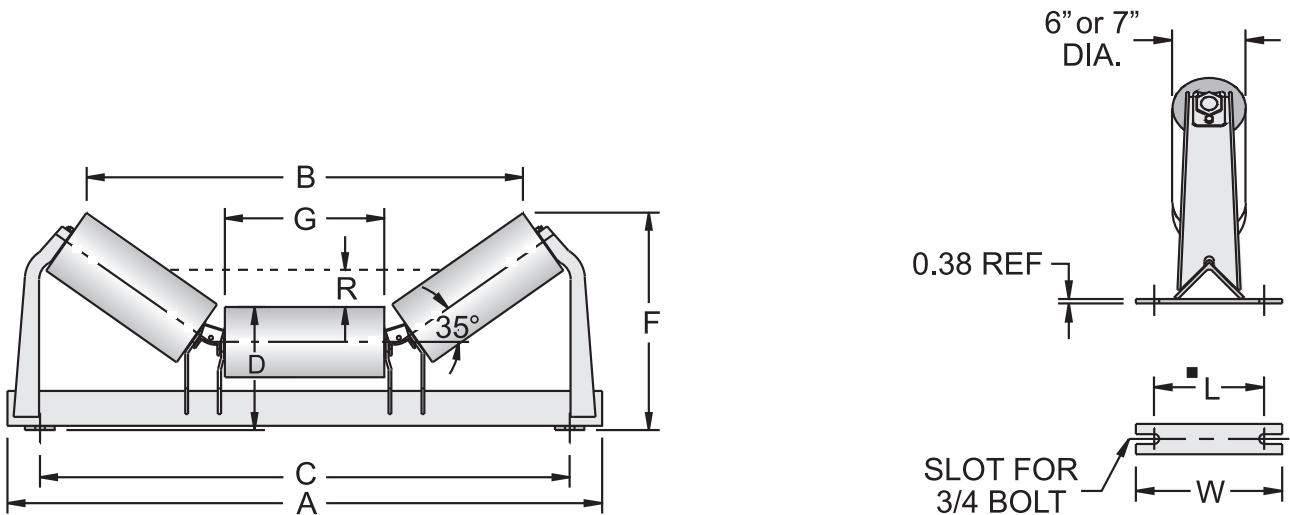
Belt width, inches	Dia.	Idler number	Standard Base (Belt width + 9")		Wide Base (Belt width + 15")		B	D	E	F	G	H	K	N
			Idler weight, pounds	C	Idler weight, pounds	C								
36	6"	E4608S-36	244	45.00	247	51.00	44.69	11.31	51.25	17.69	13.56	3.69	16.50	3.50
	7"	E4708S-36	274	45.00	278	51.00	44.31	11.81	51.25	18.19	13.56	3.69	16.50	3.50
42	6"	E4608S-42	269	51.00	273	57.00	50.44	11.31	57.00	18.38	15.56	3.69	16.50	3.50
	7"	E4708S-42	303	51.00	307	57.00	50.12	11.81	57.00	18.81	15.56	3.69	16.50	3.50
48	6"	E4608S-48	292	57.00	296	63.00	56.25	11.31	62.75	19.06	17.56	3.69	16.50	3.50
	7"	E4708S-48	332	57.00	335	63.00	55.88	11.81	62.75	19.50	17.56	3.69	16.50	3.50
54	6"	E4608S-54	319	63.00	323	69.00	62.19	11.31	68.69	19.75	19.62	3.69	16.50	3.50
	7"	E4708S-54	361	63.00	364	69.00	61.81	11.81	68.69	20.25	19.62	3.69	16.50	3.50
60	6"	E4608S-60	343	69.00	346	75.00	67.19	11.31	73.75	20.38	21.38	3.69	16.50	3.50
	7"	E4708S-60	385	69.00	389	75.00	66.88	11.81	73.75	20.88	21.38	3.69	16.50	3.50
72	6"	E4608S-72	481	81.00	486	87.00	78.31	12.00	85.44	22.38	25.25	4.75	21.50	5.25
	7"	E4708S-72	533	81.00	538	87.00	78.00	12.50	85.44	22.88	25.25	4.75	21.50	5.25

\*\* Elevation above adjacent idlers.

■ 10" bolt spacing recommended to permit adjustment.

# 35° Troughed Belt Idlers, Equal Length Rolls

steel rolls



## CEMA E

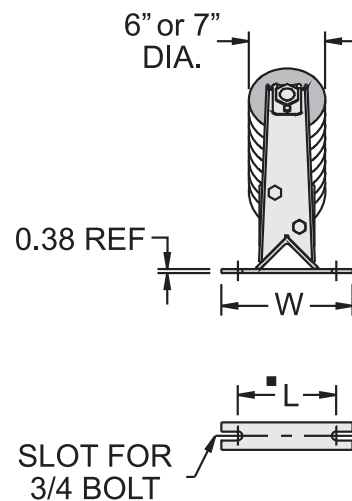
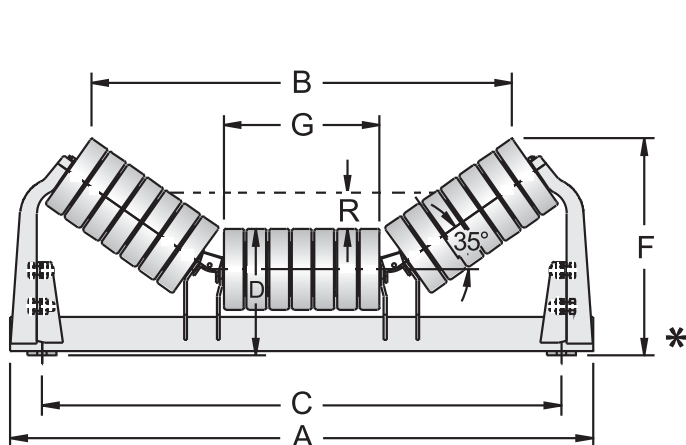
Belt width, inches	Dia.	Idler number	Standard Base (Belt width + 9")			Wide Base (Belt width + 15")			B	D	F	G	L	R**	W
			Idler weight, pounds	A	C	Idler weight, pounds	A	C							
36	6"	E4628S-36	149	50.50	45.00	151	53.50	51.00	37.06	10.44	18.44	13.56	9.00	3.12	12.00
	7"	E4728S-36	179	50.50	45.00	181	53.50	51.00	36.50	10.94	18.88	13.56	9.00	3.12	12.00
42	6"	E4628S-42	168	56.00	51.00	170	59.50	57.00	42.38	10.44	19.56	15.56	9.00	3.69	12.00
	7"	E4728S-42	199	56.00	51.00	201	59.50	57.00	41.75	10.94	20.00	15.56	9.00	3.69	12.00
48	6"	E4628S-48	181	62.00	57.00	184	65.50	63.00	47.62	10.44	20.75	17.56	9.00	4.31	12.00
	7"	E4728S-48	217	62.00	57.00	220	65.50	63.00	47.06	10.94	21.12	17.56	9.00	4.31	12.00
54	6"	E4628S-54	199	67.00	63.00	202	71.50	69.00	53.06	10.44	21.94	19.62	9.00	4.88	12.00
	7"	E4728S-54	241	67.00	63.00	244	71.50	69.00	52.50	10.94	22.31	19.62	9.00	4.88	12.00
60	6"	E4628S-60	213	71.75	69.00	217	77.50	75.00	57.75	10.44	22.94	21.38	9.00	5.44	12.00
	7"	E4728S-60	257	71.75	69.00	261	77.50	75.00	57.12	10.94	23.31	21.38	9.00	5.44	12.00
72	6"	E4628S-72	260	83.50	81.00	265	89.50	87.00	67.94	11.12	25.81	25.25	9.00	6.62	12.00
	7"	E4728S-72	310	83.50	81.00	315	89.50	87.00	67.38	11.62	26.25	25.25	9.00	6.62	12.00
84	6"	E4628S-84	337	95.50	93.00	344	101.50	99.00	78.44	11.88	28.88	29.25	11.50	7.81	14.50
	7"	E4728S-84	392	95.50	93.00	399	101.50	99.00	77.88	12.38	29.31	29.25	11.50	7.81	14.50
96	6"	E4628S-96	378	107.50	105.00	385	113.50	111.00	89.00	11.88	31.19	33.25	11.50	8.94	14.50
	7"	E4728S-96	439	107.50	105.00	446	113.50	111.00	88.44	12.38	31.56	33.25	11.50	8.94	14.50

\*\* To top of discharge or bend pulleys, except foot pulley.

■ 10" bolt spacing recommended to permit washer clearance and adjustment.  
(12.5" for 84" and 96" belt widths.)

# 35° Troughed Belt Idlers, Equal Length Rolls

rubber cushion rolls (impact)



\* Demountable end bracket supplied for 36"-96" belt widths

## CEMA E

Belt width, inches	Dia.	Idler number	Standard Base (Belt width + 9")			Wide Base (Belt width + 15")			B	D	F	G	L	R**	W
			Idler weight, pounds	A	C	Idler weight, pounds	A	C							
36	6"	E4630S-36	160	50.50	45.00	163	53.50	51.00	37.00	10.44	18.44	13.50	9.00	3.12	12.00
	7"	E4730S-36	176	50.50	45.00	178	53.50	51.00	36.44	10.94	18.81	13.50	9.00	3.12	12.00
42	6"	E4630S-42	181	56.00	51.00	184	59.50	57.00	42.31	10.44	19.56	15.50	9.00	3.75	12.00
	7"	E4730S-42	199	56.00	51.00	202	59.50	57.00	41.69	10.94	20.00	15.50	9.00	3.75	12.00
48	6"	E4630S-48	199	62.00	57.00	203	65.50	63.00	47.56	10.44	20.75	17.50	9.00	4.31	12.00
	7"	E4730S-48	219	62.00	57.00	223	65.50	63.00	47.00	10.94	21.12	17.50	9.00	4.31	12.00
54	6"	E4630S-54	217	67.00	63.00	221	71.50	69.00	53.00	10.44	21.88	19.56	9.00	4.88	12.00
	7"	E4730S-54	240	67.00	63.00	243	71.50	69.00	52.44	10.94	22.31	19.56	9.00	4.88	12.00
60	6"	E4630S-60	233	71.75	69.00	238	77.50	75.00	57.62	10.44	22.88	21.31	9.00	5.44	12.00
	7"	E4730S-60	258	71.75	69.00	262	77.50	75.00	57.06	10.94	23.31	21.31	9.00	5.44	12.00
72	6"	E4630S-72	285	83.50	81.00	291	89.50	87.00	67.88	11.19	25.81	25.19	9.00	6.62	12.00
	7"	E4730S-72	314	83.50	81.00	320	89.50	87.00	67.31	11.69	26.25	25.19	9.00	6.62	12.00
84	6"	E4630S-84	376	95.50	93.00	385	101.50	99.00	78.44	11.94	28.88	29.19	11.50	7.75	14.50
	7"	E4730S-84	409	95.50	93.00	419	101.50	99.00	77.81	12.44	29.31	29.19	11.50	7.75	14.50
96	6"	E4630S-96	421	107.50	105.00	430	113.50	111.00	88.94	11.94	31.19	33.19	11.50	8.94	14.50
	7"	E4730S-96	458	107.50	105.00	468	113.50	111.00	88.38	12.44	31.56	33.19	11.50	8.94	14.50

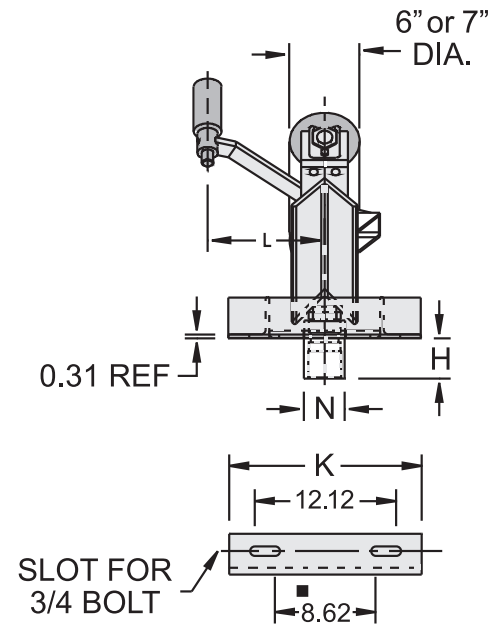
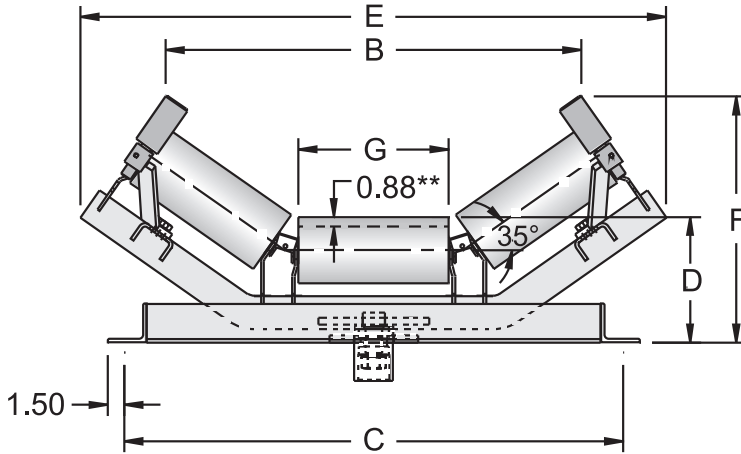
\*\* To top of discharge or bend pulleys, except foot pulley.

■ 10" bolt spacing recommended to permit washer clearance and adjustment.  
(12.5" for 84" and 96" belt widths.)



# 35° Troughed Belt Training Idlers, Equal Length Rolls

**positive action type**  
(above deck mounting)



## CEMA E

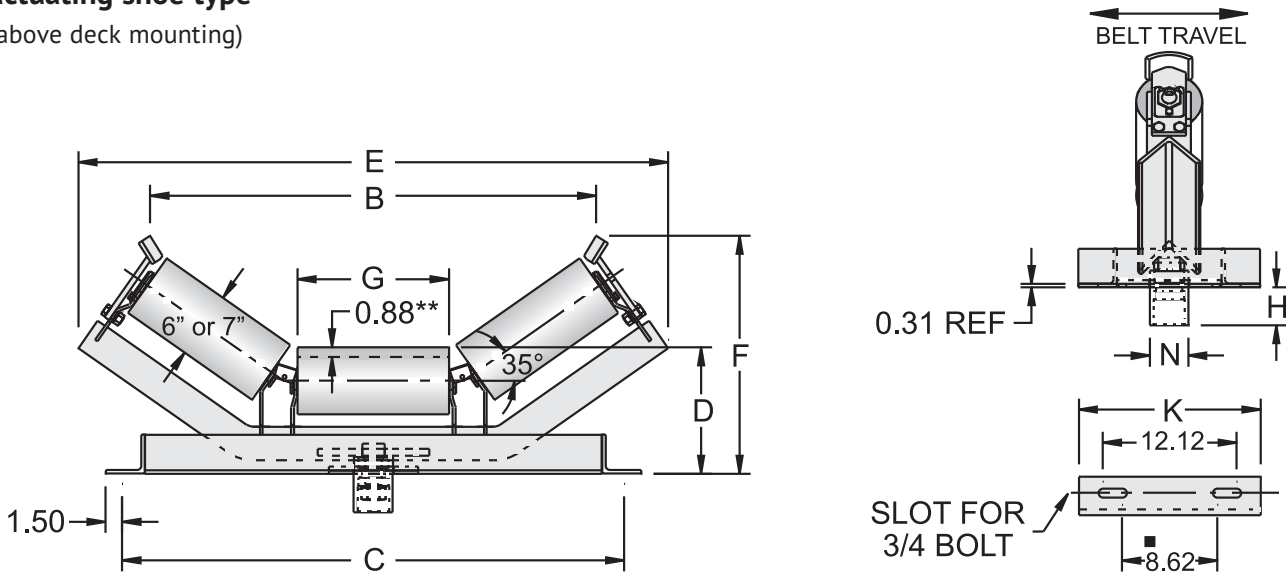
Belt width, inches	Dia.	Idler number	Standard Base (Belt width + 9")		Wide Base (Belt width + 15")		B	D	E	F	G	H	K	L	N
			Idler weight, pounds	C	Idler weight, pounds	C									
36	6"	E4632S-36	261	45.00	264	51.00	37.62	11.31	52.25	22.12	13.56	3.69	16.50	10.00	3.50
	7"	E4732S-36	291	45.00	295	51.00	37.62	11.81	52.25	22.12	13.56	3.69	16.50	10.00	3.50
42	6"	E4632S-42	287	51.00	291	57.00	42.94	11.31	57.50	23.25	15.56	3.69	16.50	10.00	3.50
	7"	E4732S-42	320	51.00	324	57.00	42.94	11.81	57.50	23.25	15.56	3.69	16.50	10.00	3.50
48	6"	E4632S-48	310	57.00	314	63.00	48.06	11.31	62.81	24.38	17.56	3.69	16.50	10.00	3.50
	7"	E4732S-48	349	57.00	352	63.00	48.06	11.81	62.81	24.38	17.56	3.69	16.50	10.00	3.50
54	6"	E4632S-54	337	63.00	341	69.00	53.50	11.31	68.25	25.56	19.62	3.69	16.50	10.00	3.50
	7"	E4732S-54	379	63.00	382	69.00	53.50	11.81	68.25	25.56	19.62	3.69	16.50	10.00	3.50
60	6"	E4632S-60	356	69.00	359	75.00	58.19	11.31	72.88	26.56	21.38	3.69	16.50	10.00	3.50
	7"	E4732S-60	399	69.00	403	75.00	58.19	11.81	72.88	26.56	21.38	3.69	16.50	10.00	3.50
72	6"	E4632S-72	495	81.00	500	87.00	68.38	12.00	83.88	29.44	25.25	4.75	21.50	15.00	5.25
	7"	E4732S-72	546	81.00	551	87.00	68.38	12.50	83.88	29.44	25.25	4.75	21.50	15.00	5.25

\*\* Elevation above adjacent idlers.

■ 10" bolt spacing recommended to permit adjustment.

# 35° Troughed Belt Training Idlers, Equal Length Rolls

actuating shoe type  
(above deck mounting)



## CEMA E

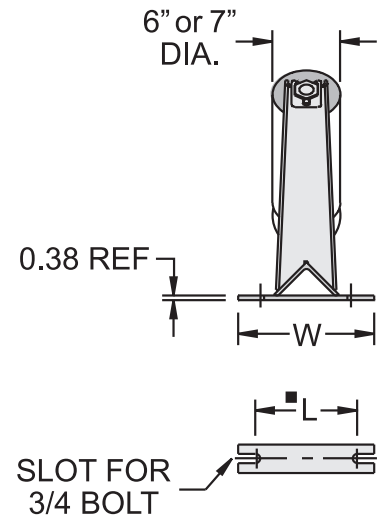
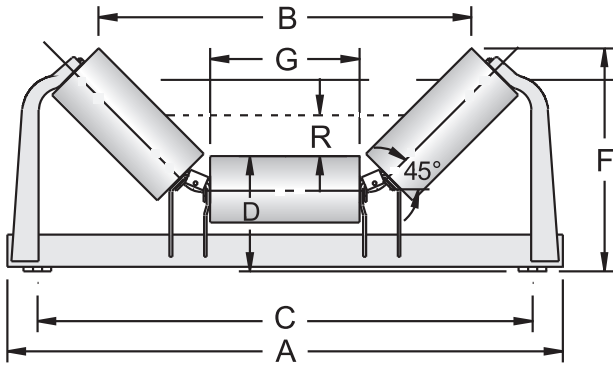
Belt width, inches	Dia.	Idler number	Standard Base (Belt width + 9")		Wide Base (Belt width + 15")		B	D	E	F	G	H	K	N
			Idler weight, pounds	C	Idler weight, pounds	C								
36	6"	E4637S-36	248	45.00	251	51.00	40.00	11.31	52.25	21.31	13.56	3.69	16.50	3.50
	7"	E4737S-36	278	45.00	282	51.00	39.44	11.81	52.25	21.75	13.56	3.69	16.50	3.50
42	6"	E4637S-42	273	51.00	277	57.00	45.25	11.31	57.50	22.44	15.56	3.69	16.50	3.50
	7"	E4737S-42	307	51.00	311	57.00	44.69	11.81	57.50	22.88	15.56	3.69	16.50	3.50
48	6"	E4637S-48	297	57.00	301	63.00	50.56	11.31	62.81	23.62	17.56	3.69	16.50	3.50
	7"	E4737S-48	336	57.00	339	63.00	49.94	11.81	62.81	24.00	17.56	3.69	16.50	3.50
54	6"	E4637S-54	324	63.00	328	69.00	56.00	11.31	68.25	24.81	19.62	3.69	16.50	3.50
	7"	E4737S-54	365	63.00	368	69.00	55.38	11.81	68.25	25.19	19.62	3.69	16.50	3.50
60	6"	E4637S-60	343	69.00	346	75.00	60.62	11.31	72.88	25.81	21.38	3.69	16.50	3.50
	7"	E4737S-60	385	69.00	389	75.00	60.06	11.81	72.88	26.19	21.38	3.69	16.50	3.50
72	6"	E4637S-72	481	81.00	486	87.00	70.81	12.00	83.88	28.69	25.25	4.75	21.50	5.25
	7"	E4737S-72	533	81.00	538	87.00	70.25	12.50	83.88	29.12	25.25	4.75	21.50	5.25

\*\* Elevation above adjacent idlers.

■ 10" bolt spacing recommended to permit adjustment.

# 45° Troughed Belt Idlers, Equal Length Rolls

steel rolls



## CEMA E

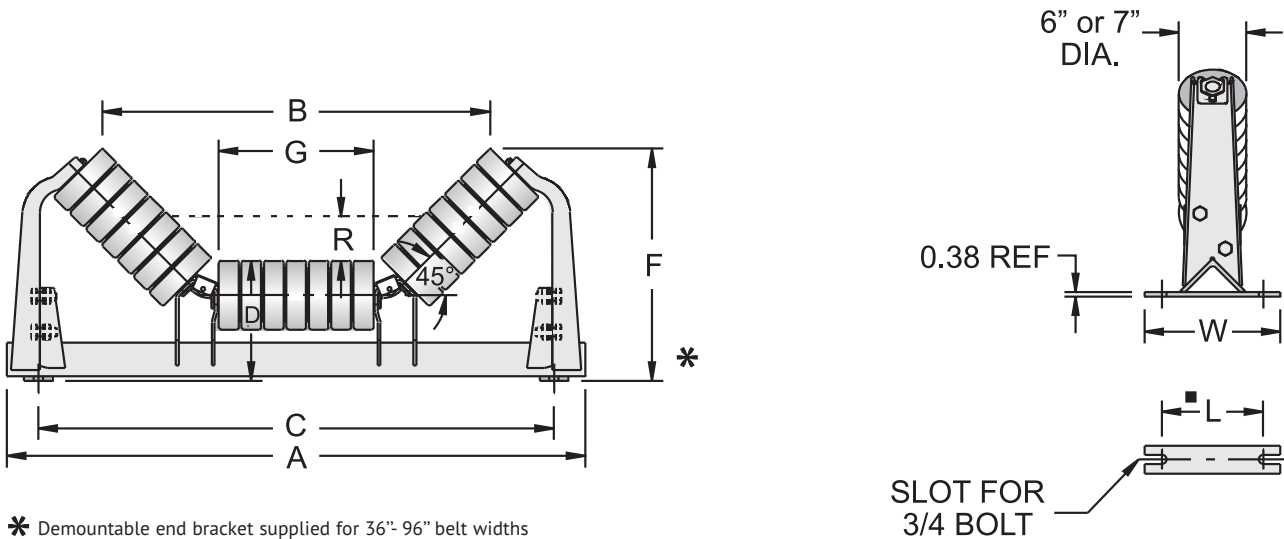
Belt width, inches	Dia.	Idler number	Standard Base (Belt width + 9")			Wide Base (Belt width + 15")			B	D	F	G	L	R**	W
			Idler weight, pounds	A	C	Idler weight, pounds	A	C							
36	6"	E4602S-36	151	50.50	45.00	153	53.50	51.00	33.88	10.44	20.25	13.56	9.00	3.88	12.00
	7"	E4702S-36	181	50.50	45.00	183	53.50	51.00	33.19	10.94	20.62	13.56	9.00	3.88	12.00
42	6"	E4602S-42	171	56.00	51.00	173	59.50	57.00	38.62	10.44	21.69	15.56	9.00	4.62	12.00
	7"	E4702S-42	202	56.00	51.00	204	59.50	57.00	37.88	10.94	22.00	15.56	9.00	4.62	12.00
48	6"	E4602S-48	184	62.00	57.00	186	65.50	63.00	43.44	10.44	23.06	17.56	9.00	5.31	12.00
	7"	E4702S-48	223	62.00	57.00	225	65.50	63.00	42.75	10.94	23.44	17.56	9.00	5.31	12.00
54	6"	E4602S-54	201	65.50	63.00	205	71.50	69.00	48.50	10.44	24.50	19.62	9.00	6.00	12.00
	7"	E4702S-54	243	65.50	63.00	247	71.50	69.00	47.75	10.94	24.88	19.62	9.00	6.00	12.00
60	6"	E4602S-60	218	71.50	69.00	222	77.50	75.00	52.69	10.44	25.75	21.38	9.00	6.75	12.00
	7"	E4702S-60	262	71.50	69.00	266	77.50	75.00	52.00	10.94	26.12	21.38	9.00	6.75	12.00
72	6"	E4602S-72	265	83.50	81.00	270	89.50	87.00	62.00	11.12	29.19	25.25	9.00	8.19	12.00
	7"	E4702S-72	315	83.50	81.00	320	89.50	87.00	61.31	11.62	29.56	25.25	9.00	8.19	12.00
84	6"	E4602S-84	338	95.50	93.00	345	101.50	99.00	71.69	11.88	32.75	29.25	11.50	9.62	14.50
	7"	E4702S-84	396	95.50	93.00	403	101.50	99.00	71.00	12.38	33.12	29.25	11.50	9.62	14.50
96	6"	E4602S-96	379	107.50	105.00	386	113.50	111.00	81.31	11.88	35.56	33.25	11.50	11.00	14.50
	7"	E4702S-96	444	107.50	105.00	451	113.50	111.00	80.62	12.38	35.94	33.25	11.50	11.00	14.50

\*\* To top of discharge or bend pulleys, except foot pulley.

■ 10" bolt spacing recommended to permit washer clearance and adjustment.  
(12.5" for 84" and 96" belt widths.)

# 45° Troughed Belt Idlers, Equal Length Rolls

rubber cushion rolls (impact)



## CEMA E

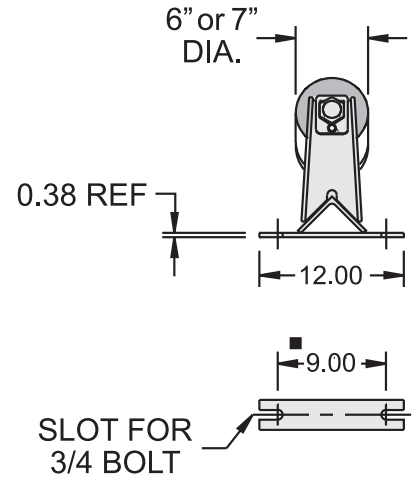
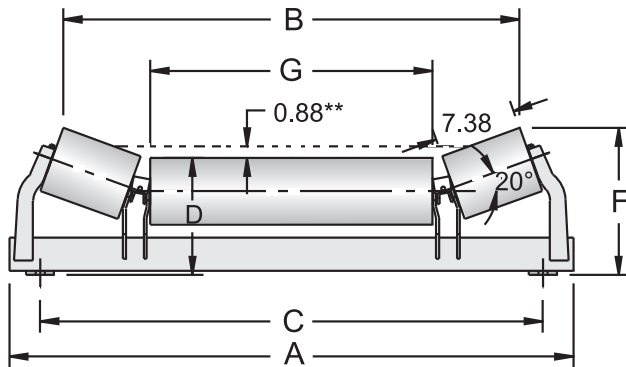
Belt width, inches	Dia.	Idler number	Standard Base (Belt width + 9")		Wide Base (Belt width + 15")		B	D	F	G	L	R**	W		
			Idler weight, pounds	A	C	Idler weight, pounds								A	C
36	6"	E4623S-36	164	50.50	45.00	166	53.50	51.00	33.88	10.44	20.25	13.50	9.00	3.88	12.00
	7"	E4723S-36	180	50.50	45.00	182	53.50	51.00	33.12	10.94	20.62	13.50	9.00	3.88	12.00
42	6"	E4623S-42	186	56.00	51.00	189	59.50	57.00	38.56	10.44	21.69	15.50	9.00	4.62	12.00
	7"	E4723S-42	204	56.00	51.00	207	59.50	57.00	37.88	10.94	22.00	15.50	9.00	4.62	12.00
48	6"	E4623S-48	204	62.00	57.00	207	65.50	63.00	43.44	10.44	23.06	17.50	9.00	5.31	12.00
	7"	E4723S-48	224	62.00	57.00	227	65.50	63.00	42.69	10.94	23.44	17.50	9.00	5.31	12.00
54	6"	E4623S-54	223	65.50	63.00	228	71.50	69.00	48.44	10.44	24.50	19.56	9.00	6.00	12.00
	7"	E4723S-54	246	65.50	63.00	251	71.50	69.00	47.75	10.94	24.88	19.56	9.00	6.00	12.00
60	6"	E4623S-60	240	71.50	69.00	245	77.50	75.00	52.62	10.44	25.75	21.31	9.00	6.75	12.00
	7"	E4723S-60	265	71.50	69.00	270	77.50	75.00	51.94	10.94	26.12	21.31	9.00	6.75	12.00
72	6"	E4623S-72	293	83.50	81.00	299	89.50	87.00	62.00	11.19	29.25	25.19	9.00	8.19	12.00
	7"	E4723S-72	322	83.50	81.00	328	89.50	87.00	61.25	11.69	29.56	25.19	9.00	8.19	12.00
84	6"	E4623S-84	396	95.50	93.00	406	101.50	99.00	71.69	11.94	32.81	29.19	11.50	9.62	14.50
	7"	E4723S-84	429	95.50	93.00	439	101.50	99.00	70.94	12.44	33.12	29.19	11.50	9.62	14.50
96	6"	E4623S-96	444	107.50	105.00	454	113.50	111.00	81.31	11.94	35.62	33.19	11.50	11.00	14.50
	7"	E4723S-96	482	107.50	105.00	492	113.50	111.00	80.62	12.44	36.00	33.19	11.50	11.00	14.50

\*\* To top of discharge or bend pulleys, except foot pulley.

■ 10" bolt spacing recommended to permit washer clearance and adjustment.  
(12.5" for 84" and 96" belt widths.)

# 20° Troughed Belt Picking & Feeding Conveyor Idlers

steel rolls



## CEMA E

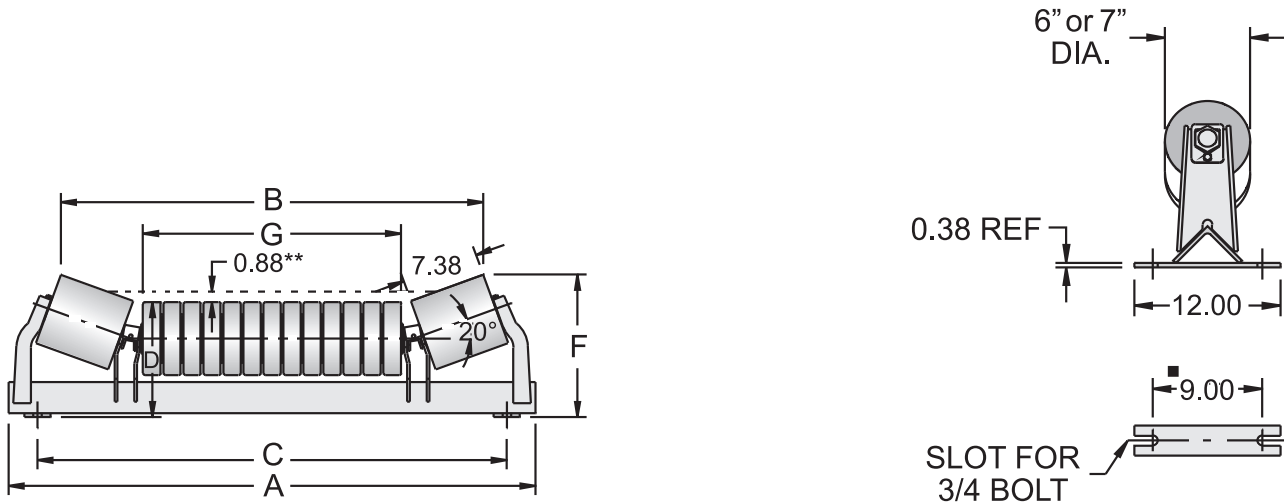
Belt width, inches	Dia.	Idler number	Standard Base (Belt width + 9")		Wide Base (Belt width + 15")		B	D	F	G		
			Idler weight, pounds	A	C	Idler weight, pounds					A	C
36	6"	E4605S-36	131	50.50	45.00	133	53.50	51.00	40.81	10.44	13.12	25.25
	7"	E4705S-36	159	50.50	45.00	161	53.50	51.00	40.50	10.94	13.56	25.25
42	6"	E4605S-42	145	56.00	51.00	147	59.50	57.00	46.69	10.44	13.12	31.12
	7"	E4705S-42	177	56.00	51.00	179	59.50	57.00	46.38	10.94	13.56	31.12
48	6"	E4605S-48	159	62.00	57.00	162	65.50	63.00	52.69	10.44	13.12	37.12
	7"	E4705S-48	195	62.00	57.00	198	65.50	63.00	52.38	10.94	13.56	37.10
54	6"	E4605S-54	174	68.00	63.00	176	71.50	69.00	58.69	10.44	13.12	43.12
	7"	E4705S-54	213	68.00	63.00	216	71.50	69.00	58.38	10.94	13.56	43.12
60	6"	E4605S-60	188	74.00	69.00	190	77.50	75.00	64.69	10.44	13.12	49.12
	7"	E4705S-60	232	74.00	69.00	234	77.50	75.00	64.38	10.94	13.56	49.12
72	6"	E4605S-72	232	86.00	81.00	235	89.50	87.00	76.69	11.12	13.81	61.12
	7"	E4705S-72	283	86.00	81.00	286	89.50	87.00	76.38	11.62	14.31	61.12

\*\* To top of discharge or bend pulleys, except foot pulley.

■ 10" bolt spacing recommended to permit washer clearance and adjustment.

# 20° Troughed Belt Picking & Feeding Conveyor Idlers

steel end rolls with rubber cushion center roll



## CEMA E

Belt width, inches	Dia.	○ Idler number	Standard Base (Belt width + 9")			Wide Base (Belt width + 15")			B	D	F	G
			Idler weight, pounds	A	C	Idler weight, pounds	A	C				
36	6"	E4605RCS-36	137	50.50	45.00	139	53.50	51.00	40.81	10.44	13.12	25.19
	7"	E4705RCS-36	158	50.50	45.00	160	53.50	51.00	40.50	10.94	13.56	25.19
42	6"	E4605RCS-42	153	56.00	51.00	155	59.50	57.00	46.69	10.44	13.12	31.06
	7"	E4705RCS-42	176	56.00	51.00	178	59.50	57.00	46.38	10.94	13.56	31.06
48	6"	E4605RCS-48	169	62.00	57.00	171	65.50	63.00	52.69	10.44	13.12	37.06
	7"	E4705RCS-48	194	62.00	57.00	197	65.50	63.00	52.38	10.94	13.56	37.06
54	6"	E4605RCS-54	185	68.00	63.00	187	71.50	69.00	58.69	10.44	13.12	43.06
	7"	E4705RCS-54	213	68.00	63.00	215	71.50	69.00	58.38	10.94	13.56	43.06
60	6"	E4605RCS-60	201	74.00	69.00	204	77.50	75.00	64.69	10.44	13.12	49.06
	7"	E4705RCS-60	231	74.00	69.00	233	77.50	75.00	64.38	10.94	13.56	49.06
72	6"	E4605RCS-72	250	86.00	81.00	253	89.50	87.00	76.69	11.12	13.81	61.06
	7"	E4705RCS-72	285	86.00	81.00	288	89.50	87.00	76.38	11.62	14.31	61.06

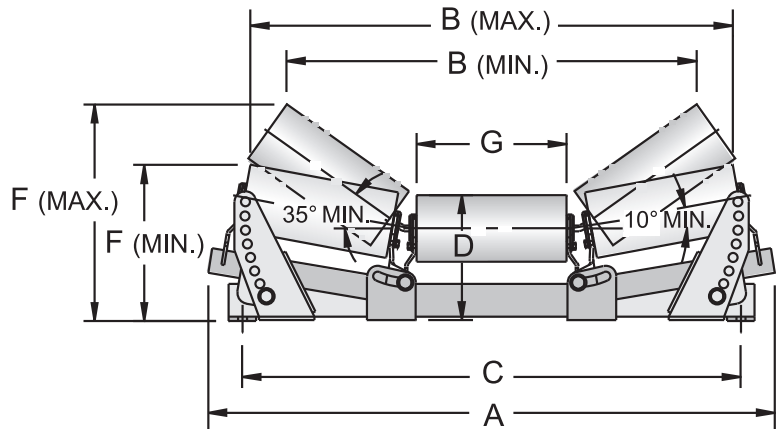
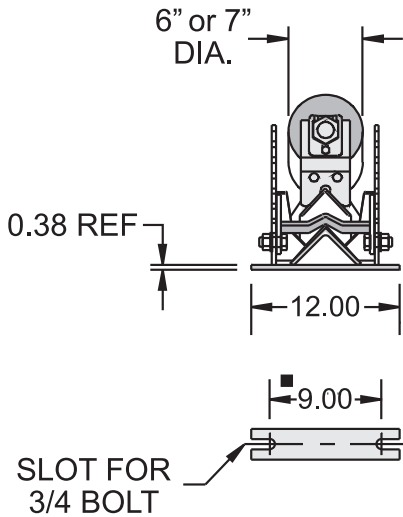
\*\* To top of discharge or bend pulleys, except foot pulley.

■ 10" bolt spacing recommended to permit washer clearance and adjustment.

○ Available with rubber cushion end rolls; specify suffix RS. Example 4605RS-36.

# Variable Troughed Belt Idlers 10° - 35° Adjustment

steel rolls



## CEMA E

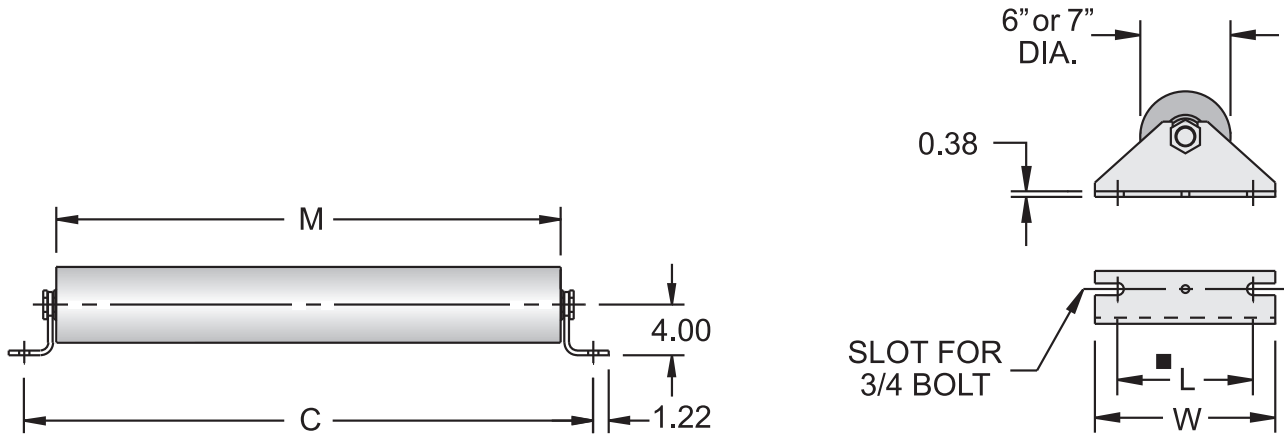
Belt width, inches	Dia.	▼ Idler number	Standard Base (Belt width + 9")			Wide Base (Belt width + 15")			B		D	F		G
			Idler weight, pounds	A	C	Idler weight, pounds	A	C	MIN.	MAX.		MIN.	MAX.	
Inches														
36	6"	E4606S-36	202	51.19	45.00	221	51.19	45.00	36.94	43.62	11.31	14.06	19.56	13.56
	7"	E4706S-36	232	51.19	45.00	235	51.19	45.00	36.38	43.44	11.81	14.56	19.94	13.56
42	6"	E4606S-42	218	57.12	51.00	242	57.12	51.00	42.31	49.56	11.31	14.44	20.69	15.56
	7"	E4706S-42	252	57.12	51.00	255	57.12	51.00	41.75	49.38	11.81	14.94	21.06	15.56
48	6"	E4606S-48	237	63.31	57.00	263	63.31	57.00	47.69	55.69	11.31	14.81	21.94	17.56
	7"	E4706S-48	276	63.31	57.00	279	63.31	57.00	47.12	55.31	11.81	15.37	22.31	17.56
54	6"	E4606S-54	254	69.44	63.00	283	69.44	63.00	53.12	61.75	11.31	15.19	23.12	19.62
	7"	E4706S-54	296	69.44	63.00	300	69.44	63.00	52.50	61.56	11.81	15.69	23.50	19.62
60	6"	E4606S-60	277	74.88	69.00	308	74.88	69.00	57.62	67.06	11.31	15.56	24.06	21.38
	7"	E4706S-60	319	74.88	69.00	324	74.88	69.00	57.06	66.69	11.81	16.06	24.50	21.38
72	6"	E4606S-72	306	86.44	81.00	344	86.44	81.00	67.88	78.56	11.31	16.25	25.25	25.25
	7"	E4706S-72	358	86.44	81.00	363	86.44	81.00	67.31	78.38	11.81	16.75	26.62	25.25
84	6"	E4606S-84	394	97.81	93.00	437	97.81	93.00	78.38	90.00	12.06	17.44	29.06	29.25
	7"	E4706S-84	449	97.81	93.00	455	97.81	93.00	77.81	89.81	12.56	17.94	29.50	29.25
96	6"	E4606S-96	433	109.69	105.00	481	109.69	105.00	88.94	101.88	12.06	18.12	31.31	33.25
	7"	E4706S-96	493	109.69	105.00	499	109.69	105.00	88.38	101.69	12.56	18.62	31.75	33.25

■ 10" bolt spacing recommended to permit washer clearance and adjustment.

▼ 1/4" thick steel rolls standard.

# Flat Belt Idlers

steel rolls



## CEMA E

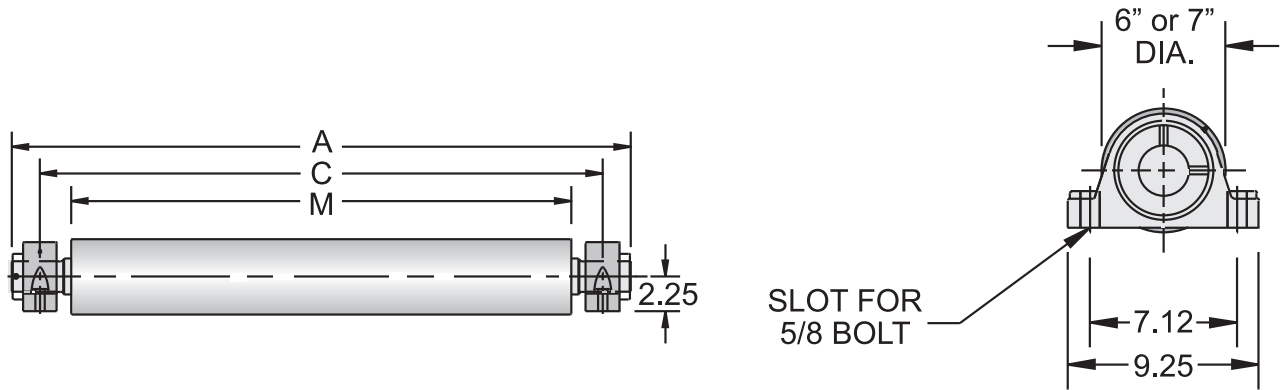
Belt width, inches	Dia.	Idler number	Standard Base (Belt width + 9")			Wide Base (Belt width + 15")			L	W
			Idler weight, pounds	C	M	Idler weight, pounds	C	M		
				Inches			Inches			
36	6"	E4613S-36	91	45.00	39.88	102	51.00	45.88	9.00	12.00
	7"	E4713S-36	118	45.00	39.88	132	51.00	45.88	9.00	12.00
42	6"	E4613S-42	102	51.00	45.88	112	57.00	51.88	9.00	12.00
	7"	E4713S-42	132	51.00	45.88	146	57.00	51.88	9.00	12.00
48	6"	E4613S-48	112	57.00	51.88	122	63.00	57.88	9.00	12.00
	7"	E4713S-48	146	57.00	51.88	160	63.00	57.88	9.00	12.00
54	6"	E4613S-54	122	63.00	57.88	132	69.00	63.88	9.00	12.00
	7"	E4713S-54	160	63.00	57.88	174	69.00	63.88	9.00	12.00
60	6"	E4613S-60	132	69.00	63.88	143	75.00	69.88	9.00	12.00
	7"	E4713S-60	174	69.00	63.88	188	75.00	69.88	9.00	12.00
72	6"	E4613S-72	154	81.00	75.88	174	87.00	81.88	9.00	12.00
	7"	E4713S-72	202	81.00	75.88	228	87.00	81.88	9.00	12.00
84	6"	E4613S-84	185	93.00	87.88	196	99.00	93.88	11.50	14.50
	7"	E4713S-84	243	93.00	87.88	258	99.00	93.88	11.50	14.50
96	6"	E4613S-96	207	105.00	99.88	218	111.00	105.88	11.50	14.50
	7"	E4713S-96	272	105.00	99.88	287	111.00	105.88	11.50	14.50

- 10" bolt spacing recommended to permit adjustment. (12.5" for 84" and 96" belt widths.)



# Live Shaft Idlers

steel rolls, live shaft type



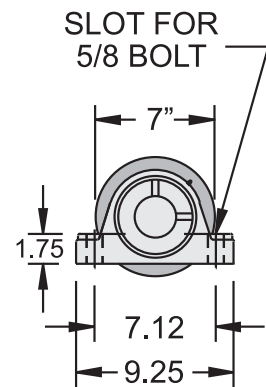
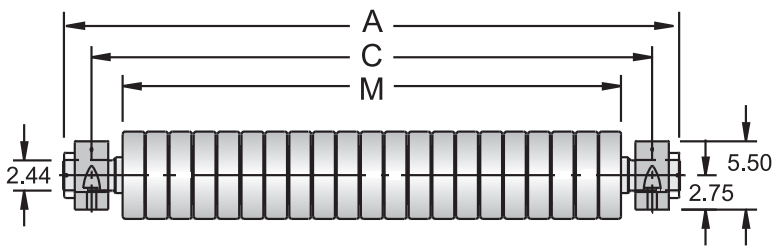
# CEMA E

Belt width, inches	Dia.	Idler number	Standard Base (Belt width + 9")				Wide Base (Belt width + 15")			
			Idler weight, pounds*	A	C	M	Idler weight, pounds*	A	C	M
				Inches						
36	6"	E4613L-36	162	49.50	45.00	40.00	178	55.50	51.00	46.00
	7"	E4713L-36	177	49.50	45.00	40.00	193	55.50	51.00	46.00
42	6"	E4613L-42	178	55.50	51.00	46.00	193	61.50	57.00	52.00
	7"	E4713L-42	193	55.50	51.00	46.00	210	61.50	57.00	52.00
48	6"	E4613L-48	193	61.50	57.00	52.00	209	67.50	63.00	58.00
	7"	E4713L-48	210	61.50	57.00	52.00	227	67.50	63.00	58.00
54	6"	E4613L-54	209	67.50	63.00	58.00	224	73.50	69.00	64.00
	7"	E4713L-54	227	67.50	63.00	58.00	244	73.50	69.00	64.00
60	6"	E4613L-60	224	73.50	69.00	64.00	240	79.50	75.00	70.00
	7"	E4713L-60	244	73.50	69.00	64.00	261	79.50	75.00	70.00
72	6"	E4613L-72	256	85.50	81.00	76.00	271	91.50	87.00	82.00
	7"	E4713L-72	278	85.50	81.00	76.00	295	91.50	87.00	82.00
84	6"	E4613L-84	287	97.50	93.00	88.00	302	103.50	99.00	94.00
	7"	E4713L-84	312	97.50	93.00	88.00	329	103.50	99.00	94.00
96	6"	E4613L-96	318	109.50	105.00	100.00	334	115.50	111.00	106.00
	7"	E4713L-96	346	109.50	105.00	100.00	363	115.50	111.00	106.00

\* Weight includes pillow blocks (P-B22439H).

# Live Shaft Idlers

rubber cushion rolls, live shaft type



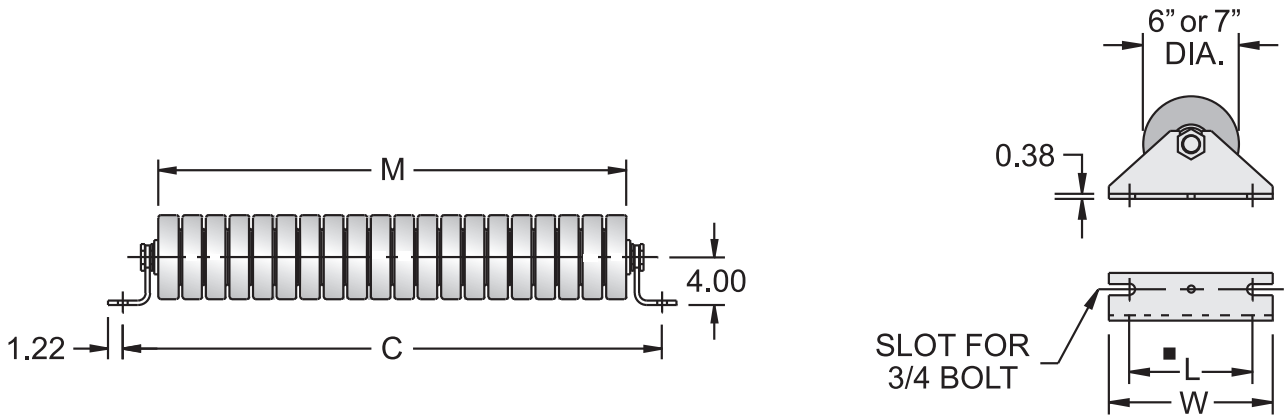
## CEMA E

Belt width, inches	Dia.	Idler number	Standard Base (Belt width + 9")			Wide Base (Belt width + 15")				
			Idler weight, pounds*	A Inches	C Inches	M Inches	Idler weight, pounds*	A Inches	C Inches	M Inches
36	7"	E4716-36	235	49.50	45.00	40.50	258	55.50	51.00	46.50
42	7"	E4716-42	258	55.50	51.00	46.50	281	61.50	57.00	52.50
48	7"	E4716-48	281	61.50	57.00	52.50	304	67.50	63.00	58.50
54	7"	E4716-54	304	67.50	63.00	58.50	328	73.50	69.00	64.50
60	7"	E4716-60	328	73.50	69.00	64.50	351	79.50	75.00	70.50
72	7"	E4716-72	374	85.50	81.00	76.50	397	91.50	87.00	82.50
84	7"	E4716-84	409	97.50	93.00	88.50	432	103.50	99.00	94.50
96	7"	E4716-96	456	109.50	105.00	100.50	479	115.50	111.00	106.50

\* Weight includes pillow blocks (P-B22439H).

# Flat Belt Idlers

## rubber cushion rolls



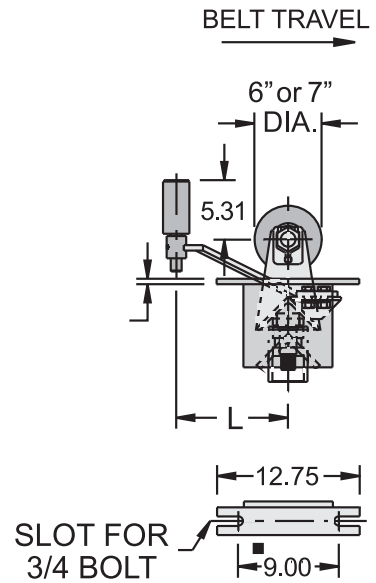
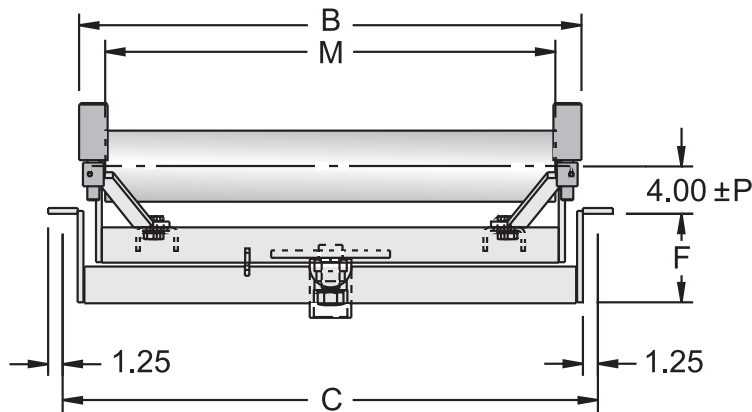
# CEMA E

Belt width, inches	Dia.	Idler number	Standard Base (Belt width + 9")			Wide Base (Belt width + 15")			L	W
			Idler weight, pounds	C	M	Idler weight, pounds	C	M		
				Inches			Inches			
36	6"	E4615S-36	121	45.00	39.75	137	51.00	45.75	9.00	12.00
	7"	E4715S-36	135	45.00	39.75	154	51.00	45.75	9.00	12.00
42	6"	E4615S-42	137	51.00	45.75	153	57.00	51.75	9.00	12.00
	7"	E4715S-42	154	51.00	45.75	173	57.00	51.75	9.00	12.00
48	6"	E4615S-48	153	57.00	51.75	167	63.00	57.75	9.00	12.00
	7"	E4715S-48	173	57.00	51.75	189	63.00	57.75	9.00	12.00
54	6"	E4615S-54	167	63.00	57.75	182	69.00	63.75	9.00	12.00
	7"	E4715S-54	189	63.00	57.75	206	69.00	63.75	9.00	12.00
60	6"	E4615S-60	182	69.00	63.75	197	75.00	69.75	9.00	12.00
	7"	E4715S-60	206	69.00	63.75	223	75.00	69.75	9.00	12.00
72	6"	E4615S-72	209	81.00	75.75	231	87.00	81.75	9.00	12.00
	7"	E4715S-72	238	81.00	75.75	262	87.00	81.75	9.00	12.00
84	6"	E4615S-84	244	93.00	87.75	257	99.00	93.75	11.50	14.50
	7"	E4715S-84	277	93.00	87.75	292	99.00	93.75	11.50	14.50
96	6"	E4615S-96	269	105.00	99.75	282	111.00	105.75	11.50	14.50
	7"	E4715S-96	307	105.00	99.75	322	111.00	105.75	11.50	14.50

- 10" bolt spacing recommended to permit adjustment. (12.5" for 84" and 96" belt widths.)

# Flat Belt Training Idlers

positive action type

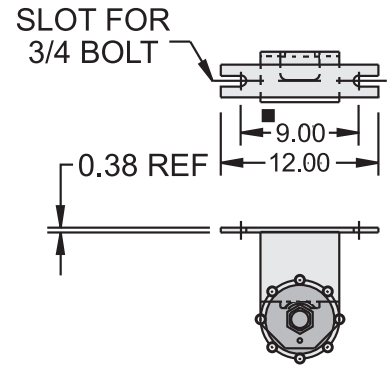
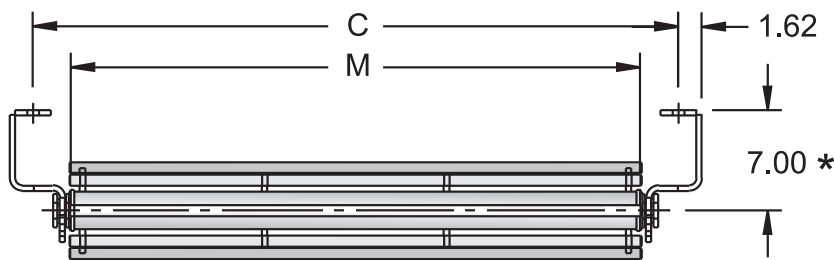


## CEMA E

Belt width, inches	Dia.	Idler number	Standard Base (Belt width + 9")		Wide Base (Belt width + 15")		B	F	L	M	P
			Idler weight, pounds	C	Idler weight, pounds	C					
36	6"	E4614S-36	230	45.00	236	51.00	42.12	7.44	10.00	37.88	0.19
	7"	E4714S-36	255	45.00	262	51.00	42.12	7.44	10.00	37.88	0.19
42	6"	E4614S-42	254	51.00	261	57.00	48.12	7.44	10.00	43.88	0.19
	7"	E4714S-42	282	51.00	289	57.00	48.12	7.44	10.00	43.88	0.19
48	6"	E4614S-48	283	57.00	290	63.00	54.12	7.44	10.00	49.88	0.19
	7"	E4714S-48	316	57.00	323	63.00	54.12	7.44	10.00	49.88	0.19
54	6"	E4614S-54	309	63.00	315	69.00	60.00	7.44	15.00	55.88	0.19
	7"	E4714S-54	344	63.00	351	69.00	60.00	7.44	15.00	55.88	0.19
60	6"	E4614S-60	333	69.00	339	75.00	66.00	7.44	15.00	61.88	0.25
	7"	E4714S-60	374	69.00	380	75.00	66.00	7.44	15.00	61.88	0.25
72	6"	E4614S-72	456	81.00	462	87.00	78.00	9.38	15.00	73.88	0.25
	7"	E4714S-72	503	81.00	509	87.00	78.00	9.38	15.00	73.88	0.25

■ 10" bolt spacing recommended to permit adjustment.

## Return Belt Beater Idlers



## CEMA E

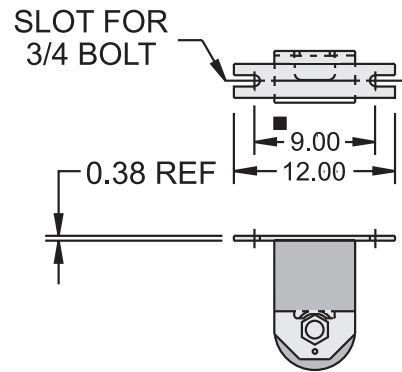
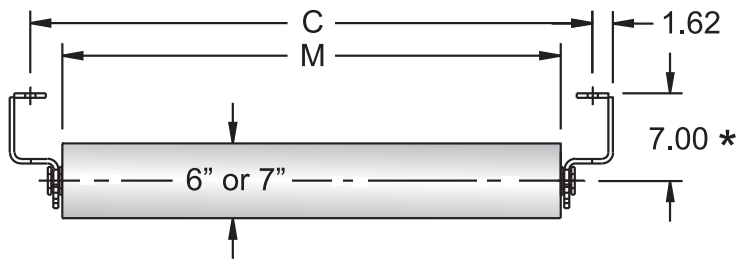
Belt width, inches	Dia.	Idler number	Standard Base (Belt width + 9")			Wide Base (Belt width + 15")		
			Idler weight, pounds	C	M	Idler weight, pounds	C	M
				Inches			Inches	
36	6"	E4619S-36	101	45.00	39.88	112	51.00	45.88
	7"	E4719S-36	104	45.00	39.88	115	51.00	45.88
42	6"	E4619S-42	112	51.00	45.88	123	57.00	51.88
	7"	E4719S-42	115	51.00	45.88	126	57.00	51.88
48	6"	E4619S-48	123	57.00	51.88	135	63.00	57.88
	7"	E4719S-48	126	57.00	51.88	139	63.00	57.88
54	6"	E4619S-54	135	63.00	57.88	146	69.00	63.88
	7"	E4719S-54	139	63.00	57.88	151	69.00	63.88
60	6"	E4619S-60	146	69.00	63.88	157	75.00	69.88
	7"	E4719S-60	151	69.00	63.88	162	75.00	69.88
72	6"	E4619S-72	169	81.00	75.88	179	87.00	81.88
	7"	E4719S-72	174	81.00	75.88	184	87.00	81.88
84	6"	E4619S-84	192	93.00	87.88	202	99.00	93.88
	7"	E4719S-84	198	93.00	87.88	208	99.00	93.88
96	6"	E4619S-96	214	105.00	99.88	224	111.00	105.88
	7"	E4719S-96	220	105.00	99.88	230	111.00	105.88

■ 10" bolt spacing recommended to permit adjustment.

\* 1.75" and 4.25" drops can be furnished if specified.

# Return Belt Idlers

steel rolls



## CEMA E

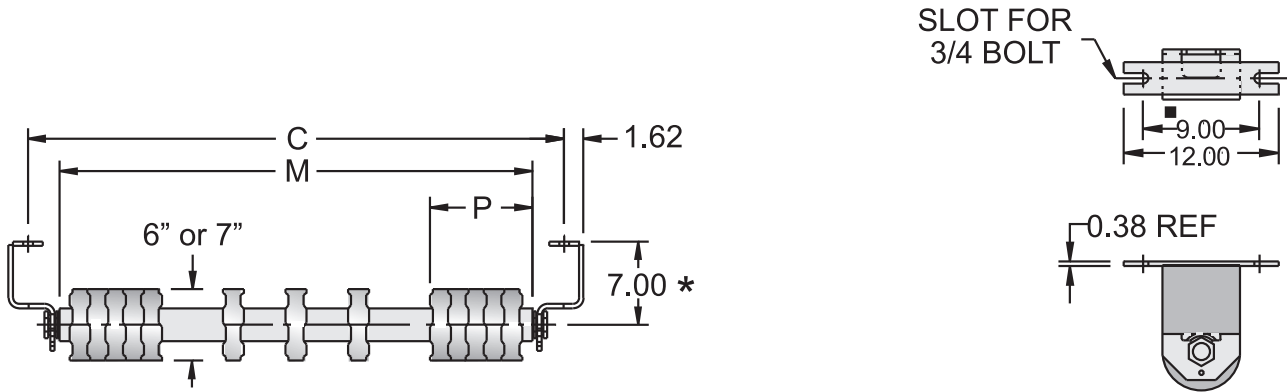
Belt width, inches	Dia.	Idler number	Standard Base (Belt width + 9")			Wide Base (Belt width + 15")		
			Idler weight, pounds	C	M	Idler weight, pounds	C	M
				Inches			Inches	
36	6"	E4617S-36	92	45.00	39.88	103	51.00	45.88
	7"	E4717S-36	119	45.00	39.88	133	51.00	45.88
42	6"	E4617S-42	103	51.00	45.88	113	57.00	51.88
	7"	E4717S-42	133	51.00	45.88	147	57.00	51.88
48	6"	E4617S-48	113	57.00	51.88	123	63.00	57.88
	7"	E4717S-48	147	57.00	51.88	161	63.00	57.88
54	6"	E4617S-54	123	63.00	57.88	133	69.00	63.88
	7"	E4717S-54	161	63.00	57.88	175	69.00	63.88
60	6"	E4617S-60	133	69.00	63.88	143	75.00	69.88
	7"	E4717S-60	175	69.00	63.88	189	75.00	69.88
72	6"	E4617S-72	155	81.00	75.88	174	87.00	81.88
	7"	E4717S-72	203	81.00	75.88	228	87.00	81.88
84	6"	E4617S-84	223	93.00	87.88	236	99.00	93.88
	7"	E4717S-84	244	93.00	87.88	258	99.00	93.88
96	6"	E4617S-96	250	105.00	99.88	263	111.00	105.88
	7"	E4717S-96	273	105.00	99.88	287	111.00	105.88

■ 10" bolt spacing recommended to permit adjustment.

\* 1.75" and 4.25" drops can be furnished if specified.

# Return Belt Idlers

rubber tread rolls, massed ends



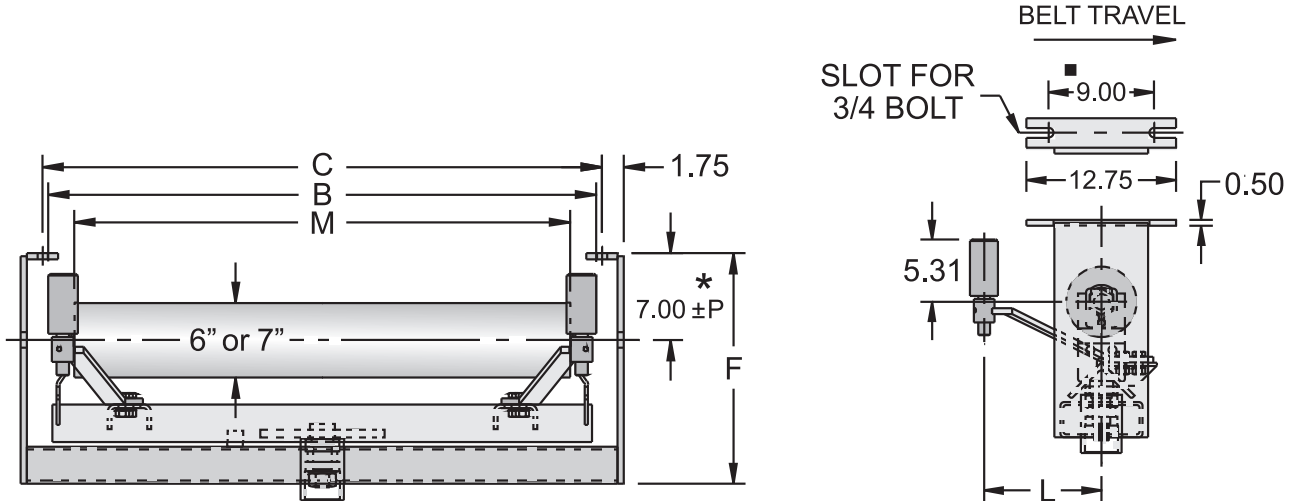
# CEMA E

Belt width, inches	Dia.	▽ Idler number	Standard Base (Belt width + 9")			Wide Base (Belt width + 15")			Number of treads		
			Idler weight, pounds	C	M	P	Idler weight, pounds	C		M	P
				Inches				Inches			
36	6"	E4618S-36	81	45.00	39.69	8.62	87	51.00	45.69	9.62	13
	7"	E4718S-36	92	45.00	39.69	8.62	97	51.00	45.69	9.62	
42	6"	E4618S-42	88	51.00	45.69	8.62	94	57.00	51.69	9.62	14
	7"	E4718S-42	100	51.00	45.69	8.62	106	57.00	51.69	9.62	
48	6"	E4618S-48	96	57.00	51.69	8.62	102	63.00	57.69	9.62	15
	7"	E4718S-48	108	57.00	51.69	8.62	114	63.00	57.69	9.62	
54	6"	E4618S-54	103	63.00	57.69	8.62	109	69.00	63.69	9.62	16
	7"	E4718S-54	116	63.00	57.69	8.62	122	69.00	63.69	9.62	
60	6"	E4618S-60	111	69.00	63.69	8.62	117	75.00	69.69	9.62	17
	7"	E4718S-60	125	69.00	63.69	8.62	131	75.00	69.69	9.62	
72	6"	E4618S-72	126	81.00	75.69	8.62	142	87.00	81.69	9.62	19
	7"	E4718S-72	141	81.00	75.69	8.62	158	87.00	81.69	9.62	
84	6"	E4618S-84	152	93.00	87.69	8.62	158	99.00	93.69	9.62	21
	7"	E4718S-84	169	93.00	87.69	8.62	176	99.00	93.69	9.62	
96	6"	E4618S-96	168	105.00	99.69	8.62	175	111.00	105.69	9.62	23
	7"	E4718S-96	187	105.00	99.69	8.62	194	111.00	105.69	9.62	

- 10" bolt spacing recommended to permit adjustment.
- \* 1.75" and 4.25" drops can be furnished if specified.
- ▽ 6" and 7" diameter urethane treads available.

# Return Belt Training Idlers

steel rolls, positive action type



## CEMA E

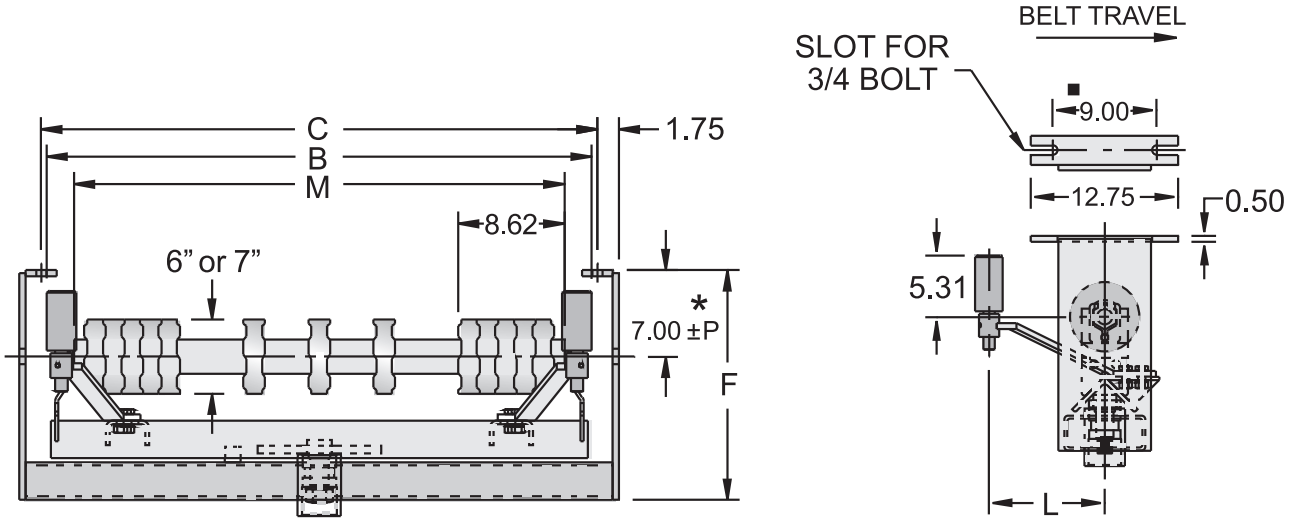
Belt width, inches	Dia.	Idler number	Standard Base (Belt width + 9")		Wide Base (Belt width + 15")		B	F	L	M	P
			Idler weight, pounds	C	Idler weight, pounds	C					
Inches											
36	6"	E4620S-36	264	45.00	272	51.00	44.12	18.56	10.00	39.88	0.19
	7"	E4720S-36	291	45.00	299	51.00	44.12	18.56	10.00	39.88	0.19
42	6"	E4620S-42	323	51.00	331	57.00	50.12	18.56	10.00	45.88	0.19
	7"	E4720S-42	353	51.00	361	57.00	50.12	18.56	10.00	45.88	0.19
48	6"	E4620S-48	345	57.00	353	63.00	56.12	18.56	10.00	51.88	0.19
	7"	E4720S-48	380	57.00	388	63.00	56.12	18.56	10.00	51.88	0.19
54	6"	E4620S-54	364	63.00	372	69.00	62.00	18.56	15.00	57.88	0.19
	7"	E4720S-54	402	63.00	410	69.00	62.00	18.56	15.00	57.88	0.19
60	6"	E4620S-60	392	69.00	400	75.00	68.00	18.56	15.00	63.88	0.25
	7"	E4720S-60	433	69.00	441	75.00	68.00	18.56	15.00	63.88	0.25
72	6"	E4620S-72	544	81.00	555	87.00	80.00	19.69	15.00	75.88	0.25
	7"	E4720S-72	592	81.00	604	87.00	80.00	19.69	15.00	75.88	0.25

- 10" bolt spacing recommended to permit adjustment.
- \* 4.25" drop can be furnished if specified.



# Return Belt Idlers

rubber tread rolls, positive action type, massed ends



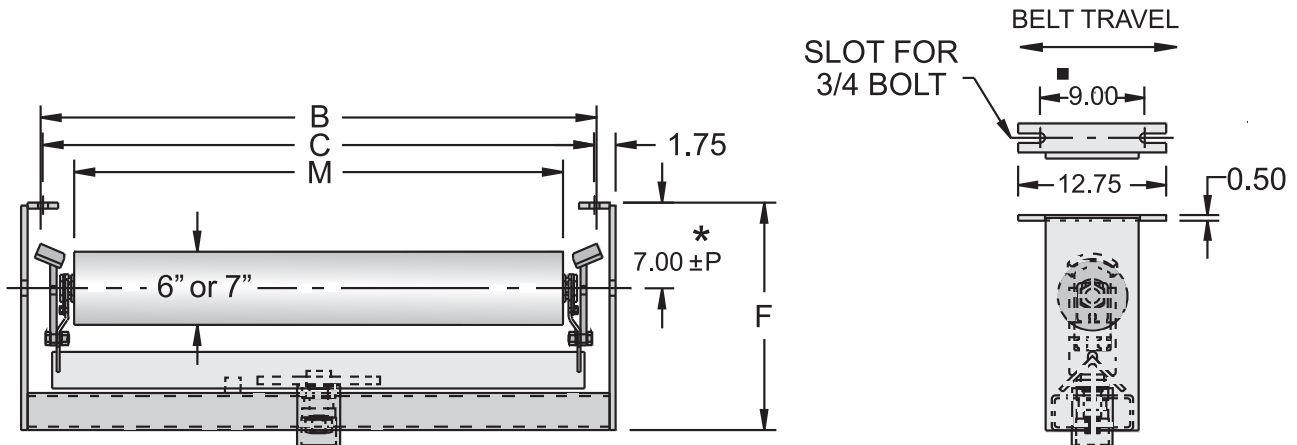
# CEMA E

Belt width, inches	Dia.	▽ Idler number	Standard Base (Belt width + 9")		Wide Base (Belt width + 15")		B	F	L	M	P	Number of treads
			Idler weight, pounds	C	Idler weight, pounds	C						
36	6"	E4621S-36	253	45.00	261	51.00	44.12	18.56	10.00	39.69	0.19	13
	7"	E4721S-36	264	45.00	272	51.00	44.12	18.56	10.00	39.69	0.19	13
42	6"	E4621S-42	308	51.00	316	57.00	50.12	18.56	10.00	45.69	0.19	14
	7"	E4721S-42	320	51.00	328	57.00	50.12	18.56	10.00	45.69	0.19	14
48	6"	E4621S-48	329	57.00	337	63.00	56.12	18.56	10.00	51.69	0.19	15
	7"	E4721S-48	341	57.00	349	63.00	56.12	18.56	10.00	51.69	0.19	15
54	6"	E4621S-54	344	63.00	352	69.00	62.00	18.56	15.00	57.69	0.19	16
	7"	E4721S-54	357	63.00	365	69.00	62.00	18.56	15.00	57.69	0.19	16
60	6"	E4621S-60	369	69.00	377	75.00	68.00	18.56	15.00	63.69	0.25	17
	7"	E4721S-60	383	69.00	391	75.00	68.00	18.56	15.00	63.69	0.25	17
72	6"	E4621S-72	514	81.00	525	87.00	80.00	19.69	15.00	75.69	0.25	19
	7"	E4721S-72	529	81.00	541	87.00	80.00	19.69	15.00	75.69	0.25	19

- 10" bolt spacing recommended to permit adjustment.
- \* 4.25" drop can be furnished if specified.
- ▽ 6" and 7" diameter urethane treads available.

# Return Belt Training Idlers

steel rolls, actuating shoe type



## CEMA E

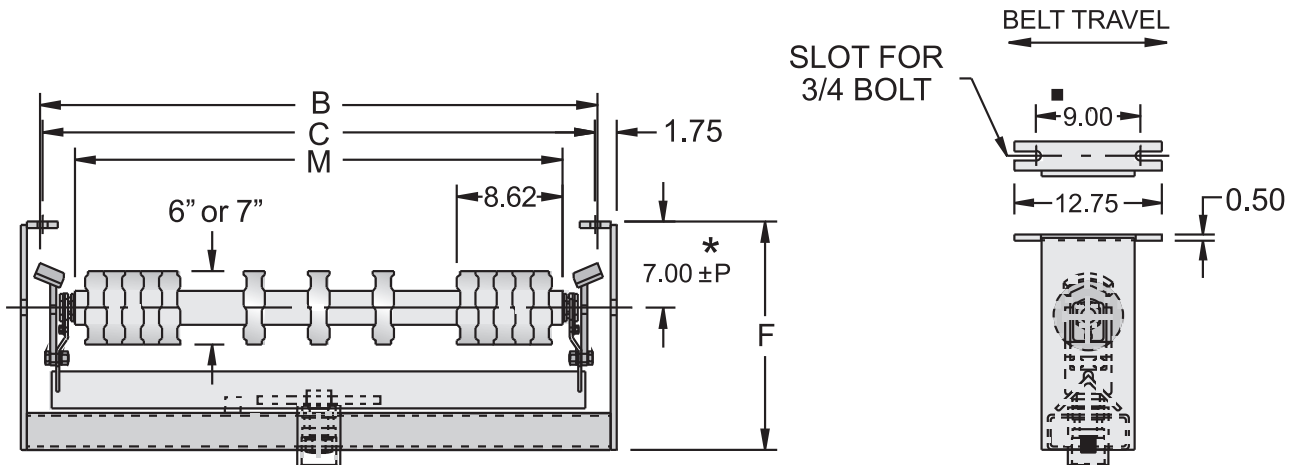
Belt width, inches	Dia.	Idler number	Standard Base (Belt width + 9")		Wide Base (Belt width + 15")		B	F	M	P
			Idler weight, pounds	C	Idler weight, pounds	C				
36	6"	E4626S-36	251	45.00	259	51.00	45.38	18.56	39.88	0.19
	7"	E4726S-36	278	45.00	286	51.00	45.38	18.56	39.88	0.19
42	6"	E4626S-42	310	51.00	318	57.00	51.38	18.56	45.88	0.19
	7"	E4726S-42	340	51.00	348	57.00	51.38	18.56	45.88	0.19
48	6"	E4626S-48	332	57.00	340	63.00	57.38	18.56	51.88	0.19
	7"	E4726S-48	367	57.00	375	63.00	57.38	18.56	51.88	0.19
54	6"	E4626S-54	351	63.00	359	69.00	63.38	18.56	57.88	0.19
	7"	E4726S-54	389	63.00	397	69.00	63.38	18.56	57.88	0.19
60	6"	E4626S-60	379	69.00	387	75.00	69.38	18.56	63.88	0.25
	7"	E4726S-60	420	69.00	428	75.00	69.38	18.56	63.88	0.25
72	6"	E4626S-72	531	81.00	542	87.00	81.38	19.69	75.88	0.25
	7"	E4726S-72	571	81.00	583	87.00	81.38	19.69	75.88	0.25

■ 10" bolt spacing recommended to permit adjustment.

\* 4.25" drop can be furnished if specified.

# Return Belt Training Idlers

rubber tread rolls, actuating shoe type, massed ends



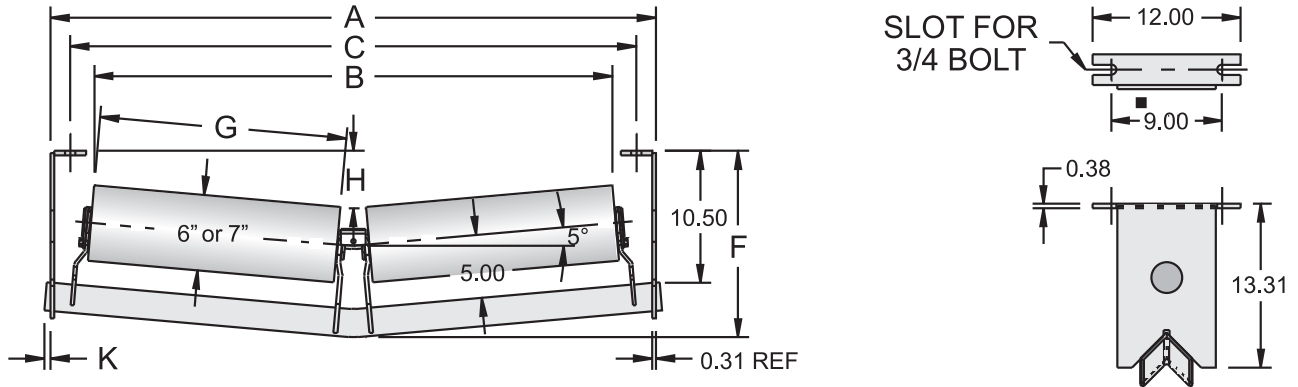
## CEMA E

Belt width, inches	Dia.	▽ Idler number	Standard Base (Belt width + 9")		Wide Base (Belt width + 15")		B	F	M	P	Number of treads
			Idler weight, pounds	C	Idler weight, pounds	C					
36	6"	E4627S-36	240	45.00	248	51.00	45.38	18.56	39.69	0.19	13
	7"	E4727S-36	251	45.00	259	51.00	45.38	18.56	39.69	0.19	13
42	6"	E4627S-42	295	51.00	303	57.00	51.38	18.56	45.69	0.19	14
	7"	E4727S-42	307	51.00	315	57.00	51.38	18.56	45.69	0.19	14
48	6"	E4627S-48	316	57.00	324	63.00	57.38	18.56	51.69	0.19	15
	7"	E4727S-48	328	57.00	336	63.00	57.38	18.56	51.69	0.19	15
54	6"	E4627S-54	331	63.00	339	69.00	63.38	18.56	57.69	0.19	16
	7"	E4727S-54	344	63.00	352	69.00	63.38	18.56	57.69	0.19	16
60	6"	E4627S-60	356	69.00	364	75.00	69.38	18.56	63.69	0.25	17
	7"	E4727S-60	370	69.00	378	75.00	69.38	18.56	63.69	0.25	17
72	6"	E4627S-72	501	81.00	512	87.00	81.38	19.69	75.69	0.25	19
	7"	E4727S-72	516	81.00	528	87.00	81.38	19.69	75.69	0.25	19

- 10" bolt spacing recommended to permit adjustment.
- \* 4.25" drop can be furnished if specified.
- ▽ 6" and 7" diameter urethane treads available.

# 5° V-Return Idlers

steel rolls, v-return



## CEMA E

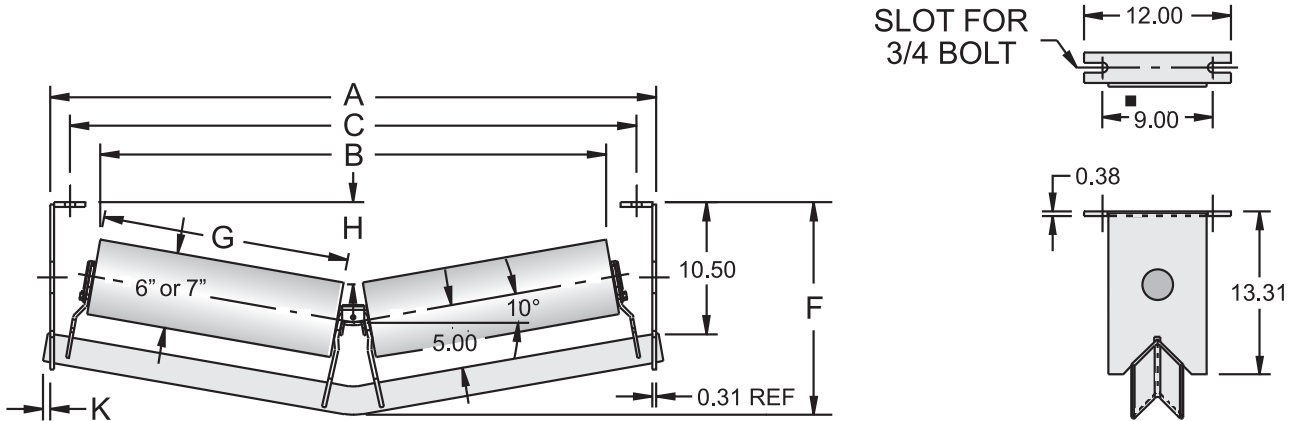
** Belt width, inches	Dia.	Idler number	Idler weight, pounds	A	B	C	F	G	H	K
				Inches						
36	6"	E4664S-36	134	48.12	41.19	45.00	15.19	19.62	4.56	.50
	7"	E4764S-36	161	48.12	41.06	45.00	15.19	19.62	4.06	.50
42	6"	E4664S-42	152	54.12	47.12	51.00	15.81	22.62	4.81	.56
	7"	E4764S-42	183	54.12	47.06	51.00	15.81	22.62	4.31	.56
48	6"	E4664S-48	166	60.12	53.00	57.00	16.06	25.56	5.12	.56
	7"	E4764S-48	200	60.12	52.88	57.00	16.06	25.56	4.62	.56
54	6"	E4664S-54	191	66.12	60.38	63.00	16.38	29.25	5.38	.56
	7"	E4764S-54	230	66.12	60.25	63.00	16.38	29.25	4.88	.56
60	6"	E4664S-60	203	72.12	64.94	69.00	16.62	31.56	5.62	.56
	7"	E4764S-60	245	72.12	64.88	69.00	16.62	31.56	5.12	.56
66	6"	E4664S-66	218	78.12	70.94	75.00	16.88	34.56	5.88	.56
	7"	E4764S-66	264	78.12	70.88	75.00	16.88	34.56	5.38	.56
72	6"	E4664S-72	236	84.12	76.94	81.00	17.81	37.56	6.12	.62
	7"	E4764S-72	286	84.12	76.81	81.00	17.81	37.56	5.62	.62
78	6"	E4664S-78	251	90.12	82.88	87.00	18.06	40.56	6.44	.62
	7"	E4764S-78	305	90.12	82.81	87.00	18.06	40.56	5.94	.62
84	6"	E4664S-84	267	96.12	89.50	93.00	18.31	43.88	6.69	.62
	7"	E4764S-84	325	96.12	89.44	93.00	18.31	43.88	6.19	.62
90	6"	E4664S-90	281	102.12	95.44	99.00	18.62	46.88	6.94	.62
	7"	E4764S-90	344	102.12	95.38	99.00	18.62	46.88	6.44	.62
96	6"	E4664S-96	296	108.12	101.44	105.00	18.88	49.88	7.19	.62
	7"	E4764S-96	362	108.12	101.38	105.00	18.88	49.88	6.69	.62
102	6"	E4664S-102	330	114.12	107.44	111.00	19.12	52.88	7.44	.62
	7"	E4764S-102	400	114.12	107.31	111.00	19.12	52.88	6.94	.62

■ 10" bolt spacing recommended to permit adjustment.

\*\* For belt width + 15" mounting use next higher belt width.

# 10° V-Return Idlers

steel rolls, v-return



## CEMA E

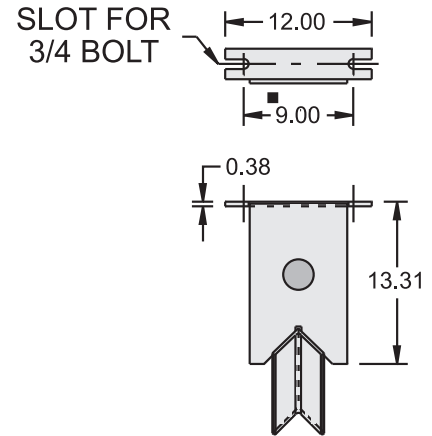
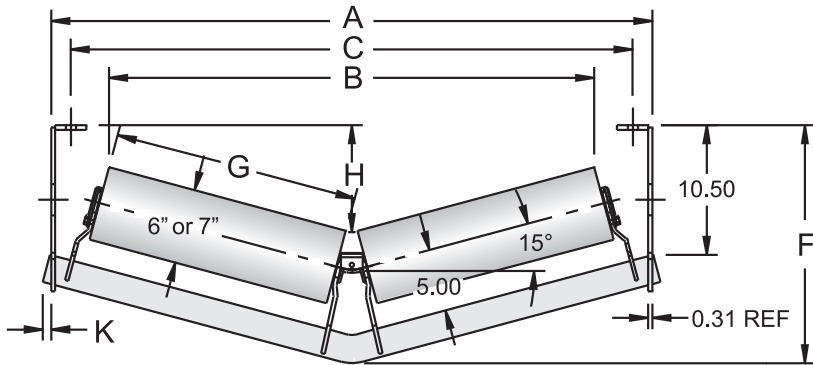
** Belt width, inches	Dia.	Idler number	Idler weight, pounds	A	B	C	F	G	H	K
				Inches						
36	6"	E4665S-36	135	48.12	40.25	45.00	17.31	19.62	6.62	.75
	7"	E4765S-36	162	48.12	40.06	45.00	17.31	19.62	6.12	.75
42	6"	E4665S-42	153	54.12	46.12	51.00	18.19	22.62	7.12	.81
	7"	E4765S-42	184	54.12	46.00	51.00	18.19	22.62	6.62	.81
48	6"	E4665S-48	166	60.12	51.94	57.00	18.69	25.56	7.69	.81
	7"	E4765S-48	201	60.12	51.75	57.00	18.69	25.56	7.19	.81
54	6"	E4665S-54	192	66.12	59.19	63.00	19.25	29.25	8.19	.81
	7"	E4765S-54	231	66.12	59.00	63.00	19.25	29.25	7.69	.81
60	6"	E4665S-60	204	72.12	63.75	69.00	19.75	31.56	8.75	.81
	7"	E4765S-60	246	72.12	63.56	69.00	19.75	31.56	8.25	.81
66	6"	E4665S-66	219	78.12	69.69	75.00	20.31	34.56	9.25	.81
	7"	E4765S-66	264	78.12	69.50	75.00	20.31	34.56	8.75	.81
72	6"	E4665S-72	237	84.12	75.56	81.00	21.50	37.56	9.81	.94
	7"	E4765S-72	287	84.12	75.44	81.00	21.50	37.56	9.31	.94
78	6"	E4665S-78	252	90.12	81.50	87.00	22.06	40.56	10.31	.94
	7"	E4765S-78	306	90.12	81.31	87.00	22.06	40.56	9.81	.94
84	6"	E4665S-84	268	96.12	88.00	93.00	22.56	43.88	10.88	.94
	7"	E4765S-84	326	96.12	87.88	93.00	22.56	43.88	10.31	.94
90	6"	E4665S-90	283	102.12	93.94	99.00	23.12	46.88	11.38	.94
	7"	E4765S-90	345	102.12	93.75	99.00	23.12	46.88	10.88	.94
96	6"	E4665S-96	298	108.12	99.88	105.00	23.62	49.88	11.88	.94
	7"	E4765S-96	364	108.12	99.69	105.00	23.62	49.88	11.38	.94
102	6"	E4665S-102	332	114.12	105.75	111.00	24.19	52.88	12.44	.94
	7"	E4765S-102	402	114.12	105.56	111.00	24.19	52.88	11.94	.94

■ 10" bolt spacing recommended to permit adjustment.

\*\* For belt width + 15" mounting use next higher belt width.

# 15° V-Return Idlers

steel rolls, v-return



## CEMA E

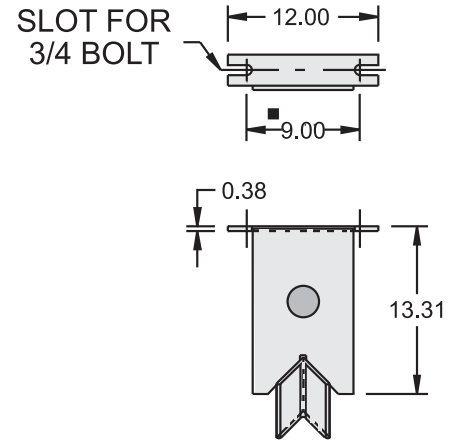
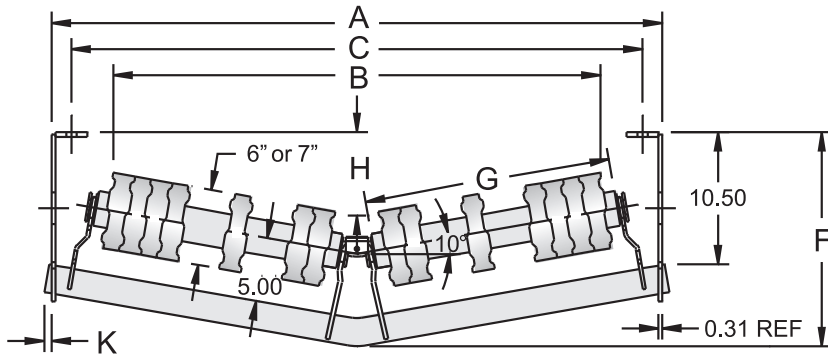
** Belt width, inches	Dia.	Idler number	Idler weight, pounds	A	B	C	F	G	H	K
				Inches						
36	6"	E4666S-36	135	48.12	39.00	45.00	19.50	19.62	8.62	.94
	7"	E4766S-36	162	48.12	38.75	45.00	19.50	19.62	8.12	.94
42	6"	E4666S-42	154	54.12	44.75	51.00	20.69	22.62	9.44	1.06
	7"	E4766S-42	185	54.12	44.50	51.00	20.69	22.62	8.94	1.06
48	6"	E4666S-48	167	60.12	50.44	57.00	21.50	25.56	10.25	1.06
	7"	E4766S-48	202	60.12	50.19	57.00	21.50	25.56	9.75	1.06
54	6"	E4666S-54	193	66.12	57.56	63.00	22.31	29.25	11.06	1.06
	7"	E4766S-54	232	66.12	57.31	63.00	22.31	29.25	10.56	1.06
60	6"	E4666S-60	205	72.12	62.06	69.00	23.12	31.56	11.88	1.06
	7"	E4766S-60	248	72.12	61.81	69.00	23.12	31.56	11.38	1.06
66	6"	E4666S-66	220	78.12	67.88	75.00	23.88	34.56	12.69	1.06
	7"	E4766S-66	266	78.12	67.56	75.00	23.88	34.56	12.19	1.06
72	6"	E4666S-72	239	84.12	73.69	81.00	25.38	37.56	13.50	1.25
	7"	E4766S-72	289	84.12	73.38	81.00	25.38	37.56	13.00	1.25
78	6"	E4666S-78	254	90.12	79.44	87.00	26.19	40.56	14.31	1.25
	7"	E4766S-78	308	90.12	79.19	87.00	26.19	40.56	13.75	1.25
84	6"	E4666S-84	270	96.12	85.81	93.00	27.00	43.88	15.12	1.25
	7"	E4766S-84	328	96.12	85.56	93.00	27.00	43.88	14.56	1.25
90	6"	E4666S-90	285	102.12	91.62	99.00	27.81	46.88	15.88	1.25
	7"	E4766S-90	347	102.12	91.38	99.00	27.81	46.88	15.38	1.25
96	6"	E4666S-96	300	108.12	97.44	105.00	28.62	49.88	16.69	1.25
	7"	E4766S-96	366	108.12	97.19	105.00	28.62	49.88	16.19	1.25
102	6"	E4666S-102	335	114.12	103.25	111.00	29.44	52.88	17.50	1.25
	7"	E4766S-102	405	114.12	103.00	111.00	29.44	52.88	17.00	1.25

■ 10" bolt spacing recommended to permit adjustment.

\*\* For belt width + 15" mounting use next higher belt width.

# 10° V-Return Idlers

rubber tread rolls, v-return, massed ends



## CEMA E

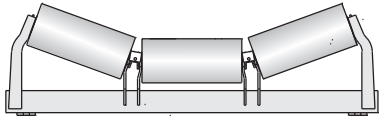
** Belt width, inches	Dia.	Idler number	Idler weight, pounds	A	B	C	F	G	H	K
				Inches						
36	6"	E4668S-36	124	48.12	38.38	45.00	17.31	19.44	6.62	.75
	7"	E4768S-36	136	48.12	38.19	45.00	17.31	19.44	6.12	.75
42	6"	E4668S-42	144	54.12	44.25	51.00	18.19	22.44	7.12	.81
	7"	E4768S-42	159	54.12	44.06	51.00	18.19	22.44	6.62	.81
48	6"	E4668S-48	154	60.12	50.06	57.00	18.69	25.38	7.69	.81
	7"	E4768S-48	169	60.12	49.88	57.00	18.69	25.38	7.19	.81
54	6"	E4668S-54	180	66.12	57.38	63.00	19.25	29.06	8.19	.81
	7"	E4768S-54	198	66.12	57.19	63.00	19.25	29.06	7.69	.81
60	6"	E4668S-60	189	72.12	61.94	69.00	19.75	31.38	8.75	.81
	7"	E4768S-60	207	72.12	61.75	69.00	19.75	31.38	8.25	.81
66	6"	E4668S-66	199	78.12	67.81	75.00	20.31	34.38	9.25	.81
	7"	E4768S-66	217	78.12	67.69	75.00	20.31	34.38	8.75	.81
72	6"	E4668S-72	219	84.12	73.75	81.00	21.50	37.38	9.81	.94
	7"	E4768S-72	241	84.12	73.56	81.00	21.50	37.38	9.31	.94
78	6"	E4668S-78	230	90.12	79.62	87.00	22.06	40.38	10.31	.94
	7"	E4768S-78	251	90.12	79.50	87.00	22.06	40.38	9.81	.94
84	6"	E4668S-84	241	96.12	86.19	93.00	22.56	43.69	10.88	.94
	7"	E4768S-84	263	96.12	86.00	93.00	22.56	43.69	10.31	.94
90	6"	E4668S-90	258	102.12	92.06	99.00	23.12	46.69	11.38	.94
	7"	E4768S-90	283	102.12	91.88	99.00	23.12	46.69	10.88	.94
96	6"	E4668S-96	268	108.12	98.00	105.00	23.62	49.69	11.88	.94
	7"	E4768S-96	293	108.12	97.81	105.00	23.62	49.69	11.38	.94
102	6"	E4668S-102	299	114.12	103.88	111.00	24.19	52.69	12.44	.94
	7"	E4768S-102	323	114.12	103.69	111.00	24.19	52.69	11.94	.94

■ 10" bolt spacing recommended to permit adjustment.

\*\* For belt width + 15" mounting use next higher belt width.

# Ordering Replacement Rolls

Below are the part numbers to reference when ordering sealed replacement rolls for CEMA Series E. Frame is not included.



The following part numbers fit

**6" diameter steel troughing rolls for E4601S, E4602S, E4607S, E4608S, E4609S, E4611S, E4628S, E4632S and E4637S idlers**

**7" diameter steel troughing rolls for E4701S, E4702S, E4707S, E4708S, E4709S, E4711S, E4728S, E4732S and E4737S idlers**

## E4600 Replacement Rolls

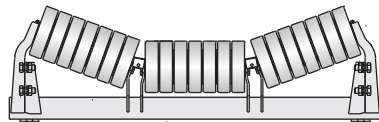
**6" diameter**

Belt Width	Part Number
36	1730-455-A.S
42	1730-455-B.S
48	1730-455-C.S
54	1730-455-D.S
60	1730-455-E.S
72	1730-455-F.S
84	1730-455-G.S
96	1730-455-H.S

## E4700 Replacement Rolls

**7" diameter**

Belt Width	Part Number
36	1730-407-A.S
42	1730-407-B.S
48	1730-407-C.S
54	1730-407-D.S
60	1730-407-E.S
72	1730-407-F.S
84	1730-407-G.S
96	1730-407-H.S



The following part numbers fit

**6" diameter rubber cushion troughing rolls for E4604S, E4623S and E4630S idlers**

**7" diameter rubber cushion troughing rolls for E4704S, E4723S and E4730S idlers**

## E4600 Replacement Rolls

**6" diameter**

Belt Width	Part Number
36	1730-933-A.S
42	1730-933-B.S
48	1730-933-C.S
54	1730-933-D.S
60	1730-933-E.S
72	1730-933-F.S
84	1730-933-G.S
96	1730-933-H.S

## E4700 Replacement Rolls

**7" diameter**

Belt Width	Part Number
36	1730-312-A.S
42	1730-312-B.S
48	1730-312-C.S
54	1730-312-D.S
60	1730-312-E.S
72	1730-312-F.S
84	1730-312-G.S
96	1730-312-H.S



# Ordering Replacement Rolls

Below are the part numbers to reference when ordering sealed replacement rolls for CEMA Series E. Frame is not included.



The following part numbers fit

**6” diameter steel return rolls for E4617S and E4620S idlers**

**7” diameter steel return rolls for E4717S and E4720S idlers**

## E4600 Replacement Rolls

### 6” diameter

Belt Width	Part Number
36	1730-456-A.S
42	1730-456-B.S
48	1730-456-C.S
54	1730-456-D.S
60	1730-456-E.S
72	1730-456-F.S
-	-
-	-

## E4700 Replacement Rolls

### 7” diameter

Belt Width	Part Number
36	1730-423-A.S
42	1730-423-B.S
48	1730-423-C.S
54	1730-423-D.S
60	1730-423-E.S
72	1730-423-F.S
84	1730-423-G.S
96	1730-423-H.S



The following part numbers fit

**6” diameter rubber cushion rolls for E4615S idlers**

**7” diameter rubber cushion rolls for E4715S idlers**

## E4600 Replacement Rolls

### 6” diameter

Belt Width	Part Number
36	1730-934-A.S
42	1730-934-B.S
48	1730-934-C.S
54	1730-934-D.S
60	1730-934-E.S
72	1730-934-F.S
84	1730-934-G.S
96	1730-934-H.S

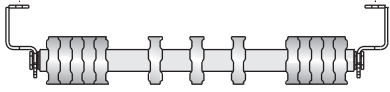
## E4700 Replacement Rolls

### 7” diameter

Belt Width	Part Number
36	1730-324-A.S
42	1730-324-B.S
48	1730-324-C.S
54	1730-324-D.S
60	1730-324-E.S
72	1730-324-F.S
84	1730-324-L.S
96	1730-324-M.S

# Ordering Replacement Rolls

Below are the part numbers to reference when ordering sealed replacement rolls for CEMA Series E. Frame is not included.



The following part numbers fit

**6" diameter rubber tread return rolls for E4618S idlers**

**7" diameter rubber tread return rolls for E4718S idlers**

## E4600 Replacement Rolls

**6" diameter**

Belt Width	Part Number
36	1730-314-A.S
42	1730-314-B.S
48	1730-314-C.S
54	1730-314-D.S
60	1730-314-E.S
72	1730-314-F.S
84	1730-314-G.S
96	1730-314-H.S

## E4700 Replacement Rolls

**7" diameter**

Belt Width	Part Number
36	1730-491-A.S
42	1730-491-B.S
48	1730-491-C.S
54	1730-491-D.S
60	1730-491-E.S
72	1730-491-F.S
84	1730-491-G.S
96	1730-491-H.S

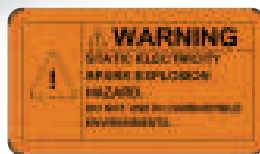


# Introducing Composite Idler Rolls

- Combats roll degradation typically found in corrosive and abrasive environments
- Longer lasting rolls reduces conveyor downtime
- Lighter weight rolls – “Field Friendly” for maintenance and installation personnel
- Prolongs belt life by reducing material build-up



Dimensional specifications match our CEMA C, D and E series steel products.



## Composite Idler Roll Advantages

- Excellent Strength
- Lighter Weight
- Superior Toughness
- High Corrosion Resistance
- High Abrasion Resistance
- Reduced Material Build-Up
- Low Coefficient of Thermal Expansion
- Environmentally Friendly



*Ideal for replacement of steel rolls in corrosive environments.*

# Composite Rolls

## Technical Data

---

### What are composite idler rolls?

- Syntron Material Handling introduces a revolutionary new idler roll made with state-of-the-art glass reinforced polyurethane.
- This tubing is a composite material consisting of layers of high quality glass fabric saturated with a two part thermoset polyurethane resin.
- Syntron Material Handling offers a 5" and a 6" diameter x 1/4" wall tubing size suitable for CEMA C, D and E roll applications (Syntron Material Handling C/D3500, C/D3600 & E4600 Series).
- Roll lengths are available for troughing, return, picking and V-return idlers with belt widths ranging from 18" to 72".
- Polyurethane pultruded composite tubing offers excellent mechanical properties similar to steel and superior to many traditional plastic resin roll products. The recommended operating temperature range is -40°F to +200°F.
- Syntron Material Handling composite rolls are extremely versatile and are suitable for many material handling applications\*
- Standard color: Traditional "Syntron Material Handling Orange"

\*Currently not suitable in combustible environments, where possible static charge can cause an explosion hazard.

### Features/Benefits

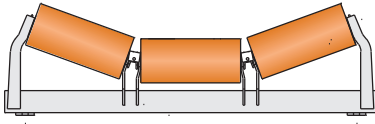
- **Excellent Strength**  
Comparable tensile and flexural strength (lengthwise) to steel and aluminum. High strength-to-weight ratio.
- **Lighter Weight**  
Material versus material: 75% lighter than steel and 30% lighter than aluminum. Approximately 50% lighter than traditional steel rolls. Easier installation, "Field Friendly" for maintenance and installation personnel, energy savings, and reduced noise.
- **Superior Toughness**  
This glass fabric distributes loads to prevent surface damage. No permanent deformities. High impact strength. Crack resistant.
- **High Corrosion Resistance**  
Superior resistance to a broad range of chemicals. Excellent in acid, alkali and salt spray environments. Low water absorption. Protective Polyurethane topcoat is suggested if exposed to UV rays during a long term storage.
- **High Abrasion Resistance**  
Superior wear resistance to traditional thermoplastic resin rolls, resulting in longer shell life, longer belt life, and less maintenance.
- **Reduced Material Build-Up**  
Polyurethane resin resists material build-up on the surface of the roll, thereby prolonging belt life.
- **Low Thermal Coefficient of Expansion**  
Low coefficient of thermal expansion, comparable to steel, reducing differential expansion between shell, shaft, and the pressed head.
- **Environmentally Friendly**  
Self extinguishing when exposed to flame in a horizontal position. Low carbon footprint compared to thermoplastic rolls. VOC Free.

### *Is corrosion eating away your profits?*



# Composite Rolls

Below are the part numbers to reference when ordering replacement rolls for CEMA Series E. Frame is not included.



The following part numbers fit

**6” diameter composite troughing rolls for E4601C, E4602C, E4606C, E4607C, E4608C, E4609C, E4611C, E4628C, E4632C and E4637C idlers**

## E4600 Replacement Rolls

**6” diameter**

Belt Width	Part Number
36	5269-344-E
42	5269-344-F
48	5269-344-G
54	5269-344-H
60	5269-344-J
72	5269-344-L
84	5269-344-N
96	5269-344-R



The following part numbers fit

**6” diameter composite return rolls for E4613C, E4617C, E4620C and 4626C idlers**

## E4600 Replacement Rolls

**6” diameter**

Belt Width	Part Number
36	5269-344-AE
42	5269-344-AF
48	5269-344-AG
54	5269-344-AH
60	5269-344-AJ
66	5269-344-AK
72	5269-344-AL
78	5269-344-AM

# Link-Belt® ES Series™ Idler Rolls

Introducing the ES Series Idler Rolls from Syntron Material Handling, specifically designed for extreme service in the harsh environment of oil sands extraction. Link-Belt ES Series Idlers feature a patented seal design that offers unique and superior benefits to competitor rolls.

## Roll Features

- **Higher Load Ratings with Proven Seal Geometry**

Inefficient use of available space with the bearing housing can lead to load rating deficiencies. The deeper inside the roll the bearing is located, the larger the moment arm, which in turn, results in increased shaft deflection for a given load. Syntron Material Handling's patented seal design utilizes dual function components that make more efficient use of the available space inside the bearing housings.

**This translates into higher load ratings with proven seal geometry.**

- **Longer Roll Life**

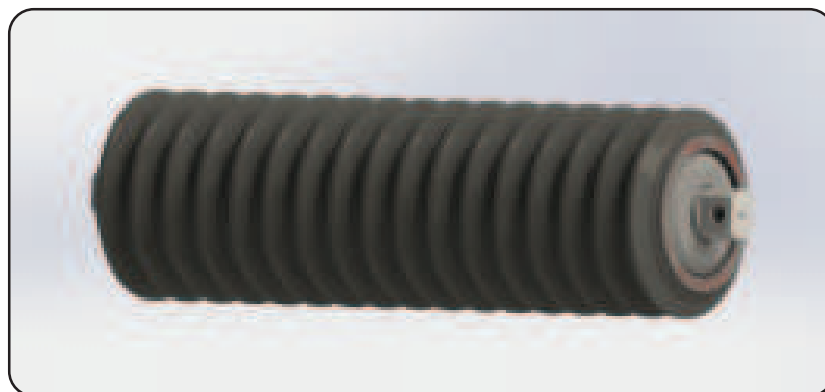
Every aspect of the design and manufacturing contributes to the superiority of Syntron Material Handling ES Series Idler Rolls. Using high-quality materials and state-of-the-art manufacturing methods, each roll is built with minimal endplay. Syntron Material Handling's advanced, pressed head design yields superior circular run out values by eliminating warping caused by welding. The precision-machined rugged cast bearing housings are designed to provide maximum rigidity to reduce bearing misalignment.

**These features result in longer roll life.**

- **Flexible, Cost-Effective Rebuild Options**

Industry standard roll design features a thin head that is welded directly to the end of the expensive, rubber coated shell. During a seal or bearing failure, this thin, welded head is often damaged and consequently, the entire roll must be replaced. Syntron Material Handling's roll features a pressed head that can be removed from the shell to permit replacement of all components while reusing the same shell, maximizing the life of the rebuilt roll at greatly reduced costs.

**Syntron Material Handling pressed heads can be used to rebuild competitor rolls.**



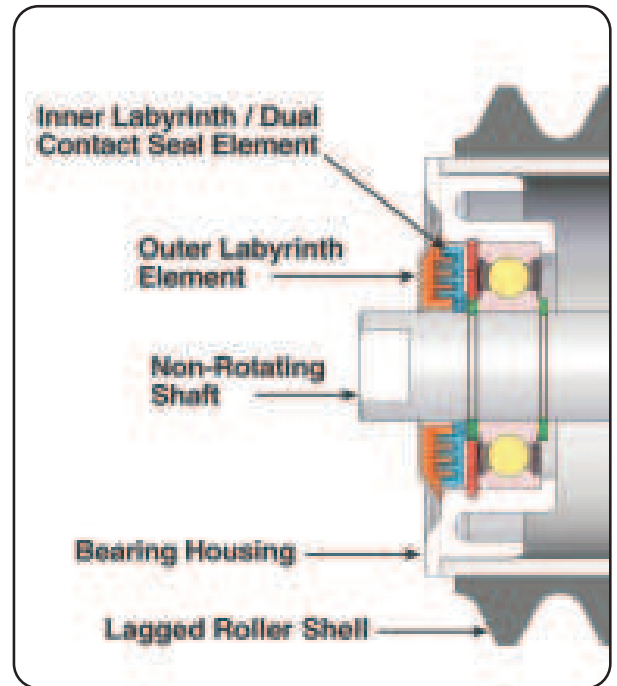
## Revolutionary Seal Design

In developing the new ES Series idler rolls, Syntron Material Handling's research and development team considered all aspects of seal technology, optimizing each component for maximum benefit. Their patented seal design maximizes sealing effectiveness and minimizes shaft deflection.

Syntron Material Handling's new seal utilizes both contact seal (to exclude liquids) and labyrinth seal (to exclude solid contaminants) technologies. In contrast to typical competitor designs, Syntron Material Handling takes full advantage of the strengths of both types of seals, resulting in a revolutionary new arrangement.

The outer labyrinth seal element has a galvanized steel shield which protects the internal seal components from damage. This shield is constructed to withstand harsh environmental abrasions and abuse and includes a low-friction, outer face contact weather seal to prevent water washout of grease filled labyrinths.

The inner labyrinth/dual lip contact seal element is located deeper inside the roller which protects it from the outside environment. It rides directly against the shaft near the inner diameter of the bearing. This ensures full and constant contact, longer wear life, less drag and maximum sealing.



## Bearing Location and Improved Load Rating

The load rating of an idler roll is largely dependent on the load rating of the bearings used in the rolls. The location of the bearings with respect to the shaft supports also affects the load rating and the expected life of the roll. As illustrated in Figure 2, shaft deflection is a result of bearing location. Under high loads, the shaft behaves as a flexible member. Shaft deflection causes unwanted friction inside the bearings and reduces bearing life. In Syntron Material Handling's new design, the bearings are placed closer to the support, reducing the length of the shaft extension from the bearing to the support by approximately 30 percent, thereby increasing the load rating. Efficient bearing placement also minimizes shaft deflection due to load, and thus increases bearing life.

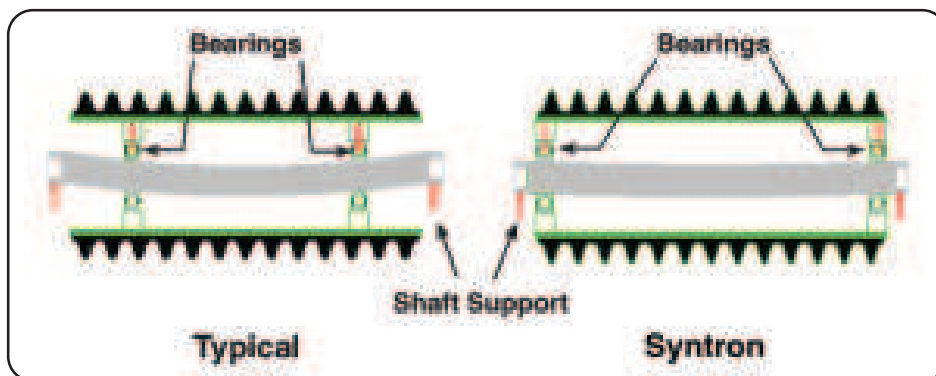
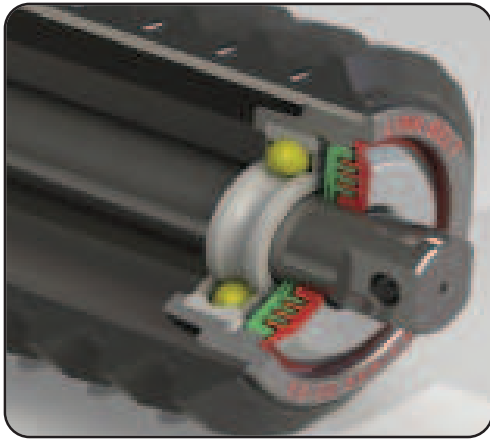


Figure 2: Shaft Deflection as a Result of Bearing Placement

## Press-Fit Technology

Syntron Material Handling engineers developed press-fit technology, an interference-fit bearing housing (head) that presses into the shell, eliminating welding and the shell distortion caused by heat generated during welding. The internal areas are precision machined for accurate bearing/shaft alignment to provide desired interference values between the bearing housing and the shell.



Precision-machined ductile-iron bearing housings provide highly controlled bearing bore dimensions, excellent circular runout and excellent alignment through the roll from end to end. In addition, the high concentricity of the machined bearing housing is transferred to the shell and actually improves the roundness of the shell.

Press fit technology has been tried and proven in some of the most demanding applications and harshest environments in the industry, including rock quarries, construction and underground mining. Press-fit technology has been incorporated into the design of the Link-Belt ES Series rolls.

With press-fit technology, rebuilding ES Series rolls becomes easy and economical. The bearing housing can be pressed out and inspected for damage to components. Individual components can be easily replaced, or the entire bearing housing can be replaced. Either way, the shell can be reused. And Syntron Material Handling pressed heads can be used in competitor rolls.

## It all adds up...

The most advanced and innovative technologies have gone into the development of Link-Belt ES Series Idler Rolls. Each individual component represents an advance in available technology:

- Patented seal design for higher load ratings and maximum sealing effectiveness
- Pressed head technology for superior and flexible rebuild options
- Efficient bearing placement for minimized shaft deflection and longer bearing life

Together, these features add up to outstanding performance, quality and value. Link-Belt ES Series Idler Rolls from Syntron Material Handling – specifically designed and engineered for extreme service in the harsh environment of oil sands extraction.

ES Series Idler Rolls are available in a range of standard models and sizes (refer to the chart). Other models and sizes are available by request and may be custom engineered to meet application requirements.

Models	72" Trough	72" Impact	72" Return	84" Trough	84" Impact	84" Return
40 mm Bearings	•	•	•	•	•	•
50 mm Bearings	•	•	•	•	•	•
60 mm Bearings	•	•	•	•	•	•



# Link-Belt® EZ-Trip™ Idler Frames

- Heavy-duty, tubular construction
- Reduced weight assembly for ease of installation and reduced costs
- Polymeric powder coated frame affords superior corrosion protection
- Sealed-for-life design protects against mechanical seizure in cold, harsh environments

The Link-Belt EZ-Trip Idler is specifically built for the field-proven Link-Belt ES Series Idler Rolls.

## Frame Features

- **Simple Assembly for Ease of Operation**

The unique Link-Belt EZ-Trip Idler is easy to install and operate – simply pull the pin and strike the end rod with a hammer.

- **Heavy-Duty, Tubular Construction**

Fabricated with heavy-duty tough steel, the frame members are welded to AWS D1.1 specifications to ensure superior strength and dimensional accuracy. Featuring a two-piece construction, the independent base frame maintains overall alignment of the assembly. In addition, there is minimal “play” in the frame when in a locked state. The rugged frame’s tubular construction also minimizes the potential for material buildup.



## Frame Features (cont.)

- **Corrosion Resistance**

The E-Z Trip Idler features stainless steel pull pins with stainless lanyard tabs and corrosion resistant “strike” ends for excellent corrosion protection. Plus, a superior polymeric protective powder coating is applied to stand up to harsh environments.

- **“Sealed-for-Life” Design to Prevent Seizing Up**

The E-Z Trip Idler features a factory lubricated design to eliminate any need for re-lubrication, thus lowering total maintenance costs. Each “sealed-for-life” end is filled with low temperature grease. Nitrile rubber seals are employed to protect the frame pivots on each end and a Nitrile rubber oil-seal protects around the outside of the “strike rods.” Fiberglass reinforced nylon bushings provide low friction movement for both the frame pivot and the strike rod sliding contact.

You just can't find better performance than the Link-Belt EZ-Trip Idler.

For more information contact our Applications Specialist at 1-800-356-4899.



**Upright**



**Tripped**

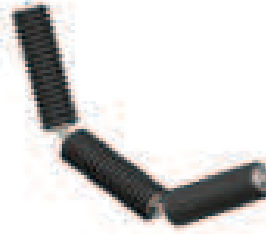
# ES-Series™ Product Line



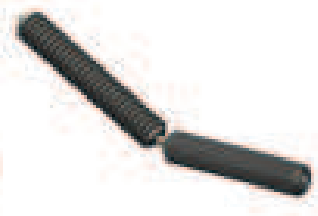
5-Roll Impact Catenary  
(rubber lagged)



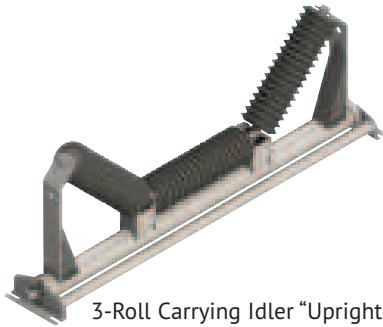
5-Roll Dissipator Catenary  
(urethane lagged)



3-Roll Carrying Catenary



2-Roll V-Return Catenary



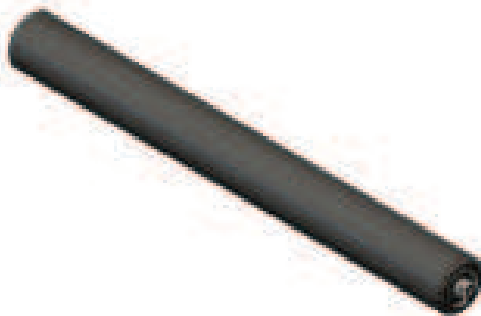
3-Roll Carrying Idler "Upright"



Flat Return Idler



2-Roll V-Return Idler



Pressure Roller



Slide Guide Roller

# CEMA Series F5000 Idlers

## Bearings

- Precision tapered roller bearings; LM25500 with 1-3/4" bore
- Bearings/shaft are designed to accommodate bearing misalignment under fully rated loads
- L10 bearing life > 60,000 hrs @ 500 rpm, exceeds load ratings of 6310 ball bearing products

## Frames

- Inverted angle frame base with slotted foot straps to ensure quick, easy mounting and alignment
- Heavy-duty, die-formed, steel end brackets are contoured for generous clearance to safeguard against spilled materials becoming jammed and impeding the rotation of the rollers
- All idler frames are welded in accordance with AWS D1.1 specifications for structural welds

## Seal

- Rubber triple lip contact seal paired with a zinc plated, machined steel deflector nut with integrated labyrinth seal for robust, redundant sealing capability
- Seal works well in dusty conditions and wash down environments

## Coatings

- Frames and rolls are powder-coated (see page 155 for details)
- Assembly hardware is electro-zinc plated

## CEMA

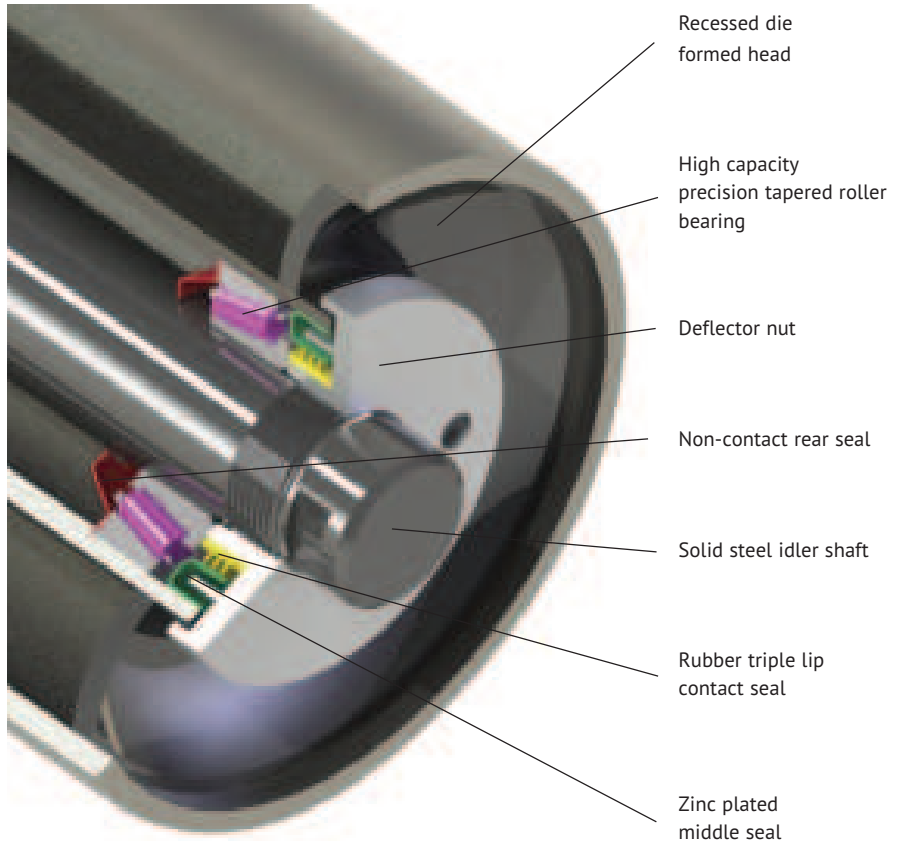
- Idlers meet or exceed CEMA requirements for rugged, continuous material handling
- Multiple belt widths and models available to meet your needs

## Roll Thickness

- 7" diameter = 0.250"
- 8" diameter = 0.250"
- 6" diameter rolls are available

## Testing Capabilities

- Load rating
- Seals
- Roll concentricity
- Roll resistance
- Roll imbalance
- Water resistance



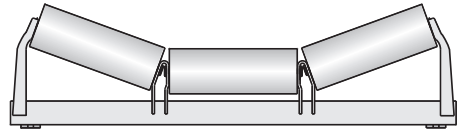
One of the following letter suffixes may sometimes be necessary to complete an idler description:

- P - Polyethylene rolls
- R - Rubber lagged impact or rubber tread rolls
- RC - Rubber lagged impact center roll
- W - Scale idler
- U - Urethane coated or lagged rolls
- GAL - Galvanized frame

# Idlers of Every Type to Meet Your Specific Needs

Series F5000	CEMA F	
	belt width, inches	roll dia., inches
<b>Troughed Belt Idlers</b>		
steel rolls 20°-35°-45°	48-120	7-8
<b>Return Idlers</b>		
steel rolls	48-120	7-8

## Carrying Idler Types



**Troughed belt idlers** for general carrying service are available with trough angles of 20°, 35°, and 45°.

**models:** F5701, F5801, F5702, F5802, F5728, F5828

## CEMA Classification

Series No.	Roll Dia., in.	Basic Idler Nomenclature	CEMA Class	
			Old	New
F5000	7	F5700	none	F7
F5000	8	F5800	none	F8

## Return Idler Types



**Return belt idlers** carry the empty belt on the return run.

**models:** F5717, F5817

F5000 IDLER LOAD RATINGS				
Belt Width (in.)	Trough		Return	
	CEMA (lbs)	F5000 (lbs)	CEMA (lbs)	F5000 (lbs)
48	-	3800	-	2400
54	-	3800	-	2300
60	3000	3800	1500	2200
72	3000	3800	1200	2000
84	3000	3800	900	2100
96	2800	3800	600	1900
108	-	3800	-	1700
120	-	3800	-	1600



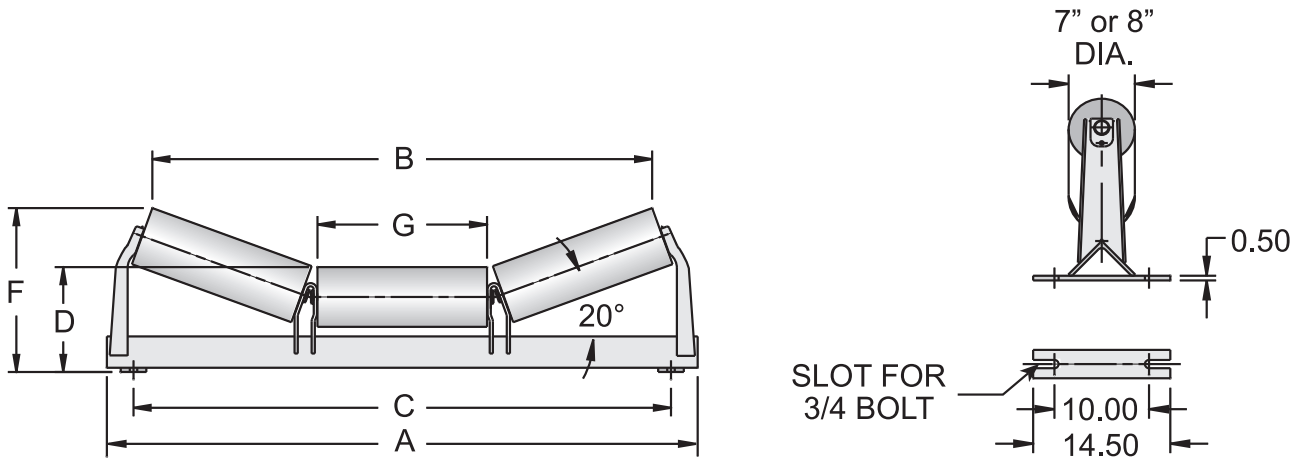
**CAUTION:** Link-Belt Conveyor idlers must be installed, operated and maintained in accordance with accompanying Syntron Material Handling Service Instructions. Failure to follow these instructions can result in serious personal injury, property damage or both.

Syntron Material Handling Service Instructions are available for download at [www.syntronmh.com](http://www.syntronmh.com).

For 10,000 series idlers consult our factory.

# 20° Troughed Belt Idlers, Equal Length Rolls

steel rolls

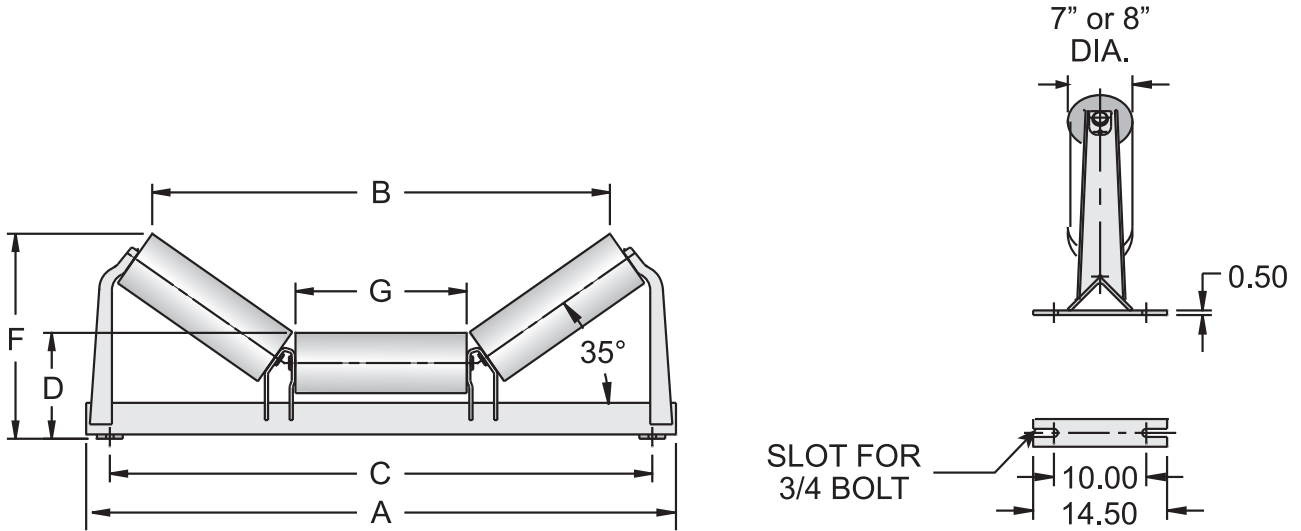


## CEMA F

Belt width, inches	Dia.	Idler number	Idler weight, pounds	A	B	C	D	F	G
				Inches					
48	7"	F5701-48	279	63.00	52.44	57.00	12.31	18.50	17.75
	8"	F5801-48	293	63.00	51.81	57.00	12.81	18.88	17.44
54	7"	F5701-54	306	69.25	58.56	63.00	12.31	19.19	19.88
	8"	F5801-54	321	69.25	57.94	63.00	12.81	19.62	19.56
60	7"	F5701-60	332	76.00	64.69	69.00	12.31	19.94	22.00
	8"	F5801-60	349	76.00	64.06	69.00	12.81	20.38	21.69
66	7"	F5701-66	384	82.00	70.81	75.00	12.31	20.69	24.12
	8"	F5801-66	403	82.00	70.19	75.00	12.81	21.12	23.81
72	7"	F5701-72	412	88.00	76.94	81.00	12.31	21.44	26.25
	8"	F5801-72	432	88.00	76.31	81.00	12.81	21.88	25.94
78	7"	F5701-78	440	94.00	83.06	87.00	12.31	22.19	28.38
	8"	F5801-78	461	94.00	82.44	87.00	12.81	22.56	28.06
84	7"	F5701-84	457	100.00	89.19	93.00	13.00	23.56	30.50
	8"	F5801-84	479	100.00	88.56	93.00	13.50	23.94	30.19
96	7"	F5701-96	512	112.50	101.44	105.00	13.00	25.00	34.75
	8"	F5801-96	537	112.50	100.81	105.00	13.50	25.44	34.44
108	7"	F5701-108	616	125.00	113.69	117.00	13.06	26.50	39.00
	8"	F5801-108	644	125.00	113.00	117.00	13.56	26.94	38.69
120	7"	F5701-120	676	137.50	125.88	129.00	13.06	27.94	43.25
	8"	F5801-120	707	137.50	125.25	129.00	13.56	28.38	42.94

# 35° Troughed Belt Idlers, Equal Length Rolls

steel rolls

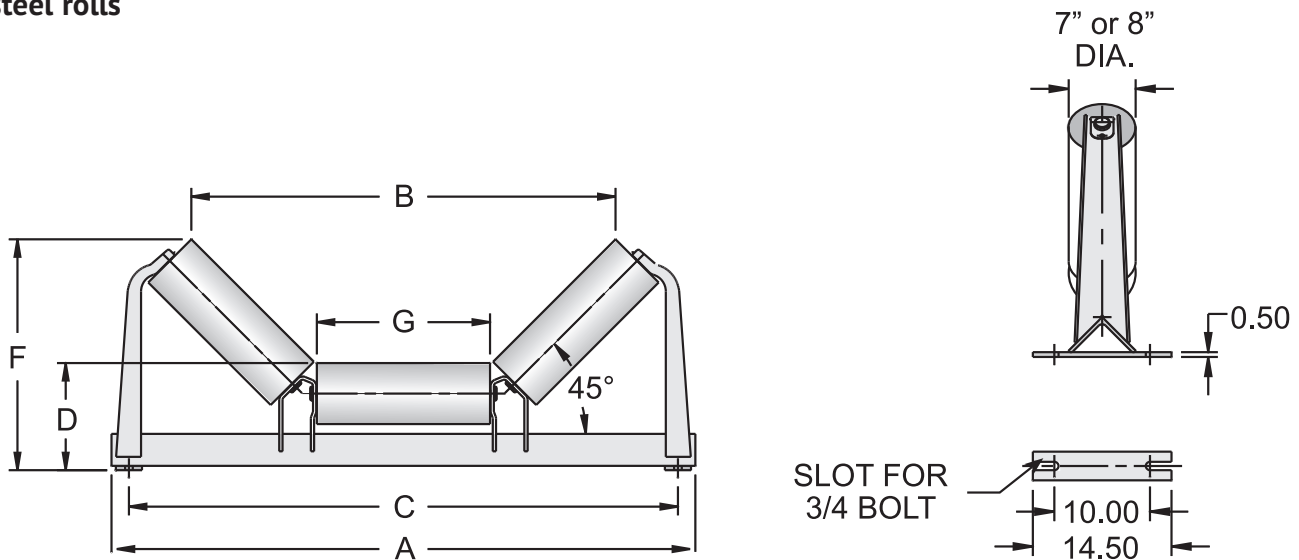


## CEMA F

Belt width, inches	Dia.	Idler number	Idler weight, pounds	A	B	C	D	F	G
				Inches					
48	7"	F5728-48	287	63.00	47.56	57.00	12.31	22.62	17.75
	8"	F5828-48	301	63.00	46.69	57.00	12.81	22.94	17.44
54	7"	F5728-54	313	68.50	53.12	63.00	12.31	23.81	19.88
	8"	F5828-54	328	68.50	52.31	63.00	12.81	24.12	19.56
60	7"	F5728-60	339	74.25	58.75	69.00	12.31	25.00	22.00
	8"	F5828-60	356	74.25	57.94	69.00	12.81	25.38	21.69
66	7"	F5728-66	392	80.25	64.38	75.00	12.31	26.31	24.12
	8"	F5828-66	410	80.25	63.56	75.00	12.81	26.62	23.81
72	7"	F5728-72	420	86.00	70.00	81.00	12.31	27.50	26.25
	8"	F5828-72	440	86.00	69.12	81.00	12.81	27.81	25.94
78	7"	F5728-78	449	92.00	75.56	87.00	12.31	28.75	28.38
	8"	F5828-78	470	92.00	74.75	87.00	12.81	29.06	28.06
84	7"	F5728-84	466	97.50	81.19	93.00	13.00	30.62	30.50
	8"	F5828-84	489	97.50	80.38	93.00	13.50	30.94	30.19
96	7"	F5728-96	523	109.50	92.38	105.00	13.00	33.06	34.75
	8"	F5828-96	548	109.50	91.56	105.00	13.50	33.38	34.44
108	7"	F5728-108	626	121.00	103.62	117.00	13.06	35.56	39.00
	8"	F5828-108	654	121.00	102.81	117.00	13.56	35.88	38.69
120	7"	F5728-120	686	132.00	114.81	129.00	13.06	37.94	43.25
	8"	F5828-120	717	132.00	114.00	129.00	13.56	38.31	42.94

# 45° Troughed Belt Idlers, Equal Length Rolls

steel rolls



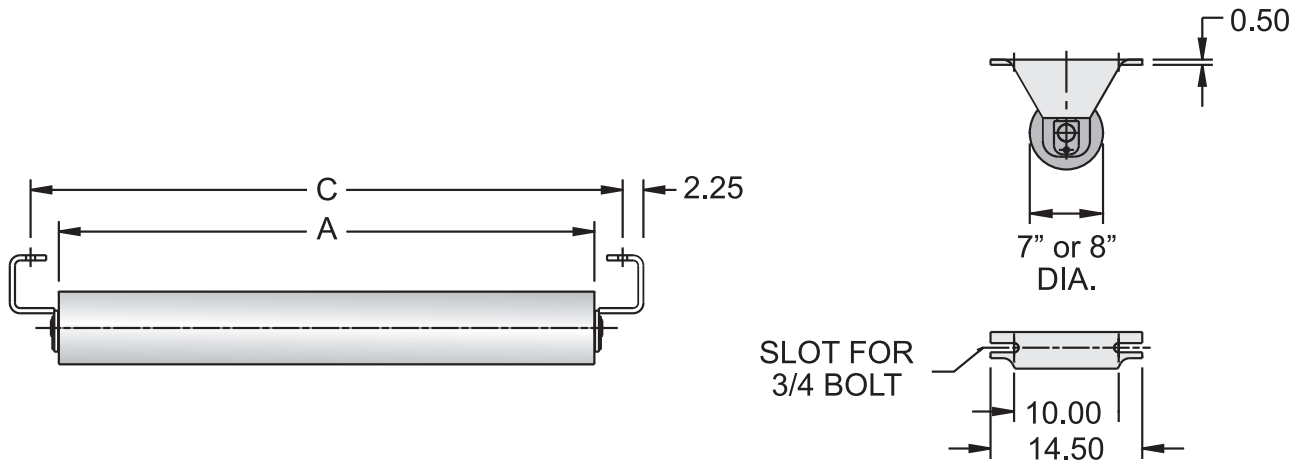
## CEMA F

Belt width, inches	Dia.	Idler number	Idler weight, pounds	A	B	C	D	F	G
				Inches					
48	7"	F5702-48	290	61.00	43.56	57.00	12.31	25.00	17.75
	8"	F5802-48	304	61.00	42.62	57.00	12.81	25.25	17.44
54	7"	F5702-54	317	67.00	48.69	63.00	12.31	26.50	19.88
	8"	F5802-54	333	67.00	47.75	63.00	12.81	26.75	19.56
60	7"	F5702-60	344	72.00	53.81	69.00	12.31	28.00	22.00
	8"	F5802-60	360	72.00	52.88	69.00	12.81	28.25	21.69
66	7"	F5702-66	396	78.00	58.94	75.00	12.31	29.56	24.12
	8"	F5802-66	414	78.00	58.00	75.00	12.81	29.81	23.81
72	7"	F5702-72	426	84.00	64.06	81.00	12.31	31.06	26.25
	8"	F5802-72	445	84.00	63.12	81.00	12.81	31.31	25.94
78	7"	F5702-78	455	90.00	69.19	87.00	12.31	32.56	28.38
	8"	F5802-78	476	90.00	68.25	87.00	12.81	32.81	28.06
84	7"	F5702-84	474	96.00	74.31	93.00	13.00	34.69	30.50
	8"	F5802-84	496	96.00	73.38	93.00	13.50	34.94	30.19
96	7"	F5702-96	532	108.00	84.62	105.00	13.00	37.69	34.75
	8"	F5802-96	557	108.00	83.69	105.00	13.50	37.94	34.44
108	7"	F5702-108	637	120.00	94.88	117.00	13.06	40.75	39.00
	8"	F5802-108	665	120.00	93.94	117.00	13.56	41.00	38.69
120	7"	F5702-120	700	132.00	105.12	129.00	13.06	43.75	43.25
	8"	F5802-120	731	132.00	104.19	129.00	13.56	44.00	42.94



# Return Belt Idlers

steel rolls



## CEMA F

Belt width, inches	Dia.	Idler number	Idler weight, pounds	Inches	
				A	C
48	7"	F5717-48	189	51.56	57.00
	8"	F5817-48	201	51.25	57.00
54	7"	F5717-54	206	57.56	63.00
	8"	F5817-54	220	57.25	63.00
60	7"	F5717-60	224	63.56	69.00
	8"	F5817-60	239	69.25	69.00
66	7"	F5717-66	241	69.56	75.00
	8"	F5817-66	258	69.25	75.00
72	7"	F5717-72	259	75.56	81.00
	8"	F5817-72	276	75.25	81.00
78	7"	F5717-78	277	81.56	87.00
	8"	F5817-78	295	81.25	87.00
84	7"	F5717-84	294	87.56	93.00
	8"	F5817-84	314	87.25	93.00
96	7"	F5717-96	329	99.56	105.00
	8"	F5817-96	352	99.25	105.00
108	7"	F5717-108	365	111.56	117.00
	8"	F5817-108	390	111.25	117.00
120	7"	F5717-120	400	123.56	129.00
	8"	F5817-120	428	123.25	129.00

## Series 40,000 and 70,000 Catenary Belt Conveyor Idlers

Link-Belt Series 40,000 and 70,000 Catenary Belt Conveyor Idlers combine the proven capabilities of the Link-Belt roll design with the benefits of a catenary suspension to form a smooth natural trough and ideal load conveying surface.

Series 40,000 and 70,000 Catenary Idlers are manufactured to withstand heavy impact at loading and transfer points as required by wide belts through 96-inch width. Superior performance and proven dependability are the result of rugged roll construction, exclusive labyrinth seal design and high-capacity "sealed for life" tapered roller bearings.

Especially suited to loading areas or transfer points in reclaiming installations where high impact loads must be absorbed, these catenary idlers have the design and built-in ability to adjust under varying loading conditions.

The Series 40,000 exclusive outboard seal effectively protects bearings three ways... a triple lip nitrile rubber primary seal... triple labyrinth... and grease-filled clearances. This design makes the idlers impervious to moisture and contaminants, extending idler life.

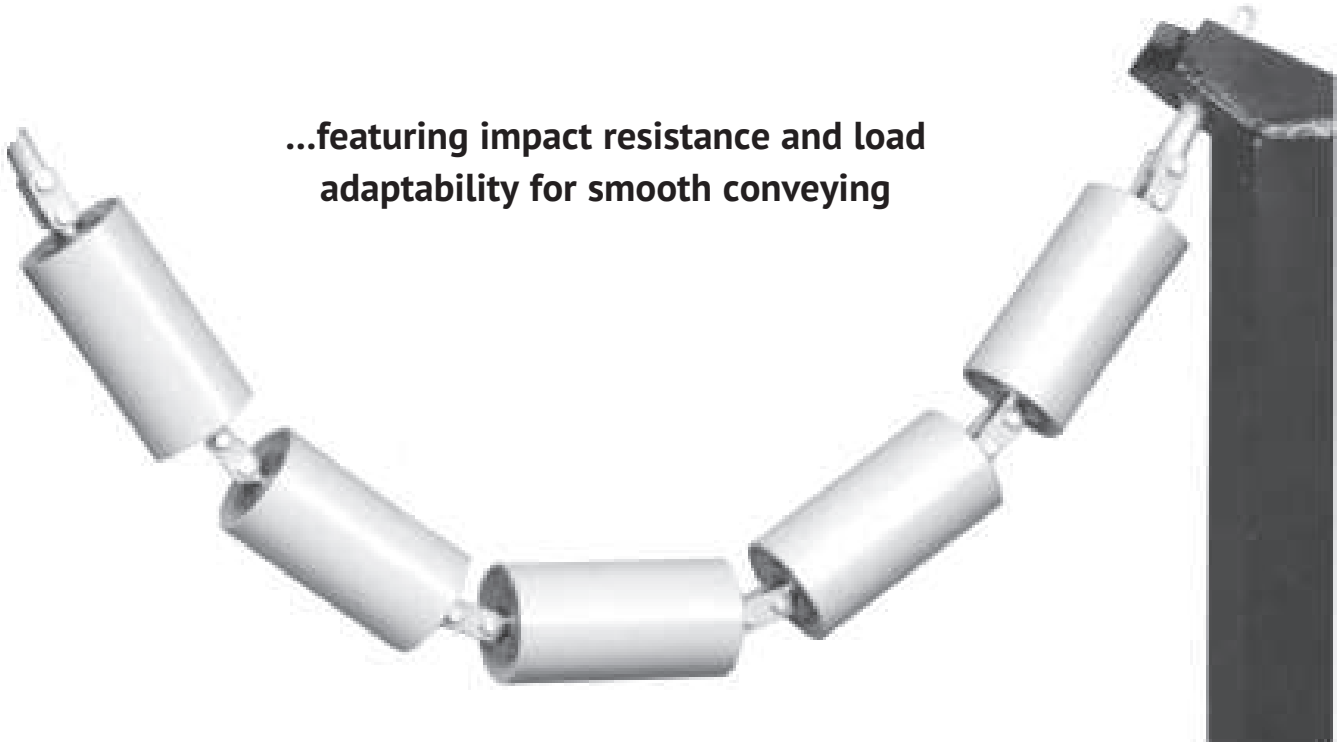
The complete line of Link-Belt Series 40,000 Catenary Belt Conveyor Idlers includes 35° 3-roll Troughing Idlers, 55° 5-roll Impact Idlers, and 10° and 15° 2-roll V-Return Idlers. V-Return Idlers are supplied with steel rolls. This full range of idlers provides the design engineer with components required to select an efficient material conveying system.

All Series 40,000 idlers are available for belt widths from 36 up to 96-inches and can be supplied with either 6- or 7-inch diameter rolls. Prior to shipping, rolls are protected by a baked on polymeric powder coating.

When load carrying requirements exceed standard limitations, the Series 70,000 Catenary Idler provides more than double the capacity of the Series 40,000 Belt Conveyor Idler.

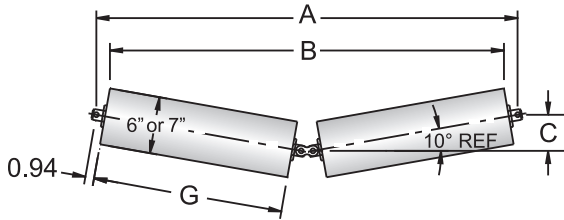
Catenary Chain Connecting Devices are an economical and effective means for suspension of 3-roll Troughing Idlers and 2-roll V-Return Idlers. A bar link arrangement for 5-roll Impact Idlers is also available. There are various other Connecting Devices available for the Link-Belt Catenary Idlers which allow the conveyor designer complete freedom in choice of support structures. Details can be furnished upon request. Quick Disconnect Devices for Syntron Material Handling Catenary Idlers can also be provided, which permit operators to drop an idler out of service without stopping the conveyor.

**...featuring impact resistance and load adaptability for smooth conveying**



# 10° 2-Roll V-Return Idlers

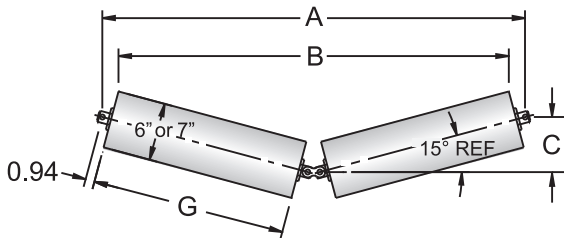
40,000



Belt width, inches	Dia.	Idler number	Idler weight, pounds	A	B	C	G
				Inches			
36	6"	40656-36	91	44.56	41.69	3.81	20.12
	7"	40756-36	102	44.56	41.50	3.81	20.12
42	6"	40656-42	106	51.88	48.94	4.44	23.81
	7"	40756-42	119	51.88	48.81	4.44	23.81
48	6"	40656-48	119	58.12	55.25	5.00	27.00
	7"	40756-48	133	58.12	55.06	5.00	27.00
54	6"	40656-54	137	66.75	63.88	5.81	31.38
	7"	40756-54	153	66.75	63.69	5.81	31.38
60	6"	40656-60	146	71.44	68.56	6.19	33.75
	7"	40756-60	163	71.44	68.38	6.19	33.75
72	6"	40656-72	173	84.50	81.62	7.31	40.38
	7"	40756-72	193	84.50	81.44	7.31	40.38
84	6"	40656-84	198	96.31	93.44	8.38	46.38
	7"	40756-84	220	96.31	93.25	8.38	46.38
96	6"	40656-96	228	110.94	108.06	9.69	53.81
	7"	40756-96	254	110.94	107.88	9.69	53.81

# 15° 2-Roll V-Return Idlers

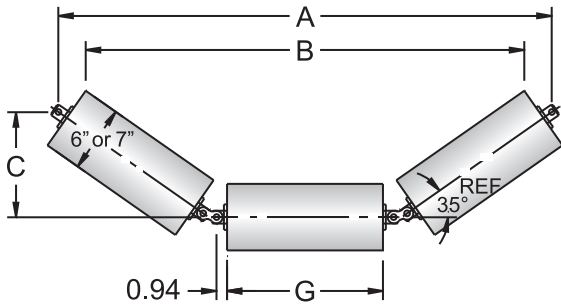
40,000



Belt width, inches	Dia.	Idler number	Idler weight, pounds	A	B	C	G
				Inches			
36	6"	40656-36	91	43.75	40.38	5.69	20.12
	7"	40756-36	102	43.75	40.12	5.69	20.12
42	6"	40656-42	106	50.88	47.50	6.62	23.81
	7"	40756-42	119	50.88	47.25	6.62	23.81
48	6"	40656-48	119	57.06	53.69	7.50	27.00
	7"	40756-48	133	57.06	53.44	7.50	27.00
54	6"	40656-54	137	65.50	62.12	8.62	31.38
	7"	40756-54	153	65.50	61.88	8.62	31.38
60	6"	40656-60	146	70.06	66.69	9.25	33.75
	7"	40756-60	163	70.06	66.44	9.25	33.75
72	6"	40656-72	173	82.88	79.50	10.94	40.38
	7"	40756-72	193	82.88	79.25	10.94	40.38
84	6"	40656-84	198	94.50	91.12	12.50	46.38
	7"	40756-84	220	94.50	90.88	12.50	46.38
96	6"	40656-96	228	108.81	105.50	14.44	53.81
	7"	40756-96	254	108.81	105.19	14.44	53.81

# 35° 3-Roll Troughing Idlers

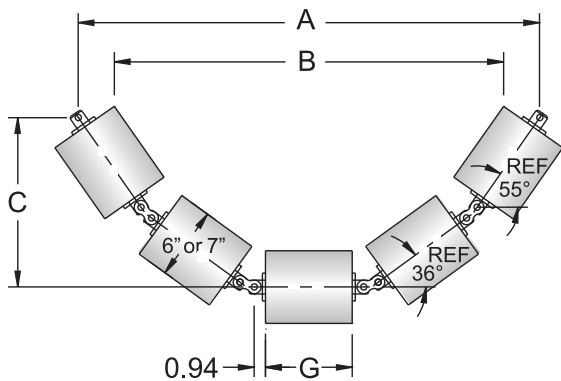
40,000



Belt width, inches	Dia.	Idler number	Idler weight, pounds	A	B	C	G
				Inches			
36	6"	40655-36	100	44.44	39.50	9.44	14.06
	7"	40755-36	112	44.44	38.94	9.44	14.06
42	6"	40655-42	112	49.69	44.75	10.62	16.06
	7"	40755-42	126	49.69	44.19	10.62	16.06
48	6"	40655-48	125	55.00	50.06	11.75	18.06
	7"	40755-48	140	55.00	49.50	11.75	18.06
54	6"	40655-54	137	60.44	55.50	12.94	20.12
	7"	40755-54	153	60.44	54.94	12.94	20.12
60	6"	40655-60	151	66.38	61.44	14.25	22.38
	7"	40755-60	169	66.38	60.88	14.25	22.38
72	6"	40655-72	179	78.56	73.62	16.88	27.00
	7"	40755-72	200	78.56	73.06	16.88	27.00
84	6"	40655-84	206	90.12	85.19	19.38	31.38
	7"	40755-84	230	90.12	84.62	19.38	31.38
96	6"	40655-96	233	102.00	97.06	22.00	35.88
	7"	40755-96	260	102.00	96.50	22.00	35.88

# 55° 5-Roll Impact Idlers

40,000

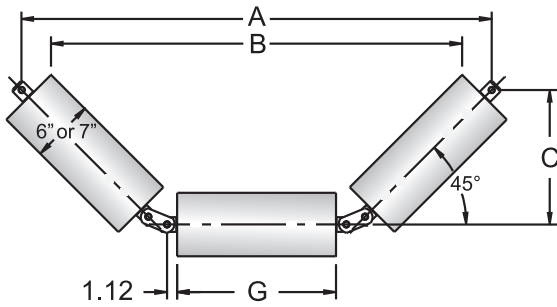


Belt width, inches	Dia.	Idler number	Idler weight, pounds	A	B	C	G
				Inches			
36	6"	40657-36	98	38.31	32.31	14.06	7.19
	7"	40757-36	111	38.31	31.50	14.06	7.19
42	6"	40657-42	111	43.19	37.25	15.88	8.50
	7"	40757-42	126	43.19	36.38	15.88	8.50
48	6"	40657-48	127	49.12	43.12	18.06	10.06
	7"	40757-48	143	49.12	42.25	18.06	10.06
54	6"	40657-54	139	53.31	47.38	19.69	11.19
	7"	40757-54	156	53.31	46.56	19.69	11.19
60	6"	40657-60	152	58.25	52.31	21.50	12.50
	7"	40757-60	171	58.25	51.44	21.50	12.50
72	6"	40657-72	179	68.12	62.19	25.19	15.12
	7"	40757-72	200	68.12	61.31	25.12	15.12
84	6"	40657-84	209	79.19	73.25	29.31	18.06
	7"	40757-84	233	79.19	72.38	29.31	18.06
96	6"	40657-96	229	86.94	81.00	32.25	20.12
	7"	40757-96	257	86.94	80.12	32.25	20.12

# 45°

## 3-Roll Troughing Idlers

70,000

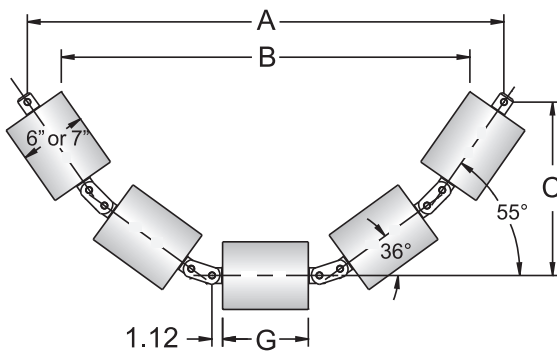


Belt width, inches	Dia.	Idler number	Idler weight, pounds	A	B	C	G
				Inches			
48	6"	70655-48	166	52.00	46.12	14.88	17.56
	7"	70755-48	180	52.00	54.44	14.88	17.56
54	6"	70655-54	182	56.94	51.12	16.31	19.62
	7"	70755-54	198	56.94	50.44	16.31	19.62
60	6"	70655-60	198	61.62	55.81	17.69	21.56
	7"	70755-60	215	61.62	55.12	17.69	21.56
72	6"	70655-72	231	71.31	65.44	20.56	25.56
	7"	70755-72	251	71.31	64.75	20.56	25.56
84	6"	70655-84	263	80.94	75.12	23.38	29.56
	7"	70755-84	286	80.94	74.44	23.38	29.56
96	6"	70655-96	296	90.62	84.81	26.19	33.56
	7"	70755-96	321	90.62	84.06	26.19	33.56

# 55°

## 5-Roll Impact Idlers

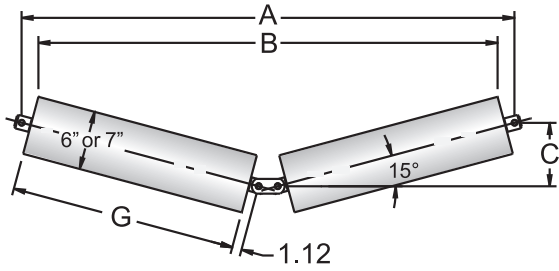
70,000



Belt width, inches	Dia.	Idler number	Idler weight, pounds	A	B	C	G
				Inches			
48	6"	70657-48	160	49.31	43.12	17.94	8.88
	7"	70757-48	174	49.31	42.31	17.94	8.88
54	6"	70657-54	177	54.00	47.81	19.69	10.12
	7"	70757-54	193	54.00	47.00	19.69	10.12
60	6"	70657-60	193	58.50	52.31	21.38	11.31
	7"	70757-60	210	58.50	51.50	21.38	11.31
72	6"	70657-72	226	67.69	61.50	24.81	13.75
	7"	70757-72	246	67.69	60.62	24.81	13.75
84	6"	70657-84	259	76.88	70.69	28.25	16.19
	7"	70757-84	282	76.88	69.81	28.25	16.19
96	6"	70657-96	292	86.00	79.81	31.69	18.62
	7"	70757-96	317	86.00	79.00	31.69	18.62

# 15° 2-Roll V-Return Idler

## 70,000

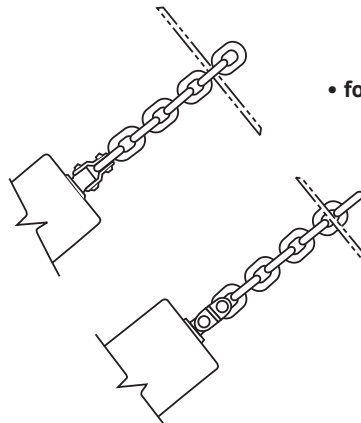


Belt width, inches	Dia.	Idler number	Idler weight, pounds	A	B	C	G
				Inches			
48	6"	70656-48	160	58.25	54.56	7.50	26.75
	7"	70756-48	173	58.25	54.31	7.50	26.75
54	6"	70656-54	176	64.06	60.31	8.31	29.75
	7"	70756-54	191	64.06	60.06	8.31	29.75
60	6"	70656-60	192	69.88	66.12	9.06	32.75
	7"	70756-60	209	69.88	65.88	9.06	32.75
72	6"	70656-72	225	81.44	77.75	10.62	38.75
	7"	70756-72	244	81.44	77.50	10.62	38.75
84	6"	70656-84	257	93.06	89.31	12.19	44.75
	7"	70756-84	279	93.06	89.06	12.19	44.75
96	6"	70656-96	290	104.62	100.94	13.75	50.75
	7"	70756-96	314	104.62	100.62	13.75	50.75

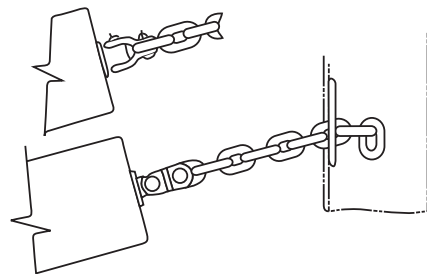


## Catenary Connecting Devices

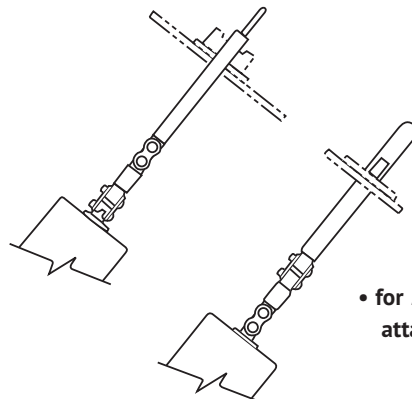
The designs of support structures for Catenary Idlers are not limited. The Link-Belt range of standard designs of Catenary Connecting Devices accommodates most applications. Typical connecting devices are illustrated. Other designs are available upon request. Heavy-duty chain links on each end of the Catenary Idler Suspension Assembly compensate for variable distances between support structures.



• for 3-roll assembly attachment A



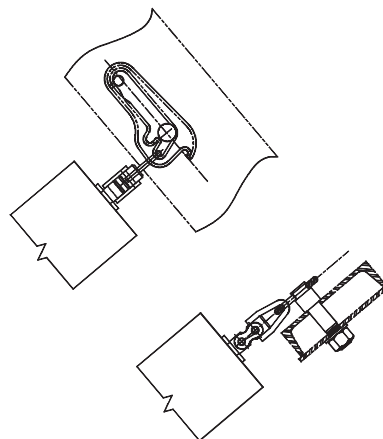
• for 2-roll v-return assembly attachment B



• for 5-roll impact assembly attachment C

## Catenary Quick Disconnect

The Quick Disconnect will permit dropping an idler assembly out of service without stopping the conveyor. A simple mechanical device facilitates quick operation.



## CEMA C/D 3000 Truss Frame Idler

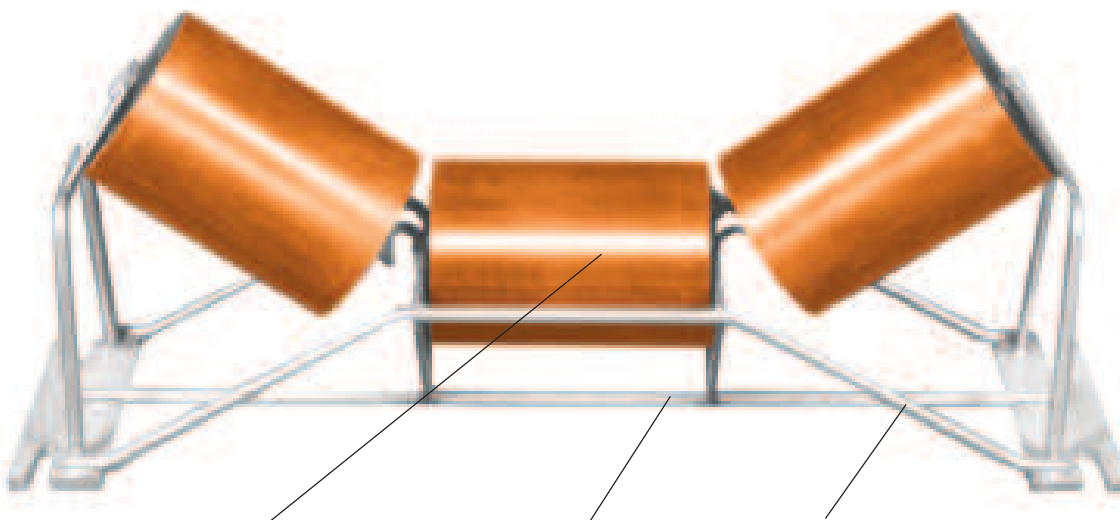
Syntron Material Handling continues to lead the industry with a commitment to produce the most innovative, specialized belt conveyor equipment available to assist you in solving your unique material handling requirements.

We are very proud of our patented “Link-Belt Truss Frame Idler” for CEMA D load requirements. Dimensionally interchangeable with all CEMA C/D Series idlers, the Syntron Material Handling Truss Idler features a lightweight frame member that is fabricated from round bar stock to reduce the frame weight by 50%. An added benefit of this truss frame design is a 40% increase in load rating as compared to the conventional CEMA D inverted angle frame. The design of the frame, with rounded surfaces and the lowest roll gap available (0.25 in), ensures against costly material spillage buildup around the idler that may impede production. The Link-Belt Truss Idler is available in a variety of materials: #304SS, #316SS and of course, carbon steel. This is especially critical in today’s markets for the handling of harsh chemicals, phosphate, salt, acids and many other corrosive materials that tend to shorten the life of your equipment. For these caustic applications we complete the offering by placing premium HDPE polyethylene rollers into the stainless steel or carbon steel frame. The composite rollers greatly extend the life of your belt conveyor equipment while reducing costly maintenance and downtime.

Whether your goal is to reduce equipment weight or to extend equipment life subjected to a harsh material handling environment, the Link-Belt Truss Frame Idler is your ultimate solution.

For additional assistance in selecting the proper Truss Frame Idler to solve your problems, please contact your Syntron Material Handling Inside Sales Team at 1-800-356-4898.

\* See pages 90-93 for composite options.



**Composite rolls**

**Resists corrosion and material buildup**

**Frame options:**

- #304SS
- #316SS
- Carbon Steel

**Lightweight for simple installation**



# Conveyor Belt Alignment

**A belt conveyor which is properly designed, constructed, erected, and maintained theoretically will consistently run true without concern for belt misalignment. However, in actuality, properly aligned belts are normally the exception rather than the rule. The following belt training trouble-shooting guide is provided to assist you in your efforts to correct belt misalignment problems that invariably lead to premature failure of belting, idlers, and pulleys. Please follow these steps to ensure satisfactory performance of your belt conveyors:**

1. Square and level the head and tail pulleys with their axis at 90 degrees to the intended path of the belt.
2. Square all carrying and return idlers with the conveyor frame during the belt conveyor installation, be sure the idlers are in line and lie in the same horizontal plane, and secure all attachment bolts.
3. Level all frames to ensure a cross-section parallel to the ground plane. If one side of the conveyor frame is lower than the other, gravity will force the belt off-center.
4. The belt must be straight and the belt splice square. If side creep occurs only in the vicinity of the belt splice, the splice may not be square with the belt. In general, if detraining follows the belt movement, there is a problem with the belt. If it remains in one general vicinity, there are other problems with the conveyor. Some new belts may tend to wander to one side, in a certain position or portions of their length, because of temporary lateral mal-distributions of tension. Operation of the belt under tension corrects this condition in practically all cases. Use of self-aligning idlers will aid in making the correction.
5. The belt should make constant contact with all troughed idler rollers.
6. Conveyed material should always be centrally loaded onto the belt by means of chutework, loading hoppers, skirtboarding, etc.

**There may be occasion when the above procedure is not sufficient and the belt detrains to one side. The following corrective measures may be initiated to prevent side movement:**

1. While running the belt at the lowest speed possible, find the point of maximum side motion. The idler preceding this point along the direction of belt travel can be adjusted to minimize side movement. The belt may be centered by pivoting, or "knocking" ahead (in the direction of belt travel) the end of the idler to which the belt runs. Shifting idlers in this way should be spread over some length of the conveyor preceding the region of trouble. Once the belt is centered, increase belt speed and load the belt with material. Continue adjusting until normal operating conditions do not cause the belt to misalign.
2. Recheck pulley alignment to ensure that they are level and with their axes at 90 degrees to the intended path of the belt. Head and tail pulleys should not be shifted in an effort to center the belt with the exception of the snub pulleys which may have their axes shifted when other training measures have failed.
3. Training idlers are not intended to compensate for a belt that has been poorly aligned, or to correct for off-center loading conditions. However, both troughed training and return training positive action idlers are recommended for lengthy conveyors to assist in correcting and recentering occasional wandering belts. They should normally be located 50 feet from terminal pulleys and spaced 50 to 100 feet. Free rotation of the trainer's vertical actuating rolls is essential for proper operation of the idler. Please refer to the index page in this publication for Syntron Material Handling model numbers and complete dimensional information regarding Link-Belt positive action training idlers.
4. Recheck conveyor belt to verify that all splices are correct and square.
5. If the above steps do not resolve the belt training issues, the conveyor should be laser aligned and corrective action taken based upon the survey data.

# Syntron Material Handling MHS Powder Coat Painting Process Specification

All Syntron Material Handling Idler rollers and frames are processed through an automated state of the art surface treatment and painting process. The parts begin their surface treatment by hanging bare metal parts on a powered chain conveyor system. The parts pass through a three stage Iron Phosphate Conversion Coating Washer System.

The iron phosphate system is a chemical conversion coating that transforms the surface of the base metal into a nonmetallic crystalline coating. This crystalline coating applied as an interface between the bare metal and the finish top coat of paint can significantly increase corrosion resistance even though it is micro thin.

Within the first stage, the parts are cleaned with an incorporated detergent system to clean and apply an iron phosphate primer coating all in one step. To allow the coating to form, the bath temperature must be maintained at 100-140 degrees Fahrenheit, and the parts remain inside the bath for a minimum of 5 minutes. The second and third stages are fresh water rinse baths that remove all unwanted impurities from all part surfaces.

The conveyor continues through a flash drying process and the parts are immediately painted by an automated electrostatic paint application system. A polyester TGIC paint is normally applied but virtually any powder paint can be applied including Powder Epoxy. Film thicknesses are typically 2 to 5 mils.

**Syntron Material Handling standard paint is a Polyester TGIC Corvel Grey powder. The physical properties of the paint are:**

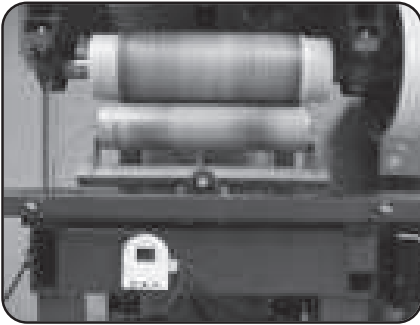
Specific Gravity:	Calculated	1.58
Gloss:	(ASTM D523)	50-60% @ 70%
Adhesion Cross Hatch:	(ASTM D3359)	Pass
MEK Resistance:	(30 sec rub)	50+ DR
Salt Spray Resistance:	(ASTM B117)	500 HRS
Flexibility Conical Mandrel:	(ASTM D522)	¼" Pass
Pencil Hardness:	(ASTM D3363)	Record
Impact Resistance:	(ASTM D2794)	160/160 in lbs

The automated conveyor passes through a natural gas-fired curing oven that maintains the steel temperature at 300 degrees Fahrenheit for a minimum of 10 minutes. After a cool down process, the parts are removed to continue in the production of the finished idler products.



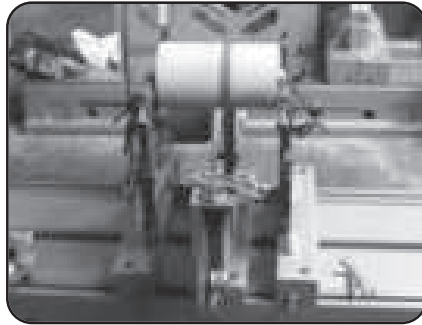
# Quality Assurance Testing

## Load Testing



Rotates test roll under load. Bearing temperatures are monitored to indicate failure.

## Roll Imbalance Testing



Rolls are tested for imbalance per ISO 1940.

## Oilsand Slurry Seal Testing



Mixture of oilsand, blasting sand and gear oil used as test medium. Screw agitators pull slurry toward seals. Inspection ports allow easy inspection of seal failure.

## Water Resistance Testing



Rolls are weighed. Rolls are partially submerged and rotated. Rolls are weighed again to determine if any water bypassed the seal. This test is per DIN 22112-3.

## Roll Resistance Testing



Rolls are placed in vee blocks. As the roll is rotated, the resistance needed to keep the shaft stationary is measured per DIN 22112-3.

## Roll Concentricity Testing



Roll concentricity is tested in the center and near each end per DIN 22112-3.

## To obtain a Service & Safety Manual:

The Syntron Material Handling Service & Safety Manual is available for download at:  
[www.syntronmh.com](http://www.syntronmh.com)

This manual can also be distributed free of charge via postal service or electronic mail. Contact our customer service department at 1-800-356-4898 and reference "SM-Idlers".



# Field Services offered by Syntron Material Handling

## **Inspections:**

Stop problems before they occur with an annual inspection of your equipment and facility. Addressing issues prior to equipment failure can eliminate maintenance nightmares and unscheduled downtime. SMH can offer simple electrical and mechanical calibrations during our routine inspections.

---

## **Process Improvement:**

From intake to discharge Syntron Material Handling can offer production and process improvement options.

---

## **Training:**

SMH can offer many types of certified training including web-ex, classroom and training that is specific to your equipment needs. Your technicians can then properly maintain and monitor all aspects of equipment operations to keep them running at their optimum performance while eliminating downtime.

---

## **Consulting:**

Ask your Syntron Material Handling representative for a complete review of any planned upgrades, new installations or maintenance repairs. With over 136 years of knowledge we can help you avoid any costly mistakes.

---

## **Troubleshooting:**

Our Link-Belt brand has been in the material handling industry for well over 136 years and Syntron for more than 82. There's not much that surprises us. By using a certified SMH service technician your problems are quickly diagnosed and many solutions offered shortly upon arrival. From mechanical, electrical or application issues we have the experience to get you back on track and keep your equipment operating as designed.

---

## **Productivity:**

We can optimize production by returning your equipment to maximum original specifications and advise on optimizing your application for the most efficiency possible.

---

## **Equipment Repair / Upgrades:**

Our experienced team can identify mechanical or electrical failures quickly. We don't stop there. It's our goal to get you back up and running in as minimal time as possible. With inside sales support most replacement parts can be shipped out the same day. We work to identify the issues and find solutions. Every service trip is completed with a detailed follow up report highlighting issues and our recommendations for correction.

---



## Material Handling Solutions:

Our experienced technicians have traveled the globe and worked in every application imaginable. Once on site, along with our experienced applications and engineering team, we can provide Solutions for even the most difficult applications.

## Surveys:

Need a detailed list of all your Syntron Material Handling equipment? Let our Service Technicians provide models, serial numbers, current physical condition and operating performance for year round reference. This document is invaluable for maintenance and ordering of replacement parts.

## Technical Support:

The SMH team is only a phone call away. With over 136 years of material handling experience you know you have a support team of inside sales, applications specialist and engineers who are mechanically and electrically priceless.

## Installation:

All applicable SMH equipment is 100% fully tuned and tested prior to shipment. However, during installation misalignment of the hopper or equipment can cause damage or possible inefficiency. Poor installation is the result of many service trips. We recommend you have an experienced Syntron Material Handling technician onsite for installation and start-up to assure optimal material flow for maximum capacity.



## Availability:

Our Experienced service technicians are available at a moment's notice. We know how important downtime is and the cost of lost production.

## Calibration:

Mechanically sound equipment doesn't necessarily mean high performance/output. A few mechanical and or electrical adjustments can mean the difference between meeting your goals within your timeframe or having your crew work overtime.

## Service Team Certifications

- Repair/Assembly/test/electrical in all Syntron heavy and light magnetic and mechanical industry products
- Electrical Measurements/adjustments/programming on Syntron variable frequency drives and variable voltage Controllers
- Welding/torch
- Training via classroom or individual basis on all Syntron equipment
- Installations of Syntron Material Handling equipment
- Project Management/Leadership

# Syntron Material Handling

## Corporate Office

P.O. Box 1370

Tupelo, Mississippi 38802

Phone: 662.869.5711

Fax: 662.869.7449

## Proven Engineered Products – Complete Material Handling Solutions

**Syntron®**  
**Link-Belt®**

### Salttilo

2730 Hwy 145 South

Salttilo, Mississippi 38866

Phone: 662.869.5711

Fax: 662.869.7493

Toll Free: 800.356.4898

info@syntronmh.com

### Changshu

#2 Road No. 1

Changshu Export Processing Zone

Changshu, Jiangsu, China 215513

Phone: +86 0512.52299002

Fax: +86 0512.52297228

info@syntronmh.com

