

Underground Conveyor Structure

CEMA C, D, and E Series



Custom Designed Solutions for Your Mining Applications

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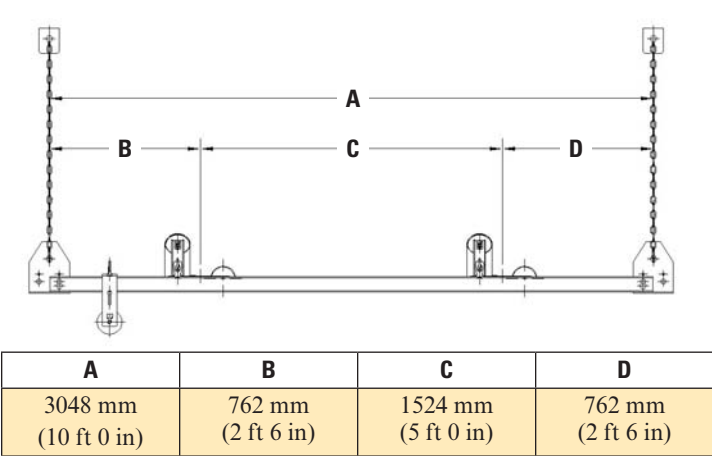
Custom-designed for your bulk material handling applications, Caterpillar has a full range of rugged and reliable conveyor systems and conveyor products unsurpassed in performance and service life. Transport your mined materials reliably and efficiently with our Conveyor Systems solutions both on the surface and underground.

Belt Structure Configurations

Quick and easy installation

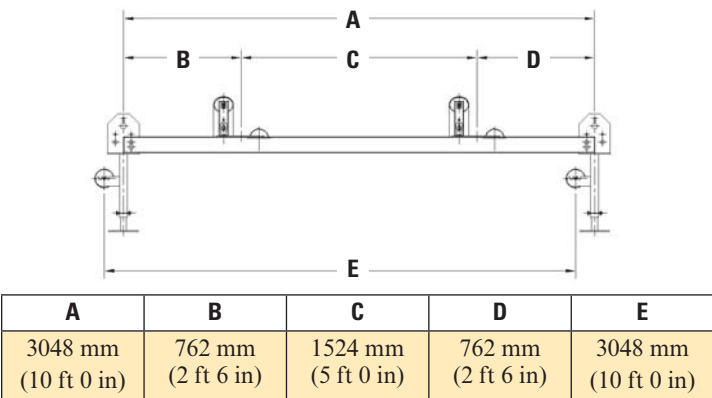
Roof-hung Structure

This typical 3 m (10 ft) section of roof-hung structure features the Cat® EZEE-LOC rail connections for quick installation. No special tools are required to set up.



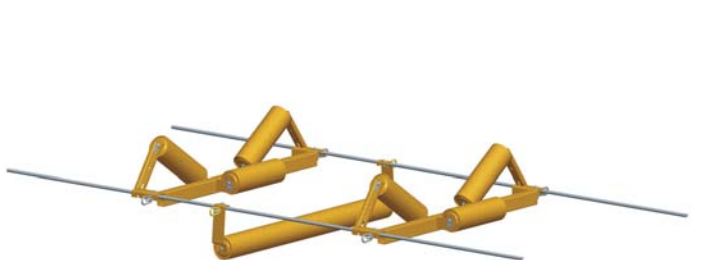
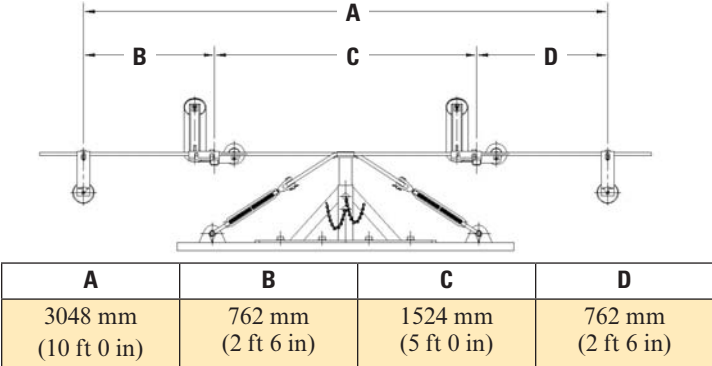
Floor-mounted Structure

The example of floor-mounted EZEE-LOC structure shows the return rolls mounted in floor stands. Return rolls can also be furnished mounted in drop brackets attached to channel rails.



Wire-rope Structure

The Cat wire-rope structure features carrying idlers with mounting feet that cradle the wire rope until securely fastened with the supplied hardware. The tie-off stands can be floor-mounted or roof-hung.

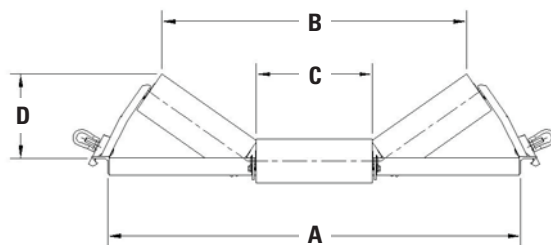


Carrying Assemblies

Handle full capacity loading

Cat Carrying Assemblies

Cat carrying idlers have a single mechanical tube cross member, sized to handle full capacity loading through 1500 mm (60 in) belt widths. Box frame carrying idlers are also available.



Carrying Idler Assemblies for Channel Mount*

101 mm (4 in) 35° – 7 Ga. – CEMA C or D Carrying Assembly*						
Belt Width	Part No.		A	B	C	D
	CEMA C	CEMA D				
914 mm (36 in)	343371	—	1193 mm (47 in)	863 mm (34 in)	336 mm (13¼ in)	222 mm (8¾ in)
1066 mm (42 in)	343343	—	1346 mm (53 in)	1006 mm (39⅝ in)	381 mm (15¼ in)	250 mm (9⅞ in)
1219 mm (48 in)	343389	—	1498 mm (59 in)	1139 mm (44⅞ in)	431 mm (17¼ in)	280 mm (11⅛ in)

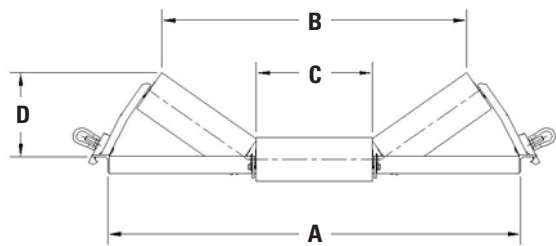
127 mm (5 in) 0 – 35° – 7 Ga. – CEMA C or D Carrying Assembly*						
Belt Width	Part No.		A	B	C	D
	CEMA C	CEMA D				
914 mm (36 in)	343386	—	1193 mm (47 in)	863 mm (34 in)	336 mm (13¼ in)	233 mm (9⅜ in)
1066 mm (42 in)	342621	375912	1346 mm (53 in)	989 mm (38⅝ in)	381 mm (15⅝ in)	260 mm (10¼ in)
1219 mm (48 in)	343390	366593	1498 mm (59 in)	1374 mm (45⅞ in)	431 mm (17¼ in)	300 mm (11⅜ in)
1371 mm (54 in)	343305	375915	1651 mm (65 in)	1281 mm (50⅞ in)	488 mm (19¼ in)	330 mm (13 in)

152 mm (6 in) 0 – 35° – 7 Ga. – CEMA C or D Carrying Assembly*						
Belt Width	Part No.		A	B	C	D
	CEMA C	CEMA D				
914 mm (36 in)	375613	—	1193 mm (47 in)	869 mm (34¼ in)	336 mm (13¼ in)	252 mm (9⅝ in)
1066 mm (42 in)	375624	375914	1349 mm (53 in)	1003 mm (39½ in)	381 mm (15¼ in)	280 mm (11⅛ in)
1219 mm (48 in)	375631	357916	1498 mm (59 in)	1138 mm (44⅜ in)	431 mm (17¼ in)	309 mm (12⅜ in)
1371 mm (54 in)	375756	326985	1651 mm (65 in)	1271 mm (50⅞ in)	488 mm (19¼ in)	339 mm (13⅜ in)
1524 mm (60 in)	375917	375918	1803 mm (71 in)	1404 mm (55⅝ in)	539 mm (21¼ in)	368 mm (14½ in)

*Available with 6 mm (¼ in) wall rolls upon request.

Offset Carrying Assemblies

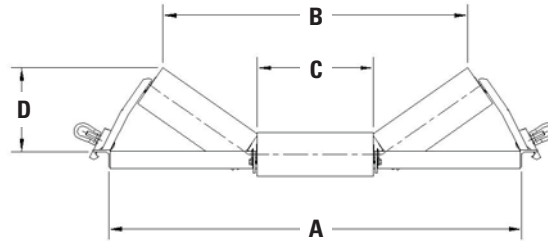
Offset Carrying Idler Assembly



Carry Idler Assemblies for Channel Mount					
152 mm (6 in) 35° – 6 mm (¼ in) – CEMA E Steel Roll Channel Mount					
Belt Width	Part No.	A	B	C	D
914 mm (36 in)	602678	1196 mm (47 ¹ / ₈ in)	849 mm (33 ⁷ / ₁₆ in)	346 mm (13 ⁵ / ₈ in)	244 mm (9 ⁵ / ₈ in)
1066 mm (42 in)	602679	1349 mm (53 ¹ / ₈ in)	976 mm (38 ⁷ / ₁₆ in)	396 mm (15 ⁵ / ₈ in)	271 mm (10 ¹¹ / ₁₆ in)
1219 mm (48 in)	376370	1501 mm (59 ¹ / ₈ in)	1131 mm (44 ⁹ / ₁₆ in)	447 mm (17 ⁵ / ₈ in)	284 mm (11 ¹³ / ₁₆ in)
1371 mm (54 in)	376402	1654 mm (65 ¹ / ₈ in)	1271 mm (50 ¹ / ₁₆ in)	498 mm (19 ⁵ / ₈ in)	339 mm (13 ³ / ₈ in)
1524 mm (60 in)	324853	1806 mm (71 ¹ / ₈ in)	1398 mm (55 ⁵ / ₁₆ in)	549 mm (21 ⁵ / ₈ in)	368 mm (14 ¹ / ₂ in)
1828 mm (72 in)	602683	1958 mm (77 ¹ / ₈ in)	1651 mm (65 ⁷ / ₈ in)	650 mm (25 ⁵ / ₈ in)	427 mm (16 ¹³ / ₁₆ in)

Offset Carrying Assemblies

Channel Mount Steel Rolls



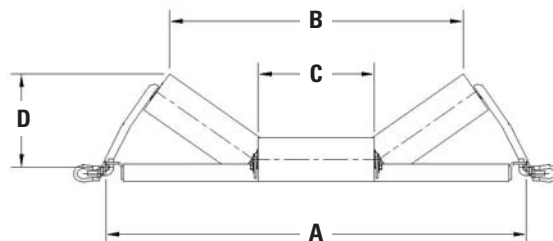
Carry Idler Assemblies for Channel Mount

177 mm (7 in) 35° – 6 mm (1/4 in) – CEMA E Steel Roll Channel Mount

Belt Width	Part Number	A	B	C	D
914 mm (36 in)	602684	1196 mm (47 ¹ / ₈ in)	852 mm (33 ⁹ / ₁₆ in)	346 mm (13 ⁵ / ₈ in)	265 mm (10 ⁷ / ₁₆ in)
1066 mm (42 in)	602685	1349 mm (53 ¹ / ₈ in)	985 mm (38 ¹³ / ₁₆ in)	396 mm (15 ⁵ / ₈ in)	293 mm (11 ⁹ / ₁₆ in)
1219 mm (48 in)	376369	1501 mm (59 ¹ / ₈ in)	1120 mm (44 ¹ / ₈ in)	447 mm (17 ⁵ / ₈ in)	322 mm (12 ¹¹ / ₁₆ in)
1371 mm (54 in)	376401	1654 mm (65 ¹ / ₈ in)	1254 mm (49 ³ / ₈ in)	498 mm (19 ⁵ / ₈ in)	352 mm (13 ⁷ / ₈ in)
1524 mm (60 in)	376403	1806 mm (71 ¹ / ₈ in)	1389 mm (54 ¹¹ / ₁₆ in)	549 mm (21 ⁵ / ₈ in)	381 mm (15 in)
1828 mm (72 in)	602689	1958 mm (77 ¹ / ₈ in)	1657 mm (65 ¹ / ₄ in)	650 mm (25 ⁵ / ₈ in)	439 mm (17 ⁵ / ₁₆ in)

Carrying Assemblies

Multiple configurations ensure the right fit



Carrying Idler Assemblies for Channel Mount*

101 mm (4 in) ϕ – 35° – 7 Ga. – CEMA C or D Carrying Assembly

Belt Width	Part No.		A	B	C	D
	CEMA C	CEMA D				
914 mm (36 in)	329226	—	1219 mm (48 in)	869 mm (34 ¹ / ₈ in)	336 mm (13 ¹ / ₄ in)	260 mm (10 ¹ / ₄ in)
1066 mm (42 in)	329253	—	1371 mm (54 in)	976 mm (38 ⁷ / ₁₆ in)	381 mm (15 ¹ / ₄ in)	263 mm (10 ³ / ₈ in)
1219 mm (48 in)	329264	—	1524 mm (60 in)	1146 mm (45 ¹ / ₈ in)	437 mm (17 ¹ / ₄ in)	304 mm (12 in)

127 mm (5 in) ϕ – 35° – 7 Ga. – CEMA C or D Carrying Assembly

Belt Width	Part No.		A	B	C	D
	CEMA C	CEMA D				
914 mm (36 in)	340206	—	1219 mm (48 in)	852 mm (33 ⁹ / ₁₆ in)	336 mm (13 ¹ / ₄ in)	269 mm (10 ⁵ / ₈ in)
1066 mm (42 in)	327175	375964	1371 mm (54 in)	962 mm (37 ⁷ / ₈ in)	381 mm (15 ¹ / ₄ in)	273 mm (10 ³ / ₄ in)
1219 mm (48 in)	299987	328811	1524 mm (60 in)	1131 mm (44 ⁹ / ₁₆ in)	437 mm (17 ¹ / ₄ in)	314 mm (12 ³ / ₈ in)
1371 mm (54 in)	375932	376000	1676 mm (66 in)	1285 mm (50 ⁵ / ₈ in)	488 mm (19 ¹ / ₄ in)	338 mm (13 ⁵ / ₁₆ in)

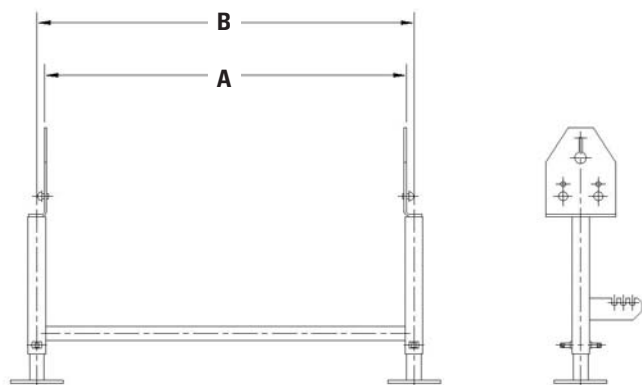
152 mm (6 in) ϕ – 35° – 7 Ga. – CEMA C or D Carrying Assembly

Belt Width	Part No.		A	B	C	D
	CEMA C	CEMA D				
914 mm (36 in)	355926	—	1219 mm (48 in)	835 mm (32 ⁷ / ₈ in)	336 mm (13 ¹ / ₄ in)	280 mm (11 ¹ / ₁₆ in)
1066 mm (42 in)	375923	375995	1371 mm (54 in)	947 mm (37 ⁵ / ₁₆ in)	381 mm (15 ¹ / ₄ in)	288 mm (11 ³ / ₈ in)
1219 mm (48 in)	375929	375998	1524 mm (60 in)	1116 mm (43 ¹⁵ / ₁₆ in)	437 mm (17 ¹ / ₄ in)	325 mm (12 ¹³ / ₁₆ in)
1371 mm (54 in)	375933	376001	1676 mm (66 in)	1271 mm (50 ¹ / ₁₆ in)	488 mm (19 ¹ / ₄ in)	349 mm (13 ³ / ₄ in)
1524 mm (60 in)	375935	376003	1828 mm (72 in)	1404 mm (55 ⁵ / ₁₆ in)	539 mm (21 ¹ / ₄ in)	377 mm (14 ⁷ / ₈ in)

*Available with 6 mm (1/4 in) wall rolls upon request.

EZEE-LOC Configurations

EZEE-LOC Adjustable Floor Stand Assemblies



76 mm (3 in) Channel Floor Stand

Belt Width	Part No.	A	B
914 mm (36 in)	337433	1200 mm (47 ¹ / ₄ in)	1244 mm (49 in)
1066 mm (42 in)	337435	1352 mm (53 ¹ / ₄ in)	1397 mm (55 in)
1219 mm (48 in)	337437	1504 mm (59 ¹ / ₄ in)	1549 mm (61 in)

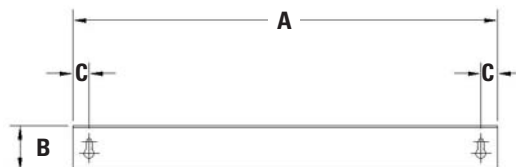
106 mm (4 in) Channel Floor Stand

Belt Width	Part No.	A	B
914 mm (36 in)	336873	1200 mm (47 ¹ / ₄ in)	1244 mm (49 in)
1066 mm (42 in)	336874	1352 mm (53 ¹ / ₄ in)	1397 mm (55 in)
1219 mm (48 in)	336875	1504 mm (59 ¹ / ₄ in)	1549 mm (61 in)
1371 mm (54 in)	336876	1657 mm (65 ¹ / ₄ in)	1701 mm (67 in)

127 mm (5 in) Channel Floor Stand

Belt Width	Part No.	A	B
1219 mm (48 in)	347495	1504 mm (59 ¹ / ₄ in)	1549 mm (61 in)
1371 mm (54 in)	347496	1657 mm (65 ¹ / ₄ in)	1701 mm (67 in)
1500 mm (60 in)	347497	1809 mm (71 ¹ / ₄ in)	1854 mm (73 in)

EZEE-LOC Side Channel Rails



76 mm (3 in) Channel Floor Rail

Part No.	A	B	C
300808	177 mm-298 mm (7 in-11 ³ / ₄ in)	76 mm (3 in)	47 mm (1 ⁷ / ₈ in)
302123	228 mm-298 mm (9 in-11 ³ / ₄ in)	76 mm (3 in)	47 mm (1 ⁷ / ₈ in)
302121	279 mm-298 mm (11 in-11 ³ / ₄ in)	76 mm (3 in)	47 mm (1 ⁷ / ₈ in)

106 mm (4 in) Channel Floor Rail

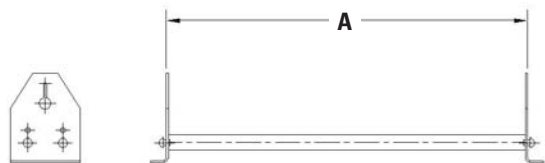
Part No.	A	B	C
334711	177 mm-298 mm (7 in-11 ³ / ₄ in)	106 mm (4 in)	47 mm (1 ⁷ / ₈ in)
260050	228 mm-298 mm (9 in-11 ³ / ₄ in)	106 mm (4 in)	47 mm (1 ⁷ / ₈ in)
272337	279 mm-298 mm (11 in-11 ³ / ₄ in)	106 mm (4 in)	47 mm (1 ⁷ / ₈ in)

127 mm (5 in) Channel Floor Rail

Part No.	A	B	C
334811	177 mm-298 mm (7 in-11 ³ / ₄ in)	127 mm (5 in)	47 mm (1 ⁷ / ₈ in)
310943	228 mm-298 mm (9 in-11 ³ / ₄ in)	127 mm (5 in)	47 mm (1 ⁷ / ₈ in)
334812	279 mm-298 mm (11 in-11 ³ / ₄ in)	127 mm (5 in)	47 mm (1 ⁷ / ₈ in)

EZEE-LOC Configurations and Return Roll Assemblies

EZEE-LOC Roof-hung Spreader Assemblies

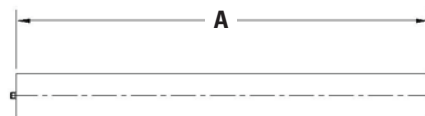


76 mm (3 in) Channel Spreader		
Belt Width	Part No.	A
914 mm (36 in)	327372	1200 mm (47¼ in)
1066 mm (42 in)	327373	1352 mm (53¼ in)
1219 mm (48 in)	310971	1504 mm (59¼ in)

101 mm (4 in) Channel Spreader		
Belt Width	Part No.	A
914 mm (36 in)	327378	1200 mm (47¼ in)
1066 mm (42 in)	327379	1352 mm (53¼ in)
1219 mm (48 in)	327380	1504 mm (59¼ in)
1371 mm (54 in)	327381	1657 mm (65¼ in)

127 mm (5 in) Channel Spreader		
Belt Width	Part No.	A
1219 mm (48 in)	327388	1504 mm (59¼ in)
1371 mm (54 in)	327389	1657 mm (65¼ in)
1524 mm (60 in)	310945	1809 mm (71¼ in)

Return Roll Assemblies



101 mm (4 in) ø – 7 Ga. – Return Roll*				
Belt Width	Part No.			A
	CEMA C	CEMA D	CEMA E	
914 mm (36 in)	324721	—	—	1193 mm (47 in)
1066 mm (42 in)	324727	—	—	1346 mm (53 in)
1219 mm (48 in)	324730	—	—	1498 mm (59 in)

127 mm (5 in) ø – Return Roll*				
Belt Width	Part No.			A
	CEMA C	CEMA D	CEMA E	
914 mm (36 in)	325356	—	—	1193 mm (47 in)
1066 mm (42 in)	325357	325786	—	1346 mm (53 in)
1219 mm (48 in)	325358	325787	—	1498 mm (59 in)
1371 mm (54 in)	325359	325788	—	1651 mm (65 in)

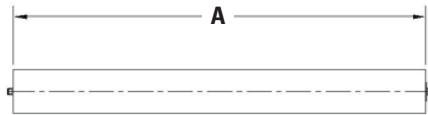
152 mm (6 in) ø 7 Ga. – Return Roll*			
Belt Width	Part No.		A
	CEMA C	CEMA D	
914 mm (36 in)	325485	—	1193 mm (47 in)
1066 mm (42 in)	325488	325818	1346 mm (53 in)
1219 mm (48 in)	325493	325819	1498 mm (59 in)
1371 mm (54 in)	325498	325820	1651 mm (65 in)
1524 mm (60 in)	325501	325822	1803 mm (71 in)

152 mm (6 in) 6 mm (¼ in) – Return Roll		
Belt Width	Part No.	
	CEMA E	
914 mm (36 in)	358962	
1066 mm (42 in)	342575	
1219 mm (48 in)	376433	
1371 mm (54 in)	376434	
1524 mm (60 in)	325435	
		A
		1187 mm (46¾ in)
		1340 mm (52¾ in)
		1492 mm (58¾ in)
		1645 mm (64¾ in)
		1797 mm (70¾ in)

*Available with 6 mm (¼ in) wall rolls upon request.

Replacement Return Rolls

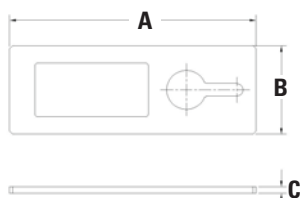
CEMA E



177 mm (7 in) Diameter Steel Rolls		
Belt Width	Part Number	A
914 mm (36 in)	376441	1187 mm (46 ³ / ₄ in)
1066 mm (42 in)	376458	1340 mm (52 ³ / ₄ in)
1219 mm (48 in)	376459	1492 mm (58 ³ / ₄ in)
1371 mm (54 in)	376460	1645 mm (64 ³ / ₄ in)
1524 mm (60 in)	376462	1797 mm (70 ³ / ₄ in)
1828 mm (72 in)	376465	2101mm (82 ³ / ₄ in)

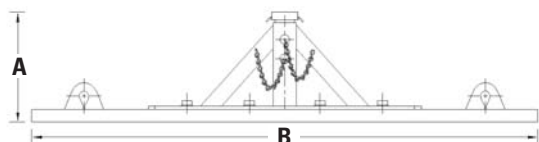
Additional Configurations

Channel Slider/Hanger Brackets



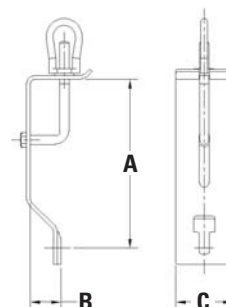
Slider/Hanger Brackets				
Part No.	Channel Size	A	B	C
347481	76 mm (3 in) @ 3.5#	254 mm (10 in)	88.9 mm (3.5 in)	6.35 mm (0.25 in)
347482	101 mm (4 in) @ 5.4#	254 mm (10 in)	88.9 mm (3.5 in)	6.35 mm (0.25 in)
347483	127 mm (5 in) @ 6.7#	254 mm (10 in)	88.9 mm (3.5 in)	6.35 mm (0.25 in)

Wire Rope Adjustable Tie-off Stands



Tie-off Stands			
Part No.	A Min.	A Max.	B
276956	609 mm (24 in)	914 mm (36 in)	1956 mm (77 in)
271136	812 mm (32 in)	1219 mm (48 in)	1956 mm (77 in)

Channel Mounted Drop Brackets



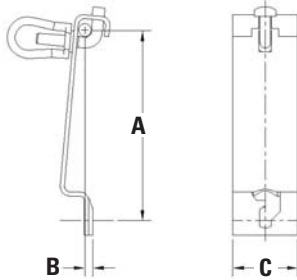
76 mm (3 in) Brackets			
Part No.	A	B	C
338431	228 mm (9 in)	85.7 mm (3 ³ / ₈ in)	76.2 mm (3 in)
338433	304 mm (12 in)	85.7 mm (3 ³ / ₈ in)	76.2 mm (3 in)
338435	381 mm (15 in)	85.7 mm (3 ³ / ₈ in)	76.2 mm (3 in)

101 mm (4 in) Brackets			
Part No.	A	B	C
338426	228 mm (9 in)	85.7 mm (3 ³ / ₈ in)	76.2 mm (3 in)
338428	304 mm (12 in)	85.7 mm (3 ³ / ₈ in)	76.2 mm (3 in)
338430	381 mm (15 in)	85.7 mm (3 ³ / ₈ in)	76.2 mm (3 in)

127 mm (5 in) Brackets			
Part No.	A	B	C
338437	228 mm (9 in)	85.7 mm (3 ³ / ₈ in)	76.2 mm (3 in)
338439	304 mm (12 in)	85.7 mm (3 ³ / ₈ in)	76.2 mm (3 in)
288558	381 mm (15 in)	85.7 mm (3 ³ / ₈ in)	76.2 mm (3 in)

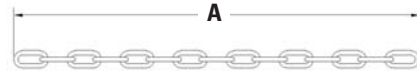
Additional Configurations

Wire Rope Drop Brackets



Drop Brackets			
Part No.	A	B	C
391355	146 mm (5 ³ / ₄ in)	9.5 mm (3 ⁷ / ₈ in)	76.2 mm (3 in)
391356	184 mm (7 ¹ / ₄ in)	9.5 mm (3 ⁷ / ₈ in)	76.2 mm (3 in)
391357	228 mm (9 in)	9.5 mm (3 ⁷ / ₈ in)	76.2 mm (3 in)
391358	298 mm (11 ³ / ₄ in)	9.5 mm (3 ⁷ / ₈ in)	76.2 mm (3 in)

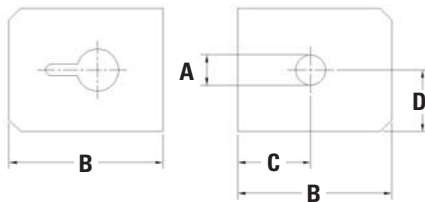
Cat Standard Chain



___ mm (1/4 in) Proof Coil Chain with Hook	
Part No.	A
208650	1.2 m (4 ft)
244458	1.5 m (5 ft)
231598	1.8 m (6 ft)

___ mm (5/16 in) Proof Coil Chain Without Hook	
Part No.	A
222516	1.5 m (5 ft)
216997	1.8 m (6 ft)

Roof Mounting Plates for Chain Hung Structure

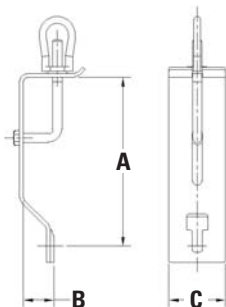


Roof Plates				
Part No.	A	B	C	D
223140	19 mm (3/4 in)	127 mm (5 in)	60.3 mm (2 ³ / ₈ in)	50.8 mm (2 in)
246787	25 mm (1 in)	127 mm (5 in)	60.3 mm (2 ³ / ₈ in)	50.8 mm (2 in)
213551	31 mm (1 ¹ / ₄ in)	127 mm (5 in)	60.3 mm (2 ³ / ₈ in)	50.8 mm (2 in)
242648	38 mm (1 ¹ / ₂ in)	127 mm (5 in)	60.3 mm (2 ³ / ₈ in)	50.8 mm (2 in)

Drop Brackets

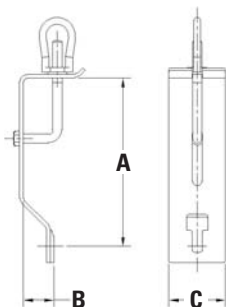
127 mm (5 in) and 152 mm (6 in) Channel

CEMA E



127 mm (5 in) Channel Drop Brackets

Part No.	A	B	C
338447	304 mm (12 in)	85.7 mm (3 ³ / ₈ in)	76.2 mm (3 in)
338448	330 mm (13 in)	85.7 mm (3 ³ / ₈ in)	76.2 mm (3 in)
314661	355 mm (14 in)	85.7 mm (3 ³ / ₈ in)	76.2 mm (3 in)



152 mm (6 in) Channel Drop Brackets

Part No.	A	B	C
338442	304 mm (12 in)	85.7 mm (3 ³ / ₈ in)	76.2 mm (3 in)
338443	330 mm (13 in)	85.7 mm (3 ³ / ₈ in)	76.2 mm (3 in)
338444	355 mm (14 in)	85.7 mm (3 ³ / ₈ in)	76.2 mm (3 in)



EXALON® Rolls

Reduce belt damage

Another Perfect Choice for Your Highly Corrosive and Abrasive Mining Operations

In addition to its world-class steel rolls, Caterpillar also offers a highly successful range of CEMA C-, D- and E-class rolls made of a proprietary high molecular weight polyethylene (HMWPE) called EXALON.

While steel rolls are effective in most bulk-material handling applications, some applications benefit from the use of the EXALON roll product. Applications with environments that are highly corrosive, abrasive, wet or have a tendency for material buildup on the roller are ideal for the EXALON roll and its additional features and benefits.

MSHA Certified

Tube-based, with higher concentricity further enhanced by final machining (poly-body) for reduced belt wear, the EXALON roll offers balanced, vibration-free running. These fully conductive rolls are MSHA-certified as safe for underground use. They have two certifications: IC-56/1 – flame-resistant and IC-56/2 – flame-resistant and static-dissipating.

EXALON Rolls

Extend belt life and reduce downtime



By extending belt life and reducing downtime, EXALON rolls deliver significant savings to mine operators.

Versatile, Low-Maintenance

EXALON rolls can be retrofitted to any frame – even those of competitors. Custom sizes can be ordered for special applications. EXALON heads are installed using a unique “spin-welding” method, creating a single-piece roll construction.

Tested for Quality

All Cat EXALON and steel rolls are processed through an automated assembly system, which tests and records rotational torque, total indicator run-out and axial end play. Upon acceptance, each idler roll is then permanently marked with a serial number and date of manufacture.





EXALON Rolls

Minimize belt friction and wear

EXALON Benefits

MSHA Certified

Certified for underground use:

- IC-56/1 – flame resistant and
- IC-56/2 – flame resistant and static dissipating.

Longer Shell Life

EXALON rolls last two to three times longer than steel rolls in highly corrosive and/or highly abrasive environments.

Low Maintenance

Cat Idler PAL ensures life-long grease management.

Reduced Belt Damage

The smooth PE surface minimizes belt friction and wear and acts as a slider bar in the event of a bearing seizure. The all-PE body means there are no sharp 'pizza cutter' edges.

Corrosion-proof

Being made of HMWPE, the EXALON roll is not subject to corrosion.

Sound Dampening

Reduce noise by up to 20%, particularly in underground applications.

Resistance to Material Buildup

The smooth, non-adhesive HMWPE surface resists material buildup.

Cost-efficient

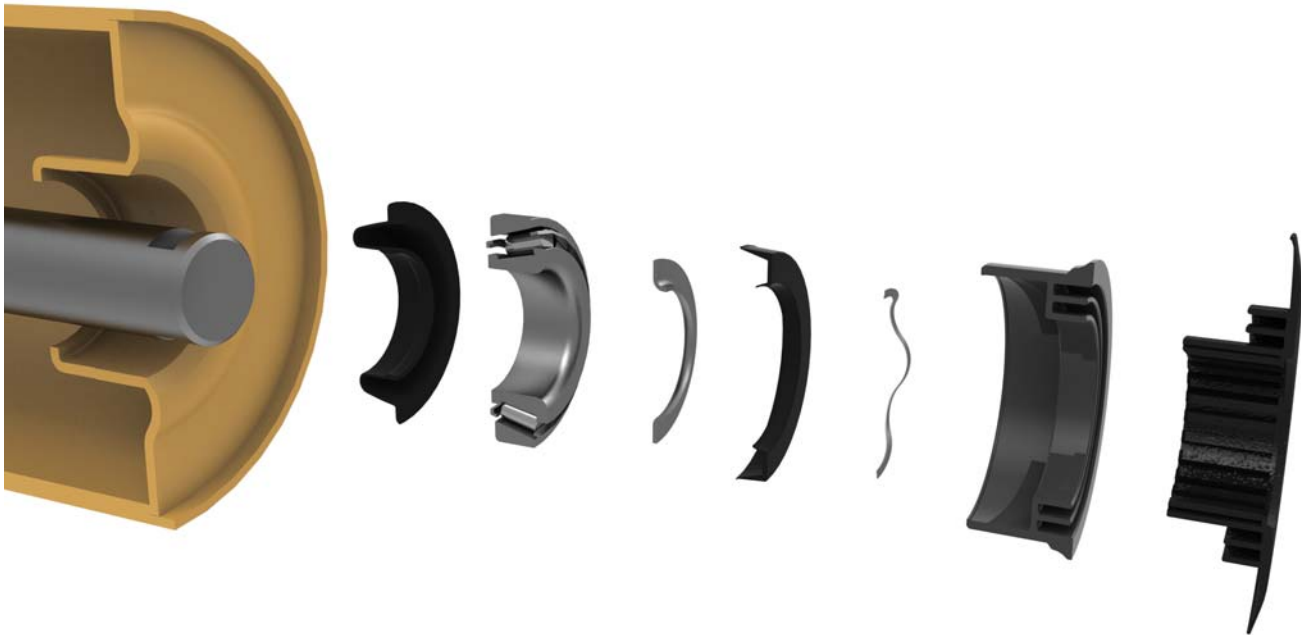
EXALON offers cost savings through extended life, reduced downtime, longer replacement intervals and reduced belt damage.

Versatile

The entire EXALON product line can be produced to fit any existing manufacturer's top-side and return frame assemblies.

Idler PAL

Grease stays where you need it



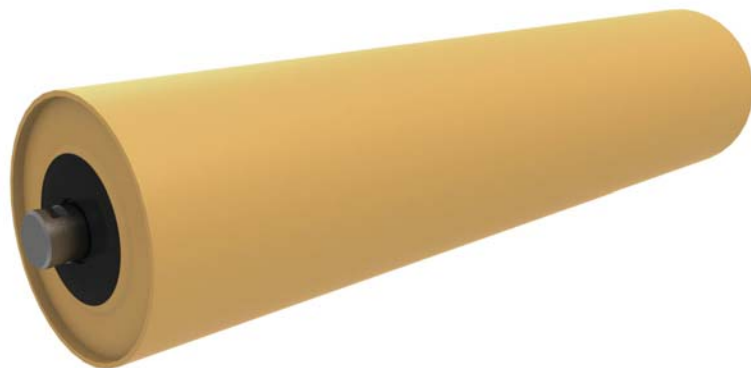
Greased for Life

Every roll has plenty of grease for a lifetime of trouble-free operation. Our automated assembly process includes three separate, metered grease inputs.

The Idler PAL bearing cavity design allows for extra lubricant capacity, which is unmatched in the industry and assures that the grease stays where you need it: in the bearing.

Idler PAL Positive Automatic Lubrication

- Grease moves due to taper of rolling elements in the bearing
- Grease expands due to increased bearing temperatures in operation
- The compensator disc moves outward, compressing the wave spring
- When rotation stops and grease contracts, the wave spring exerts slight pressure on the compensator disc, ensuring no voids in the grease





Steel Rolls

Retrofit our rolls into virtually any frame

Cat Steel Rolls

Easily replace rolls at your operation with our retrofitable steel rolls. The Cat roll design is the result of over two years of design and engineering effort and represents new technology in idler designs. Our shaft end configuration allows you to retrofit Cat rolls into virtually any competitor's frame with a unique retrofit adapter. Our end cap (bearing housing) has been redesigned for increased strength and a close fit to the deflector cap.

Electronic Quality Tracking

Accurately monitor roll life

Electronic Quality Tracking: An Industry First

Each shaft end is coded at time of assembly with:

- Day of the year
- Production year
- Individual serial number
- Automatic data recording of rotational torque, TIR (Total Indicated Runout) and bearing play of each individual roll is tied to the serial number



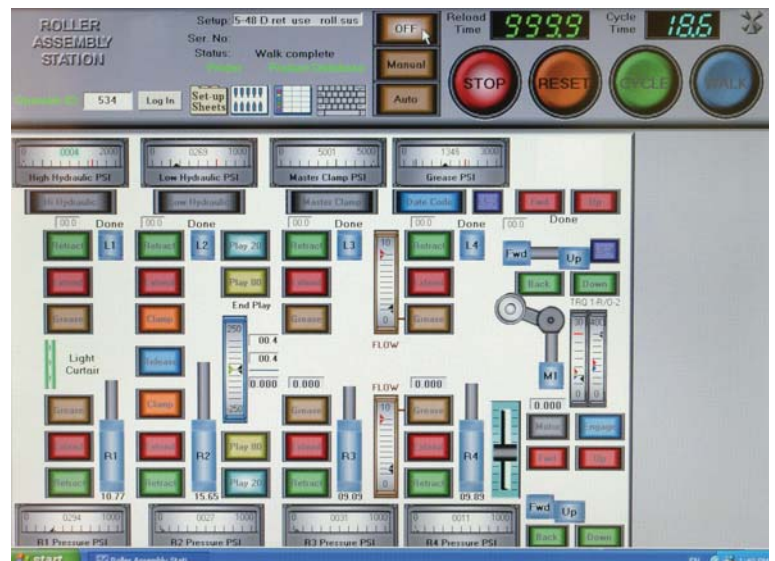
For example, this roll was assembled on the 85th day of 2005 and it was the 35th roll assembled that day.



Cat® steel rolls go through an automated five-stage assembly and testing process.



Caterpillar is the first idler manufacturer to offer individual serialized rolls as a standard. Now you can tell when the roll was manufactured, allowing accurate monitoring of roll life. No other idler manufacturer checks each roll for rotational torque, TIR and bearing play. Plus, each roll is “test run,” ensuring complete grease distribution throughout bearings and seals.



For more complete information on Cat products, dealer services,
and industry solutions, visit us on the web at **www.cat.com**

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