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Roach 251CALR Heavy-Duty Cam Adjusted Live Roller Conveyor

At a Glance

- Ideal for horizontal conveying where transfers, side loading or unloading, or temporary accumulation of heavier items
- Tread roller drive pressure adjusts in seconds
- Perfect for heavy-duty applications

Pricing

Call us at 888-318-0083

Many options are available. Complete details will need to be finalized to determine requirements and final system costs. Work with your Pro Pac representative to build this machine to your specifications.

Convey, Transfer, Load and Unload Heavy Items

The Roach 251CALR is the choice to horizontally convey heavier unit loads where transfers, side loading or unloading is required. Its standard center drive allows for reversible operation.

Specifications

Tread Rollers: 1.9" dia. x 16 ga. steel rollers, model 196S.
Pressure Rollers: 1.9" dia. x 16 ga. steel, model 196S, cam adjustable.
Belting: 6" wide black PVC-120 COS.
Center Drive: Reversible drive with 24" integral belt take-up. For units under 8'-0" overall length, drive components must be stacked. Consult factory for minimum unit elevation.
Squaring Rods: Adjustable rods on underside of bed allow frame to be squared for improved belt tracking and are standard on all units over 30'.
Drive Pulley: 4" dia. with 1-3/16" dia. shaft or 8" dia. with 1-7/16" dia. shaft, both crowned and fully lagged.
End Pulley: 4" dia., crowned, with 1-3/16" dia. shaft.
Return Rollers: 1.9" dia. x 16 ga. steel, model 196S, adjustable.
Bed: 7" x 1-1/2" x 12 ga. channel frame slotted for tread rollers to pop-out. When unit is installed at 7'-0" elevation or higher, rollers must be retained in conveyor frame. Specify desired elevation. Bed sections attached with couplings and floor supports.
Bearings: All pulley bearings are precision, heavy duty, lubricated, ball bearing units with cast iron housings.
Motor Drive: 1/3 HP, 230/460/3, 60 cycle, ODP right angle gear motor.

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Roller Chain: Drive pulley is driven by No. 50 roller chain for 1-1/2 HP or less and No. 60 chain on larger drives. Chain take-up provided on motor base.
Speed: 60 FPM, constant.
Electrical Controls: Optional.

Options

End Drive: Mounted underneath conveyor. Minimum possible height is 20" TOR for underneath mounted end drive. Belt take-up required for end drive (if substituting end drive for center drive).
Side Mounted End Drive: Provides overall conveyor height of 10". 192S
Tread Rollers: 1.9" dia. x 12 ga. steel tread rollers, model 192S, available in model 192CALR.
Galvanized Rollers: Both tread and pressure rollers available in galvanized steel, model 196G. Specify tread only or both tread and pressure rollers.
Auxiliary Take-Up: Provides 24" of belt take-up. Specify location.
Speed: Constant speed 3-120 FPM; DC variable speed; AC inverter variable speed. Other constant or variable speeds available. Note: Capacity changes with speed.
Belting: 6" wide black PVC-150; 12" wide PVC-120.
Guard Rails: 1-3/4" x 1" formed channel (model GC), adjusts horizontally to 8" wider than roller and vertically to 6" above roller; formed steel fixed (model FSG in 2", 4" and 6" heights; fixed channel (model FC); 1-1/2" angle (model GA1-1/2).
Ceiling Hangers: 5/8" dia. threaded rod with hardware to attach rods to conveyor. Provides 6' clearance between ceiling and TOR (furnished in place of floor supports).
Floor Supports: Supports, knee braces, casters and polytier supports available.
Motors: Available through 3 HP in TEFC, explosion proof, dirty duty, brake motor, 115/230/1, 575/3, etc.
Electrical Controls: Magnetic starter (one direction or reversible); One direction manual starter; Momentary start/stop push button station; Forward/reversing/stop push button station. Mounting and pre-wiring for units up to 12' long.

Please contact Pro Pac or call 888-318-0083 for your conveyors.

Horsepower & Drives

HP @ 35 FPM	A MAX	B MAX
1	17-5/8"	59-17/32"
1-1/2	18-1/8"	61-21/32"
2	19"	62-21/32"

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Roach 251CALR Conveyor Lengths & Unit Weights

Conveyor Length			10'	20'	30'	40'	50'	60'	70'	80'	90'	100'	Deduct
BF	OAW	BELT	Unit Weights (lbs) with 3" Roller Center										Per Foot
15"	18"	12'	852	1336	1821	2305	2790	3274	3759	4243	4728	5212	48
21"	24"	12'	1052	1645	2239	2832	3425	4019	4612	5206	5799	6392	59
27"	30"	12'	1252	1954	2657	3359	4061	4763	5466	6168	6870	7573	70
33"	36"	12'	1452	2263	3074	3886	4697	5508	6319	7130	7942	8753	81
39"	42"	12'	1652	2572	3492	4412	5333	6253	7173	8093	9013	9933	92
43"	46"	12'	1852	2881	3910	4939	5968	6997	8026	9055	10084	11113	103
51"	54"	12'	2052	3190	4328	5466	6604	7742	8880	10018	11156	12294	114
57"	60"	12'	2252	3499	4746	5993	7240	8486	9733	10980	12227	13474	125

Roach 251CALR Conveyor Unit Weights for Other than 3" Centers

Tread Roller Centers	15" BF	21" BF	27" BF	33" BF	39" BF	45" BF	51" BF	57" BF
	Deduct the following weights (lbs) for other than 3" centers							
	Per 10'	Per 10'	Per 10'	Per 10'	Per 10'	Per 10'	Per 10'	Per 10'
4-1/2"	-108	-136	-174	-208	-240	-272	-304	-336
6"	-178	-228	-292	-348	-402	-456	-510	-564
9"	-240	-308	-394	-470	-544	-618	-692	-766
12"	-266	-342	-438	-522	-602	-682	-762	-842

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