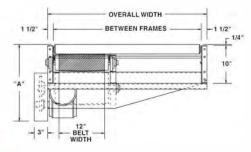
# MODEL 251CALR HEAVY DUTY CAM ADJUSTED LIVE ROLLER

## 24 HOUR SHIPMENTS INCLUDE ALL 1-FOOT INCREMENTS 6'-0" TO 100'-0"

Conveyor shown with optional supports

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.



-12 *		TREAD ROLLERS	- RETURN ROLLER		
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6.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					
4" DIA. END PULLEY	10 10 10 10 10 10 10 10 10 10 10 10 10 1			4" DIA.	
4" DIA. END PULLEY	4" DIA. TAKE-UP PULLEY	ZT ISound		ND PULLEY	
	8" DIA. DRIVE PULL	EY			
10		В			

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"		

NOTE: Chart applies for 8" dia. drive pulley only.

### **SPECIFICATIONS**

**TREAD ROLLERS:** 2-1/2" dia. x 11 ga. steel, model 251S.

**PRESSURE ROLLERS:** 1.9" dia. x 16 ga. steel, model 196S; same BF as conveyor up to 39" BF; units 43" BF and above, rollers are 21" BF with STANDARD 12" wide belt; 27" BF if OPTIONAL 24" belt is used.

BELTING: 12" wide PVC-120.

**RETURN ROLLERS:** 1.9" dia. x 16 ga. steel, model 196S, adjustable.

**CENTER DRIVE:** Reversible drive with 24" integral belt take-up. Specify location. For units under 8'-0" overall length, drive components must be stacked.

**END PULLEY:** 4" dia. with 1-3/16" dia. shaft on 15"-39" BF; 6" dia. with 1-7/16" dia. shaft above 39" BF; both crowned.

**DRIVE PULLEY:** 8" dia. with 1-7/16" dia. shaft on 15"-39" BF; 12" dia. with 1-15/16" dia. shaft above 39" BF; both crowned and fully lagged.

**BEARINGS:** Precision ABEC bearings.

**BED:**  $7'' \ge 1 \cdot 1/2'' \ge 10$  ga. formed steel channel frame slotted for tread rollers to pop-out. When unit is installed at  $7' \cdot 0''$ elevation or higher, rollers must be retained in conveyor frame. Specify desired elevation. Bed sections attached with couplings and floor supports. **MOTOR DRIVE:** 1 HP, 230/460/3, 60 cycle, ODP right angle gear motor.

SPEED: 35 FPM, constant.

**ROLLER CHAIN:** Drive pulley is driven by No. 50 chain for 1-1/2 HP or less and No. 60 chain on larger drives. Chain take-up provided on motor base.

ELECTRICAL CONTROLS: Optional.



#### AWARNING

Pop-out rollers should be retained in frame if unit is elevated to 7'-0'' and above.

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## SPECIFICATION TABLE

24 hour shipment 3 week shipment

EYOR LI	NGTH	10′	20′	30′	40'	50'	60′	70′	80′	90'	100'	Deduct
OAW	BELT	UNIT	UNIT WEIGHTS (lbs.) with 3" Roller Centers (For other centers, deduct weights below)								below)	Per Foot
18″	12′	852	1336	1821	2305	2790	3274	3759	4243	4728	5212	48
24″	12′	1052	1645	2239	2832	3425	4019	4612	5206	5799	6392	59
30″	12′	1252	1954	2657	3359	4061	4763	5466	6168	6870	7573	70
36″	12′	1452	2263	3074	3886	4697	5508	6319	7130	7942	8753	81
42″	12′	1652	2572	3492	4412	5333	6253	7173	8093	9013	9933	92
46″	12′	1852	2881	3910	4939	5968	6997	8026	9055	10084	11113	103
54″	12′	2052	3190	4328	5466	6604	7742	8880	10018	11156	12294	114
60″	12″	2252	3499	4746	5993	7240	8486	9733	10980	12227	13474	125
	0AW 18" 24" 30" 36" 42" 46"	18" 12'   24" 12'   30" 12'   36" 12'   42" 12'   46" 12'   54" 12'	OAW BELT UNIT   18" 12' 852   24" 12' 1052   30" 12' 1252   36" 12' 1452   42" 12' 1652   46" 12' 1852   54" 12' 2052	OAW BEIT UNIT FIGHTS   18" 12' 852 1336   24" 12' 1052 1645   30" 12' 1252 1954   36" 12' 1452 2263   42" 12' 1652 2572   46" 12' 1852 2881   54" 12' 2052 3190	OAW BELT UNIT FEGHTS (Ibs.) w   18" 12' 852 1336 1821   24" 12' 1052 1645 2239   30" 12' 1252 1954 2657   36" 12' 1452 2263 3074   42" 12' 1652 2572 3492   46" 12' 1852 2881 3910   54" 12' 2052 3190 4328	OAW BELT UNIT VEIGHTS (Ibs.) with 3" Reference of the second sec	OAW BELT UNIT VEIGHTS (Ibs.) with 3" Reference   18" 12' 852 1336 1821 2305 2790   24" 12' 1052 1645 2239 2832 3425   30" 12' 1252 1954 2657 3359 4061   36" 12' 1452 2263 3074 3886 4697   42" 12' 1652 2572 3492 4412 5333   46" 12' 1852 2881 3910 4939 5968   54" 12' 2052 3190 4328 5466 6604	OAW BELT UNIT VEIGHTS Ubs.) view 3" Relet Centers For   18" 12' 852 1336 1821 2305 2790 3274   24" 12' 1052 1645 2239 2832 3425 4019   30" 12' 1252 1954 2657 3359 4061 4763   36" 12' 1452 2263 3074 3886 4697 5508   42" 12' 1652 2572 3492 4412 5333 6253   46" 12' 1852 2881 3910 4939 5968 6997   54" 12' 2052 3190 4328 5466 6604 7742	OAW BELT UNIT VEIGHTS (lbs.) with 3" Roller Centres (For other centres)   18" 12' 852 1336 1821 2305 2790 3274 3759   24" 12' 1052 1645 2239 2832 3425 4019 4612   30" 12' 1252 1954 2657 3359 4061 4763 5466   36" 12' 1452 2263 3074 3886 4697 5508 6319   42" 12' 1652 2572 3492 4412 5333 6253 7173   46" 12' 1852 2881 3910 4939 5968 6997 8026   54" 12' 2052 3190 4328 5466 6604 7742 8880	OAW BELT UNIT VEIGHTS with 3" Roler Centre Centre Centre centres, deduted in the centre of the centre centres, deduted in the centres	OAW BEIT UNIT VEIGHTS (lbs.) with 3" Role Centers (For Centers, decuters, decuters)   18" 12' 852 1336 1821 2305 2790 3274 3759 4243 4728   24" 12' 1052 1645 2239 2832 3425 4019 4612 5206 5799   30" 12' 1252 1954 2657 3359 4061 4763 5466 6168 6870   36" 12' 1452 2263 3074 3886 4697 5508 6319 7130 7942   42" 12' 1652 2572 3492 4412 5333 6253 7173 8093 9013   46" 12' 1852 2881 3910 4939 5968 6997 8026 9055 10084   54" 12' 2052 3190 4328 5466 6604 7742 8880 10018 11156	OAW BELT UNIT VEIGHTS Ubs., view 3" Roler Centers Ubs., view 3" Role Science Ubs., view 3" Roles Ubs., view 3" Rol

Deduct the following weights (lbs.) for other than 3" centers

Tread	15″ BF	21″ BF	27" BF	33" BF	39" BF	45″ BF	51" BF	57" BF
Roller Centers	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

# **OPTIONAL EQUIPMENT**

**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 14-1/4". Specify elevation required on order.

**AUXILIARY TAKE-UP:** Provides 24" of belt take-up. Specify location. See Power Accessories.

**GUARD RAILS:** Formed steel fixed model HFSG in 2", 4" and 6" heights; 1-1/2" angle model HGA1-1/2). See Conveyor Accessories.

**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). Consult factory.

**BELTING:** 12" wide black PVC-150; 24" wide PVC-120.

FLOOR SUPPORTS: Supports, knee braces, casters and polytier supports available. See Conveyor Accessories.

SPEED: Constant speed 8-120 FPM (12" dia. drive pulley); DC variable speed; AC inverter variable speed. Other constant or variable speeds available. NOTE: CAPACITY CHANGES WITH SPEED.

**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; For-ward/ reversing /stop push button station. Mounting and pre-wiring for units up to 12' long.



CALR CAM AND SERIAL PLATE

