

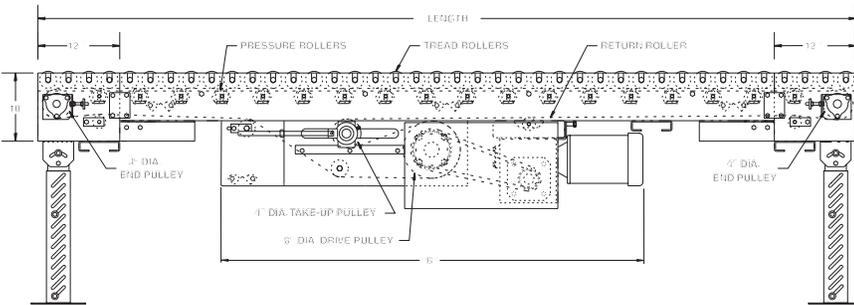
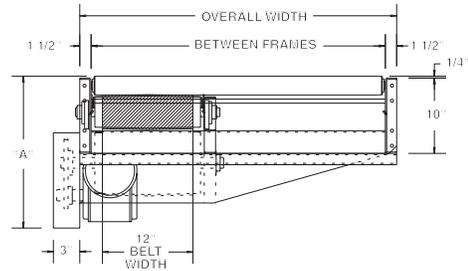
MODEL 251CALR HEAVY DUTY CAM ADJUSTED LIVE ROLLER

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.



| HP @ 35 FPM | "A" | "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: All pulley bearings are precision, heavy duty, lubricated, ball bearing units with cast iron housings.

BED: 7" x 1-1/2" x 10 ga. formed steel 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.

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.



WARNING

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

■ 24 hour shipment ■ 3 week shipment

SPECIFICATION TABLE

| CONVEYOR LENGTH | | | 6' | 10' | 15' | 20' | 25' | 30' | 40' | 50' | 60' | 70' | 80' | 90' | 100' |
|-----------------|-----|------|--|------|------|------|------|------|------|------|------|------|-------|-------|-------|
| BF | OAW | BELT | Unit weights (lbs.) with 3" roller centers (For other centers, deduct weights below) | | | | | | | | | | | | |
| 15" | 18" | 12" | 572 | 762 | 1036 | 1274 | 1548 | 1786 | 2298 | 2810 | 3322 | 3834 | 4346 | 4858 | 5370 |
| | 21" | 12" | 661 | 894 | 1221 | 1513 | 1840 | 2132 | 2751 | 3370 | 3989 | 4608 | 5227 | 5846 | 6465 |
| | 27" | 12" | 770 | 1055 | 1453 | 1810 | 2208 | 2565 | 3320 | 4075 | 4830 | 5585 | 6340 | 7095 | 7850 |
| | 33" | 12" | 872 | 1197 | 1663 | 2079 | 2541 | 2956 | 3833 | 4710 | 5587 | 6464 | 7341 | 8218 | 9095 |
| 39" | 42" | 12" | 968 | 1345 | 1863 | 2335 | 2853 | 3325 | 4315 | 5305 | 6295 | 7285 | 8275 | 9265 | 10255 |
| | 43" | 12" | 1064 | 1493 | 2063 | 2591 | 3165 | 3694 | 4797 | 5900 | 7003 | 8106 | 9209 | 10312 | 11415 |
| | 51" | 12" | 1160 | 1641 | 2263 | 2847 | 3477 | 4063 | 5279 | 6495 | 7711 | 8927 | 10143 | 11359 | 12575 |
| | 57" | 12" | 1256 | 1789 | 2463 | 3103 | 3789 | 4432 | 5761 | 7090 | 8419 | 9748 | 11077 | 12406 | 13735 |

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

| TREAD ROLLER CENTERS | 15" BF | 21" BF | 27" BF | 33" BF | 39" BF | 45" BF | 51" BF | 57" BF |
|----------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 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; Forward/reversing /stop push button station. Mounting and pre-wiring for units up to 12' long.



CALR CAM AND SERIAL PLATE