



## Professional Packaging Systems

2010 S. Great Southwest Parkway  
Grand Prairie, Texas 75051  
[www.ProPac.com](http://www.ProPac.com)

## Contact

Our Packaging Experts  
[solutions@propac.com](mailto:solutions@propac.com)  
888-318-0083

# Roach SZD251CDA Chain Driven Zero Pressure Accumulator Smart Zone Heavy-Duty Conveyor

## At a Glance

- Roll-to-roll chain driven zero pressure accumulator
- Accumulates heavy-duty loads in 5 foot zones
- Safely accumulate heavy products such as castings, drums, containers and heavy pallet loads
- Photo electric sensors prevent products from touching during accumulation

## 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.



## Heavy Duty Roll-to-Roll Chain Driven Zero Pressure Accumulator

The Roach SZD251CDA Smart Zone conveyor is a heavy-duty roll-to-roll chain driven zero pressure accumulator, designed to safely accumulate heavy products such as castings, drums, containers and heavy pallet loads in 5' zones. The Roach design incorporates photo electric sensors - instead of sensor rollers - which eliminates many of the problems associated with conveying wooden pallets. Products do not touch during accumulation and are singulated individually off of conveyor. Smart Zone is easy to install and simple to maintain.

## Specifications

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

**Chain Drive:** Roller-to-roller No. 40 roller chain. Zone-to-zone No. 60 roller chain.

**Center Drive:** Drive either side mounted or underside mounted (specify). Drive shafts are supported by precision, heavy duty, lubricated, ball bearing units.

**Roller Centers:** 4" or 6" only.

**Bed:** 7" x 1-1/2" x 7 ga. and 5" x 1-1/2" x 7 ga. formed steel channel frame. Bed sections bolted together with butt couplings and floor supports.

**Accumulation Zone:** 5'-0" zone lengths, zone singulation operation, photo electric sensor controlled zones with air clutch. (60 psi max)

**Speed:** 35 FPM, constant.

**Chain Guard:** Chains are completely enclosed along entire length of conveyor.

**Bearings:** Precision ABEC bearings.

**Motor Drive:** 3/4 HP, 230/460/3, 60 cycle, ODP right angle gear motor.

**Capacity:** 1000 lbs./ft. up to a maximum of 3000 lb. pallet.

**Power Supply Panel:** Nema 12 enclosure with 20Amp main disconnect and contactor. Control transformer. 24vdc power supply. Mounted and wired on conveyor. Customer to supply 480 V 3Ph 20Amp power, relay contacts closure from emergency stop relay. E-stop push buttons and pull cord switches are not supplied.

**Zone Components:** Line mounted starter with overload relay prewired to motor.

**Zone to Zone Wiring:** All zones prewired. Customer must reconnect cables at conveyor bed joints.

## Options

**Zone Lengths:** 3' through 10' in 4" or 6" increments as per roller centers and zone chain pitch. Frame lengths will vary with zone lengths.

**Bed:** 7" x 9.8 lbs./ft. and 5" x 6.7 lbs./ft. structural frames.

**Tread Rollers:** 2-9/16" x 7 ga. steel, model 297S tread rollers.

**Floor Supports:** Supports, knee braces, casters and polytier supports available.

**Speed:** Constant speed 20-120 FPM; DC variable speed; AC inverter variable speed. Other constant or variable speeds available. Minimum unit speed is 20 FPM for model CDA. Note: Capacity changes with speed.

**Motors:** Available through 3 HP in TEFC, explosion proof, dirty duty, brake motor, 115/230/1, 575/3, etc.

**Defused Smart Zone:** Photoeyes mounted below tread rollers.

Please [contact Pro Pac](#) or call 888-318-0083 for your conveyors.

# Roach SZD251CDA Conveyor Lengths & Unit Weights

| Conveyor Length |         | 10'                                       | 20'  | 30'  | 40'  | 50'  | 60'  | 70'  | 80'   | 90'   | 100'  |
|-----------------|---------|---|------|------|------|------|------|------|-------|-------|-------|
| BF              | Surface | Unit Weights (lbs) with 4" Roller Centers |      |      |      |      |      |      |       |       |       |
| 15"             | 12"     | 869                                       | 1557 | 2246 | 2934 | 3623 | 4311 | 5000 | 5688  | 6377  | 7066  |
| 21"             | 18"     | 958                                       | 1728 | 2497 | 3266 | 4036 | 4805 | 5574 | 6344  | 7113  | 7882  |
| 27"             | 24"     | 1063                                      | 1926 | 2789 | 3653 | 4516 | 5379 | 6242 | 7105  | 7975  | 8845  |
| 33"             | 30"     | 1151                                      | 2108 | 3057 | 4005 | 4954 | 5903 | 6851 | 7806  | 8756  | 9706  |
| 39"             | 36"     | 1246                                      | 2271 | 3297 | 4322 | 5348 | 6373 | 7399 | 8424  | 9454  | 10484 |
| 45"             | 42"     | 1342                                      | 2453 | 3565 | 4676 | 5787 | 6899 | 8011 | 9122  | 10242 | 11362 |
| 51"             | 48"     | 1427                                      | 2615 | 3802 | 4990 | 6178 | 7365 | 8553 | 9741  | 10941 | 12141 |
| 54"             | 51"     | 1475                                      | 2661 | 3936 | 5167 | 6398 | 7628 | 8859 | 10090 | 11315 | 12540 |
| 57"             | 54"     | 1523                                      | 2707 | 4705 | 3446 | 6187 | 8919 | 1651 | 10439 | 11689 | 12939 |
| 63"             | 60"     | 1620                                      | 2980 | 4339 | 5699 | 7059 | 8418 | 9778 | 11138 | 12508 | 13878 |
| Conveyor Length |         | 10'                                       | 20'  | 30'  | 40'  | 50'  | 60'  | 70'  | 80'   | 90'   | 100'  |
| BF              | Surface | Unit Weights (lbs) with 6" Roller Centers |      |      |      |      |      |      |       |       |       |
| 15"             | 12"     | 811                                       | 1441 | 2073 | 2701 | 3331 | 3961 | 4591 | 5221  | 5851  | 6481  |
| 21"             | 18"     | 887                                       | 1587 | 2290 | 2993 | 3696 | 4399 | 5003 | 5707  | 6411  | 7117  |
| 27"             | 24"     | 963                                       | 1726 | 2489 | 3253 | 4016 | 4779 | 5542 | 6305  | 7078  | 7851  |
| 33"             | 30"     | 1039                                      | 1868 | 2697 | 3525 | 4354 | 5183 | 6011 | 6840  | 7674  | 8508  |
| 39"             | 36"     | 1116                                      | 2011 | 2907 | 3802 | 4698 | 5839 | 6489 | 7384  | 8288  | 9192  |
| 45"             | 42"     | 1192                                      | 2153 | 3115 | 4076 | 5037 | 5999 | 6961 | 7922  | 8896  | 9870  |
| 51"             | 48"     | 1267                                      | 2295 | 3322 | 4350 | 5308 | 6405 | 7433 | 8461  | 9495  | 10529 |
| 54"             | 51"     | 1305                                      | 2321 | 3407 | 4487 | 5513 | 6608 | 7669 | 8730  | 9809  | 10888 |
| 57"             | 54"     | 1343                                      | 2347 | 3530 | 4624 | 5718 | 6811 | 7905 | 8999  | 10123 | 11247 |
| 63"             | 60"     | 1420                                      | 2550 | 3739 | 4899 | 6051 | 7218 | 8378 | 9538  | 10732 | 11926 |

Please [contact Pro Pac](#) or call 888-318-0083 for your conveyors.