



## Professional Packaging Systems

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## Contact

Our Packaging Experts  
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# Roach 251S Structural 11 Gauge Steel Gravity Roller Conveyors

## At a Glance

- 2-1/2 inch diameter x 11 gauge steel rollers
- Straight and curved models
- Several widths

## 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.



## Straight and Curved Model Numbers

**Straight Section Model Number 251S-45-6-L-9-S:**

251S-(between frames)-(roller centers)-(set high or low)-(length)-(structural frame)

**Curved Section Model Number 251SC-31-H-90-S:**

251SC-(between frames)-(set high or low)-(degree)-(structural frame)

## Specifications

**Rollers:** 2-1/2" x 11 gauge steel tubing, model 251S, with flanged type bearings pressed into straight ends.

**Roller Capacity:** 540 lbs. per roller.

**Bearings:** Precision ABEC bearings.

**Frames:** 4" at 5.4 lbs. structural steel painted channel.

**Frame Capacity:** 3750 lbs. maximum distributed live load per 10' section with supports at 10' centers; 8000 lbs. at 5' centers.

**Couplings:** Butt type.

**Axles:** 11/16" hex shaft, spring loaded.

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## Straight Section (Wt Lbs)

| Nominal<br>Roller Length | Between<br>Frames | 3"        | 3"       | 4.5"      | 4.5"     | 6"        | 6"       | 9"        | 9"       | 12"       | 12"      |
|--------------------------|-------------------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|
|                          |                   | RC<br>10' | RC<br>5' | RC<br>10' | RC<br>5' | RC<br>10' | RC<br>5' | RC<br>10' | RC<br>5' | RC<br>10' | RC<br>5' |
| *8"                      | *9"               | 303       | 153      | 257       | 131      | 234       | 108      | 186       | 96       | 167       | 84       |
| 12"                      | 13"               | 365       | 185      | 304       | 155      | 263       | 125      | 209       | 108      | 184       | 95       |
| 14"                      | 15"               | 396       | 203      | 328       | 168      | 270       | 135      | 223       | 116      | 192       | 101      |
| 16"                      | 17"               | 429       | 219      | 353       | 181      | 278       | 143      | 234       | 121      | 202       | 105      |
| 18"                      | 19"               | 460       | 235      | 377       | 193      | 294       | 152      | 246       | 128      | 211       | 111      |
| 20"                      | 21"               | 491       | 251      | 400       | 206      | 311       | 161      | 258       | 135      | 220       | 116      |
| 22"                      | 23"               | 524       | 267      | 446       | 218      | 328       | 169      | 271       | 141      | 232       | 121      |
| 22"                      | 23"               | 524       | 267      | 446       | 218      | 328       | 169      | 271       | 141      | 232       | 121      |
| 24"                      | 25"               | 555       | 284      | 450       | 232      | 345       | 179      | 282       | 148      | 239       | 126      |
| 26"                      | 27"               | 582       | 297      | 470       | 241      | 358       | 185      | 291       | 151      | 245       | 128      |
| 30"                      | 31"               | 646       | 330      | 518       | 266      | 390       | 202      | 317       | 166      | 263       | 138      |
| 32"                      | 33"               | 678       | 346      | 543       | 279      | 408       | 212      | 338       | 172      | 272       | 144      |
| 36"                      | 37"               | 739       | 378      | 589       | 303      | 440       | 228      | 351       | 184      | 290       | 153      |
| 38"                      | 39"               | 770       | 394      | 613       | 315      | 456       | 247      | 363       | 190      | 299       | 168      |
| 42"                      | 43"               | 833       | 426      | 661       | 340      | 486       | 254      | 387       | 203      | 317       | 179      |
| 44"                      | 45"               | 864       | 443      | 685       | 353      | 501       | 263      | 399       | 209      | 326       | 185      |
| 46"                      | 47"               | 895       | 459      | 709       | 365      | 516       | 272      | 411       | 216      | 335       | 191      |
| 50"                      | 51"               | 958       | 491      | 757       | 389      | 546       | 289      | 435       | 228      | 353       | 202      |

\*9" BF straight sections furnished with spring loaded shafts in set high position only.

## Curved Section (Wt Lbs)

## Curved Section (Wt Lbs)

| Nominal Roller Length | Between Frames | Curve Inside Radius | Curve Roller Design | 90° Rollers Per Curve | 90° Wt. lbs. | 45° Rollers Per Curve | 45° Wt. lbs. |
|-----------------------|----------------|---------------------|---------------------|-----------------------|--------------|-----------------------|--------------|
| *8"                   | *9"            | -                   | -                   | -                     | -            | -                     | -            |
| 12"                   | 13"            | 2'-8-1/2"           | Single              | 18                    | 196          | 9                     | 99           |
| 14"                   | 15"            | 2'-8-1/2"           | Single              | 18                    | 212          | 9                     | 107          |
| 16"                   | 17"            | 2'-8-1/2"           | Single              | 18                    | 227          | 9                     | 115          |
| 18"                   | 19"            | 2'-8-1/2"           | Single              | 18                    | 243          | 9                     | 122          |
| 20"                   | 21"            | 2'-8-1/2"           | Single              | 18                    | 259          | 9                     | 131          |
| 22"                   | 23"            | 2'-8-1/2"           | Single              | 18                    | 275          | 9                     | 138          |
| 24"                   | 25"            | 2'-8-1/2"           | Single              | 18                    | 290          | 9                     | 146          |
| 26"                   | 27"            | 2'-8-1/2"           | Single              | 18                    | 306          | 9                     | 154          |
| 30"                   | 31"            | 4'                  | Double              | 40                    | 441          | 20                    | 237          |
| 32"                   | 33"            | 4'                  | Double              | 40                    | 460          | 20                    | 257          |
| 36"                   | 37"            | 4'                  | Double              | 40                    | 495          | 20                    | 265          |
| 38"                   | 39"            | 4'                  | Double              | 40                    | 513          | 20                    | 276          |
| 42"                   | 43"            | 4'                  | Double              | 40                    | 550          | 20                    | 297          |
| 44"                   | 45"            | 4'                  | Double              | 40                    | 568          | 20                    | 306          |
| 46"                   | 47"            | 4'                  | Double              | 40                    | 586          | 20                    | 316          |
| 50"                   | 51"            | 4'                  | Double              | 40                    | 622          | 20                    | 336          |

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