

4 | What type of rack?

Rack and pinion connects the vent to the shaft. As the drive unit turns the shaft, the rack pushes the vent open or pulls it closed.

What type of rack should I use?

- **Curved Rack** can give you extra clearance when space is tight and the rack might interfere with a curtain or aisle
- **Straight Rack** is used in most applications

What rack material do I need?

- **Aluminum Rack** is used in most applications
- **Steel Rack** is generally used for open roof greenhouses that need extra strength

How is the rack spaced?

Rack is usually placed every 6' to 7'. There should be 6" of rack when the vent is fully open. All models have 6" of rack movement per revolution of drive shaft.



Aluminum Rack and Pinion Features:

- Zinc pinion gear with shoulders to bear the weight and extend the life of the gear
- To extend life even further, lubricate once a year with Magna Lube, White Lithium Grease or a graphite-based spray lubricant
- Wide housing allows for unavoidable movement in the vents
- Unique design prevents binding
- Easy alignment: racks work even when the vent is not perfectly square
- Freedom from corrosion: stainless clevis pins, cotter pins, set screws, cast sash brackets and tough Nylatron bearings
- Precision-cut teeth on the PowerRack arms minimize sharp edges, assuring smooth operation
- Holes in the pinion housing are punched with a stamping tool to maintain exact spacing
- The PowerRack arm and housing are manufactured from aluminum alloy for strength and freedom from corrosion
- Wide load-bearing surfaces
- Replaceable parts

Straight PowerRack Models:

Length	Shaft	Shipping Wt	Part #
18"	1-3/8"	1.25 lb / 0.6 kg	M-2618
18"	1-5/8"	1.25 lb / 0.6 kg	M-2718
28"	1-3/8"	2.10 lb / 0.95 kg	M-2628
28"	1-5/8"	2.10 lb / 0.95 kg	M-2728
36"	1-3/8"	2.40 lb / 1.09 kg	M-2636
36"	1-5/8"	2.40 lb / 1.09 kg	M-2736
42"	1-3/8"	2.50 lb / 1.13 kg	M-2642
42"	1-5/8"	2.50 lb / 1.13 kg	M-2742
48"	1-3/8"	2.55 lb / 1.16 kg	M-2648
48"	1-5/8"	2.55 lb / 1.16 kg	M-2748
53"	1-3/8"	2.60 lb / 1.18 kg	M-2653
53"	1-5/8"	2.60 lb / 1.18 kg	M-2753
66"	1-3/8"	2.95 lb / 1.34 kg	M-2666
66"	1-5/8"	2.95 lb / 1.34 kg	M-2766
72"	1-3/8"	3.10 lb / 1.41 kg	M-2672
72"	1-5/8"	3.10 lb / 1.41 kg	M-2772

Curved PowerRack Models:

Length	Shaft	Shipping Wt	Part #
28"	1-3/8"	2.10 lb / 0.95 kg	M-2828
28"	1-5/8"	2.10 lb / 0.95 kg	M-2928
36"	1-3/8"	2.40 lb / 1.09 kg	M-2836
36"	1-5/8"	2.40 lb / 1.09 kg	M-2936
42"	1-3/8"	2.50 lb / 1.13 kg	M-2842
42"	1-5/8"	2.50 lb / 1.13 kg	M-2942
48"	1-3/8"	2.55 lb / 1.16 kg	M-2848
48"	1-5/8"	2.55 lb / 1.16 kg	M-2948
53"	1-3/8"	2.60 lb / 1.18 kg	M-2853
53"	1-5/8"	2.60 lb / 1.18 kg	M-2953
66"	1-3/8"	2.95 lb / 1.34 kg	M-2866
66"	1-5/8"	2.95 lb / 1.34 kg	M-2966
72"	1-3/8"	3.10 lb / 1.41 kg	M-2872
72"	1-5/8"	3.10 lb / 1.41 kg	M-2972