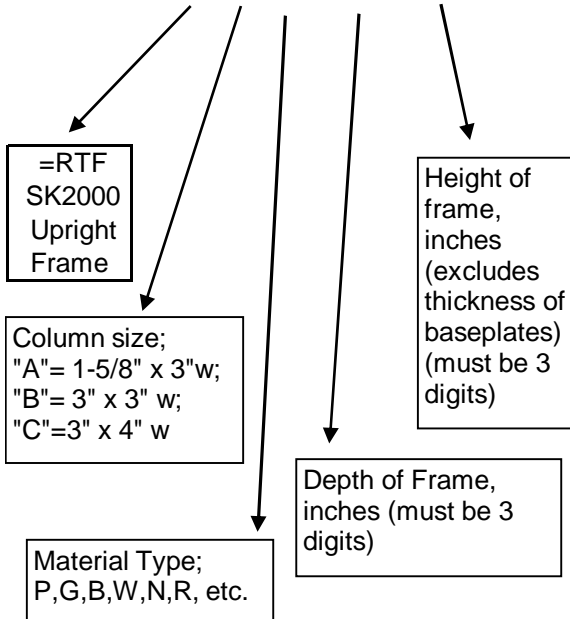


# SK2000 Boltless Tubular Pallet Rack

## Model Number System

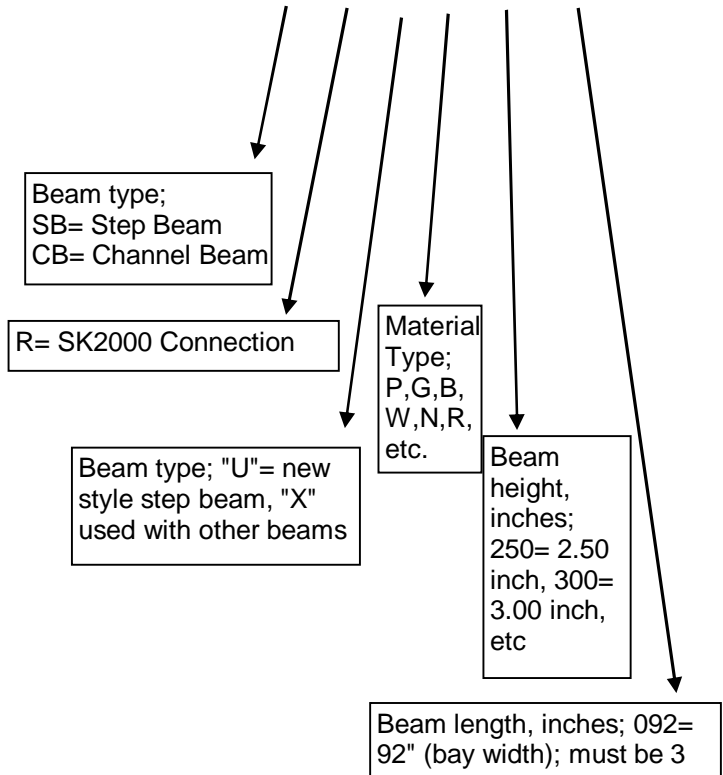
### Upright Frames

**RTF B P 030 096**



### Step Beams

**SB R U P 300 092**



### **STEEL KING POWDER COAT PAINT ADVANTAGE**

SK2000 Boltless Tubular Pallet Rack is painted with a high-durability POWDER COAT paint finish. Powder coated products offer better resistance to water and corrosion, better gloss, hardness, and adhesion. In fact, Steel King powder coated products give you:

- 60% GREATER RESISTANCE TO SOLVENTS
- 74% GREATER RESISTANCE TO SALT SPRAY
- 94% GREATER IMPACT RESISTANCE

As a Steel King dealer, this means that your customer's equipment looks better, arrives in better shape with fewer freight claims, requires less maintenance, and lasts longer. Selling Steel King powder coated products is better for the environment too, because unlike liquid paints, powder coat paints do not emit fumes into the air and generates less waste.





**Steel King Industries Inc.**  
**SK2000 Tubular BOLTLESS Pallet Rack Upright Frame Capacity Chart**  
 6/1/2011



<b>Upright Frame Post Type:</b>	<b>RTFAP</b>	<b>RTFAG</b>	<b>RTFBP</b>	<b>RTFBG</b>	<b>RTFBB</b>	<b>RTFBW</b>	<b>RTFCP</b>	<b>RTFCG</b>	<b>RTFCB</b>	<b>RTFCW</b>
Nom. Post Size:	3" x 1-5/8"	3" x 1-5/8"	3" x 3"	3" x 3"	3" x 3"	3" x 3"	4" x 3"	4" x 3"	4" x 3"	4" x 3"
<b>MAX vertical Beam Spacing:</b>										
<b>36"</b>	<b>22,780#</b>	<b>27,790#</b>	<b>31,340#</b>	<b>41,430#</b>	<b>50,330#</b>	<b>57,480#</b>	<b>39,680#</b>	<b>53,390#</b>	<b>66,150#</b>	<b>75,740#</b>
42"	22,780#	27,790#	28,940#	38,220#	46,400#	52,950#	37,740#	50,760#	62,870#	71,960#
<b>48"</b>	<b>20,480#</b>	<b>25,040#</b>	<b>26,390#</b>	<b>34,830#</b>	<b>42,240#</b>	<b>48,160#</b>	<b>35,630#</b>	<b>47,900#</b>	<b>59,290#</b>	<b>67,830#</b>
54"	18,140#	22,150#	23,780#	31,350#	37,980#	43,250#	33,370#	44,840#	55,480#	63,430#
<b>60"</b>	<b>15,830#</b>	<b>19,300#</b>	<b>21,160#</b>	<b>27,870#</b>	<b>33,720#</b>	<b>38,360#</b>	<b>31,020#</b>	<b>41,660#</b>	<b>51,510#</b>	<b>58,850#</b>
66"	13,620#	16,590#	18,600#	24,470#	29,570#	33,590#	28,610#	38,400#	47,450#	54,180#
<b>72"</b>	<b>11,540#</b>	<b>14,030#</b>	<b>16,150#</b>	<b>21,220#</b>	<b>25,600#</b>	<b>29,050#</b>	<b>26,190#</b>	<b>35,120#</b>	<b>43,370#</b>	<b>49,480#</b>
78"	9,830#	11,950#	13,830#	18,150#	21,880#	24,800#	23,780#	31,880#	39,330#	44,840#
<b>84"</b>	<b>8,470#</b>	<b>10,300#</b>	<b>11,920#</b>	<b>15,650#</b>	<b>18,870#</b>	<b>21,390#</b>	<b>21,440#</b>	<b>28,710#</b>	<b>35,390#</b>	<b>40,310#</b>
90"	7,380#	8,980#	10,390#	13,630#	16,430#	18,630#	19,170#	25,660#	31,600#	35,950#
<b>96"</b>	<b>6,490#</b>	<b>7,890#</b>	<b>9,130#</b>	<b>11,980#</b>	<b>14,440#</b>	<b>16,370#</b>	<b>16,980#</b>	<b>22,700#</b>	<b>27,930#</b>	<b>31,750#</b>
102"	5,750#	6,990#	8,090#	10,610#	12,790#	14,500#	15,040#	20,110#	24,740#	28,120#
<b>108"</b>	<b>5,120#</b>	<b>6,230#</b>	<b>7,210#</b>	<b>9,470#</b>	<b>11,410#</b>	<b>12,930#</b>	<b>13,420#</b>	<b>17,940#</b>	<b>22,070#</b>	<b>25,080#</b>
114"	4,600#	5,590#	6,470#	8,500#	10,240#	11,610#	12,040#	16,100#	19,800#	22,510#
<b>120"</b>	<b>4,150#</b>	<b>5,050#</b>	<b>5,840#</b>	<b>7,670#</b>	<b>9,240#</b>	<b>10,480#</b>	<b>10,870#</b>	<b>14,530#</b>	<b>17,870#</b>	<b>20,320#</b>
126"	3,760#	4,580#	5,300#	6,950#	8,380#	9,500#	9,860#	13,180#	16,210#	18,430#
<b>132"</b>	<b>3,430#</b>	<b>4,170#</b>	<b>4,830#</b>	<b>6,340#</b>	<b>7,640#</b>	<b>8,660#</b>	<b>8,980#</b>	<b>12,010#</b>	<b>14,770#</b>	<b>16,790#</b>
138"	3,140#	3,810#	4,410#	5,800#	6,990#	7,920#	8,220#	10,980#	13,510#	15,360#
<b>144"</b>	<b>2,880#</b>	<b>3,500#</b>	<b>4,050#</b>	<b>5,320#</b>	<b>6,420#</b>	<b>7,270#</b>	<b>7,540#</b>	<b>10,090#</b>	<b>12,410#</b>	<b>14,110#</b>
over 144"	<i>Consult Factory</i>									



**Steel King Industries Inc.**  
**SK2000 Tubular BOLTLESS Pallet Rack Upright Frame Capacity Chart**  
 6/1/2011



The listed component capacities are based upon RMI 2008 Design Specifications. System compliance includes consideration of connections. The great array of potential beam and column combinations cannot be represented in a chart format. For verification of *system* compliance to RMI 2008, or conformance to other local or regional codes, please consult our corporate office.

- 1) MAXIMUM LOAD PER SHELF LEVEL ON "RTFAP" & "RTFBP" = 7500#.
  - 2) Capacities based upon interior usage.
  - 3) Capacities are for selective rack only.
  - 4) The above capacities do not consider seismic loading.
  - 5) Each column/post of each frame MUST be anchored to an adequate concrete floor.
  - 6) Capacities based upon installation in a plumb condition.
  - 7) Capacities are total per upright, assuming equal loading on both posts.
- If any of these conditions do not apply to your application, or if you are unsure if they apply, DO NOT USE THIS CHART; in those cases, consult Steel King Engineering dept. for design information.**
- 8) Safety Factor = 1.8:1 per AISI 2005
  - 9) Capacities are to be reduced to account for the weight of the rack system; deduct the weight of beams, frames, decking, and accessories.
  - 10) Other frame capacities are available for applications with large quantities; consult the factory.
  - 11) RMI 2008 recommends the use of optional accessories to reduce damage to frames. Items including column protectors, double columns, and guard rail are available from Steel King.

**HOW TO USE THIS CHART:**

- 1) Calculate the maximum load per bay; number of levels X load per level (supported levels only).
- 2) Determine the MAXIMUM distance between levels, or the distance from the floor to the first beam level, whichever is greater. This dimension is the "vertical beam spacing" to use in the above chart.
- 3) Using the "vertical beam spacing" as determined in step 2 above, follow the appropriate row towards the right until you find a capacity equal to or greater than the capacity required, as determined in step 1.
- 4) You may wish to choose an even greater capacity upright, for additional abuse resistance.
- 5) Verify the adequacy of the end user's floor to support these loads.





**Steel King Beam Capacity Chart; Step Beams, SK2000 Boltless Rack Only.**

Beam Series:	Number of Pallets per shelf	SBRUP250	SBRUP300	SBRUP350	SBRUP400	SBRUP425	SBRUP450	SBRUP500
Beam Height:		2.50"	3.00"	3.50"	4.00"	4.25"	4.50"	5.00"
Beam Length		Capacity	Capacity	Capacity	Capacity	Capacity	Capacity	Capacity
48"	1	5,000#	6,160#	7,460#	8,940#	9,720#	10,560#	12,320#
54"	1	4,540#	5,560#	6,720#	8,020#	8,720#	9,460#	11,020#
60"	1	4,180#	5,080#	6,120#	7,280#	7,900#	8,560#	9,980#
66"	1	3,860#	4,680#	5,620#	6,680#	7,240#	7,840#	9,120#
72"	1	3,600#	4,360#	5,220#	6,180#	6,700#	7,240#	8,400#
78"	1	3,180#	4,080#	4,860#	5,740#	6,220#	6,720#	7,800#
84"	2	2,800#	3,820#	5,120#	6,060#	6,560#	7,080#	8,180#
90"	2	2,480#	3,380#	4,520#	5,700#	6,160#	6,640#	7,680#
92"	2	2,400#	3,260#	4,340#	5,600#	6,040#	6,520#	7,520#
96"	2	2,220#	3,020#	4,020#	5,260#	5,820#	6,280#	7,240#
100"	2	2,080#	2,820#	3,740#	4,880#	5,540#	6,040#	6,980#
102"	2	2,000#	2,720#	3,600#	4,700#	5,340#	5,940#	6,860#
108"	2	1,820#	2,460#	3,260#	4,240#	4,820#	5,440#	6,500#
114"	2	1,660#	2,240#	2,960#	3,840#	4,360#	4,920#	6,200#
120"	2	1,520#	2,040#	2,700#	3,500#	3,960#	4,460#	5,620#
126"	2	1,400#	1,880#	2,480#	3,200#	3,620#	4,080#	5,140#
132"	3	1,300#	1,740#	2,280#	2,940#	3,320#	3,740#	4,700#
138"	3	1,200#	1,620#	2,100#	2,720#	3,060#	3,460#	4,340#
144"	3	1,120#	1,500#	1,960#	2,520#	2,840#	3,200#	4,000#
150"	3							3,700#
156"	3							3,440#
162"	3							3,220#
168"	3							3,000#
174"	3							2,820#
180"	4							2,640#
186"	4							2,500#
192"	4							2,360#



**Steel King Beam Capacity Chart; Step Beams, SK2000 Boltless Rack Only.**

Beam Series:	Number of Pallets per shelf	SBRUG500*	SBRUP550	SBRUG550*	SBRUP600	SBRUG600	SBRUB600	SBRUW600
Beam Height:		5.00"	5.50"	5.50"	6.00"	6.00"	6.00"	6.00"
Beam Length		Capacity	Capacity	Capacity	Capacity	Capacity	Capacity	Capacity
48"	1	13,600#	14,860#	15,000#	15,000#	15,000#	15,000#	15,000#
54"	1	13,380#	13,320#	15,000#	15,000#	15,000#	15,000#	15,000#
60"	1	12,100#	12,100#	14,600#	13,680#	15,000#	15,000#	15,000#
66"	1	11,060#	11,100#	13,380#	12,520#	15,000#	15,000#	15,000#
72"	1	10,180#	10,260#	12,360#	11,560#	13,980#	15,000#	15,000#
78"	1	9,440#	9,560#	11,480#	10,760#	12,980#	15,000#	15,000#
84"	2	9,900#	10,060#	12,080#	11,320#	13,660#	15,000#	15,000#
90"	2	9,280#	9,480#	11,360#	10,640#	12,820#	14,940#	15,000#
92"	2	9,100#	9,300#	11,140#	10,420#	12,560#	14,640#	15,000#
96"	2	8,740#	8,960#	10,720#	10,040#	12,080#	14,080#	15,000#
100"	2	8,420#	8,640#	10,340#	9,680#	11,640#	13,560#	15,000#
102"	2	8,260#	8,500#	10,160#	9,520#	11,440#	13,320#	15,000#
108"	2	7,840#	8,080#	9,660#	9,040#	10,860#	12,640#	14,260#
114"	2	7,440#	7,720#	9,220#	8,620#	10,360#	12,040#	13,560#
120"	2	6,740#	7,380#	8,820#	8,240#	9,880#	11,480#	12,940#
126"	2	6,140#	7,080#	8,440#	7,900#	9,460#	11,000#	12,380#
132"	3	5,620#	6,580#	7,780#	7,600#	9,080#	10,540#	11,860#
138"	3	5,180#	6,080#	7,160#	7,280#	8,640#	9,980#	11,200#
144"	3	4,780#	5,620#	6,640#	6,740#	8,000#	9,220#	10,340#
150"	3	4,420#	5,240#	6,160#	6,240#	7,420#	8,540#	9,580#
156"	3	4,120#	4,880#	5,740#	5,820#	6,900#	7,940#	8,900#
162"	3	3,840#	4,560#	5,360#	5,440#	6,440#	7,420#	8,300#
168"	3	3,580#	4,280#	5,020#	5,100#	6,020#	6,920#	7,760#
174"	3	3,360#	4,020#	4,720#	4,780#	5,640#	6,500#	7,260#
180"	4	3,140#	3,780#	4,440#	4,500#	5,300#	6,100#	6,820#
186"	4	2,960#	3,580#	4,180#	4,240#	5,000#	5,740#	6,420#
192"	4	2,800#	3,380#	3,960#	4,000#	4,720#	5,420#	6,060#

# SK2000<sup>®</sup>

## CLOSED TUBULAR RACK

June 1, 2011



### **IMPORTANT NOTES AND CAUTIONS REGARDING THESE CAPACITIES!**

EXAMPLE: SBRUG500096 is a step beam with a boltless connector for tubular rack, 5.0" high x 96" long, capacity 8,740#/pair.

Capacities in pounds per pair, over top (not step) of beams, *uniformly distributed*; **concentrated, seismic, and impact loads reduce capacity**

These capacities based upon the lesser of the strength in bending or L/180 criteria.

When beam length allows only one load wide per level, decrease above capacities by 20% for impact loading.

These *component* capacities are based upon RMI 2008 design specifications. *System* compliance with RMI 2008 requires you to provide *complete*

details of the configuration of the system (beam levels, load per level, beam spacings, upright frame height and types, etc).

Applications with loads of greater than 7,500# per level should not use "P gauge" upright frames (RTFAP, RTFBP, RTFCP).

Above capacities are for non-seismic interior selective applications; contact factory for seismic capacities or other non-standard applications.

Based upon a MINIMUM steel yield of 60,000 p.s.i.

Other beams available (other gauges, profiles, yields) in large quantities; call factory for details.

