

# 307HV Capacities & Specifications Chart

Material Type	Shape	Max. Section Size	Min. Suggested ID <sup>1</sup>
Flats, Hard		4 × 1 in. / 130 × 25 mm	44 in. / 1,120 mm
Flats, Easy		7 × 1¾ in. / 200 × 40 mm	32 in. / 815 mm
Square Bar		2½ in. / 75 mm	32 in. / 815 mm
Angle, Leg-Out		4 × ½ in. / 100 × 12 mm	48 in. / 1,220 mm
Angle, Leg-In		4 × ¾ in. / 100 × 10 mm	50 in. / 1,270 mm
Tee, Leg-Out		4 × ½ in. / 100 × 12 mm	54 in. / 1,375 mm
Tee, Leg-In		4 × ¾ in. / 100 × 10 mm	60 in. / 1,525 mm
C, Legs-Out		7 × 2½ in. / 180 × 70 mm	36 in. / 915 mm
C, Legs-In		7 × 2½ in. / 180 × 70 mm	48 in. / 1,220 mm
Round Bar		Ø3 in. / 80 mm	30 in. / 760 mm
Pipe, Schedule 40 <sup>2</sup>		Ø4 in. / 100 mm	45 in. / 1,145 mm
Round Tube <sup>2</sup>		5½ in. / 140 mm × 10Ga	
Square Tube <sup>3</sup>		3½ × ¼ in. / 100 × 5 mm	
Rectangular Tube <sup>3</sup>		5 × 2 × ⅜ in. 120 × 60 × 5 mm	
I-Beam, EZ		S7 × 20 in. / 180 × 82 mm	48 in. / 1,220 mm
H-Beam, EZ		W5 × 16 in. / HEA 120	60 in. / 1,525 mm
C-Beam, On Edge <sup>4</sup>		C3 × 6 in. / 120 × 55 mm	96 in. / 2,440 mm
I-Beam, HW <sup>4</sup>		S5 × 15 in. / HEA 100	100 in. / 2,540 mm

Section Modulus	2.8-4.9 in <sup>3</sup> / 45-80 cm <sup>3</sup>	Roll Diameters	12.40 in. / 315 mm	Usable Shaft	9½ in. / 234 mm
Rolling Speed	0-23 fpm / 0-7 mpm	Shaft Diameters	3.94 in. / 100 mm	Thread Length	3½ in. / 80 mm
Power Output	15 HP / 11 kW	Approx. Weight	8,210 lbs. / 3,600 kg	Shaft O.D.	4 in. / 100 mm
Key Width	1⅛ in. / 28 mm	Total Shaft Height	4¾ in. / 106.6 mm	Overall Roll O.D.	12 <sup>13</sup> / <sub>16</sub> in. / 315 mm

Rev.0 05/2014. (1.) Minimum suggested internal diameter applies to maximum section size as listed at left. (2.) Set of three rolls required for each tube and pipe size. (3.) Special rolls may improve results on these profile. (4.) Special Beam On-Edge Traction Device required. (5.) With standard equipment. This chart indicates minimum suggested inside diameter with maximum profile size, using mild steel rolling generally in multiple passes. Custom tooling for some profiles may be required for volume production and minimum rolling diameters are limited to level of acceptable deformation. The manufacturer and Carell Corporation reserves the right to revise design, construction and specifications without prior notice. Ratings based on material yield on 36KSI. Machines with extended or shortened shafts are available. Series 3000 machines are designed compliant with ANSI B11.12.1996 standards. The employer of the operator is responsible for providing and insuring the usage of point of operation guards and/or properly applied and adjusted point of operation safety devices are required to meet OSHA, state and local safety requirements.