







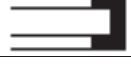







301HV / CPHV40 Capacities & Specifications Chart

Material Type	Shape	Max. Section Size	Min. Suggested I.D. ¹
Flats, Hard		1½ × ¼ in. / 40 × 6 mm	12 in. / 300 mm
Flats, Easy		2 × ½ in. / 50 × 13 mm	12 in. / 300 mm
Square Bar		¾ in. / 20 mm	12 in. / 300 mm
Angle, Leg-Out		1¼ × ¾ in. / 35 × 5 mm	16 in. / 400 mm
Angle, Leg-In		1 × ¾ in. / 30 × 5 mm	16 in. / 400 mm
Tee, Leg-Out		1¼ × ¾ in. / 35 × 5 mm	14 in. / 350 mm
Tee, Leg-In		1 × ¾ in. / 30 × 5 mm	14 in. / 350 mm
C, Legs-Out		1½ × ¾ in. / 40 × 20 mm	14 in. / 350 mm
C, Legs-In		1½ × ¾ in. / 40 × 20 mm	14 in. / 350 mm
Round Bar		Ø1 in. / 25 mm	12 in. / 300 mm
Pipe, Schedule 40 ²		Ø¾ in. / 20 mm	16 in. / 400 mm
Round Tube ²		1½ in. / 40 mm × 16Ga	
Square Tube ³		1 in. / 30 mm × 14Ga	
Rectangular Tube ³		1¼ in. / 35 mm × ¾ in. / 20 mm × 14Ga	

Section Modulus	0.10 in ³ / 1.5 mm	Roll Diameters	5.31 in. / 135 mm	Usable Shaft	3 in. / 75 mm
Rolling Speed	20 fpm / 5.8 mpm	Shaft Diameters	1.38 in. / 35 mm	Thread Length	1¾ in. / 35 mm
Power Output	2 HP / 1.5 kW	Approx. Weight	780 lbs. / 350 kg	Shaft O.D.	1¾ in. / 35 mm
Key Width	¾ in. / 9.89 mm	Total Shaft Height	1½ in. / 37.92 mm	Overall Roll O.D.	5¾ in. / 137 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/CPHV 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.

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