



## PRECISION COMPRESSION MOUNTING CLAMP SYSTEMS

Wakefield Engineering compression pack heat sinks and clamp systems provide electrical and industrial equipment manufacturers with complete system solutions for proper installation and heat dissipation for high-power compression pack semiconductor. All components for device

mounting and cooling are available separately for all standard compression requirements from 800 lbs (362.9 kg) to 16,000 lbs (7,257.5 kg) force in both natural and forced convection applications.

Clamp Assembly Series	Maximum Clamping Force Force Range	Maximum Diameter (Ref) Power Disc Device	Crossbar Stud Centerline to Centerline Dimension
130 Series	800 lbs (362.9 kg) - 2,000 lbs (907.2 kg)	2.25 in. (57.2 mm)	2.750 in. (69.9 mm) Ref
139 Series	3,000 lbs (1,360.8 kg) and 5,000 lbs (2,268.0 kg)	3.50 in. (88.9 mm)	4.000 in. (101.6 mm) Ref
143 Series	1,000 lbs (453.6 kg) - 6,000 lbs (2,721.6 kg)	3.50 in. (88.9 mm)	4.000 in. (101.6 mm) Ref
144 Series	1,000 lbs (453.6 kg) - 6,000 lbs (2,721.6 kg)	4.00 in. (101.6 mm)	4.625 in. (117.5 mm) Ref
145 Series	2,000 lbs (907.2 kg) - 10,000 lbs (4,535.9 kg)	4.50 in. (114.3 mm)	5.500 in. (139.7 mm) Ref
146 Series	8,000 lbs (3,628.8 kg) - 16,000 lbs (7,257.5 kg)	5.25 in. (133.4 mm)	6.000 in. (152.4 mm) Ref
131/132/133 Series	High-Performance Press Pack Heat Sinks		

These high-quality mounting clamp assemblies are the worldwide standard for mounting, compression, and clamping press-pack SCR, thyristor, rectifier, and other high power disc packaged devices utilized in power distribution equipment, industrial controls, transportation systems, and power supply and conversion systems.

lected (based on maximum clamping force required), will provide the necessary vertical clearance space. For the 130 and 139 Series, this determination is made by subtracting the chosen spring assembly "Z" dimension (refer to dimensional tables) from the crossbar assembly "X" dimension minimum and maximum values, to calculate the available device mounting space clearance for the particular assembly combination. Spring assembly "Z" dimension is the dimension measured from the spring assembly device mounting surface to the spring assembly top surface. Some series have fixed dimensions for alpha characters. All spring assemblies are designed with a force indicator gauge.

Clamp assemblies will accommodate devices with overall case diameters to 5.25 in. (133.4 mm) maximum. Vertical device mounting space available for assemblies is determined by selecting an appropriate series crossbar by length which, when a series spring assembly is selected



### 130 SERIES Compression Mounting Clamp Assemblies for Semiconductors to 2.25 in. (57.2mm) Diameter

**130 SERIES CROSSBAR**  
**800 lb - 2,000 lb (362.8 kg - 907.2 kg)**  
 Crossbar Device Mounting, Surface to Spring Assembly  
 Top Surface Dimension

Model No.	"X" Dimension		Weight lbs. (grams)
	Min. In. (mm)	Max. In. (mm)	
130-A	1.74 (44.2)	2.12 (53.8)	0.4 (181.44)
130-B	2.05 (52.1)	2.43 (61.7)	0.418 (189.60)
130-C	2.36 (59.9)	2.74 (69.6)	0.427 (193.68)
130-D	2.67 (67.8)	3.05 (77.5)	0.437 (198.22)
130-E	2.98 (75.7)	3.36 (85.3)	0.447 (202.76)
130-F	3.29 (83.6)	3.67 (93.2)	0.461 (209.11)
130-G	3.60 (91.4)	3.98 (101.1)	0.476 (215.91)
130-H	3.91 (99.3)	4.29 (109.0)	0.486 (220.45)
130-J	4.22 (107.2)	4.60 (116.8)	0.497 (225.44)
130-K	4.53(115.1)	4.91 (124.7)	0.51 (231.33)
130-L	4.34 (122.9)	5.22 (132.6)	0.52 (235.87)
130-M	5.15 (130.8)	5.53 (140.5)	0.534 (242.22)
130-N	5.46 (138.7)	5.84 (147.3)	0.544 (246.75)
130-P	5.77 (146.6)	6.15 (156.2)	0.559 (253.56)

#### 130 SERIES SPRING ASSEMBLY

Model No.	No. of Leaves	"Z" Dim. in. (mm)	Max Force lb (kg)	Weight lbs (gms)
130-1	2	0.90 (22.9)	2,000 (907.2)	0.331 (150.14)
130-2	2	0.50 (12.7)	800 (362.8)	0.19 (86.18)
130-3	3	0.61 (15.5)	1,200 (544.3)	0.219 (99.34)
130-4	4	0.72 (18.3)	1,600 (727.8)	0.333 (151.05)
130-5	5	0.83 (21.1)	2,000 (907.2)	0.408 (185.07)

**Notes:**  
 1. Spring assemblies are stainless steel leaves with a force indicator gauge, except the lowest cost Type 130-1 spring assembly manufactured from automotive grade stainless steel.

**Order Guide:**  
 Order Crossbar and Spring Assembly separately by type number from table.

**Dimensions:**  
 in. (mm)  
 lb. (kg)

