



CAGE NUTS													Tinnerman® Palnut	
Screw Size	Part Numbers		B		A	J		N		T	K	P		
	Kanebridge	Tinnerman®	Cage Width (Static)		Cage Width (Assembled)	Cage Height		Foot Width		Material Thickness	Nut Thickness	Panel Range		
			Max	Min	Min	Max	Min	Max	Min	Ref	Ref	Max	Min	
6-32	06NCAG	30395-632	.460	.440	.421	.200	.180	.070	.050	.017	.124	.063	.025	
8-32	08NCAG	07931-832	.530	.510	.531	.260	.240	.070	.050	.020	.156	.063	.025	
10-24	10NCAG	07941-1024	.530	.510	.531	.260	.240	.070	.050	.020	.156	.105	.064	
10-32	11NCAG	07931-1032	.530	.510	.531	.260	.240	.070	.050	.020	.156	.063	.025	
1/4-20	14NCAG	07988-1420	.530	.510	.532	.260	.240	.070	.050	.020	.187	.063	.025	
5/16-18	31NCAG	07957-5618	.670	.650	.734	.310	.290	.110	.090	.025	.218	.126	.093	
3/8-16	37NCAG	07937-3816	.670	.650	.734	.310	.290	.110	.090	.025	.218	.056	.028	
1/2-13	50NCAG	07968-1213	.880	.860	.828	.420	.400	.120	.100	.025	.304	.092	.059	

Description	A free floating square nut retained within a spring steel cage. The cage has two retaining legs on the same side of the nut, positioned 180° from each other, that hold the nut in place at panel edges or center panel locations.	
Applications/Advantages	More economical and easier to install than other heavy duty nuts for blind side applications. Free floating nut will compensate for poorly aligned holes. The square cage design keeps the nut from rotating during tightening. Cage nuts are successfully used in heavy duty farm machinery, rail cars, home entertainment components and heating equipment among other applications.	
Material	<i>Cage</i>	<i>Nut</i>
	SAE 1050 - 1065 spring steel	6-32 thru 1/4-20: SAE 1108 or equivalent steel 5/16-18 & 3/8-16: SAE 1018 or equivalent steel 1/2-13: SAE 1108 or equivalent steel
Heat Treatment	Parts are quenched from the proper austenitizing temperature directly into a salt bath at between 590°F and 710°F. Parts are held at this quench temperature for a recommended period. Parts are then removed from the salt quenched and air cooled to room temperature.	
Hardness	Rockwell C 44 - 51	
Plating	Cage nuts are typically supplied with a zinc plating.	

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