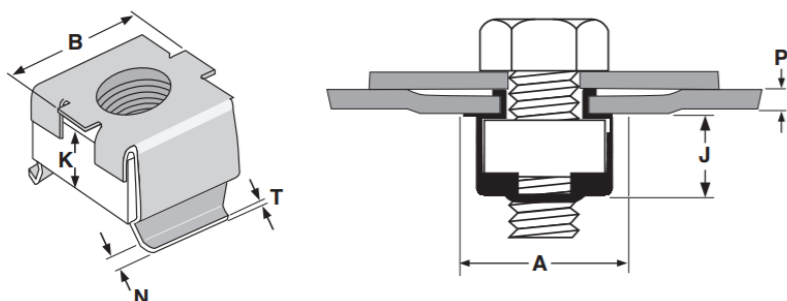


# Metallics

An **AMERICAN** Source For Premier  
and Innovative Fasteners and Anchors

## CAGE NUTS – STEEL BLACK PHOSPHATE

The following Specification Sheet applies to all **Cage Nuts – Steel Black Phosphate** in our CNN series.



CAGE NUTS											
Screw Size	B		A	J		N		T	K	P	
	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
10-24	.530	.510	.475	.265	.235	.070	.050	.020	.156	.063	.025
10-32	.530	.510	.531	.260	.240	.070	.050	.020	.156	.063	.025
12-24	.530	.510	.531	.260	.240	.070	.050	.020	.156	.105	.064

<b>Description</b>	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.	
<b>Applications/ Advantages</b>	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.	
<b>Material</b>	<i>Steel</i>	
	<b>Cage:</b> SAE 1050 - 1065 spring steel	<b>Nut:</b> 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
<b>Heat Treatment</b>	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.	
<b>Hardness</b>	Rockwell C 44 - 51	

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