

Product Specifications



1/2"-13 x 3-1/2" Grade 5 Hex Head Cap Screw

Part Number 5MB12312

Category Number 4018

UPC 781002180494

Grade 5 Hex Cap Screws are made from carbon steel and are used in applications where medium strength is necessary, typically those where controlled clamp force and high loads are required. These screws can be screwed into internally tapped holes or used with a nut. Grade 5 Hex Cap Screws should always be used with a hardened washer under the turned component. SAE J429 covers the material and performance requirements of Grade 5 Hex Cap Screws and ASME B18.2.1 covers the dimensional requirements.



Physical Characteristics

Type	Cap Screw
Head Type	Hex
Grade	5
Thread Style	Partial
Thread Type	2A
Point Type	Chamfered
Size	1/2" x 3-1/2"
Dia./Thread Size	1/2"-13
Head Size	3/4"
Head Diameter	0.750" - 0.736"
Length (in)	3-1/2"
Head Height	0.323" - 0.302"
Thread Pitch\Thread Per Inch	13
Material	Medium Carbon Steel
Finish	Zinc Plated

Packaging Details

Standard Qty	50
Master Qty	200
Price Per	100
Package Length	8.50
Package Width	5.70
Package Height	3.90
Package Weight	10.75

Performance Data

Tensile Strength (psi)	120000
Rockwell Hardness	HRC 34 - 25
Special Features	Industrial Strength, Partial Thread, Grade 5
Applications	Industrial Strength Applications, High Controlled Clamp Forces, High Load Requirements

Certifications

RoHS Compliant	Yes
Meets/Exceeds	ASME B18.2.1