ALL-TECH HARDWARE LLC.

Add: 1475 Avenue S, Suite 302 Grand Prairie, TX 75050
Phone:1-404-328-5969
E-mail: sales@alltechhardware.com
www.alltechhardware.com

High Performance Hex Cap Screws

Duracap screws are high performance hex cap screws for those applications demanding high quality and reliability. Duracap screws are manufactured by Autocraft, a world class manufacturer of high strength fasteners, using the most advanced technology, quality assurance systems and state-of-the-art production facilities, certified to ISO/TS16949, AS9100, ISO14001 and OHSAS18001. Our lab is fully equipped with the most advanced test equipment certified to ISO17025. Autocraft's quality and production processes are approved by General Motors, Fiat-Chrysler, Volkswagen, Ford, Caterpillar and other leading OEMs.

Engineered design and process

1. Duracap screws are manufactured using high quality raw material from approved sources.
2. Guaranteed fillet radius and smooth head shank transition disperse stress under head (15% stress of entire joint is in this area).
3. Radiused runout thread root disperses stress (20% stress of entire joint is in this area).
4. Radiused root of full form threads avoids stress cracking (65% stress of entire joint lies within first two threads of engagement).
5. Thread rolling dies are carefully designed, made and set up to avoid thread laps. Macroetch and macroscopic inspection are conducted for thread laps.

Optimum performance and durability

6. Heat treatment processes are computerized with parameters being optimized to avoid quenching cracks, decarburization and unwanted carburization.
7. For grade 8 Duracap screws, hydrogen relief is done immediately after zinc plating. Special care is taken to avoid hydrogen embrittlement during the cleaning process.
8. Duracap production is performed per ISO/TS16949 to ensure process capability, traceability and quality conformance and to avoid mistakes.

Please visit our web site to learn more:

www.autocraft-global.com

autocraft
Precision Performance Parts

Available exclusively through All-Tech Hardware

ALL-TECH HARDWARE

State-of-the-art Duracap Cap Screw Manufacturing Facilities

Spheroidizing Annealer

Precision Multi Die Former

RX Atmosphere Heat Treat Line

Automated Warehouse

ISO9001, ISO/TS16949, AS9100, ISO/IEC17025, ISO14001 & OHSAS18001 Certified Mfg.

GRADE 5 HEX CAP SCREWS

Technical Specifications

	Diameter	Length	Grade	Tensile strength	HRC	Surface treatment	Material
ASME B18.2.1 & SAE J429	1/4 - 1	1/2 - 10	5	⩾120, 000 PSI	25 - 34	zinc Cr+3, plain	medium carbon
	1 1/8 - 1 1/4	1 7/8 - 10	5	⩾105,000 PSI	19 - 30	zinc Cr+3, plain	medium carbon

DURACAP SIZE RANGE

* Longer length and bigger diameter than listed also available.

Length \ Dia.	1/4	5/16	3/8	7/16	1/2	9/16	5/8	3/4	7/8	1	1-1/8	1-1/4
1/4												
3/8												
1/2	Full thread											
5/8		Full thread										
3/4			Full thread									
7/8				Full thread								
1					Full thread							
1-1/8						Full thread						
1-1/4							Full thread					
1-3/8												
1-1/2								Full thread				
1-5/8									Full thread			
1-3/4										Full thread		
1-7/8											Full thread	
2												
2-1/8												
2-1/4												
2-3/8												Full thread
2-1/2	Partial thread											
2-5/8		Partial thread										
2-3/4			Partial thread									
2-7/8				Partial thread								
3					Partial thread							
3-1/4						Partial thread						
3-1/2							Partial thread					
3-3/4								Partial thread				
4									Partial thread			
4-1/4										Partial thread		
4-1/2											Partial thread	
4-3/4												Partial thread
5												
5-1/4												
5-1/2												
5-3/4												
6												
6-1/4												
6-1/2												
6-3/4												
7												
7-1/4												
7-1/2												
7-3/4												
8												
8-1/4												
8-1/2												
8-3/4												
9												
9-1/4												
9-1/2												
9-3/4												
10												

Duracap®

Manufactured by Shanghai Autocraft Co., Ltd. in collaboration with All-Tech Hardware LLC.

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GRADE 8 HEX CAP SCREWS

Technical Specifications

	Diameter	Length	Grade	Tensile strength	HRC	Surface treatment	Material
ASME B18.2.1 & SAE J429	1/4- 1 1/4	1/2- 10	8	⩾150,000 PSI	33 - 39	zinc yellow Cr+6, plain	alloy steel

DURACAP SIZE RANGE

* Longer length and bigger diameter than listed also available.

Length \ Dia.	1/4	5/16	3/8	7/16	1/2	9/16	5/8	3/4	7/8	1	1-1/8	1-1/4
1/4												
3/8												
1/2	Full thread											
5/8		Full thread										
3/4			Full thread									
7/8				Full thread								
1					Full thread							
1-1/8						Full thread						
1-1/4							Full thread					
1-3/8												
1-1/2								Full thread				
1-5/8									Full thread			
1-3/4										Full thread		
1-7/8											Full thread	
2												
2-1/8												
2-1/4												
2-3/8												Full thread
2-1/2	Partial thread											
2-5/8		Partial thread										
2-3/4			Partial thread									
2-7/8				Partial thread								
3					Partial thread							
3-1/4						Partial thread						
3-1/2							Partial thread					
3-3/4								Partial thread				
4									Partial thread			
4-1/4										Partial thread		
4-1/2											Partial thread	
4-3/4												Partial thread
5												
5-1/4												
5-1/2												
5-3/4												
6												
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8-3/4												
9												
9-1/4												
9-1/2												
9-3/4												
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