

High-performance socket screws

Durasok socket screws are advanced in design and manufacture technology which make them high-performance. They are very well used in industries like aviation, automotive, high speed train, military, heavy equipment, etc.

High performance leads to reduced number of screws used for the same joint, smaller and lighter equipment, less machine failure and down time. Durasok means extra benefit at less cost.

Durasok socket screws are available in the US thru All-Tech, providing top-grade solution for customers who demand maximum precision, service life, reliability and premium technical services.

Excellent design and performance

- 1 Higher level of mechanical properties
- 2 Smooth wide radius at the root of the runout and complete threads render Durasok stronger and more fatigue resistant than regular flat or sharp root thread screws.
- 3 Specially designed fillet radius increases screw fatigue life by 100% at critical head shank juncture
- 4 Optimized tooling and forging technology drive metal to flow evenly and continually without laps, endowing Durasok with excellent properties
- 5 Patented marking of thread size in the head facilitates the identification of the screw size
- 6 Tight tolerance and well controlled depth of the socket engage the wrench to the best making proper seating of the screw easier



Reliable process and service

- Advanced quality management system: ISO9001, TS16949 and AS9100 certified
- Computerized annealing, heat treat and finish process for quality uniformity
- State-of-the-art raw material spheroidizing annealing equipment & technology form good basis for best product property
- Latest coating technology to ensure long period of protection against corrosion
- Special technical training and support for distributors and customers
- Strict production and dispatching record kept for total traceability solution
- Complete product range and stock available

Please visit our web site to learn more:
www.autocraft-global.com



Available exclusively through All-Tech Hardware



 ALL-TECH HARDWARE LLC.

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State-of-the-art Durasok Socket Screw Manufacturing Facilities



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

Technical Specifications

	Diameter	Length	Grade	HRC	Tensile strength	Surface treatment	Raw material
ASME B18.3 & ASTM A574	6# - 1/2	1/4 - 8	alloy steel	39 - 45	≥180,000 PSI	Black oxide	SCM435
	5/8 - 1 1/4	1 - 12	alloy steel	37 - 45	≥170,000 PSI	Black oxide	SCM435/SCM440

Material Chemical Composition

SCM 435	C 0.33% - 0.38%	Si 0.15% - 0.35%	Mn 0.6% - 0.85%	P < 0.03%	S < 0.03%	Cr 0.9% - 1.2%	Mo 0.15% - 0.3%
SCM 440	C 0.38% - 0.43%	Si 0.15% - 0.35%	Mn 0.6% - 0.85%	P < 0.03%	S < 0.03%	Cr 0.9% - 1.2%	Mo 0.15% - 0.3%

* a wide range of other coating and surface treatment technologies available on customer request, such as Delta, Magni, Geomet, Dacromet, etc.

DURASOK SOCKET HEAD CAP SCREW SIZE RANGE

* Longer length and bigger diameter than listed also available.

Dia. Length	6#	8#	10#	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1	1 1/4
1/4													
3/8													
1/2	Full thread	Full thread	Full thread										
5/8	Full thread	Full thread	Full thread	Full thread									
3/4				Full thread	Full thread								
1				Full thread	Full thread								
1 1/4				Full thread	Full thread								
1 1/2				Full thread	Full thread								
1 3/4	Partial thread			Full thread	Full thread								
2	Partial thread			Full thread	Full thread								
2 1/4	Partial thread	Partial thread		Full thread	Full thread								
2 1/2		Partial thread		Full thread	Full thread								
2 3/4			Partial thread	Full thread	Full thread								
3			Partial thread	Full thread	Full thread								
3 1/4				Partial thread	Full thread								
3 1/2				Partial thread	Full thread								
4				Partial thread	Full thread								
4 1/2				Partial thread	Full thread								
5				Partial thread	Full thread								
5 1/2				Partial thread	Full thread								
6				Partial thread	Full thread								
6 1/2				Partial thread	Full thread								
7				Partial thread	Full thread								
7 1/2				Partial thread	Full thread								
8				Partial thread	Full thread								
8 1/2				Partial thread	Full thread								
9				Partial thread	Full thread								
10				Partial thread	Full thread								
11				Partial thread	Full thread								
12				Partial thread	Full thread								

Durasok®

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

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Technical Specifications

	Diameter	Length	Class	HRC	Tensile strength	Surface treatment	Raw material
ISO 4762 DIN 912	M3 - M33	5 - 300mm	12.9	39 - 44	≥ 1220 MPa	Black oxide	SCM435 / SCM440

Material Chemical Composition

SCM 435	C 0.33% - 0.38%	Si 0.15% - 0.35%	Mn 0.6% - 0.85%	P < 0.025%	S < 0.025%	Cr 0.9% - 1.2%	Mo 0.15% - 0.3%
SCM 440	C 0.38% - 0.43%	Si 0.15% - 0.35%	Mn 0.6% - 0.85%	P < 0.025%	S < 0.025%	Cr 0.9% - 1.2%	Mo 0.15% - 0.3%

* a wide range of other coating and surface treatment technologies available on customer request, such as Delta, Magni, Geomet, Dacromet, etc.

DURASOK SOCKET HEAD CAP SCREW SIZE RANGE

* Sizes in brackets are not preferred. * Longer length and bigger diameter than listed also available.

Dia. Length	M3	M4	M5	M6	M8	M10	M12	(M14)	M16	(M18)	M20	(M22)	M24	(M27)	M30	(M33)
4																
5																
6																
8																
10	Full thread															
12		Full thread														
16		Full thread	Full thread													
20		Full thread	Full thread	Full thread												
25		Full thread	Full thread	Full thread	Full thread											
30		Full thread	Full thread	Full thread	Full thread	Full thread										
35		Full thread	Full thread	Full thread	Full thread	Full thread	Full thread									
40	Partial thread															
45	Partial thread	Partial thread														
50	Partial thread	Partial thread	Partial thread													
55		Partial thread	Partial thread	Partial thread												
60		Partial thread	Partial thread	Partial thread	Partial thread											
65		Partial thread	Partial thread	Partial thread	Partial thread	Partial thread										
70		Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread									
75		Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread								
80		Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread							
90		Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread						
100		Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread					
110		Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread				
120		Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread			
130		Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread		
140		Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	
150		Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread
160		Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread
170		Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread
180		Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread
200		Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread
220		Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread
240		Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread
260		Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread
280		Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread
300		Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread	Partial thread

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