



### ANSI B18.2.1 Hex Bolt

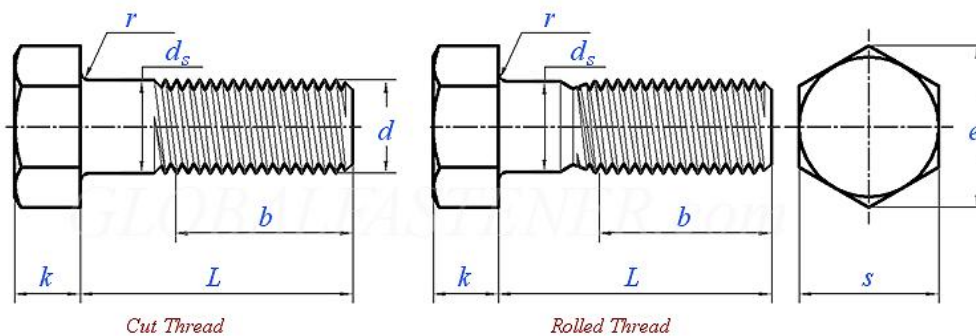
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and competitive price in the near future and be your friends as well.

### ANSI B18.2.1 Hex Bolt

Hexagon bolts are a type of fastener consisting of a head and a screw (a cylinder with an external thread), and a nut is required to fasten two parts with a through hole. They are commonly used in residential and commercial mechanical and construction projects. Full thread size provides excellent grip strength. Some thread sizes help where shear resistance is important. Secure with corresponding nuts or use in threaded holes. A type of fastener consisting of a head and a screw (a cylinder with an external thread), which requires a nut to securely connect two parts with a through hole. Because bolts are also a type of railway accessories, railway accessories are an integral part of railway lines. The track referred to here includes rails, sleepers, connectors, ballast beds, anti-climbing equipment, rail supports and turnouts. As an overall engineering structure, the track is laid on the roadbed, which guides the operation of the train and directly bears the huge pressure and load of the rolling stock. Under the power of train operation, its components must have sufficient strength and stability to ensure the safe, stable and uninterrupted operation of the train at the specified maximum speed.

### ANSI B 18.2.1 - 1981 Hex Cap Screws



Screw Thread	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1	1-1/8	1-1/4	1-3/8	1-1/2
d													

d <sub>s</sub>	max	0.26	0.324	0.388	0.452	0.515	0.642	0.768	0.895	1.022	1.149	1.277	1.404	1.531
	min	0.237	0.298	0.36	0.421	0.482	0.605	0.729	0.852	0.976	1.098	1.223	1.345	1.47
s	Basic	7/16	1/2	9/16	5/8	3/4	15/16	1-1/8	1-5/16	1-1/2	1-11/16	1 7/8	2-1/16	2-1/4
	max	0.438	0.5	0.562	0.625	0.75	0.938	1.125	1.312	1.5	1.688	1.875	2.062	2.25
	min	0.425	0.484	0.544	0.603	0.725	0.906	1.088	1.269	1.45	1.631	1.812	1.994	2.175
e	max	0.505	0.577	0.65	0.722	0.866	1.083	1.299	1.516	1.732	1.949	2.165	2.382	2.598
	min	0.484	0.552	0.62	0.687	0.826	1.033	1.24	1.447	1.653	1.859	2.066	2.273	2.48
k	Basic	11/64	7/32	1/4	19/64	11/32	27/64	1/2	37/64	43/64	3/4	27/32	29/32	1
	max	0.188	0.235	0.268	0.316	0.364	0.444	0.524	0.604	0.7	0.78	0.876	0.94	1.036
	min	0.15	0.195	0.226	0.272	0.302	0.378	0.455	0.531	0.591	0.658	0.749	0.81	0.902
r	max	0.03	0.03	0.03	0.03	0.03	0.06	0.06	0.06	0.09	0.09	0.09	0.09	0.09
	min	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03
b	L≤6	0.75	0.875	1	1.125	1.25	1.5	1.75	2	2.25	2.5	2.75	3	3.25
	L>6	1	1.125	1.25	1.375	1.5	1.75	2	2.25	2.5	2.75	3	3.25	3.5

Screw Thread		1-5/8	1-3/4	1-7/8	2	2-1/4	2-1/2	2-3/4	3	3-1/4	3-1/2	3-3/4	4
d <sub>s</sub>	max	1.658	1.785	1.912	2.039	2.305	2.559	2.827	3.081	3.335	3.589	3.858	4.111
	min	1.591	1.716	1.839	1.964	2.214	2.461	2.711	2.961	3.21	3.461	3.726	3.975
s	Basic	2-7/16	2-5/8	2-13/16	3	3-3/8	3-3/4	4-1/8	4-1/2	4-7/8	5-1/4	5-5/8	6
	max	2.438	2.625	2.812	3	3.375	3.75	4.125	4.5	4.875	5.25	5.625	6
	min	2.356	2.538	2.719	2.9	3.262	3.625	3.988	4.35	4.712	5.075	5.437	5.8
e	max	2.815	3.031	3.248	3.464	3.897	4.33	4.763	5.196	5.629	6.062	6.495	6.928
	min	2.616	2.893	3.099	3.306	3.719	4.133	4.546	4.959	5.372	5.786	6.198	6.612
k	Basic	1-3/32	1-5/32	1-1/4	1-11/32	1-1/2	1-21/32	1-13/16	2	2-3/16	2-5/16	2-1/2	2-11/16
	max	1.116	1.196	1.276	1.388	1.548	1.708	1.869	2.06	2.251	2.38	2.572	2.764
	min	0.978	1.054	1.13	1.175	1.327	1.479	1.632	1.815	1.936	2.057	2.241	2.424
r	max	0.09	0.12	0.12	0.12	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
	min	0.03	0.04	0.04	0.04	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
b	L≤6	3.5	3.75	4	4.25	4.75	5.25	5.75	6.25	6.75	7.25	7.75	8.25
	L>6	3.75	4	4.25	4.5	5	5.5	6	6.5	7	7.5	8	8.5

