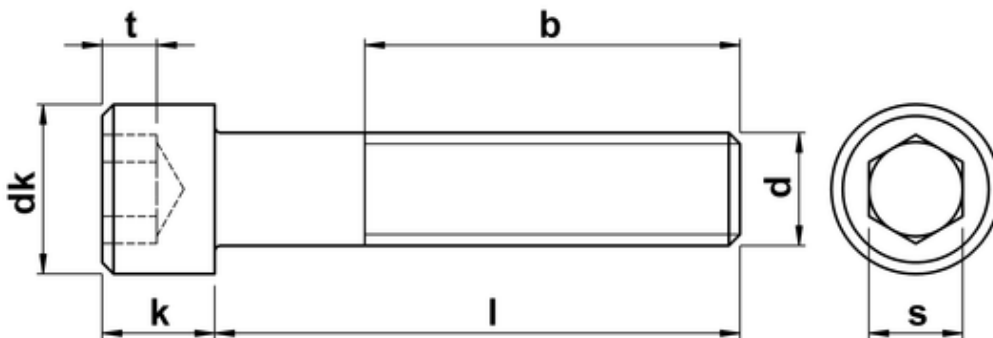




## UNF Socket Head Cap Screws

Also known as an Allen screw or Allen bolt, or simply a cap screw, socket head cap screws are a more modern alternative standard machine fastener to the standard hexagon headed bolt or setscrew, as found on much modern machinery. A hex key (otherwise known as an Allen key) is required to fit these fasteners. Conforming to ASME/ANSI B18.3, the contact surfaces of this screw or bolt are protected from external damage. Generally manufactured with a partial thread beyond a certain length and nominal diameter combination, but occasionally some stock may include a fully threaded shank at the same combination.



<b>d</b>	<b>tpi</b>	<b>b</b>	<b>dk</b>	<b>k max.</b>	<b>t min.</b>	<b>s</b>
<b>0-80</b>	80	0.50	0.096	0.060	0.025	0.050
<b>1-72</b>	72	0.62	0.118	0.073	0.031	1/16
<b>2-64</b>	64	0.62	0.140	0.086	0.038	5/64
<b>3-56</b>	56	0.62	0.161	0.099	0.044	5/64
<b>4-48</b>	48	0.75	0.183	0.112	0.051	3/32
<b>5-44</b>	44	0.75	0.205	0.125	0.057	3/32
<b>6-40</b>	40	0.75	0.226	0.138	0.064	7/64
<b>8-36</b>	36	0.88	0.270	0.164	0.077	9/64
<b>10-32</b>	32	0.88	0.312	0.190	0.090	5/32
<b>12-28</b>	28	0.88	0.343	0.216	0.090	5/32
<b>1/4</b>	28	1.0	0.375	0.250	0.120	3/16
<b>5/16</b>	24	1.12	0.469	0.312	0.151	1/4
<b>3/8</b>	24	1.25	0.562	0.375	0.182	5/16
<b>7/16</b>	20	1.38	0.656	0.438	0.213	3/8
<b>1/2</b>	20	1.50	0.750	0.500	0.245	3/8

<b>d</b>	<b>tpi</b>	<b>b</b>	<b>dk</b>	<b>k max.</b>	<b>t min.</b>	<b>s</b>
<b>5/8</b>	18	1.75	0.938	0.625	0.307	1/2
<b>3/4</b>	16	2.00	1.125	0.750	0.370	5/8
<b>7/8</b>	14	2.25	0.312	0.875	0.432	3/4
<b>1</b>	12	2.50	1.500	1.000	0.495	3/4