

BUTTON HEAD, FLAT HEAD, & SOCKET HEAD SECURITY SCREWS

Bryce Fastener Altered Standard Fastener Head Styles for Better Functionality & Security

BUTTON HEAD CAP SCREWS (BHCS)

The most common fastener head style purchased is the Button Head Cap Screw. We designed our own head specifications to create a Button Head with higher torque and resistance to Vice Grips®.

First, we cut the specified sidewall tolerance in half. This small adjustment created a large security barrier. Now Vice Grips® or wrenches can't remove our Button Heads.

Second, we increased torque by enlarging our specified drive sizes. As a result, our Button Head Drives out-torque Torx®.



◀ Comparison of our sidewall (*left*) vs. Torx® (*right*):
Ours is lowered to repel Vice Grips®.

FLAT HEAD CAP SCREWS (FHCS)

Our Flat Head Cap Screws have the same high torque capability and they also out-torque Torx®.

We follow the standard flat head specifications. It's vital our Flat Head Security Screws are not sitting above a surface where wrenches can remove them. Our Button and Flat Head Drives are the same.

SOCKET HEAD CAP SCREWS (SHCS)

When Mr. Allen originally developed the Socket Head Cap Screw (SHCS), he could not keep the Allen Wrench from stripping, unless he made the head extremely high. We changed the old SHCS specification because it's counterproductive for our high-torque drive systems.

The extra glob of material takes extra tonnage to forge, and breaks tooling. To lower costs, we specify our Socket Head Cap Screws at 2/3 head height.

They torque higher than Allen (*even with a center rejection pin*) and can use a shallower counterbore.

› Button Head, Flat Head, & Socket Head styles are available in all diameters and drives that we manufacture.



Made in USA
Engineered & Crafted
100% in the USA

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BUTTON, FLAT, & SOCKET SECURITY HEADS

— Drive Sizes for Socket Head, Raptor™ Button Head, & Raptor Flat Head —



Basic Screw Diameter	Thread Pitch Course, Fine	Sheet Metal/ Plastic Threads	Length (M/R/C)	KEY-REX®	Penta-Plus™	Penta (No Pin)	STYKFIT7	STYKFIT6	Tam 6-Lobe™	Hex-Pin™
.060	0/80	—	1/8 – 1/2"	—	—	#0	—	—	—	—
.073	1 – 72	—	1/8 – 1/2"	—	—	#0	—	T-5	—	—
.086	2 – 56, 64	2 – 32	3/16 – 3/4"	X02	P02	—	Y02	T-6	—	—
.099	3 – 48, 56	3 – 28	3/16 – 1"	X03	P03	—	Y03	T-7	—	—
.112	4 – 40, 48	4 – 24	3/16 – 1 1/2"	X04	P04	—	Y04	T-8	T-8	—
.125	5 – 40, 44	5 – 20	1/4 – 1 1/2"	X06	P05	—	Y06	T-10	T-10	3/32
.138	6 – 32, 40	6 – 20	1/4 – 1 1/2"	X06	P06	—	Y06	T-10	T-10	1/8
.164	8 – 32, 36	8 – 18	1/4 – 3"	X12	P25	—	Y12	T-20	T-15	5/32
.190	10/24, 32	10 – 16	1/4 – 3 1/4"	X25	P25	—	Y25	T-25, T-20	T-25, T-20	5/32
.216	12 – 24, 28	12 – 14	1/4 – 3 1/4"	X25	P25	—	Y25	T-25	T-25	5/32
.250	1/4 – 20, 28	14 – 14	5/16 – 3 1/4"	X29	P25	—	Y29	T-27	T-27	5/32
.3125	5/16 – 18, 24	—	3/8 – 5 1/2"	X31	P31	—	Y31	T-40	T-40	3/16
.375	3/8 – 16, 24	—	5/8 – 5 1/2"	X37	P37	—	Y37	T-45	T-45, T-40	7/32
.4375	7/16 – 14, 20	—	5/8 – 5 1/2"	X37	P37	—	Y37	T-50	T-50	3/8
.50	1/2 – 13, 20	—	3/4 – 5 1/2"	X55	P50	—	Y55	T-55	T-55, T-50	5/16
.562	9/16 – 12, 18	—	7/8 – 5 1/2"	X55	P62	—	Y55	T-60	T-55	—
.625	5/8 – 11, 18	—	1 – 5 1/2"	X62	P62	—	Y62	T-60	T-55	3/8

— METRIC WITH INCH TRANSLATION —

Reference	Thread Pitch	See Above	See Above
.063"	M1.6	—	3 – 12mm
.078"	M2 x .4	—	3 – 12mm
.098"	M2.5 x .45	—	4 – 20mm
.118"	M3 x .5	—	4 – 50mm
.138"	M3.5 x 0.6	—	5 – 65mm
.157"	M4 x .7	—	6 – 75mm
.196"	M5 x .8	—	7 – 80mm
.236"	M6 x 1.0	—	7 – 80mm
.315"	M8 x 1.25	—	10 – 140mm
.394"	M10 x 1.5	—	12 – 140mm
.472"	M12 x 1.75	—	16 – 140mm
.551"	M14 x 1.5	—	20 – 140mm
.630"	M16 x 2.0	—	24 – 140mm

— Drive Sizes for Button Head & Flat Head Machine Screws —



KEY-REX®	Penta-Plus™	Penta (No Pin)	STYKFIT7	STYKFIT6	Tam 6-Lobe™	Hex-Pin™
—	—	#1	—	T-5	—	—
—	—	#1	—	T-6	—	—
X03	P04	—	Y03	T-7	—	—
X04	P05	—	Y04	T-8	—	—
X06	P06	—	Y06	T-10	T-10	3/32
X06	P06	—	Y06	T-10	T-10	3/32
X10	P08	—	Y10	T-15	T-15	1/8
X12	P25	—	Y12	T-20	T-25	5/32
X25	P25	—	Y25	T-25	T-27	5/32
X29	P29	—	Y29	T-27	T-27	5/32
X30	P31	—	Y30	T-30	T-30	3/16
X37	P50	—	Y37	T-45	T-45	1/4
X50	P62	—	Y50	T-50	T-50	5/16
X50	P62	—	Y50	T-50	T-50	3/8
X55	P65	—	Y55	T-55	T-55	3/8
X62	P65	—	Y62	T-60	T-60	—
X62	P75	—	Y62	T-60	T-60	1/2

—	—	#1	—	T-5	—	—
X03	P04	—	Y03	T-6	T-8	—
X04	P05	—	Y04	T-8	T-8	—
X06	P06	—	Y06	T-10	T-10	M2, 3/32"
X10	P06	—	Y10	T-15	—	—
X12	P25	—	Y12	T-20	T-20	5/32"
X25	P25	—	Y25	T-25	T-25	5/32"
X29	P29	—	Y29	T-27	T-30	M5, 3/16"
X37	P50	—	Y37	T-45	T-45	M6, 1/4"
X50	P62	—	Y50	T-50	T-50	M8, 5/16"
X55	P65	—	Y55	T-55	T-55	M10, 3/8"
X62	P65	—	Y62	T-60	T-60	—
X62	P75	—	Y62	T-60	T-60	M12, 1/2"



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