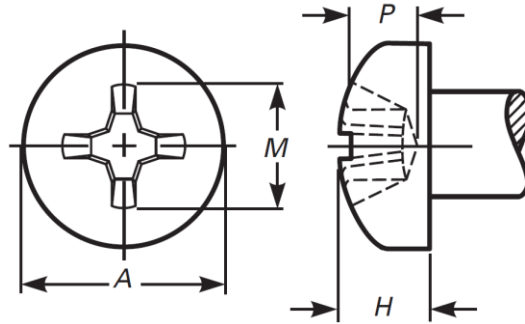
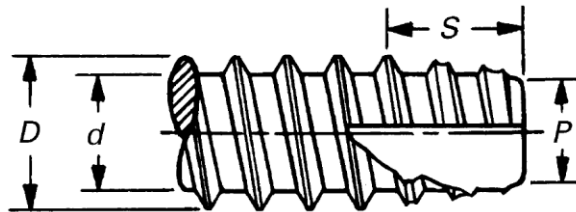


Thread Cutting Screw, Pan Head Cross Recessed, Type BT, Zinc

This product standard contains the required dimensional, mechanical, performance, and chemical characteristics of the products shown in this purchase order (as applicable to the product). Unless specified below, current revisions of national or international standards shall be applicable as of the date of Fastenal's purchase order and must be adhered to in their entirety. If the order received does not meet these requirements, corrective action may be issued which could jeopardize your status as an approved supplier to Fastenal.



Size	A		H		M	P		Driver Size
	Head Diameter		Head Height		Recess Diameter	Recess Gaging Depth		
	Max.	Min.	Max.	Min.	Ref.	Max.	Min.	
#2	.167	.155	.062	.053	.097	.052	.034	1
#4	.219	.205	.080	.070	.115	.071	.053	1
#5	.245	.231	.089	.079	.152	.072	.046	2
#6	.270	.256	.097	.087	.159	.080	.055	2
#8	.322	.306	.115	.105	.175	.097	.071	2
#10	.373	.357	.133	.122	.192	.113	.089	2
#12	.425	.407	.151	.139	.252	.124	.098	3
1/4	.476	.457	.169	.156	.274	.144	.118	3



RECORD OF REVISION CHANGES TO THIS DOCUMENT ARE LOCATED ON THE LAST PAGE

Size	D		d		P	S		Determinant for Point Length**
	Major Diameter		Minor Diameter		Point Diameter	Point Taper Length		
	Max.	Min.	Max.	Min.	Ref.	Max.	Min.	
#2-32	.088	.082	.064	.060	.058	.062	.047	5/32
#4-24	.114	.108	.086	.082	.079	.083	.063	3/16
#5-20	.130	.123	.094	.090	.087	.100	.075	7/32
#6-20	.139	.132	.104	.099	.095	.100	.075	1/4
#8-18	.166	.159	.122	.116	.112	.111	.083	9/32
#10-16	.189	.182	.141	.135	.130	.125	.094	5/16
#12-14	.215	.208	.164	.157	.152	.143	.107	11/32
1/4-14	.246	.237	.192	.185	.179	.143	.107	3/8

** Screws equal to or shorter than this length shall have a short screw taper length; screws longer than this length shall have along screw taper length

Specification Requirements:

- Dimensions: ASME B18.6.3
- Drive Style: Type 1
- Material: Carbon Steel
- Mechanical & Performance: ASME B18.6.3
- Thread Requirements: Rolled Thread per ASME B18.6.3
- Finish: Fe/Zn 3AN per ASTM F1941/F1941M
- Hydrogen Embrittlement: Baking to relieve internal hydrogen embrittlement is mandatory and shall be performed after electroplating prior to the application of conversion finish where baking temperatures can damage the conversion film. Baking may be allowed after conversion finish provided temperature does not alter performance. Part temperature shall reach 375°F to 400°F (190°C to 204°C) for a minimum of 4 hours, as soon as practical after plating. Hydrogen Embrittlement test results shall be maintained and supplied to Fastenal upon request.

Page 3 of 3	Fastenal Product Standard	REV-05
Date: July 9, 2019	<i>FASTENAL</i>	TCS.PPH.BT.Z

Revision Level Changes to this Document

Document Name	Revision Level	Revision Date	Rationale for Revision
TCS.PPH.BT.Z	04	1/15/2019	Revised image.
TCS.PPH.BT.Z	05	7/9/2019	Revised mechanical properties.

The rationale above may not include all of the changes within each revision. A complete review of the Fastenal Product Standard is required.