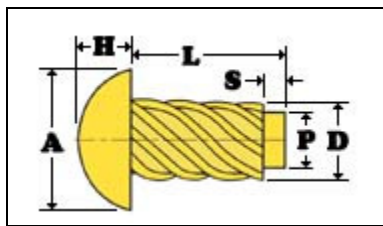




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## U-Drive Screws

U-drive screws (also known as hammer drive screws) are unslotted round head self tapping screws often used for attaching nameplates in castings and for sealing drain holes in corrosion proofing tubular structures. They possess multiple start threads with large helical angles and an unthreaded pilot point. Similar to nails they are driven into mating parts with a mallet or hammer for a quick and permanent assembly. No tapped threads are required in the mating part. However, the u-drive screw must be of harder material than the mating part and a undersized pre-drilled pilot hole is required.



Round Head U-Drive/Hammer-Drive Screws										ASME B18.6.4*	
Nominal Size	Threads per Inch (TPI)	D		A		H		P		Recommended Hole Size	
		Outside Dia		Head Dia		Head Height		Pilot Point Dia			
		Max	Min	Max	Min	Max	Min	Max	Min	Drill Size No.	Hole Dia.
.00	6	.060	.057	.099	.090	.034	.026	.049	.046	55	.052
0	6	.075	.072	.127	.118	.049	.041	.063	.060	51	.067
2	8	.100	.097	.162	.146	.069	.059	.083	.080	44	.086
3	8	.108	.104	.187	.169	.078	.067	.090	.086	40	.098
4	7	.116	.112	.211	.193	.086	.075	.096	.092	37	.104
5	7	.128	.124	.236	.217	.095	.083	.106	.102	35	.110
6	7	.140	.136	.260	.240	.103	.091	.116	.112	31	.120
7	8	.154	.150	.285	.264	.111	.099	.126	.122	29	.136
8	8	.167	.162	.309	.287	.120	.107	.136	.132	27	.144
10	8	.182	.177	.359	.334	.137	.123	.150	.146	20	.161
12	8	.212	.206	.408	.382	.153	.139	.177	.173	11	.191
14	9	.242	.236	.457	.429	.170	.155	.202	.198	2	.221
<b>L</b>	<b>Screw Length</b>	1/8	3/16	1/4	5/16	3/8	1/2	5/8	3/4	1" and over	
	<b>Tolerance on Length</b>	±0.02	±0.02	±0.02	±0.02	±0.02	±0.03	±0.03	±0.03	±0.03	
<b>S</b>	<b>Pilot Length</b>	.047	.047	.047	.047	.062	.062	.078	.078	.125	

NOTE: ASME B18.6.4 does not include dimensions for #3 & #5 diameters. Specifications for these sizes are extrapolations based on the ASME standard.

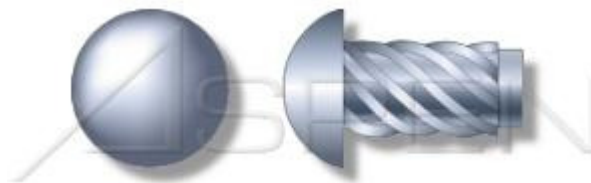


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<b>Description</b>	Unslotted round head drive screw having multiple start threads with large helical angle, and an unthreaded pivot point.	
<b>Applications/ Advantages</b>	For permanent assemblies in metals and plastics driven into mating parts with a mallet or hammer.	
<b>Material</b>	<b>Steel</b>	<b>Stainless</b>
	AISI 1016 - 1024 or equivalent steel	18-8 or 316 Stainless Steel
<b>Heat Treatment</b>	Quenched in liquid and then tempered by reheating to 650°F minimum.	-
<b>Case Hardness</b>	Rockwell C 45 minimum	-
<b>Core Hardness</b>	Rockwell C 28-38	Rockwell B 100 (approx)
<b>Case Depth</b>	No. 2 through 6 dia: .002 - .007 No. 7 through 12 dia: .004 - .009 No. 14 dia: .006 - .011	-
<b>For Use In</b>	Drive screws produce mating threads without shearing threads or fracture of the screw when driven into properly sized holes in test plates having a Rockwell hardness of B70 to B85.	Not recommended for use in materials of a hardness greater than Rockwell B 65.
<b>Plating</b>	Available in zinc and black oxide	Parts are typically supplied without secondary finishes.

## Aspen Fasteners Stocks the Following U-Drive Screws

### U-Drive Screws - Steel Zinc Plated



### U-Drive Screws - Steel Black Oxide Finish





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## U-Drive Screws - 18-8 Stainless Steel



## U-Drive Screws - 316 Stainless Steel

