



Tel.: 1-800-479-0056  
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## SQUARE DRIVE RECESS (ROBERTSON DRIVE) SCREWS

### Specifications & Dimensions

The square drive recess was the first recess-type drive developed with the intent for large volume screw production. Today, over a century later, square drive screws are widely available, inexpensive and have many advantages over other drive systems:

#### **More durable under heavy use:**

The shape of the square drive and the fact that the driver bit is deeply set within the recess allows for the delivery of greater torque to the screw head by providing an improved contact area with the surface of the driver bit. Consequently, the driver bit resists cam out and reduces stripping of the drive itself. For this reason, the square drive is often preferred when using power drivers and when greater torque is required. Furthermore the integrity of the drive is advantageous when repeated removal/re-insertion of the screw is intended. Also since the driver bit sits better in the square recess, the reduced slippage of the bit lessens the chance of the bit popping out of the recess and marring the surface of the material into which the screw is being inserted.

#### **Easier to use:**

The square recess is self-aligning as there are four possible positions to insert the driver. In addition, when the square drive recessed screw is placed on the driver bit, it remains in place making it possible to insert the screw with a single hand – ideal for tight spaces and/or when the other hand is unable to assist in securing the screw.

#### **Square drive available on many types of screws:**

Square drive recesses are available on many screw types. To accommodate different size heads, the square drive is available in 5 different sizes. (see Table 1). Square drive screwdrivers and bits come colour coded reflecting the particular size of screw and recess size (see Fig 1).



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Fig 1 Colour Coding for Square/Robertson Drive Screw Drivers and Bits

Colour	Screw Size	Diameter	Diameter Range
Orange (#00)	No. 1 & 2	1/16"	1.77–1.80 mm (0.070–0.071 in)
Yellow (#0)	No. 3 & 4	3/32"	2.29–2.31 mm (0.090–0.091 in)
Green (#1)	No. 5, 6 & 7	7/64"	2.82–2.86 mm (0.111–0.113 in)
Red (#2)	No. 8, 9 & 10	1/8"	3.34–3.38 mm (0.131–0.133 in)
Black (#3)	No. 12 & 14	3/16"	4.81–4.85 mm (0.189–0.191 in)
Blue (#4)	No. 16 & up	5/16"	

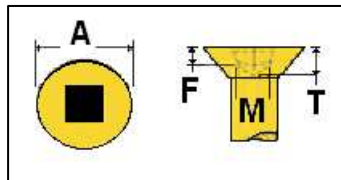


Table 1 Dimensions and Recommended Driver Size for Square Socket Drives

Nominal Screw Size		M		T		Driver Size	F	
		Recess Square		Recess Depth			Gauge Penetration	
		Max	Min	Max	Min		Max	Min
3	0.0860	0.0710	0.0696	0.073	0.063	0	0.038	0.032
4	0.1120	0.0710	0.0696	0.073	0.063	0	0.038	0.032
6	0.1380	0.0910	0.0900	0.113	0.105	1	0.065	0.057
8	0.1640	0.1126	0.1110	0.140	0.119	2	0.075	0.065
10	0.1900	0.1126	0.1110	0.140	0.119	2	0.075	0.065
12	0.2160	0.1330	0.1315	0.165	0.155	3	0.095	0.085
1/4"	0.2500	0.1330	0.1315	0.165	0.155	3	0.095	0.085
5/16"	0.3125	0.1910	0.1895	0.201	0.191	4	0.100	0.090
7/16"	0.4375	0.1910	0.1895	0.201	0.191	4	0.100	0.090



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Aspen Fasteners offers over 30 complete lines of screws (over 2000 parts) with square drives from stock in steel and stainless steel including:

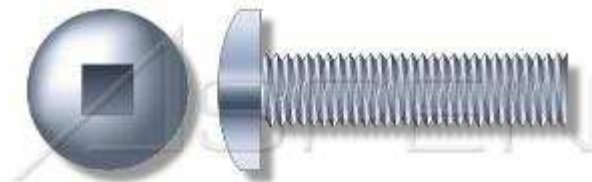
[Deck Screws](#)



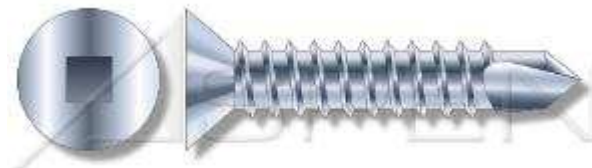
[Drywall Screws](#)



[Machine Screws](#)



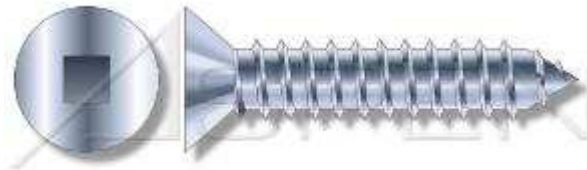
[Self-Drilling Screws](#)





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### Self-Tapping Screws



### Thread Cutting Screws



### Wood Screws



## Next-day delivery with UPS

Aspen Fasteners stocks full lines of square drive screws available for same day shipping from distribution centers across the USA. And remember, it's always **free** shipping using UPS regular ground service. Next day expedited delivery is also available for rush requirements.