



Screw Dimensions						Internal Tooth Washer					
	Thread Pitch	A Head Diameter		H Head Height		M Recess Diam	D Outside Diameter		Thickness		Phillips Drive Size
Nominal Size											
		Max	Min	Max	Min	Ref	Max	Min	Max	Min	P
M3	0.5	5.5	5	2.15	1.85	3.6	6.5	6.1	0.485	0.415	2
M4	0.7	7	6.5	2.75	2.45	4.2	8.5	8.1	0.485	0.415	2
M5	0.8	9	8.4	3.45	3.15	4.9	10.0	9.6	0.640	0.560	2
M6	1.0	10.5	9.8	4.1	3.7	6.3	11.0	10.5	0.640	0.560	3
								Nominal S	Screw Lengt	hs	
Tolerance on Length			Nominal Screw Size			Up to 1	lin to 1() mm				r 20 mm to mm, incl.
			M2.5			-0.4		-0.6		-0.8	

-0.6

-0.8

-0.6

-1

-0.8

-1

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M3 to M4

M5 to M8

Description	A cross-recessed, pan head machine screw with a free-spinning, captive washer. Directly below the pan head is an internal tooth lockwasher. The diameter and height of the pan head are between 5% and 20% smaller than a standard pan head.					
Applications/ Advantages	The washer/screw assembly makes this a locking screw with the washer providing the locking action. Machine pre-assembly provides cost savings to the end user. The internal tooth sems is recommended when it is desireable to hide the teeth for appearance or to prevent snagging.					
Component	Screw	Tooth Lockwasher				
Material	Class 4.8 carbon steel	C1050 Carbon Steel				
Hardness	Rockwell B 71 minimum	410 - 490 HV 5				
Tensile Strength	420 N/mm² (applies to screws with a minimum nominal length of 2.5d (where d is the nominal diameter of the screw)					
Plating	Sems are available in zinc yellow and clear zinc finishes, and baked after plating.					