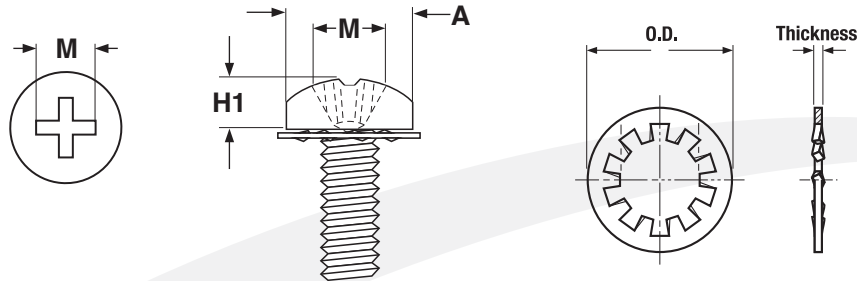


METRIC FASTENERS

SEMS

ISO 7045 Pan Phillips Internal Tooth L/W



METRIC - ISO 7045 PAN PHIL INTERNAL TOOTH SEMS											ISO 7045*
Machine Screw Dimensions							Internal Tooth Lockwasher Dimensions				Phillips Driver Size
Nominal Size	Thread Pitch	A		H1		M	O.D.		Material Thickness		
		Head Diameter		Height of Head		Recess Diameter	Outside Diameter		Max	Min	
		Max	Min	Max	Min	Ref	Max	Min	Max	Min	
M3	0.5	5.6	5.3	2.40	2.26	3	7.35	6.85	0.45	0.30	1
M4	0.7	8.00	7.64	3.10	2.92	4.4	8.75	8.25	0.60	0.45	2
Tolerance on Length							over 3mm to 6mm		± 0.24		
							over 6mm to 10mm		± 0.29		
							over 10mm to 18 mm		±0.35		
							over 20mm to 30mm		±0.42		

*Washers to ASME B18.13.1M

Description	A cross-recessed, pan head machine screw with a free-spinning, internal tooth captive lockwasher.			
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 variety is recommended when it is desirable to hide the teeth for appearance or to prevent snagging.			
Component	<i>Screw</i>	<i>Internal Tooth Lockwasher</i>	<i>Screw</i>	<i>Internal Tooth Lockwasher</i>
Material	Class 4.8 Steel		Stainless	
	C1008 or equivalent carbon steel	C1050 Carbon Steel	A2 Stainless	A2 Stainless
Hardness	Rockwell B 67 minimum	410 - 490 HV 5	-	-
Tensile Strength	60,900 psi.	-	72,500 - 101,500 psi.	-
Plating	Sems are available in a clear zinc finish and baked after plating.		Sems are provided with no additional finish	