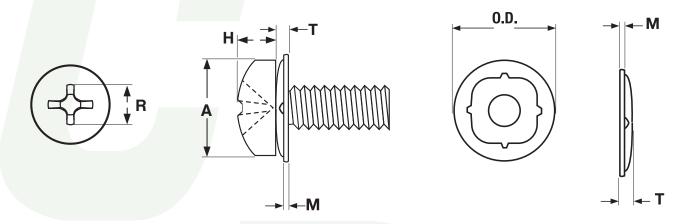
METRIC FASTENERS

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ISO 7045 Pan Phillips Conical L/W—Steel & Stainless

SEMS



METRIC - ISO 7045 PAN PHIL CONICAL WASHER SEMS ISO 7045												
Machine Screw Dimensions							Conical Lockwasher Dimensions					
	Thread Pitch	A Head Diameter		H Height of Head		R Recess Diameter Ou	O.D. Outside Diameter		T Total Height		M Material Thick- ness	Phillips Driver Size
Nominal Size												
		Max	Min	Max	Min	Ref	Max	Min	Max	Min	Min	
• M3	0.5	5.60	5.31	2.39	2.21	3.0	7.82	7.52	1.55	0.99	0.64	1
M4	0.7	7.99	7.63	3.11	2.82	4.4	8.48	8.21	1.66	1.32	0.76	2
					0\	over 3mm to 6mm			± 0.24			
					ov	er 6mm to 10	mm	± 0.29				
					over 10mm to 18 mm			±0.35				
					over 20mm to 30mm			±0.42				

[•] The M3 nominal diameter Sems screw utilizes a conical washer that is wider, higher and thicker than the original standard. This provides greater toughness to withstand required installation torques.

Description	A cross-recessed, pan head machine screw with a free-spinning, conical captive lockwasher.									
Applications/ Advantages	The conical washer Sems offers a controlled tension with minimal torque while providing a higher retained clamp load than possible with other styles of lockwashers. The Sems can withstand a high tension load and still have the conical washer maintain its spring action. This style of Sems is preferred when fastening more fragile materials since its load is spread to the outermost diameter of the lockwasher.									
Component	Screw	Conical Lockwasher	Screw	Conical Lockwasher						
	Sto	eel	Stainless							
Material	C1008 or equivalent carbon steel	C1050 - 1065 or equivalent steel	Class 302 Stainless	410 Stainless						
Hardness	Rockwell B 67 minimum	Rockwell C 40-48	-	Rockwell C 40-50						
Tensile Strength	60,900 psi min.	-	72,500 - 101,500 psi	-						
Plating	Sems are available in a clea	r zinc finish and baked after ing.	Stainless Sems are usually supplied without an additional finish.							