

DELTA PT®

Thread forming screw for plastics

Engineered to provide maximum performance in a wide range of thermoplastic materials, DELTA PT® is a tough fastener that provides safety and reliability in demanding applications. With its ideal thread flank angle, optimum thread forming is achievable without any material damage.

Features & Benefits

- Small 30° thread flank angle minimizes radial stress
- High axial forces allow optimal material flow into recessed thread root
- Optimum thread pitch provides maximum resistance to self-loosening and balanced load ration between plastic and screw
- High tensile and torsional strength
- Available in shorter fasteners and/or smaller diameters



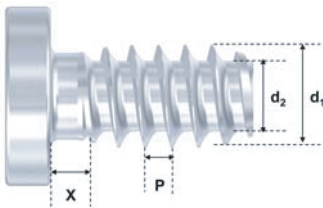
Material : Carbon steel and stainless steel.

Head Type : Available in any head style.

Point Type : Available in any point type.

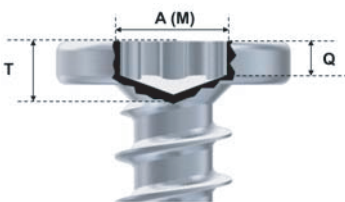
Recess : TORX®, TORX PLUS®, MICROSTIX® & JCIS Cross. Other recesses are available upon request.

Fastener Dimensions



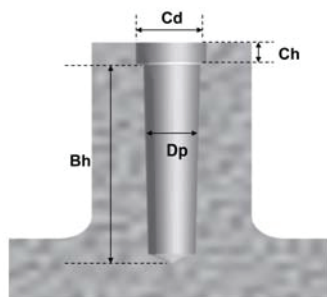
Part Name	Major Diameter d_1	Minor Diameter d_2	Thread Pitch P	Thread Runout X	Min. Breaking Torque	Min. Seating Torque
	mm	mm	mm	mm	Nm	Nm
Delta PT- 10	1.00	0.64	0.44	0.50	0.05	0.04
Delta PT- 12	1.20	0.78	0.51	0.60	0.10	0.07
Delta PT- 14	1.40	0.93	0.57	0.70	0.15	0.11
Delta PT- 16	1.60	1.07	0.64	0.80	0.23	0.16
Delta PT- 18	1.80	1.22	0.71	0.90	0.31	0.22

Recess Dimensions



Part Name	TORX PLUS®				JCIS Cross			
	Recess Size	Width A	Penetration Depth (Min) Q	Penetration Depth (Max) Q	Recess Size	Width M	Total Recess Depth (Min) T	Total Recess Depth (Max) T
		mm	mm	mm		mm	mm	mm
Delta PT- 10	3IP	1.17	0.30	0.45	#0	1.65	0.56	0.84
Delta PT- 12	3IP	1.17	0.35	0.50	#0	1.65	0.56	0.84
Delta PT- 14	3IP	1.17	0.35	0.50	#0	1.65	0.56	0.84
Delta PT- 16	5IP	1.45	0.50	0.65	#0	1.90	0.81	1.10
Delta PT- 18	6IP	1.75	0.50	0.65	#0	2.10	1.01	1.31

Recommended Pilot Hole Size



Part Name	Nominal Diameter d_1	Pilot Hole Size (Min) D_p	Pilot Hole Size (Max) D_p	Counter Bore Depth Ch	Counter Bore Diameter (Min) Cd	Counter Bore Diameter (Max) Cd	Boss Height Bh
	mm	mm	mm	mm	mm	mm	mm
Delta PT- 10	1.00	0.71	0.78	0.44	1.02	1.05	Thread length + 1 pitch
Delta PT- 12	1.20	0.87	0.95	0.51	1.22	1.25	
Delta PT- 14	1.40	1.02	1.12	0.57	1.42	1.45	
Delta PT- 16	1.60	1.18	1.28	0.64	1.62	1.65	
Delta PT- 18	1.80	1.33	1.45	0.71	1.82	1.85	

Manufacturing Range

Part Name	Nominal Diameter	Nominal Length													
		mm													
Delta PT- 10	1.00	3.00	3.50	4.00	4.50	5.00	6.00	7.00	8.00	9.00	10.00	12.00			
Delta PT- 12	1.20	3.00	3.50	4.00	4.50	5.00	6.00	7.00	8.00	9.00	10.00	12.00	14.00		
Delta PT- 14	1.40	3.00	3.50	4.00	4.50	5.00	6.00	7.00	8.00	9.00	10.00	12.00	14.00		
Delta PT- 16	1.60		3.50	4.00	4.50	5.00	6.00	7.00	8.00	9.00	10.00	12.00	14.00	16.00	
Delta PT- 18	1.80		3.50	4.00	4.50	5.00	6.00	7.00	8.00	9.00	10.00	12.00	14.00	16.00	18.00

Product Length Tolerance ± 0.30 ± 0.38 ± 0.45 ± 0.55

Initial product testing is recommended for optimum performance during assembly. For more information, please contact your nearest Unisteel representative.

DELTA PT® is a registered trademark of EJOT Verbindungstechnik GmbH & Co. KG.



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