

Set Screw Point Style Selection Guide

Tip: Set your PDF viewer to "Actual size" before printing to maintain scale.

Point Style Comparison and Selection

Point Style	Description	Holding Power	Shaft Marking	Best For
Cup Point	Circular cup indentation in point face	High	Creates dimple in shaft	General purpose, steel shafts
Cone Point (Full Dog)	Sharp 118° conical point	Very High	Requires pre-drilled dimple	High torque, precision location
Flat Point	Flat, smooth end surface	Low to Moderate	Minimal marking	Frequent adjustment, soft materials
Dog Point (Half Dog)	Cylindrical pilot extension	Very High (Shear)	Requires drilled hole	Heavy loads, precise positioning
Oval Point	Rounded, smooth end	Moderate	Low marking	Soft shafts (aluminum, brass)
Nylon Pellet	Soft nylon contact tip	Low	Zero marking	Precision shafts, delicate finishes

Point Selection by Application

Application Type	Recommended Point	Reason
General shaft collars (steel shaft)	Cup Point	Good balance of holding power and ease of installation
High-torque pulleys, gears, sprockets	Cone Point (with dimple)	Maximum holding power with positive location
Precision positioning (heavy loads)	Dog Point (with drilled hole)	Highest shear strength, prevents rotation under load
Frequently adjusted positions	Flat Point	Easy repositioning with minimal shaft damage
Aluminum or brass shafts	Oval or Nylon Point	Prevents excessive deformation of soft materials
Precision ground shafts	Nylon Pellet Point	No surface marking on expensive precision shafts
Temporary assembly or testing	Flat or Oval Point	Easy removal and shaft reuse without damage

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Shaft Preparation Requirements

Point Type	Shaft Preparation	Hole/Dimple Size	Depth
Cup Point	None (smooth shaft OK)	N/A	N/A
Cone Point	Pre-drilled dimple required	118° center drill or 90° twist drill	0.5-1× screw diameter
Flat Point	Smooth, flat surface	N/A	N/A
Dog Point	Drilled hole required	Match dog point diameter (+0.001" tolerance)	Dog point length + 1/16" min
Oval Point	None (smooth shaft OK)	N/A	N/A
Nylon Point	Smooth surface preferred	N/A	N/A

Note: Cone and dog points require precise shaft preparation for optimal performance. Cup and flat points work on unprepared shafts.

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