



TECHNICAL BULLETIN: INSTALLING ERGODYNE ANCHOR AND TOOL TRAPS™ TO TOOLS AND EQUIPMENT

// OVERVIEW

Connection points for tool lanyards are not always readily available on tools and equipment meant to be tethered or primary anchoring locations. The use of retrofit anchor and tool attachment solutions is therefore needed to create a compatible safe connection point for tool lanyards to complete the tethering system and prevent harmful dropped objects. These attachments come in a variety of designs and new solutions are being introduced to the market frequently. The question often arises, “what about the integrity of the tool or equipment being tethered or being anchored to, how does one know that the location they are applying the retrofit attachment point to is secure?”

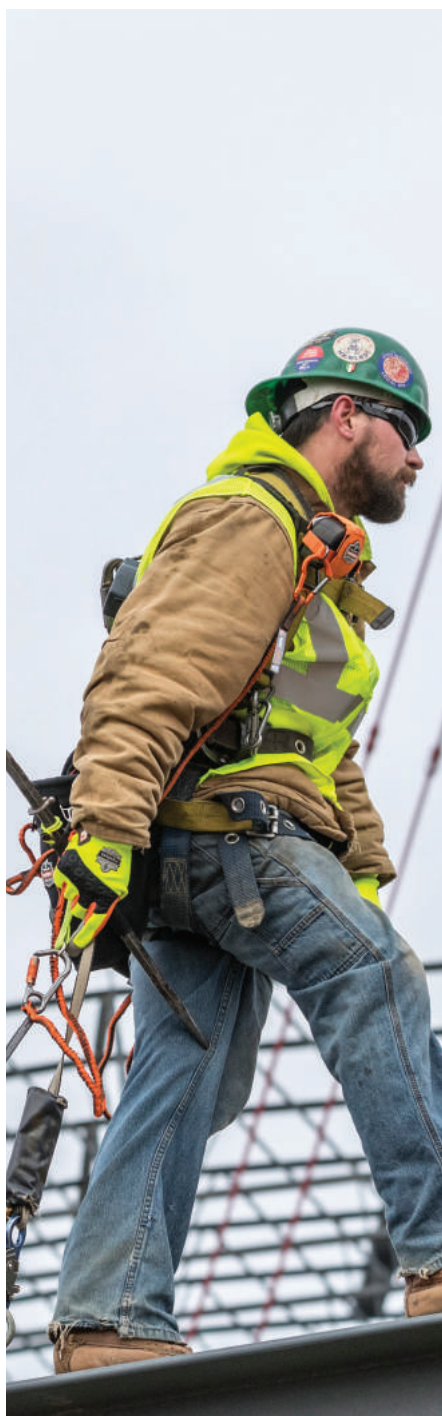
// ERGODYNE GUIDELINES

Ergodyne solutions are designed and tested with test fixtures that mimic the tools they are intended to be used with but cannot control the integrity of the tools and equipment itself. Ergodyne encourages users to ask a qualified person on their site or the manufacture of that tool or equipment for their recommendation on attachment locations.

// BEST PRACTICES

Ergodyne recommends the following best practices when considering locations for anchor and tool trap applications:

- » Assume all holes and other captive connection points built into tools, like holes on the end of a molded pliers’ handle, are meant for hanging in storage and are not intended to be drop prevention attachment points unless otherwise stated by the manufacturer of that equipment.
- » Never drill a hole, weld a ring or conduct any other modification of the tools and equipment that would disrupt the warranty or otherwise affect the tool or equipment’s integrity.
- » Position attachment points as far away from the open end of the tool as possible and follow the user instructions for installation.
- » Never apply the attachment in a location that may create a secondary hazard including applying near rotating ends (e.g. grinder discs); over ventilation of power tools (e.g. fanning slots on power tools); or in a way that covers any safety features of the tool (e.g. safety switches on a reciprocating saw).





// SQUIDS® POWER TOOL BRACKETS

Squids® Power Tool Brackets are designed as retrofit attachment points for tethering drills, impact drivers, grinders, pneumatic tools and other tools that have open screw ports built into the tool. These screw ports may be meant for attaching accessories belt clips (drills/drivers), handles (grinders), or air hose couplers (pneumatic tools). The design of the Squids® Brackets require them to be fastened to these locations.

The guidelines laid out in this technical bulletin are important to recognize for this application including the consultation of the power tool manufacturer regarding the integrity of these screw ports. Ergodyne conducted drop testing on different power tools including various brands and designs to show the positive results of these combinations. The results of this testing are as follows.

SQUIDS® POWER TOOL BRACKETS - POPULAR POWER TOOL TESTING REPORT

Brand	Tool Type	Model	Weight	Bracket Model	Fastener Size	Lanyard	Drop Height	Pass/Fail	Notes
Milwaukee (A)	Impact Driver	2462-20	2.25 lbs (1.0kg)	3796	M2.5	Steel Cable	7.5 ft (2.3m)	Pass	Battery
Bosch (B)	Drill	PA6-GF30	1.75 lbs (0.8kg)	3796	M4	Steel Cable	7.5 ft (2.3m)	Pass	No Damage
DeWalt (C)	Impact Driver	DCF885	2.65 lbs (1.2kg)	3796	M3	Steel Cable	7.5 ft (2.3m)	Pass	No Damage
Bosch (D)	Grinder	GWS9-45	4.5 lbs (2.0kg)	3797	M10	Steel Cable	7.5 ft (2.3m)	Pass	No Damage
Milwaukee (E)	Grinder	6117-33D	6.15 lbs (2.8kg)	3797	M10	Steel Cable	7.5 ft (2.3m)	Pass	No Damage
Rigid (F)	Stapler	R150FSE	2.55 lbs (1.16kg)	3798	N/A	Steel Cable	7.5 ft (2.3m)	Pass	No Damage
Dura-Block (G)	Rotating Sander	N/A	3.15 lbs (1.4kg)	3798	N/A	Steel Cable	7.5 ft (2.3m)	Pass	No Damage



A.



B.



C.



D.



E.



F.



G.

For questions about Ergodyne® dropped objects prevention solutions or how to design and implement a dropped objects program in your workplace, please call **800.225.8238** or email support@ergodyne.com.