# Synergy Multitrap Platform

Patent Pending

Simple assembly
Cup drops into funnel

The multiple funnel trap introduced by Dr. Staffan Lindgren has proven to be a versatile tool for trapping ambrosia, bark and wood boring beetles. However, after 35 years of use there were some features that we felt could be improved. We were inspired by the research of Dr. Peter deGroot, Dr. Darrell Ross, Dr. Dan Miller, Dr. Jeremy Allison, Dr. Joe Francese, Dr. Damon Crook and others to conduct our own trap design experiments over the last several years. We have implemented new innovations to the classic industry standard trap to bring you the Synergy Multitrap System.

The Multitrap System is built around a robust funnel and insect collection cup. From these basic two parts we have devised a set of modular parts from which a variety of trap configurations can be constructed as needed. The trap can be configured for heavy duty mass trapping applications or as a light weight survey trap. Moreover the trap can be configured as a multiple funnel trap or as a three vane panel trap or even as a combination of funnel and vane trap. Any configuration of the trap can use the optional “Allison Collar” which significantly improves captures of large wood boring beetles like Monochamus species.
An optional predator exclusion screen is available for mass trapping applications.

Side by side comparison of 8 unit
Lindgren funnel trap and
Synergy 5 Funnel Multitrap

New larger funnels will allow modern UHR release devices to be hung inside the funnels, exactly as Lindgren had originally suggested, in order to attain maximum dispersion of semiochemical plumes.

The insect collection cup has been enlarged from the original size and may be used in either wet or dry trapping applications. The redesigned dry cups have enlarged stainless screens mounted in the bottom for better drainage. The cup simply drops into place on the funnel eliminating the need for a special ‘bottom’ funnel. The path of insects falling into the collection cup is now unimpeded by ridges in traditional bottom funnels. The new Multitrap design prevents broken flanges on the cups and cups falling off the trap.

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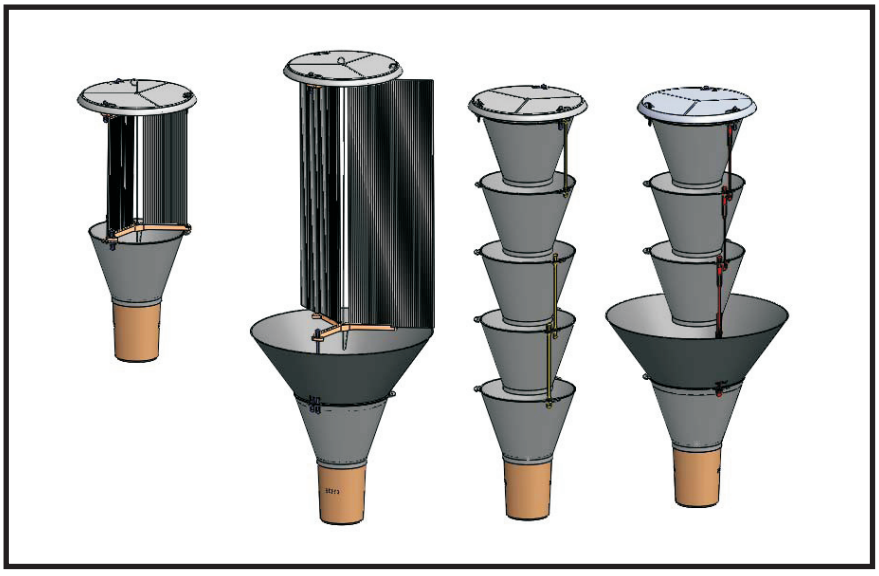
Color is a critical attribute when trapping Bruprestids like Emerald ash borer. The Synergy Multitrap System will empower experimenters to change trap colors easily when configured as a panel trap. Commercially available corrugated polypropylene (Coroplast) is available in a rainbow of colors and can readily be cut and mounted in the Multitrap. The three panel design is lighter than the conventional four panel trap, and will intercept insects flying from any direction while still retaining the same visual profile. Furthermore, three panel traps have superior performance to four panel traps in windy conditions because there is less surface area to act like a kite.

We have been listening to our clients and conducting our own research. The new Synergy Multitrap System is simple, adaptable, robust and offers better captures of higher species diversity when compared to conventional funnel traps.

We understand most clients have tight budgets. The Synergy Multitrap System is more economical compared to traditional traps.

**Multiltrap platform can be configured as a light weight panel trap. Panels come in a variety of colors and sizes.**



**Scale drawings of the adaptability of the Synergy Multitrap Platform**

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