The proven **soft-core fastener** that delivers solid results

**The Huck Asp® Fastening System**
As competition intensifies, manufacturing cost reduction comes into ever sharper focus. In assembly of honey comb sandwich and soft core panels, the traditional use of potted inserts for attachment bears a second look.

Huck pioneered the Asp (“Adjustable sustained preload”) fastening system in the middle 1960’s with the first application on the engine inlet of the F-111 aircraft. The specific requirement for the F-111 application was a double flush installation.

Subsequently, the system became the leading honeycomb and soft core solution throughout the airframe industry.

Unique ability to sustain optimum clamp force in service
The Asp fastening system is designed to provide a simple way of attaching sandwich or soft core panels to structure. It applies equally to metallic sandwich panels, composite sandwich panels or foam core panels. The following are the keys to its unique capability:

- Ability to install the “free running” female threaded component with exact and precise torque application resulting from the absence of prevailing torque type locking devices and the fine pitch threads. Crushing from inaccurate torque application is totally eliminated.
- Ability to subsequently install a mechanical high integrity lock ring in place, without applying any additional force (crush tendency eliminated) onto the panels. During lock installation, the fastener absorbs 100% of the installation swage force.
- As a result, the joint is tight and the mechanical lock guarantees reliable attachments in high vibration environments.

Only Asp offers the security of high level performance in high vibration and FOD critical applications.

Precision makes the difference in flush installation
With its ability to sustain optimum clamp force, Asp is ideal for delicate structure of honeycomb or soft core panels used in engine nacelles, wing or empennage surfaces, control surfaces, farings etc. The Asp is available in flush head configuration, double flush (flush pin, flush sleeve) or with protruding heads. Asp in the available double flush configuration uniquely achieves flush surface installation on both sides of the joined materials. After torquing and installation of the locking collar utilizing simple Huck tooling, a unique double flush fastener installation is achieved. For ultimate flushness on aerodynamic surfaces the installation side may be shaved with conventional rivet shaving tools, eliminating the slight protrusion of the pin.

A seamless synergistic fastening system
The key to superior performance is the synergistic combination of superior quality components, installation tools, and technical support only available from the industries best “service provider”.

EASY INSTALLATION
Asp can be easily installed in 4 quick steps. There is no need for potting, bushings, inserts or step-hole preparation, reducing installation time and increasing installer productivity.
The Asp Fastening system provides a seamless process that speeds assembly. The joints are consistently strong and durable. These capabilities maintain profitability by minimizing costs.

Asp is the only fastening system that provides the capability to incrementally adjust the clamp force to the individual needs and capabilities of the specific structural assembly. Asp has it all: A fully engineered system including installation tooling, a complete product line, superior lot-to-lot product consistency and on time delivery, all at competitive prices. Huck aspires to be your one-stop fastener supplier.

Asp offers superior value

Huck Asp offers a complete soft core fastening system including installation tooling. The system features alloy steel, stainless steel and Titanium fasteners. Available head styles are protruding, flush or double flush.

Huck is committed to on time delivery at competitive prices. In addition, only Huck maintains a team of field specialists, who are available for immediate telephone support or to visit your site on demand.

The sum total is superior value for the Asp product as well as for all your fastening needs from Huck.

To learn more about how the Asp Fastening System reduces soft-core fastening costs and increases installation efficiency, call 1-800-421-1459. Or visit our web site at www.huckaerospace.com. There you'll find all the technical information you need to maximize the benefits of the Asp Fastening System.

The Asp Fastening system has a record of service proven performance on most military and civilian aircraft. Some examples are the Boeing family of jet transports, Airbus, F-111, F-14, F-16, F-18, C-17 and others.

The Asp Fastening System is available in three configurations – full-shank diameter, reduced-shank diameter and variable-grip – each with multiple head styles, materials and surface coatings to match your unique aircraft applications.
For more information, visit our web site at www.huckaerospace.com. There you'll find all the technical information you need to maximize the benefits of Huck fasteners.

For a list of authorized distributors, please contact Huck International in Carson, California at 800 421 1459

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