**New Bypass Pin Kit from Halder**

**Red handle for improved safety**

**Imprint of the aircraft model on the streamer for simplified handling**

**Safety first! This maxim applies equally in the air and on the ground. Composed of a ball lock pin (the so-called steering pin), a retaining cable, and a red warning streamer, the Bypass Pin Kits made by Erwin Halder are vital pieces of Ground Support Equipment, e.g. when it comes to pushing the aircraft safely onto the runway. To ensure that the pins are not overlooked prior to take-off, Halder has now dipped the pin handles in the same flaming red colour as the warning streamers.**

To allow the tractors to push the aircraft onto the runway without effort, the steering pins deactivate the aircraft's own steering hydraulics. For this purpose, they are inserted into the steering axle of the aircraft. It is essential that all of these pins be removed prior to take-off to avert the most dire consequences. To keep the ground crew from forgetting their removal, the red warning streamers attached to the pins have lettering that reads “Remove before flight” (RPF flag). Benedikt Uhl, Aviation Products Sales at Erwin Halder KG: “Our Bypass Kits - and thus the warning streamers - are used in any type of weather. While all components are manufactured from high-quality and weather-resistant materials, there is always the possibility of the warning streamers becoming lost. Sadly, this also increases the risk of the pins being overlooked. This is why we have decided to boost the signal effect of the pins themselves by giving their handles a flaming red colour.”

Forming the core of the Bypass Pin Kits, Halder's ball lock pins are an excellent choice for connections that need to be undone frequently - e.g. during ground support and aircraft maintenance activities. The pin can be inserted into or removed from a bore hole with ease by simply pressing the button at the bottom end of the pin to unlock the balls. When the button is released, the balls will lock in place automatically. The T-handle – which Halder now pairs exclusively with their bypass pins – can be operated effortlessly even with gloves and affords the Ground Support crew exceptional ease of use.

**The matching pin with one move of the hand**

The Bypass Pin Kits are available from stock in small quantities for many aircraft models made by Airbus and Boeing. Larger quantities can be procured at short notice, and even kits for other models or types of aircraft made by different manufactures can be made available within short delivery deadlines upon request. Every pin is tailored exactly to each specific model. The ability to ascertain which pin fits which air plane hinges on a profound knowledge of all details. However, since it is often customary at airports to store the pins together with pins of various other types, grabbing the right pin with one targeted move is often difficult. To allow the ground crew to handle this job with greater ease, Halder is now printing each aircraft model designation, e.g. Boeing 747, on the warning streamers. This makes the tedious search for the matching pin a thing of the past.

Benedikt Uhl: “As we work in close cooperation with representatives of the industry, we are in a position to adapt our bypass pins to all specific requirements. An example: As it is inserted from bottom to top on the Boeing 747, the pin is at risk of slipping out. This is why the Bypass Pin Kit for the Boeing 747 is supplemented with an elastic lanyard with hook. This addition makes it possible to counter-lock the pin from the top.”

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Photo 1: Flame-red handles enhance the signal effect of Halder’s new bypass pins. This ensures that they will never be overlooked – even if the weather streamer is lost.

Photo 2: To provide the ground crew with a quick and easy way to distinguish between the bypass pins during daily use, the designation of the aircraft models is now printed on the warning streamers.

Photo 3: In an effort to adjust it to the specific conditions of use, Halder has supplemented the bypass pin for the Boeing 747 with an elastic lanyard plus hook.

Photos: Erwin Halder KG

**Meta-Data:**

Meta-Title

Red handle for bypass pin improves safety

Meta-Description

The handles on the ball lock pins in the new Bypass Pin Kits designed for ground support are now just as red as the warning streamer. This makes it easier to spot the pins for removal prior to take-off. Safety is improved.

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**About Erwin Halder KG**

In 1938, Erwin Halder began production of the SIMPLEX soft-face mallet, laying the foundation for the success the company enjoys around the world today with branches in Germany, France, Slovenia, South Korea, Japan and the United States. At the head office in Achstetten-Bronnen alone the company employs a staff of around 220, while the global workforce has reached over 400. The fate of Erwin Halder KG is currently controlled by Stefan Halder, representing the third generation of the family. Family-owned and operated, the company attaches supreme importance to peerless quality in all of their product segments. The company is in full control of the entire process chain – from development to production to global distribution.

The joint product range offered by Erwin Halder KG and Picard GmbH allows the Halder Group to provide the world’s most comprehensive selection of striking tools. Apart from soft-face mallets and forestry tools, Halder also produces and sells high-precision standard parts, modular fixture systems for clamping workpieces as well as aviation products. Conforming to DIN/ISO and factory standards, the product selection comprises roughly 12,000 standard parts including machine and fixture components, clamping elements, operating elements and machine elements. What is more, Erwin Halder KG is certified for production in compliance with aviation industry standards according to EN 9100:2016. The company's global clientele includes both local craftsmen and corporations operating in the high-tech industry. In addition to offering a standard selection, the company also possesses the expertise and experience necessary to tailor customised solutions to their customers’ specific needs.

**Learn more about Erwin Halder KG**

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