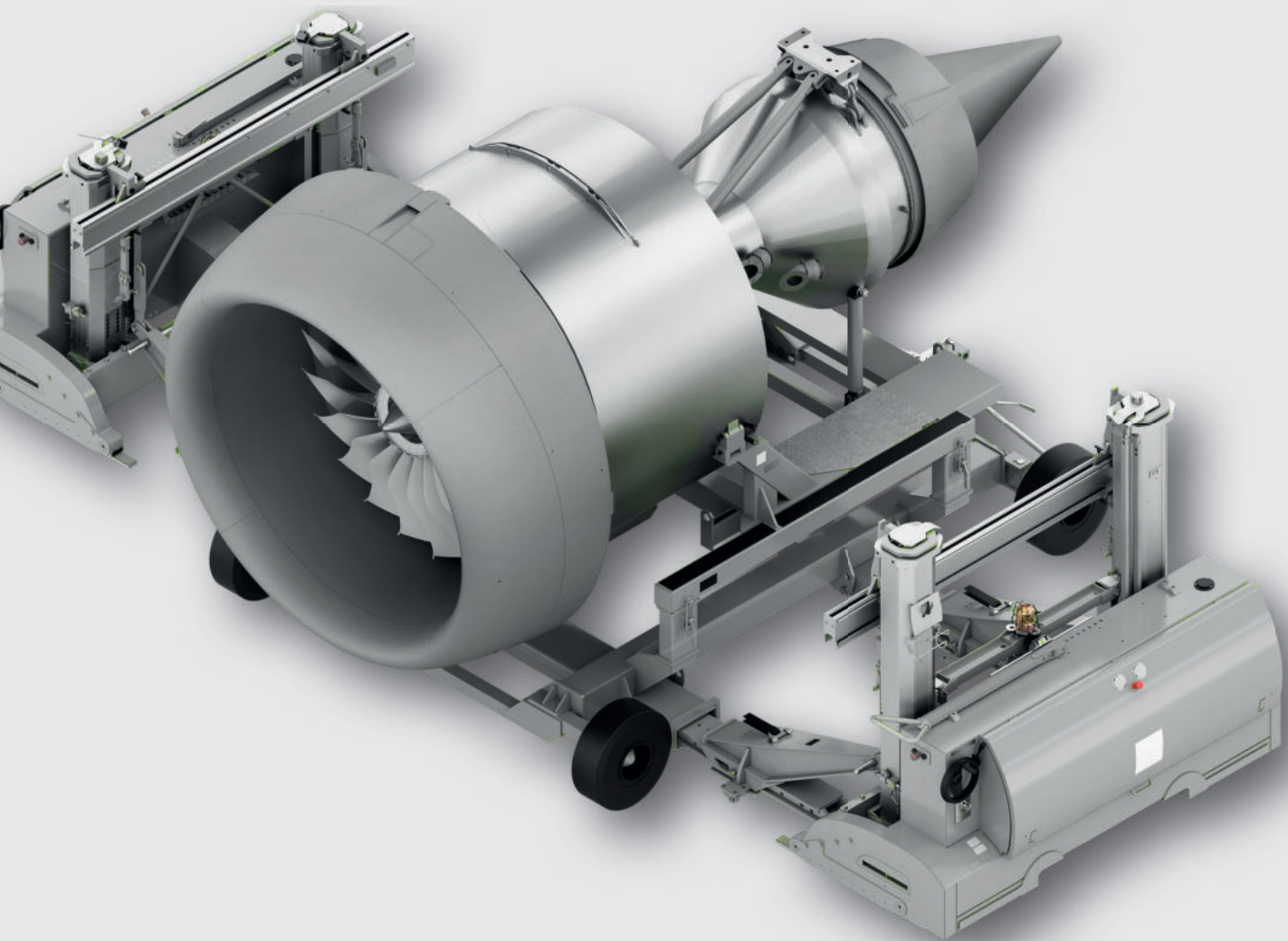




Precision in Aircraft Support

In safe hands.



COBRA FACELIFT UNIVERSAL ENGINE CHANGE SYSTEM

COBRA ENGINE CHANGE SYSTEM FACELIFT

The engine is the heart of each aircraft and has to be maintained and overhauled strictly. Our COBRA engine change system is the economic, safe and highly efficient system solution for your engine maintenance. It is compatible with all of today's commercial and military aircraft.

COBRA has been designed to ensure a fast engine change and to minimize operational failure and technical risks. This offers tremendous benefits by

reducing costs through minimal aircraft downtimes. COBRA is an extremely powerful and flexible system. With just one COBRA you can maintain almost all types of aircraft and engine combinations.

KITS FOR IMPROVED PRODUCTIVITY

- **Laser module:** For easy positioning of the COBRA underneath the pylon
- **Inclination sensor:** To measure the engine stand inclination (required if the personnel works on the engine stand during the engine change event)
- **Footplate wedges:** Footplate wedges to equalize floor inclination of up to 2 degrees
- **Positioning tools:** For an easy alignment of the COBRA units towards the engine stand
- **Installation tool:** For a better handling of the lifting beams
- **Data logger:** Data logging option for automated recording of the loads
- **Distance plates:** Recommended for low engine stand connecting points

AVAILABLE MODIFICATION KITS

- **New control panel:** For more comfortable operation of the COBRA engine change system and a real-time observation of the admitted loads
 - Update on the SPS and upgrade of the mobile panel "MP177" to "KTP900" and installation of the pressure sensor for the undercarriage
 - Update of the mobile panel "KTP700" to "KTP900" (depending on the year of manufacturing and SN, No. 1 or No. 2 is required to upgrade the control panel)
- **Numerical scale:** For easy setup of cross beam and load cell
- **Improved parameter settings of hydraulic motor:** New parameter settings for more precise positioning
- **Control cabinet:** Increased IP and stability
- **Adjustment aid for cover sensor:** With the help of clay it is very easy to adjust the sensors and they should be within the acutating range



Engine change on an A220
PW1500

<https://youtu.be/O4Z0NPGkN40>

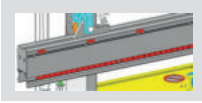
Engine change on a B777F
GE90-110

<https://youtu.be/cAJBYMvtW0I>



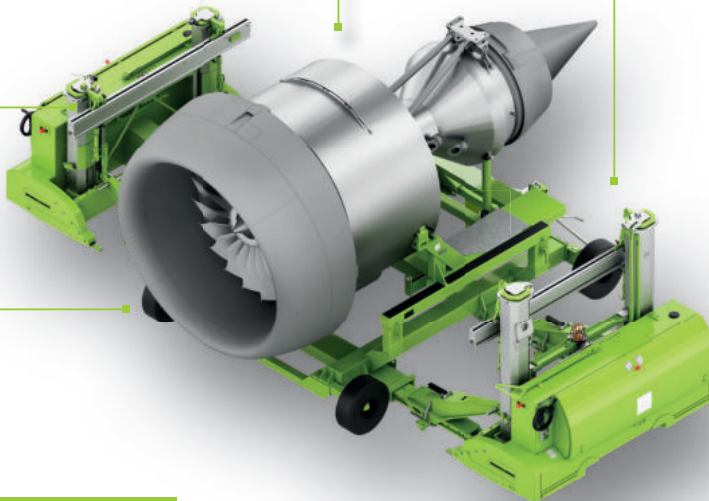
+ LOAD CELL AND CROSS BEAM SCALE

The preparation time for an engine change is a big cost driver. For a faster and more straight connection of the adapters and COBRA we designed a numerical scale for load cell and cross beam settings. The right position will be shown in the COBRA information sheet which comes along with the new COBRA units or numerical scale upgrade kit.



+ LASER MODULE

The laser modul supports the user in the correct positioning of the Engine Stand underneath the pylon.



+ INCLINATION SENSOR

The inclination sensor monitors the incline of the Engine Stand which is lifted by the COBRA. It support the health and safety regulations for engine events.



+ POSITIONING TOOLS

Another time saver will be introduced with the positioning tools. The distance elements will allow a quick alignment of the COBRA towards the engine stand and helps to hold the right distance until the connection of the COBRA units and the engine stand is fixed.



+ NEW CONTROL PANEL: KTP 900



The new 9" touch panel allows a fast set up for each engine and cradle combination and a better visualization of the load sharing in the system. For operators the COBRA units are easier to control and so the safety standard reaches a new level during engine events.

Options like a data logger function and data transfer via wifi connection to the hangar system is available upon request. The system can help to optimize your work flow day by day.

+ PRESSURE SENSOR

Integration of two pressure sensors for prevention of undercarriage overload. The longevity and serviceability of the units will be supported for your daily business.

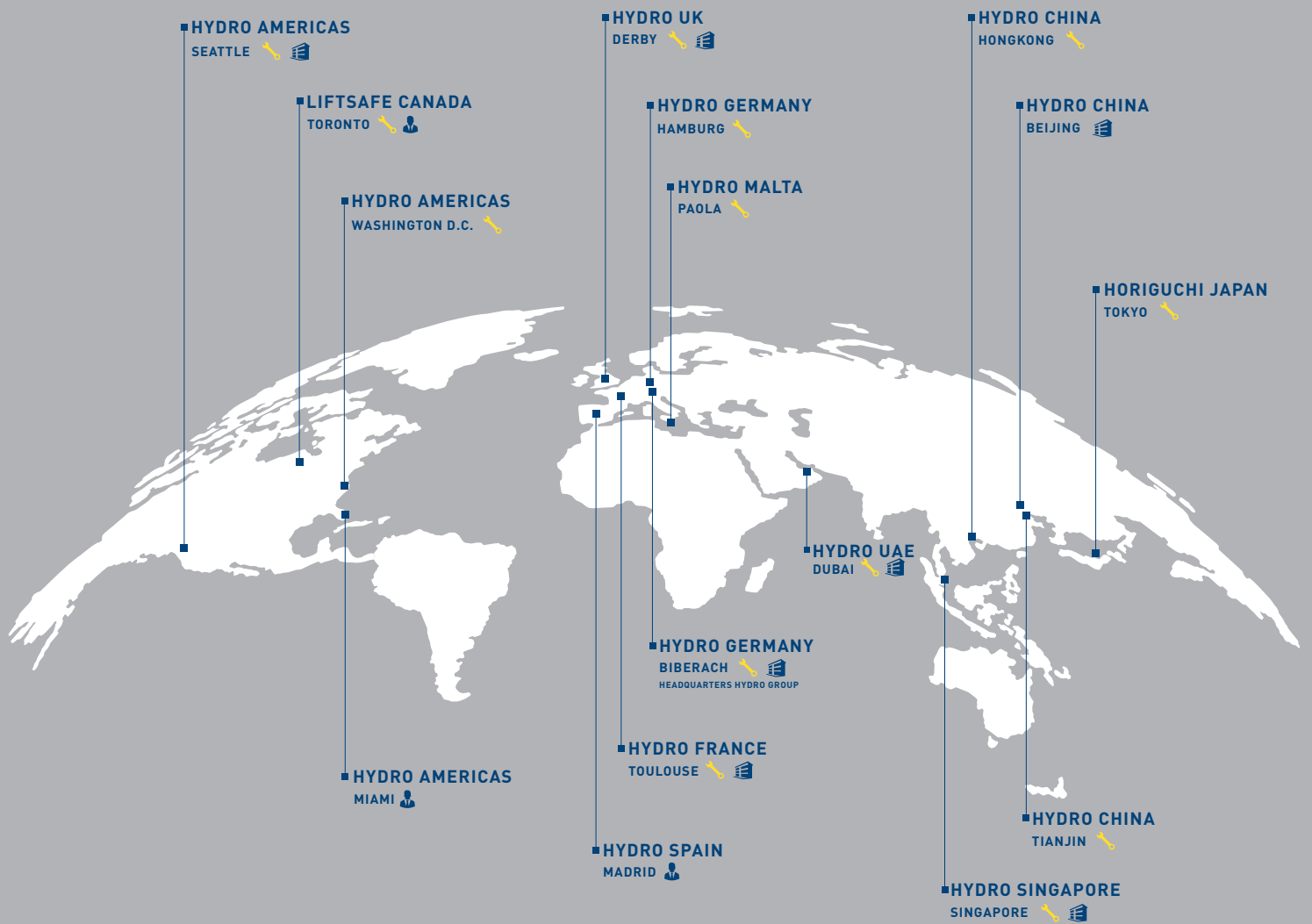
+ FOOTPLATE WEDGES



The plug and play helper when it comes to floor inclination for example in drain areas. The wedges can equalize inclination of up to 2 degrees, maintaining the safe stand of the COBRA system and helps to avoid delays arising by side load errors.

+ REINFORCEMENT OF THE HYDRAULIC MOTOR

Advanced testing sequences were showing the potential of the hydraulic system installed in each HYDRO COBRA. Through the new parameter setting the COBRA movements will be more accurate and side loads can be compensated in a quicker mode.



WORLDWIDE FOOTPRINT

 SALES REPRESENTATIVE

 SERVICE CENTER

 MAIN OFFICE

HYDRO SYSTEMS KG

Headquarters

Ahfeldstrasse 10
77781 Biberach/Baden
Germany

Phone: +49 (0) 7835 787 - 0
Fax: +49 (0) 7835 787 - 8888
info@hydro.aero

www.hydro.aero



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