

Quick connection solutions for «Engine plants»

Automotive Industry



STAMPING



BODY SHOP



PAINT



ASSEMBLY



ENGINE



Our experience in the automotive industry,

Experts in energy connections for more than 50 years, Stäubli has established itself as a privileged partner of the world's leading automotive manufacturers. Our expertise and international organisation allow us to capitalise on this experience and know-how, while maintaining a close customer relationship through our regional offices. Our regional teams are made up of specialists in the automotive industry. A thorough understanding of your applications allows them to provide you with innovative and reasoned solutions at every stage of your manufacturing process.

Stamping, bodyshop, painting, assembly and engine testing... our connection solutions combine efficiency and safety at each of these production phases: mono-couplings, electrical connectors, simultaneous connection systems for energy circuits, tool changers, etc.

Our assets:

- Our extensive experience in the automotive industry and the specific characteristics of each of its sectors have enabled us to develop a wide range of connectors and complete dedicated systems.
- Drawing on our expertise in connector technology and owing to the synergy of our technical and sales teams, we are constantly innovating to develop products intended to equip future workshops with high-performance solutions.
- Stäubli is recognised for its ability to design custom solutions, to offer assistance in drawing up specifications and to analyse your applications in detail to overcome the challenges presented.

Due to their reliability, performance and ingenuity, Stäubli connection solutions contribute to increasing the productivity and competitiveness of your installations.



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driving your industrial performance.

For your Engine Plants, wherever there are connections, Stäubli offers solutions that guarantee performance:



machining of parts

- non-spill quick connections for filling and emptying hydraulic modules
- pneumatic connections for compressed air hook-ups, air guns and pneumatic tools
- connecting electrospindles in machining centres



assembly

- connections for filling and purging engine oil systems



engine testing

- simultaneous energy connections between pallet and test bench
- connections between pallet and engine plugs

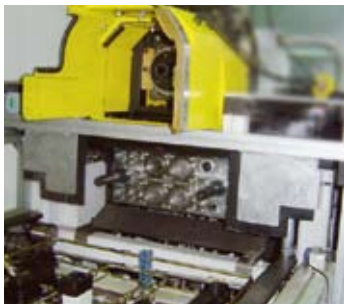


Engine testing

For hot, cold and leak testing, discover our wide range of connection solutions designed to adapt to all configurations:

- engine on trolley, manually transported to the test bench
- engine on automatic pallet
- manual placement of the engine on the test bench.

test bench side



Connection of the pallet to the test bench

Stäubli's centralised multi-connection systems save time and increase levels of safety:

- connection of all energy systems in a single action: fuel, coolants, water, air, oil and electrical information
- the flush-face, non-spill design ensures no contamination on disconnection
- guide system coupled with the floatability concept to compensate for misalignment between the test bench and the trolley.

engine pallet side



“Custom” solutions integrating all the characteristics of your applications

Defined according to your specifications, our systems are fully compliant with all your requirements.

- types of fluids,
- flow rate,
- dimensions,
- number of systems,
- misalignment,
- locking system.



Reduced and simplified maintenance

- the connections can be easily removed from the front panel.
- protectors on the plates protect connections from impacts when the engine on the pallet is moved.
- our connections, equipped with a built-in misalignment compensation system, allow rigid piping to be used between the plate and the pallet connectors.

Front panel disassembly



Protection system



Rigid piping



Depending on your requirements, we also offer a wide range of mono-couplings and hoses for connecting various engine fluids: air, fuels, oil, etc.

- couplings with shut-off valve
- flush-face non-spill design
- material compatibility

Mono-couplings





Energy connections between the pallet and the engine plugs: fuels, water, air and oil

Our plug-based connection solutions are strictly compliant with the engine manufacturers' definition standards for plugs.

Ease of handling and functionality

In order to guarantee accessibility and full integration into the engine environment, the connections are "custom made": length, elbow, etc.

Upon request, a simulation of connection locations and stereolithography models are possible.

Sealing

The use of perfectly tight connections offers numerous advantages:

- enhanced test reliability
- increased productivity
- impeccable cleanliness, on the engine side and the test bench side

We also offer solutions complete with piping systems.

Water



Fuels



Oil – Air





Machining equipment

Hydraulic connection for oil pan drainage operations (in accordance with CNOMO standard).
Pneumatic safety connections and tools.



Engine oil filling and checking

Tailored to your engine's threads, Stäubli quick-release coupling solutions offer clear advantages.

Perfect sealing due to flush-face non-spill design:

- reduced oil consumption: the oil remaining in the plug during removal is trapped between the 2 valves and does not drip.
- no contamination of the workstation and storage reservoirs when screwing connectors on and off.

Enhanced accessibility and ergonomics due to extended plugs on request.

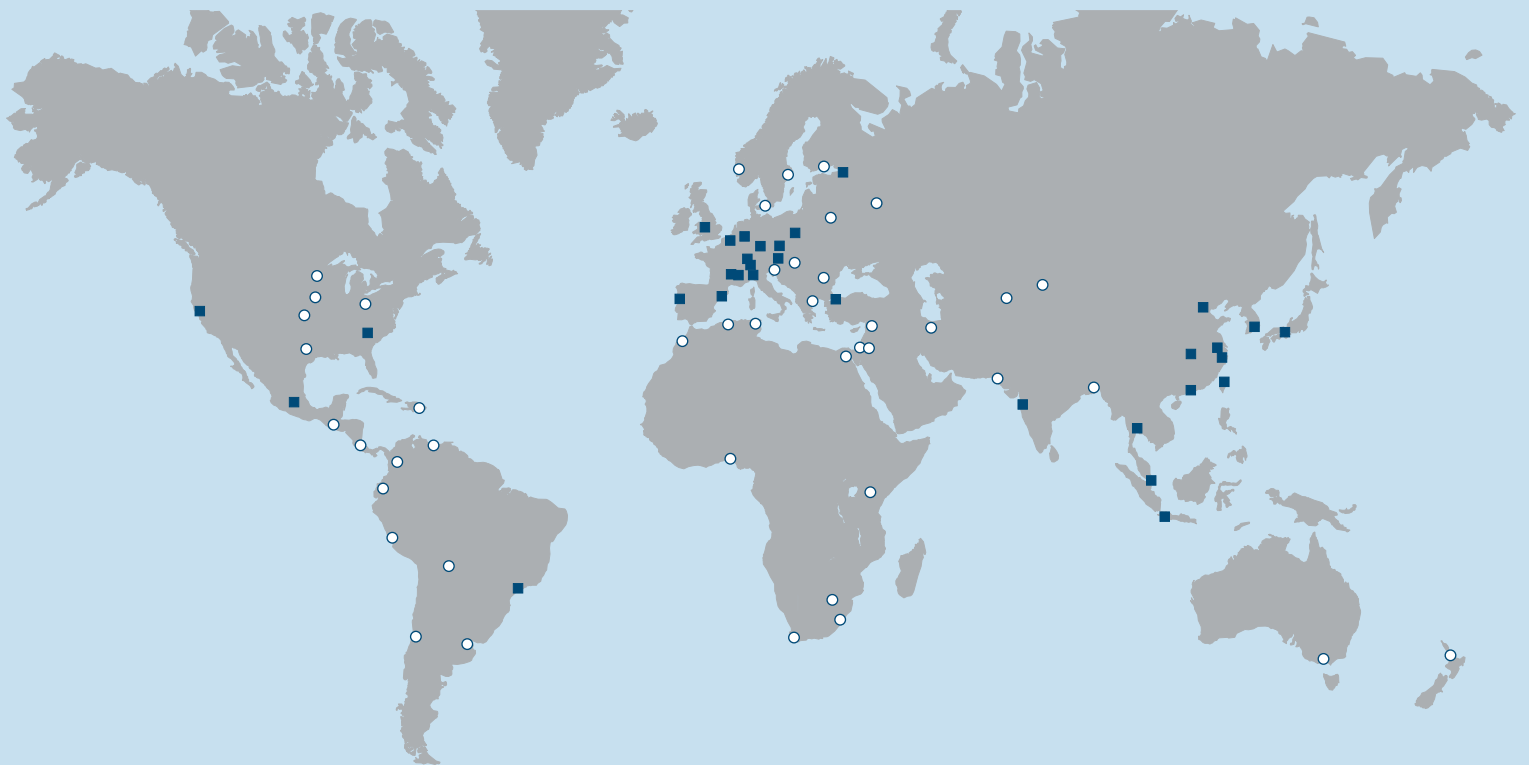
For automatic filling operations, our SPH range features a pre-centring system designed to compensate for misalignments specific to automated connections.

For manual filling operations, the CBI series of couplers offers an economical yet high-performance solution.

For manual applications intended to become automatic, the "manual" version of the SPH series is also available.
This solution allows the plugs to be retained when moving towards an automated connection process.



For contact details: www.staubli.com/connectors/contacts



Global presence of the Stäubli Group

- Stäubli units
- Agents

International sales coordination

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