

SUCCESS STORY



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BÖLLHOFF

Husqvarna and Böllhoff: A success story

Husqvarna Group

Husqvarna– Swedish engineering since 325 years

In 1689 anciently founded as a royal weapon manufacturer in the Swedish town Huskvarna, the Group is today the world's largest producer of products for the garden and landscape sector, forestry and the construction industry.

A high innovation force and the continuous realisation of new technology standards have influenced the companies' development significantly.

Currently, Husqvarna produces innovative outdoor power products including robotic lawn mowers, garden tractors, chainsaws and trimmers. For instance, the best known brands are Husqvarna, Gardena, Jonsered and McCulloch.

About 14.000 employees in more than 40 countries work for the well-known group. Production sites are chiefly situated in Europe, Asia and in the United States. The companies' official headquarter is located in the Swedish capital Stockholm, though the main production facility is still in Huskvarna.



Product

For more than 20 years, Husqvarna produces successfully robotic mowers called Automower®. They cope with the challenge of complex lawns, do not mind any bad weather conditions and work extremely discreet and quite. Due to the battery operation, the Automower® produce no harmful emissions and energy consumption is kept on a low level as well. After a unique installation, the mowers operate independently and provide permanent well-tended lawn. By using the „My Automower® App“, it is even possible to set or start the product from afar.

Initial situation

Within the Automower® development, Husqvarna performs several extensive tests. Under difficult conditions, for instance the cutting on soiled grass or the using of special Arizona Road Dust (standardised test dust in order to determine the leak tightness of different housings), the functionality is proven. Additional crash tests guarantee the products' longevity. An invisible installation of fasteners is also required for the purpose of realising an appealing design of the robotic mower.

ry on an international lawn!



Product fleet of the Automower® made by Husqvarna

The solution SNAPLOC®

In order to meet these demands, the Swedish company relies now on SNAPLOC® plug-in connections. These turned out to be very reliable during an annual test phase and were able to resist unscathed all extensive stress situations. SNAPLOC® couplings (ball diameter 10 mm) are fastened on four different points of the 50 cm x 50 cm Automower® housing. The assembly and disassembly of the SNAPLOC® ball studs and couplings lead to a considerable production process simplification for Husqvarna, since the housing could be plugged on easily. Since the SNAPLOC® system is not visible on the robotic mowers' surface, the required attractive design is given. Furthermore, the noise and vibration-decoupling function of SNAPLOC® contributes significantly to the low noise emission. Due to positive experiences, the future use of SNAPLOC® ball studs and couplings for the intended new Automower® generation is also guaranteed.

SNAPLOC® – Fastening system

SNAPLOC® is a two-part system – ball stud and coupling – for fast installation. The coupling is inserted into the bottom of the respective cover in a specially designed mounting and held in a closed-form. Inside the coupling a ball socket is formed, in which the ball stud as the counterpart can snap into. The ball stud is assembled to the underbody of the Automower®. Simply push-fit to connect and pull apart to detach – SNAPLOC® provides optimal fastening.

Customer benefits

- Fast and easy assembly
- Cost-effective
- Easy integration into the customers' component

Product characteristics

- Decoupling of vibration and noises
- Tolerance compensation



Böllhoff International with companies in:

Argentina	Korea
Austria	Mexico
Brazil	Poland
Canada	Romania
China	Russia
Czech Republic	Slovakia
France	Spain
Germany	Switzerland
Hungary	Turkey
India	United Kingdom
Italy	USA
Japan	

Apart from these 23 countries, Böllhoff supports its international customers in other important industrial markets in close partnership with agents and dealers.

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