

FORMHAND AUTOMATION GMBH

MAKE IT BECKER.



INDUSTRY 4.0 IS CHANGING INDUSTRIES LIKE NEVER BEFORE. GERMAN START-UP COMPANY, FORMHAND, TOOK ADVANTAGE OF A GAP IN THE PICK & PLACE SECTOR TO OFFER MORE FLEXIBILITY AND OPPORTUNITIES TO MANUFACTURERS. THE COMPANY INNOVATED SELF-ADAPTING GRIPPING PADS ABLE TO ENSURE SECURE ROBOT-DRIVEN GRIPPING OF OBJECTS OF ALL SORTS OF SHAPES AND SIZES, FLEXIBLE OR LIMP, TEXTILES OR FOILS.

COMPANY DETAILS

 **FORMHAND**

COMPANY: FORMHAND Automation GmbH

COUNTRY: Germany

INDUSTRY: Handling Technology

WEBSITE: www.formhand.de



CHALLENGE

One of FORMHAND's main challenges was to find a vacuum technology partner to complete their technology. Their game-changing invention required a high volume of vacuum flow in order to grip objects. The company also felt it important to work with a German medium-sized family-run company, and Becker's reputation as a proven vacuum specialists fitted FORMHAND's criteria.

"We've been supported by true German engineering. Becker's wide range of vacuum pumps allowed us to find the right solution for our customers."

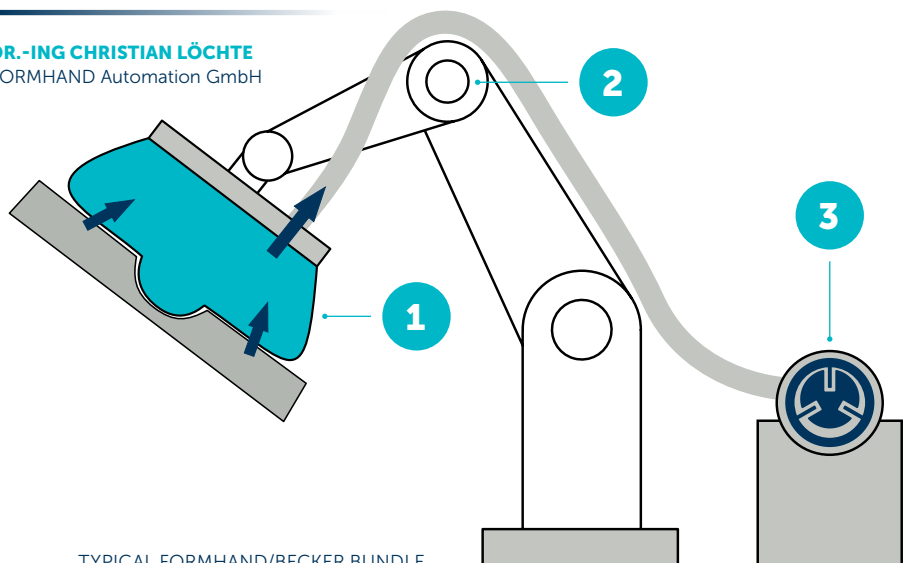


BECKER INVESTIGATES

Becker and FORMHAND held a successful best practice day. Products from both companies were used to undertake a test run. Continuous collaboration right from the beginning and dialogue addressed challenges and issues, established requirements, and enabled the search for the ideal pick & place & fix solutions. The result was a perfect combination of FORMHAND handling technology and Becker vacuum technology.

As seen in the graphic on the right side the grippers (1) comprise a cushion filled with granules that allow it to adapt to different shapes. The gripping pad is connected via a booster hose (2) with the vacuum generator from Becker (3) and generates the air evacuation for gripping.

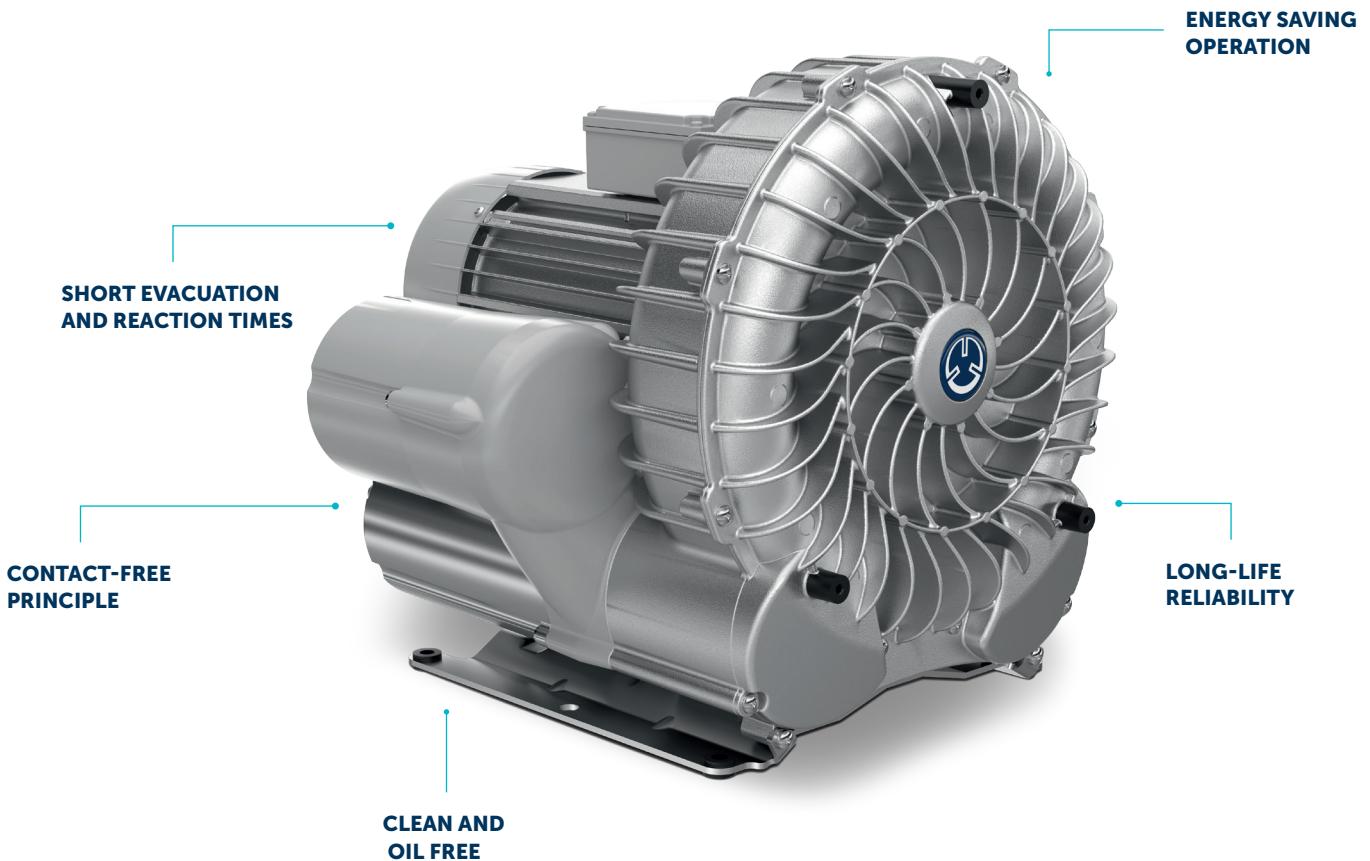
DR.-ING CHRISTIAN LÖCHTE
FORMHAND Automation GmbH



TYPICAL FORMHAND/BECKER BUNDLE

 **BECKER**

BECKER SV PUMP FEATURES



THE IDEAL SOLUTION

Our engineers identified side channel blowers (SV) in combination with a frequency inverter (VARI AIR Technology) as the ideal solution for FORMHAND. The SV is universal and delivers high volume flow at moderate pressure, ensuring that even challenging porous materials can be handled. The compact design of the VARI AIR UNIT is essential in robotics, while the filter unit and silencers are built in.

WOULD YOU LIKE TO FIND OUT WHAT BECKER COULD DO FOR YOUR OPERATION?

Then contact your local Becker sales representative or visit becker-international.com

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RESULTS

Becker vacuum technology provides the basic building block for FORMHAND's solution. The precise amount of airflow is essential to this technology and Becker's smart technology allows the company to differentiate itself in the market. FORMHAND universal grippers in combination with Becker's flexible volume flow technology means that customers can reduce the need for conventional grippers by up to 70%.

The Becker-FORMHAND collaboration was open and honest, and for Becker, this unique opportunity provided a new connection in the pick & place sector. The association between FORMHAND, which represents youth and innovation and Becker, which stands for tradition, strengthens both brands and presents an excellent opportunity to attract new customers.



BENEFITS

- 100% more volume flow with VARI AIR for SV Pumps compared to conventional blowers
- Reduced service effort
- Energy-optimized system operation



BECKER SOLUTION

- After going through various coordination processes with the customer, both the products of Formhand and Becker have been turned to working together perfectly
- Ongoing communication concerning new challenges in the market, always looking to optimize the solution - together