

ASM ASSEMBLY SYSTEMS

MAKE IT BECKER.



ASM ASSEMBLY SYSTEMS - WITH ITS DEK PRINTER PLATFORM, ASM INSPECTION SYSTEMS, AND SIPLACE PLACEMENT SYSTEMS - IS A BUSINESS SEGMENT OF ASM PT. FOLLOWING THE MISSION "ENABLING THE DIGITAL WORLD" ASM DEVELOPS INTEGRATED SOLUTIONS FOR SMT MANUFACTURING. ASM EMPLOYS AROUND 2,500 PEOPLE WORLDWIDE AND HAS PRODUCTION FACILITIES IN GERMANY, UK, SINGAPORE, CHINA AND MALAYSIA. ASM AND BECKER BEGAN COLLABORATING AFTER MEETING AT MUNICH'S PRODUCTRONICA SHOW IN 2011.

COMPANY DETAILS



COMPANY: ASM Assembly Systems

COUNTRY: Asia

INDUSTRY: Electronics

WEBSITE: www.asm-smt.com



CHALLENGE

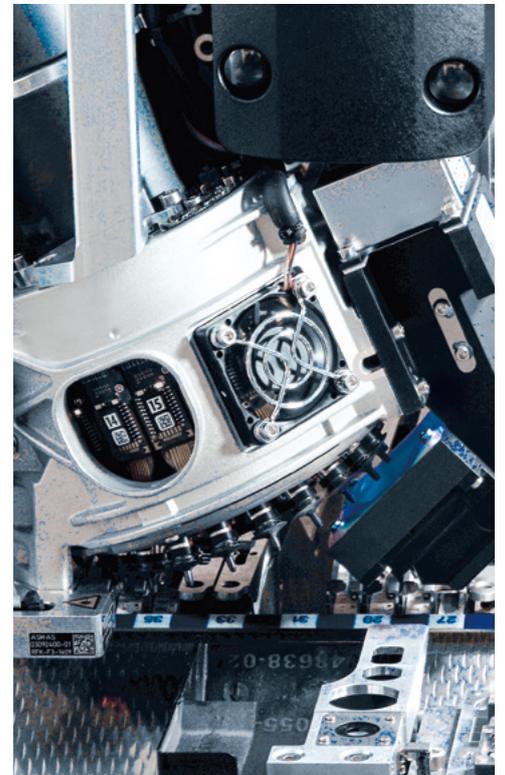
ASM decided to investigate alternative solutions to the ejectors they used. The compressed air required to operate them was expensive to supply because of the amount of electricity needed to convert compressed air in order to create a vacuum. Added to this were the high maintenance costs from compressor units, dryers and regulators before reaching the ejector. This supporting equipment is necessary in order to ensure the ejector works optimally. As the central air compressor is usually shared by other machines, it is difficult to maintain a constant and guaranteed amount of flow rate required by the ASM machine itself.



BECKER INVESTIGATES

With ASM's challenges established, Becker's engineers set about identifying the ideal solution that would meet ASM's needs exactly. With a sound understanding of the general condition of the piping system to be met, an optimal operating point was established and we were able to come up with a shortlist of possible solutions. Being involved at the beginning of the development stage means possible mistakes are easily avoided and costs saved in the long term. Moreover, systems can then be designed to precisely match according to air demands, leading to optimal levels of productivity and efficiency.

**"How BECKER convinced ASM?
With more than 20,000 maintenance-free hours of service and an extremely high vacuum supply availability for their placement head."**



SIPLACE SPEEDSTAR

HOLGER FALK,
SENIOR MANAGER, INTERNATIONAL SALES DEPARTMENT, GEBR. BECKER GMBH



BECKER VX PUMP FEATURES



THE IDEAL SOLUTION

Our engineers highlighted the Becker VX pump as the ideal solution. The customized version is installed at ASM's facility. These vacuum pumps are technically advantageous compared to compress air pumps for surface mounted technology (SMT), which eliminate the processes of emitting oil mist into the production area. The printed circuit boards must be produced in clean and dry conditions.

Becker customized VX pumps provide a decentralized air source for each placement machine that is independent of compressed air and do not require an extensive piping system. The vacuum pumps are oil free, thereby maintaining a clean environment, and come with a two-year warranty. Customizing the pumps to suit ASM's machine interior meant there was no need to compromise necessary functions like cooling or access for maintenance purposes.



RESULTS

Becker delivered thousands of VX pumps to both German and Asian plants. One great advantage of these Becker solutions is that a SMT placement machine with a vacuum pump on board enhances flexibility.

Once installed, ASM has experienced more than 20,000 maintenance-free operating hours – which amounts to 24/7 operation over two and a half years – with constant vacuum supply availability. Finally, close international cooperation between European and Asian sites has enabled the highest degree of attention and personal service.

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



BENEFITS

- Reduce costs – save up to €1,760 annually
- Extremely precise
- Extended maintenance schedule
- Can be installed in separate room or ducted
- Safe operation



BECKER SOLUTION

The VX pumps operate more than 20,000 hours, which amounts to 24/7 operation over two and a half years. Another impressive benefit the pumps provide is the significant reduction in operating costs, such as energy and maintenance.

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