



## BVG with Further Growth

In 2019 BVG was successful in expanding its market share in Germany. BVG was honored to take part at three major projects; at Hamburger Containerboard (Spremberg) PM 2 for CWTL, Propapier Sandersdorf Brehna with the PM 3 for OCC grades, and Papierfabrik Palm Aalen with the PM 5, also for OCC grades. BVG market share amounted to approximately 70% of the investment for the chemical processing equipment on those projects.

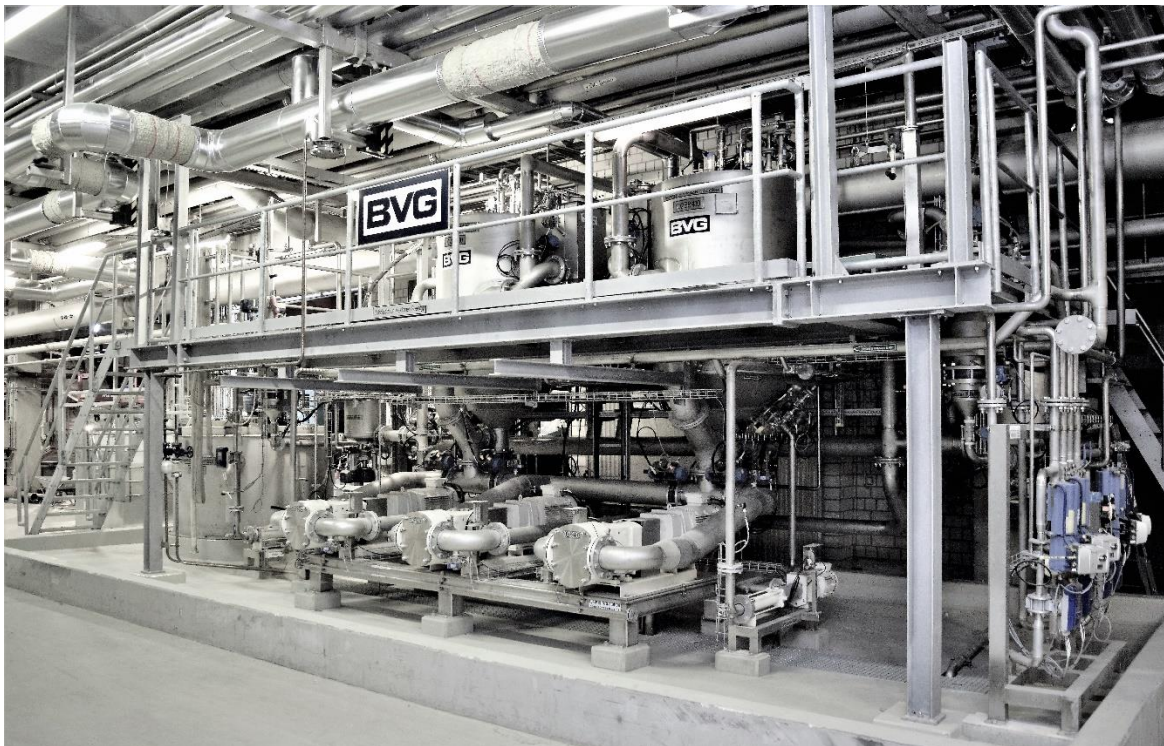
With respect to each of these projects, BVG deliveries cover a broad spectrum of applications. At Hamburger Containerboard BVG is the sole vendor for processing the additives in stock preparation, deinking, stock approach system, paper machine, wet end starch, surface starch, and the entire coating kitchen. This order is one of the most extensive projects in BVG history. It is a turnkey project. Only the electrical cabinets are excluded. BVG is providing the complete programming in Valmet DNA for the BVG equipment. This provides many advantages. Multiple vendor interfaces are avoided, programs are optimized due to the special expertise and experience of the BVG programmers, and commissioning makes it easier, because very few program modifications are required during commissioning.

This project continues the extraordinary cooperation with Hamburger Containerboard, located in the Schwarze Pumpe district of Spremberg, since startup of their first paper machine PM1 in 2005. In the last 15 years BVG has delivered 100% of their chemical processing systems, going from additives, wet end and surface starch systems, pigment dispersing systems, to two continuous operating coating kitchens. Hamburger Containerboard is headquartered in Austria and operates 10 paper mills in 5 countries. And BVG (Greifenberg, Germany) has been honored to provide extensive equipment to the company since the 1990s.



**Continuous Operating BVG Coating Kitchen “Super-C-Shear”  
at Hamburger Containerboard, Spremberg PM1**

For Propapier Sanders-Brehna PM3, Voith is providing the paper machine and stock preparation, while BVG is the sub-supplier for the complete service station to the SpeedSizer. Here BVG highlights are two innovative service tank systems, *Separator GS*® and the fully automated self-cleaning pressure filters, *Super Strainer ST*®. The *Separator GS*® features a special vortex design that eliminates more than 70% of sand and other heavy materials from the starch applied to the SpeedSizer. The impressive efficiency of the *Separator GS*® was demonstrated on a trial system at PM2 in the Propapier sister mill in Eisenhüttenstadt.



**BVG Starch Service Station with Two *Separator GS* Tanks**

For Papierfabrik Palm's new Aalen PM5, BVG was honored to supply significant technological installations. These include the retention aid systems for the paper machine and waste water treatment, a continuously operating surface starch system (*BVG-Super-ECC*) processing 120 tpd of enzyme modified native starch, the tank farm which consists of seventeen storage tanks, and an innovative truck unloading system. For this project BVG is also supplying the program for the DCS, implemented in Valmets Damatic DNA. Papierfabrik Palm and BVG have enjoyed a strong working relationship for many years. All of Palm's paper mills, including their OCC and newsprint mills, are equipped with BVG starch processing systems.

In addition to these significant projects in Germany, BVG leads many other projects across Europe, Asia, North and South America. Recently Pratt Industries commissioned their new greenfield paper mill in Wapakoneta, OH, and BVG provided the full starch system, from silo to OptiSizer, including the BVG-Super-ECC enzyme modification starch cooker. In all five of its North American paper mills, Pratt trusts in BVG starch technology.

The first BVG installation at Pratt went into operation in 2016 at their greenfield mill in Valparaiso, IN. This was quickly followed by BVG starch systems in Pratt's other three paper mills, in Conyers, GA, Shreveport, LA, and Staten Island, NY.



**Continuous Operating Enzyme Starch Processing System  
BVG-Super-ECC at Pratt Wapakoneta, OH USA**

At Nine Dragons, the largest manufacturer of OCC grades in China, every two months BVG chemical processing plants are commissioned for additives, starch degradation and service stations – covering 6 paper mills.

In the last several years China has become one of BVG's most important markets outside of Europe. In 2013 BVG established a service facility in China in order to maintain the many projects and systems that had been previously installed.



**BVG Project Team at Nine-Dragons**

Similar growth of BVG throughout the world has been achieved by providing innovative products, first class quality, and a 24/7 service - either remotely by TeamViewer and on-site. This strategy continues to prove itself as a key driver of our business in 2020.