

Consequential pursuance of investments: Up-to-the-minute machines for optimal quality

BMF-Plastic Processing Ten new installations underline the leading position of the Plastic Processing



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New machines:
 Further increase of the efficiency
 in the area of plastic processing

The BMF is continuously increasing the efficiency of the Plastic Processing by investing in the modernization of the machinery. This consequential corporate policy, which is fortunately possible due to the healthy financial structure, ensures the BMF up-to-the-minute know-how in production and therewith the highest of efficiency. Parallel to the purchase of a 1,500 t machine with a parts removal

The BMF supports its market position in the sector of Plastic Processing with a sustainable investment strategy. This not means that this business sector can achieve optimal results but also consolidate business relationships that have partially existed for many years. In the case of some of the customers, the latest investment will even lead to the possibility of expanding the business relations.

robot, the Plastic Processing sector has also invested in a material drying and conveying facility in order to accommodate the large throughput. The Digicolor installa-

tion comprises a dryer with a volume of 900 l as well as two double chamber external silos with 100 tons storage capacity. The dryer and the machines are automatically

supplied via a central coupling station.

Nine further Engel injection molding machines have been added with a clamping force of 28 – 50 tons, all of which are fitted with an automatic sprue removal. This enables the BMF to also fulfill the high requirements for precision and repeat accuracy in the field of small machines.

Five filter installations to go to Peking by the end of this year

BMF-International The scope of the project covers a vacuum extraction system as well as the processing and loading of chips

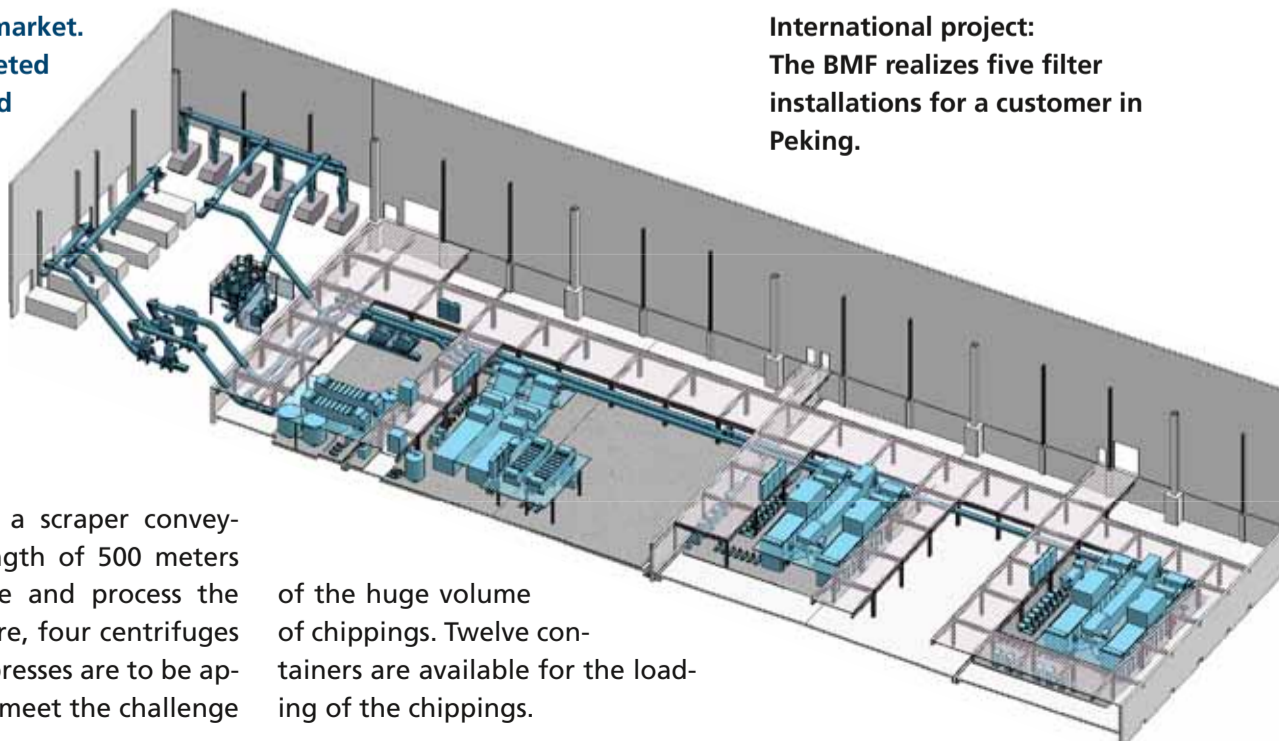
The BMF is realizing a major project on the Chinese market. By the end of the year, the company will have completed five filter systems for a customer in Peking to be used in the production area of crankcases, cylinder heads and crankshafts. The order furthermore includes a vacuum chip extraction with 16 suction stations and chip breakers, as well as the loading of the chippings produced.

The BMF has been active on the Chinese market several times in the past and has already successfully realized projects there. The current project offers the company the opportunity to prove its competence in cooling lubricant systems. There is also demand for sound know-how in vacuum chip technology in discharging the metal-cutting machines in dry

processing for the crankshaft production.

For this project, a scraper conveyor of a total length of 500 meters serves to remove and process the chips. Furthermore, four centrifuges and two sludge presses are to be applied in order to meet the challenge

of the huge volume of chippings. Twelve containers are available for the loading of the chippings.



International project:
 The BMF realizes five filter installations for a customer in Peking.

Skilled newcomers

BMF-Editorial

Qualified and motivated employees form a decisive competitive advantage, all the more in this day and age. Many of the medium and large companies have experienced the significantly increasing difficulty in finding suitable newcomers for technical as well as commercial vocations.

Particularly those companies, which have always placed great value on the training and further qualification of their own employees, have an incipient advantage. The years of investing in training and further qualifying our own personnel are now paying off for the BMF. A further contribution is no doubt the offer of attractive training positions as well as good career opportunities within the company.

Long-term employees are the best multipliers, so that often the feeling of belonging to the BMF is passed on within the family. Employees, who identify with the company they work for, are the best advertising medium and this indeed functions in our case. All the same, it is necessary to constantly review the policy instruments for personnel recruitment.

We complement the proven methods, which have in the past proved to be positive, with new approaches, such as the possibility of dual studies and forms of vocational training which combine studies with on-the-job learning. The BMF will continue to be an attractive employer in the future, firmly rooted to its sites.

With friendly greetings from Büren,

Yours
Heinrich Steinbrecher
Proprietor and Managing Director



New separating storage by the end of the year

BMF-Conveying technology Further contract in the field of skid technology for the main Volkswagen site

The collaboration of the business sector Conveying Technology with Volkswagen in Wolfsburg has been further intensified. By the end of the year 2012, the BMF is to realize a separating storage with a car body storage and a stack storage at the main site of the leading car manufacturer.

This latest contract follows numerous projects in the skid technology area in Wolfsburg. The BMF last supplied the connecting conveying technology for a conveyor stretch of 3.5 km from the body shop to the paint shop, involving a total of 600 tons of steel construction.

The separating storage covers a stretch of a good kilometer and comprises 180 conveying elements. It replaces the power & free technology which is no longer in keeping with the times on account of the emission values. The contract furthermore includes the steel construction for an empty skid stack house.



Modern conveying technology: skid conveying stretch with body storage.

Relocation and extension of installations

BMF-Cooling Lubricant Systems The production lines at the Mercedes works in Berlin to be restructured

The BMF is supporting the Mercedes-Benz plant in Berlin with the restructuring and extension of the production of planetary wheel bolts and stator shafts up to the end of the third quarter of 2012. A filtration installation is to be relocated and another extended.

In the course of the planetary wheel bolt production being restructured, an entire pressure belt filtration installation is to be completely relocated. The BMF will be providing for an improvised supply to the existing processing machines via decentral-

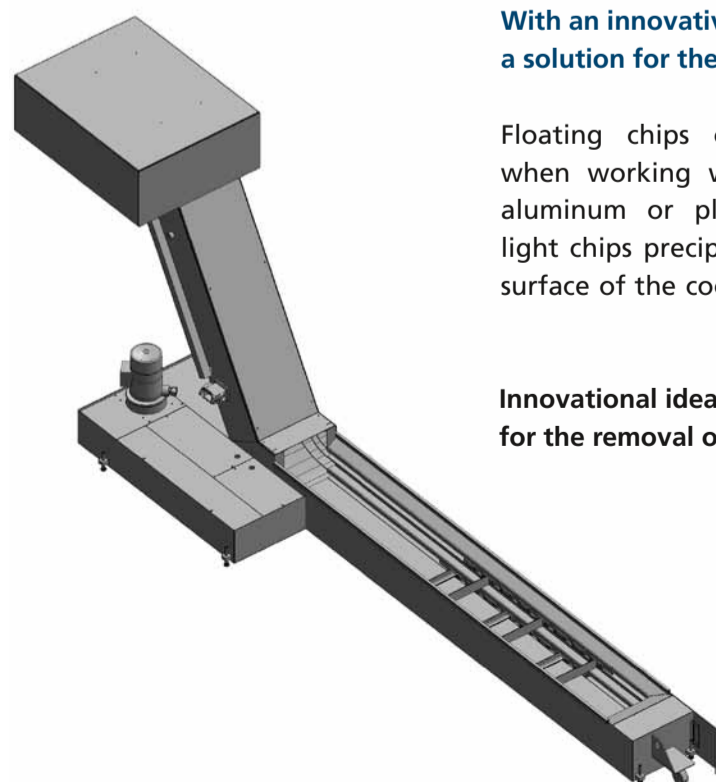
ized filtration installations. Furthermore, there is to be a new hall piping and the connection of additional processing machines.

In the case of the stator shaft production, the focus is on the exten-

sion of the existing filtration installation. In addition to the connection of further processing machines, the volume of the existing dirt tank is to be increased the system pumps are to be adapted, incl. retrofitting of frequency regulators for energy saving, as well as the renewal of the machine piping, incl. the installation of a hydraulic return conveying system.

Efficient removal of „floating chips“

BMF-Components Special solution for standard scraping conveyors resolves a well-known problem



With an innovative supplement to the scraper conveyor, the BMF has found a solution for the well-known problem of „floating chips“

Floating chips can always occur when working with the materials aluminum or plastics. These very light chips precipitate easily on the surface of the cooling lubricant and

cannot be removed in an optimal way.

Specifically developed special attachments gather the floating chips and ensure the desired result. A great advantage: All standard scraper conveyors from the BMF can be retrofitted with this option model.

Innovational idea: Special solution for the removal of floating chips

Compact and mobile

BMF-Project „Hook-on“ filter system at Lenksysteme GmbH

The BMF has realized a compact filter system for the second time around for ZF Lenksysteme, located in Schwäbisch Gmünd. This filter unit is designed to be „hooked on“ and can be applied at another place without any problem, thus significantly increasing the flexibility.

The customer was so satisfied with the first system of the same design that he commissioned a second project one year later. The mobile filter unit has a feed flow efficiency of some 1,000 l/min as well as devices to adjust the temperature of the cooling lubricant.

The main component of the unit is a vacuum filter which is fitted with a chip pre-separator and a centrifuge

for the recovery of the extracted cooling lubricant. The project also includes two return BMF pump stations which are fitted with bottom scrapers.

**Mobile system:
The filter unit at
ZF Lenksysteme in
Schwäbisch Gmünd.**



Central extraction unit

BMF-Focus Realization of the complex project in three construction stages

The BMF is realizing a further project for Volkswagen in Mexico, namely a central suction installation with two filters in the area of the vacuum technology. This complex contract is to be realized in three construction stages and is scheduled to be completed in spring 2013.

The scope of the contract comprises two suction drain sections for steel chips and grey iron chips. BMF scraper conveyors discharge the chips per scraper conveyors to the containers

provided by the customer. In the case of the grey iron chips, a low-dust removal ensures an effective reduction of the contamination.

The vacuum technology for the areas of the cylinder blocks and crankshafts will be realized in three phases. Four processing machines are currently connected to the central system and 14 suction stations are to follow in the first quarter of 2012. At the beginning of 2013, further eight suction stations will be added in the course of the third construction phase.

**Initial construction phase:
The modern vacuum
technology at Volkswagen
in Mexico.**

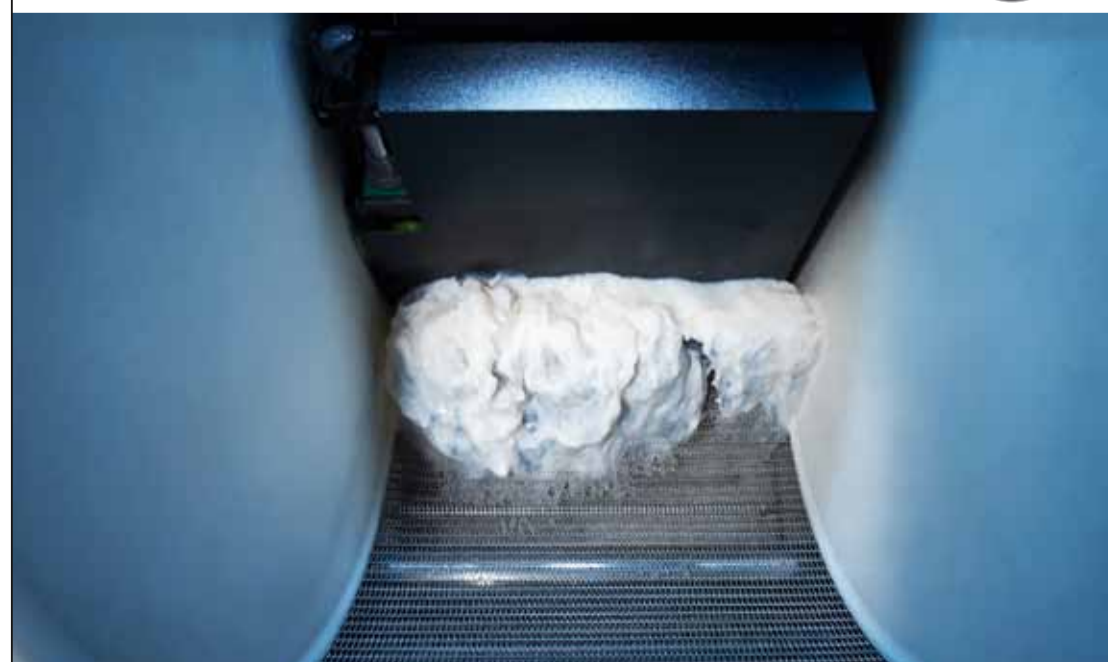
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Presentation in the role of a partner of the „Works of the Year“

BMF-Event Our congratulations to the Volkswagen works in Chemnitz on winning this particularly coveted award!

The BMF had the pleasure of congratulating their long-term customer, Volkswagen Chemnitz, on their triumph in the contest of the „Works of the Year“. The company made its presentation As partner of the award-winner, the company presented itself at the specialist trade fair of the congress in Dresden.

The contest, which is organized by the specialist journal „Production“ and the management consultancy, A.T. Kearney, is one of the most tra-

ditional contests and toughest of its art. The Volkswagen works in Chemnitz was successful in securing the prize in the 20th edition of this con-



Successful presentation: Specialist exhibition at the congress „Works of the Year“



Interesting dialogue: Heinrich Steinbrecher, Proprietor and Managing Director of BMF, at the presentation stand in Dresden.

test with their superior manufacturing know-how as well as a resource-efficient production.

The Maritim Hotel offered the ideal environment for the accompanying

trade exhibition „The works of the Year/Geo Award“. The BMF benefited from an excellent presentation area, directly adjacent to the assembly room, to demonstrate its efficiency to the participants.

Zero-defect-quality at SIKA

BMF-Quality Result of the latest supplier assessment with the customer

The business sector Plastic Processing has achieved an excellent result in the course of the annual supplier assessment carried out by SIKA, Dr. Siebert & Kuhn GmbH & Co KG, based in Kaufungen in Hessen. The business relationship between both partners has been strengthened by the successfully achieved zero-defect-quality assessment.

More than a hundred years ago, the founders of SIKA, Dr. Carl Siebert and Albert Kühn, were aware of the increasing significance of high-quality technical thermometers and glass apparatus. With the founding



Optimal co-operation: Business sector manager, Michael Schmidt, together with the purchaser for SIKA, Andreas Müller.

of the Dr. Siebert & Kühn GmbH & Co. KG, they laid the foundation on 1st November, 1901, for the enterprise which is still family-owned in the fourth generation and managed by members of the family. The BMF has been co-operating excellently with SIKA in the production of plastic parts for measur-

ing and control technology on an advanced level since 1994. The assessment for the year 2011 demonstrates the quality of the co-operation: on the total quantity supplied of over 700,000 pieces, 0% revealed any defect. The BMF, as a preferred supplier, will certainly remain a central partner in the future.



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