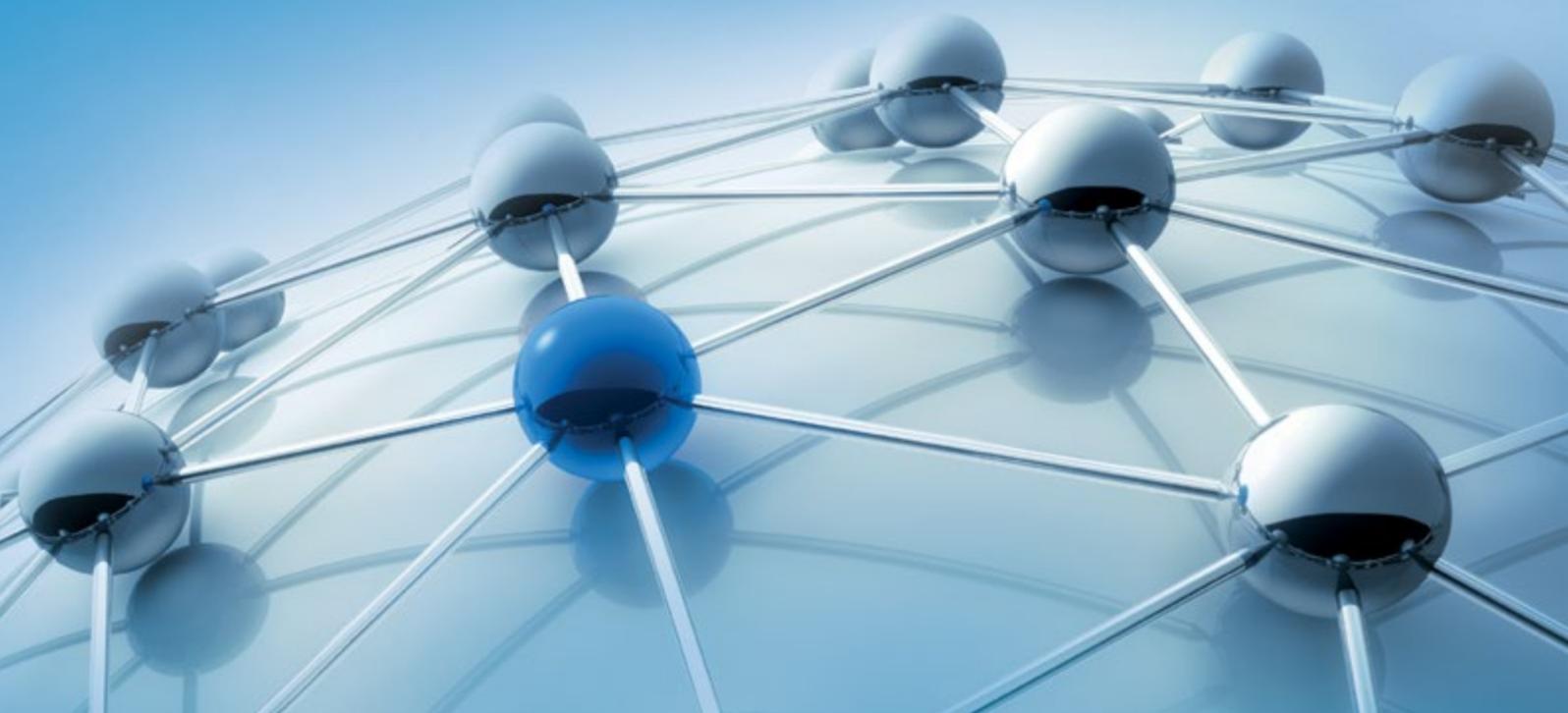


Compound expertise



PolyComp GmbH
Member of the Feddersen Group



PolyComp GmbH – Think Cooperation

Headquartered in Norderstedt, on the outskirts of Hamburg, PolyComp GmbH is a contract manufacturer and producer under license for engineering plastics. Since 2000, at which time the company was established following the buy-out of the former Borealis Compounds GmbH, we have operated under the current company name. Our dedication to quality,

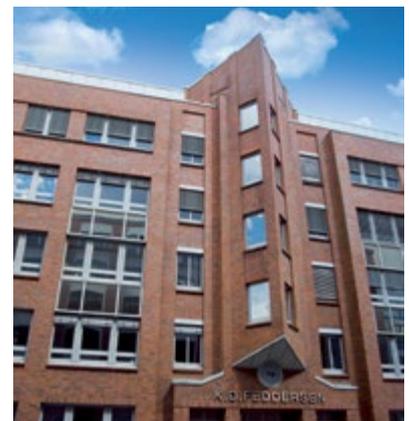
flexibility and customer focus enables us to meet the needs of our customers, who have their products manufactured at PolyComp for a variety of reasons. We are your professional partner when it comes to product transfer in terms of contract production and production under licence based on identical machine technology, new process developments and

optimisation, new product developments in accordance with process capability, product complexity in customer-in-house production, special plant equipment, and much more. We believe in the importance of developing long-term, cooperative partnerships and offer you state-of-the-art compounding and laboratory facilities.



We have been a member of the Hamburg-based Feddersen Group since 2013. The Group's divisions focus on trade in chemicals and engineered products worldwide, representing renowned companies in the chemical, investment and consumer goods industries with their own branch offices in Europe and throughout the world. In addition to export trade, the alliance today is engaged in the worldwide distribution and production of plastics (compounds and masterbatches), the stainless steel trade and machine building.

K.D. Feddersen Holding GmbH is the sole proprietor of all divisions in the Feddersen Group. Their sole shareholder, the non-profit K.D. Feddersen Foundation, operates an assisted-living facility in Hamburg. We use most of our earnings to support the work of the Foundation – an aspect of humanity which we also carry over to our daily contact with customers and suppliers, true to the motto of our company's founder, Karl Detlef Feddersen: "Acting on behalf of people – acting through global trade".



The Feddersen Group is headquartered in Hamburg.

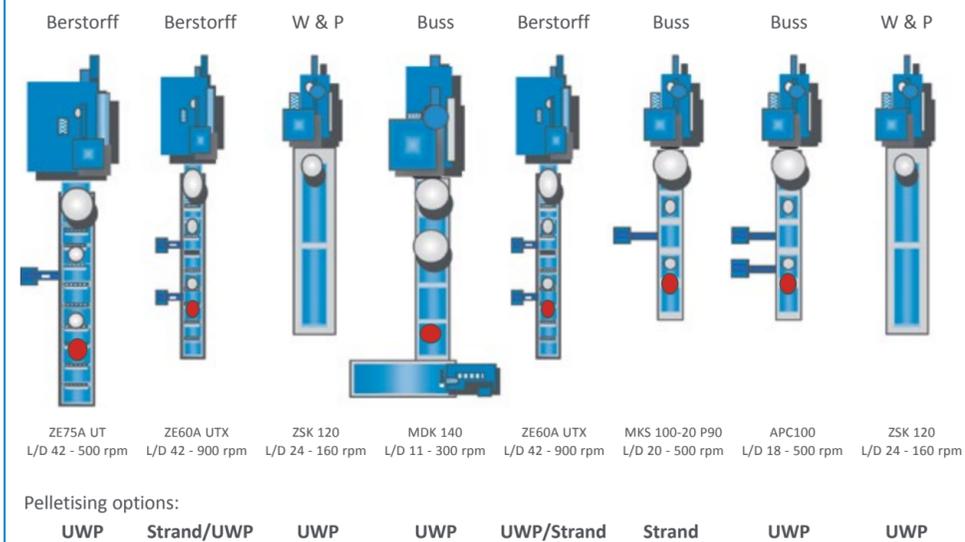
Technology – versatile extrusion concepts

To customise our processing of each raw material, we make use of different machine versions in the form of single- and twin-screw extruders. In addition to three Kneaders from Buss AG, we have five twin-screw extruders. Three of these, one 75-model and two 60-model, modern twin-screw extruders, are from Krauss Maffei Berstorff GmbH,

and two bear the Werner & Pfleiderer company logo. Although the latter two extruders belong to an older model generation, these machines are in continuous operation at our facility. Equipped for three passes, they are extremely well suited to handle special process jobs, thanks to their overall design – extremely rugged and ideal for sensi-

ve film compounds, in particular. When retrofitted with modern control systems from BSG Bruckmann Steuerungstechnik GmbH and underwater pelletisers from Nordson BKG GmbH, they meet the requirements of modern plants.

Plant overview:



Processors of film compounds require extremely low gel content, since the presence of gel results in flaws in the finished product, particularly when manufacturing extremely thin film. One of our specialties is avoiding such gel content through the use of a special screw configuration and a screen changer with high filtration accuracy. We have also acquired considerable expertise in the processing of compounds with added liquids such as

plasticisers, softeners, silicone oils and waxes. Softeners affect the physical properties of the final product and are therefore used for high-end compounds. We make use of intelligent pump technology with various pump concepts, and this allows us to dose (e.g. inject) fluids into the extruder in various places, depending on the requirement. To ensure that your desires are realised in a timely manner, we have optimised downtimes for conversi-

on work. It takes us just one hour to convert from strand pelletising to underwater pelletising (UWP). We also produce granular dry blends, which we package according to customer specifications.

Our certified quality and energy management systems

Alongside outstanding product quality and satisfied customers, a corporate management policy of environmental stewardship and a healthy work environment for our employees are the commitments we do business by and the pillars of our company's economic success. We are certified to the following standards:

- ISO 9001:2008
- ISO 16949:2009
- ISO 50001:2011

These certifications are likewise part of a comprehensive, integrated management system based on a legal robust organisation we call Poly-Comp Excellence. The system also governs legal matters pertaining to environmental management and measures to protect employment and health.

Our laboratory was modernised in 2014 and is now well-equipped to meet our customers' growing de-

mands. An advanced tensile test machine with an Xforce sensor and network connection for data logging ensures that current stricter test requirements are better met. The Xforce sensor can be used for tensile testing and compression testing, lending an aspect of versatility to the tests. An additional splinter guard to protect employees from injuries incurred as a result of material splintering during testing provides additional added value in terms of work safety. With the new impact pendulum for conducting impact-bend tests, Char-py tests can now be carried out, in addition to the previous Izod method.

An injection moulding machine with a closing force of 500 kN makes it possible to mould a broad range of plastics, which can then be subjected to the prescribed tests. Both units are housed in a separately air-conditioned room.



Impact pendulum operating according to the Charpy method.



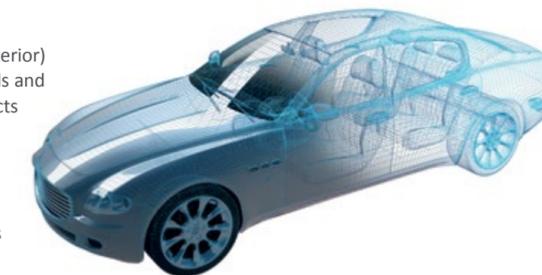
A modern injection moulding machine with a closing force of 500 kN is available for customer testing.

Polymers – anything goes!

In recent decades, we have acquired high-level expertise in polyolefin (PP/PE) compounding. But we also process EVA, PA, PBT, PC, ABS, EVOH and POM, amongst other materials. And we can incorporate anything you desire into these polymers, from carbon fibre to natural fibre, from simple fillers to glass beads, from color additives to flame-retardant additives, waxes and fluids. Our product range also includes micropellets with a minimum diameter of 0.8 – 1.0 mm.

The following are some of the industries in which the compounds we produce are used:

- Automotive (exterior and interior)
- Household goods and technical products
- Cables
- Pipes
- Coatings
- Foods
- Pharmaceuticals
- Cosmetics



Warehousing and logistics

Raw materials

To supply our production facilities and store granular polymers, we have 6 modern raw material silos with

a total capacity of approximately 500 tonnes. We also have unloading facilities for silo vehicles, containers, octabins, big bags and sacks.



Modern silos ensure consistent quality.

Finished products

We have installed a modern silo facility (including hybrid silos and standard silos) for the warehousing and interim storage of manufactured compounds. And our assembly-line production facilities are coupled with small containers to enable immediate, flexible packaging of smaller quantities. Our 7 finished product silos in all, comprising 4 hybrid (multi-pipe) silos and 3 standard silos, have a total capacity of approximately 500 tonnes.

We offer filling facilities for silo vehicles, containers, octabins, big bags and sacks, amongst others.



Substantial warehousing capacity is available for both pellets delivered by customers and finished compounds.

We have facilities available for interior and exterior warehousing which cover a floor space of approximately 7,000 m². Our modern product management system with barcode reading ensures efficient, effective warehouse movements.

We look forward to meeting with you!

PolyComp GmbH

Member of the Feddersen Group

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Here you can find
the latest version
of our brochure:

