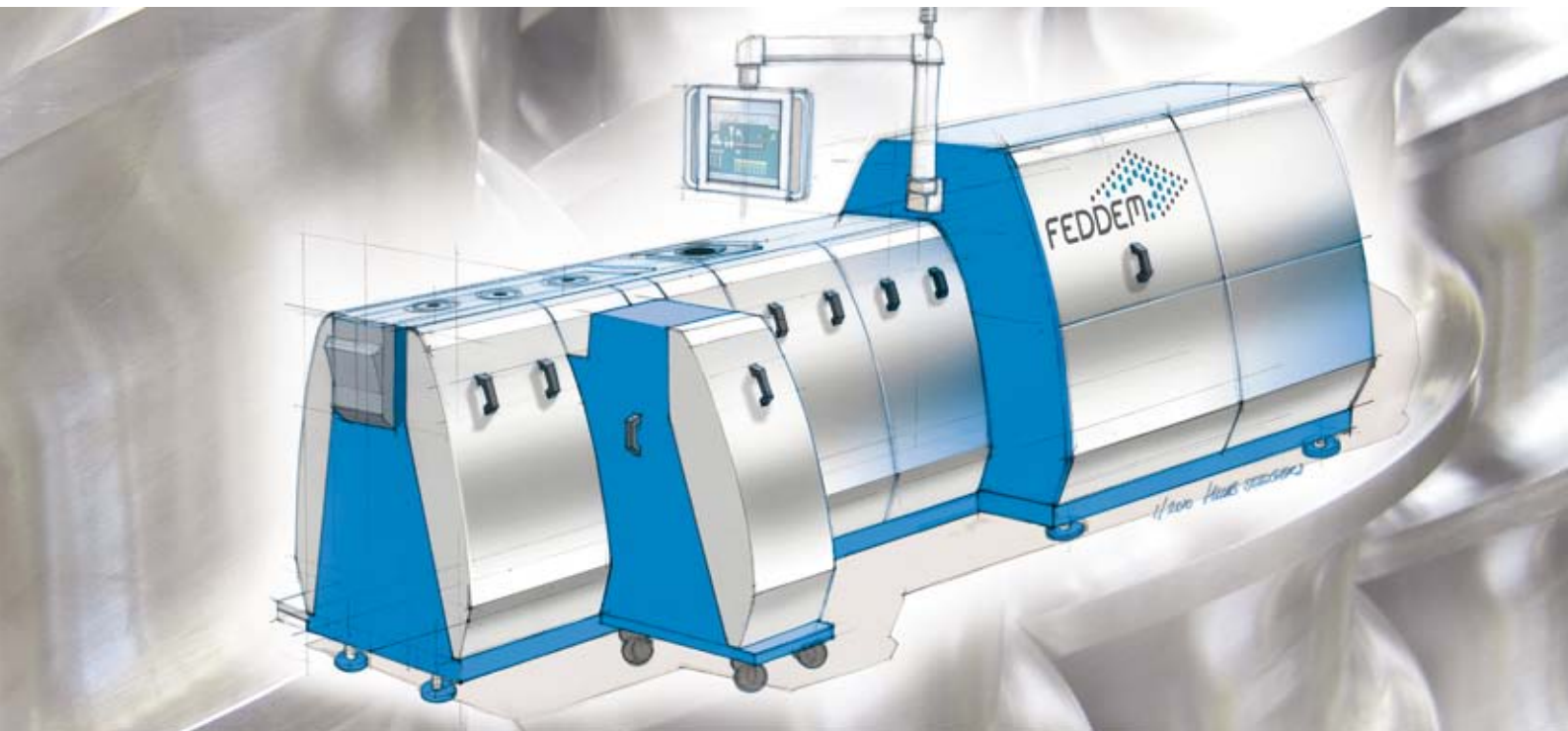


Twin-Screw Extruder FED-MT

Engineering Plastics hochgefüllt reinforced Additive Concentrates Technische K
process optimized energieeffizient wear resistant
Extruder-MTS Plants Ersatzteile



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A Young Company – Tradition in Engineering

Engineering Plastics hochgefüllt reinforced Additive Concentrates Technische K...
process optimized energieeffizient wear resistant
Extruder-MTS Plants **Ersatzteile**

FEDDEM GmbH & Co. KG belongs to the internationally active Feddersen Group based in Hamburg. In addition to trading in chemical and technical products, such as stainless steel, the group has focused strongly on engineering plastics over the last couple of decades.

plastics. Although founded as recently as 2009, FEDDEM has a skilled workforce with more than **25 years of professional expertise** in the development, design and construction of co-rotating twin-screw extruders and in the manufacture of key components for renowned extruder manufacturers.



Feddem is a continuation of the „Construction of Extrusion and Compounding Lines“ division of the company Decroupet Maschinenbau, located in Sinzig. It now joins forces with K.D. Feddersen GmbH & Co. KG, who are specialists in the distribution and market development of engineering plastics, and with AKRO-PLASTIC GmbH, who specialise in innovative and application-oriented plastic compounds, to add the field of machine construction to the group’s breadth of expertise in

The entire manufacturing and assembly of FEDDEM’s compounding systems for flexible applications in the production of high-quality engineering plastic compounds and masterbatches is carried out in Sinzig - **Quality that is „Made in Germany“!** Leading compounders place their trust in our expertise in the production of their high performance compounds. FEDDEM does not focus exclusively on the sale of systems from its standard range, however. It also offers **customised solutions as well as project planning and the supply of turnkey systems, including peripheral equipment, on a worldwide basis.**

FEDDEM also provides a flexible spare parts service, a refurbishing service for existing plants, local customer service and other additional services.

Our Core Competencies

Technische Kunststoffe
prozessoptimiert
Extruder-MTV Anlagen
highly filled
energy efficient
Anlagen
verstärkt
Additivkonzentrate
verschleißarm
Spare Parts
Engineer



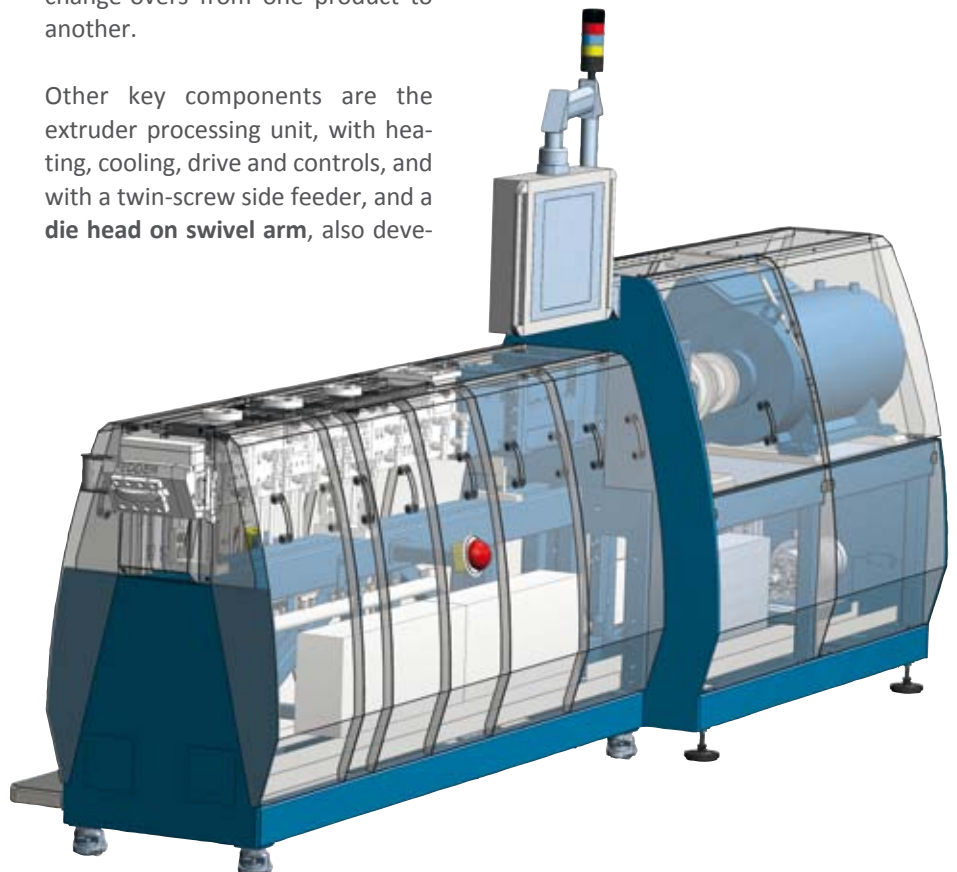
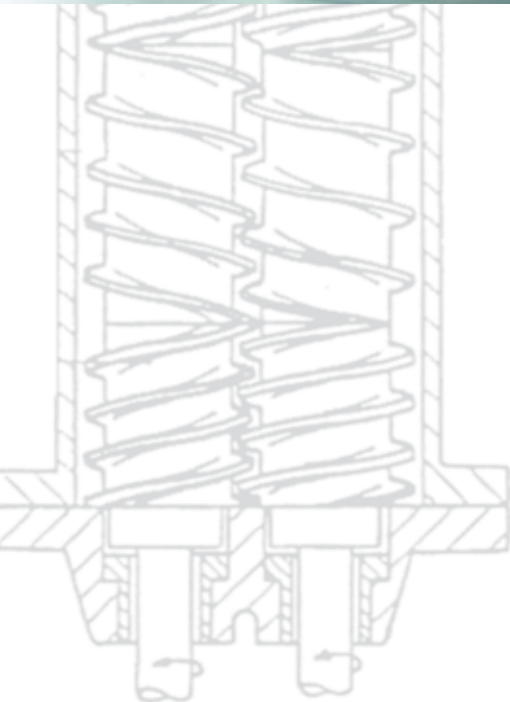
We build on the expertise of our experienced **project and process engineers**. The long-standing and trusting relationships that we maintain with our cooperation partners enable us to provide the kind of customised solutions for the **planning and installation of your entire lines** that you can rely on.

The core of our expertise lies in co-rotating, intermeshing twin-screw extruders of the type **FED-MT (MT = Multi Task)**. MT stands for the diversity of applications for which the extruder can be used and for quick change-overs from one product to another.

Other key components are the extruder processing unit, with heating, cooling, drive and controls, and with a twin-screw side feeder, and a **die head on swivel arm**, also deve-

loped in-house by FEDDEM, to allow the rapid change-over of batches.

The barrels and screw elements are also available in the usual special materials for improved resistance to abrasive or corrosive wear. Our **energy-saving and wear-resistant screw elements** in the melting and mixing zone are a key feature of our processing technology.



FEDDEM

Process Technology

Engineering Plastics hochgefüllt reinforced Additive Concentrates Technische K...
process optimized energieeffizient wear resistant
Extruder-MTS Plants **Ersatzteile**

Excellent product quality, especially with thermally sensitive compounds, can only be achieved if the temperature of the product in the extruder is kept as low as possible. Higher speeds usually also result in higher product temperatures. Consequently, the maximum possible output in the extruder can only be achieved if the screw elements can provide the energy input required for the particular processing task without causing local overheating of the product.

The FED-MT achieves this with the unique screw geometry in its melting and mixing elements, in which the product is allowed to remain long enough for the **dissipation of the required amount of energy without the occurrence of temperature peaks**. Since the melting process as well as the mixing of fillers can be carried out using screw elements with the same geometry, **fewer spare parts need to be kept on stock**.

With respect to the geometry of the screws and the available torque, the MT series represent the ideal solution **for the most different compounding processes** – designed, as it is, to produce high throughput rates as well as outstanding product quality.

This also ensures the availability of interchangeable processing units with high or medium conveying volumes, with the same spacing between the screw shafts. Speeds of up to 800 rpm are available.

The processing unit made up of barrels with a length of 3.5 l/d and can therefore be adapted optimally to each processing task. Vertical openings for product venting or for vacuum devolatilization are available. Fillers and reinforcements are fed by a twin-screw side feeder.

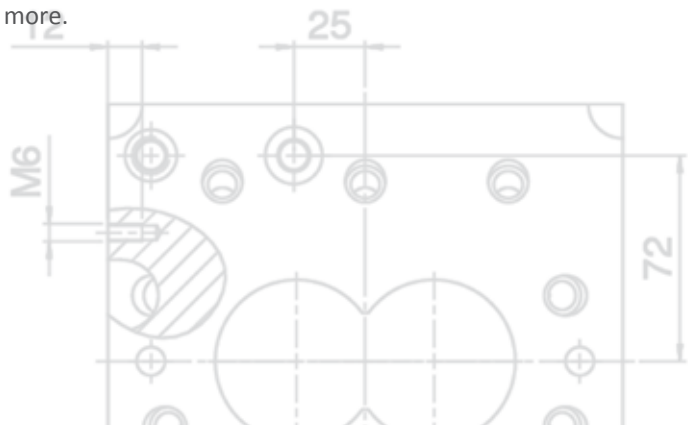
With the patent-pending **curved die plate**, the number of nozzles compared to a conventional die plate can be increased **by approximately 25 %**, without altering the hole spacing.



Spare Parts and Service

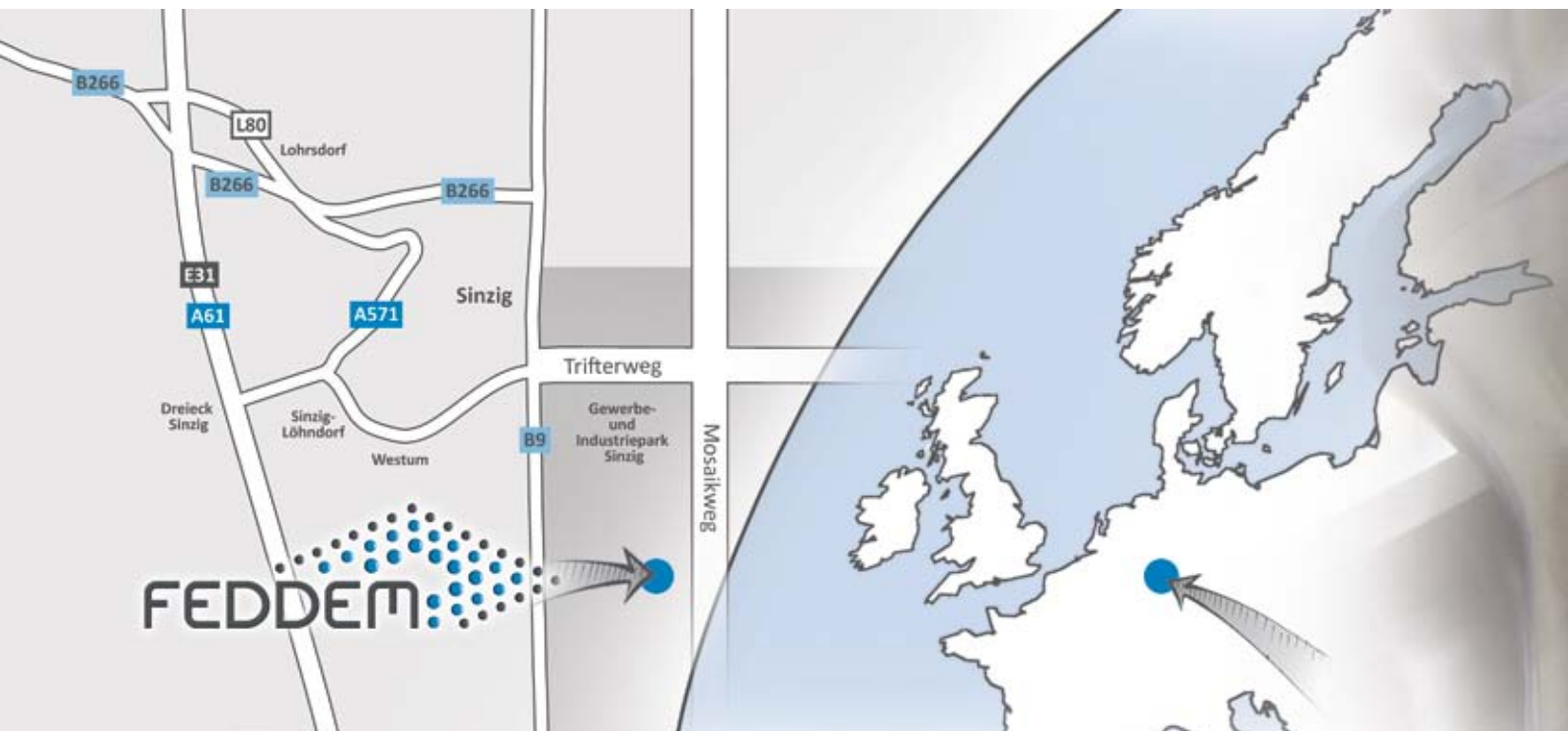
Engineering Plastics
verschleißarm
energy efficient
Additivkonzentrate
verstärkt
highly filled
prozessoptimiert
Extruder-MTV Anlagen Spare Parts

- **Barrels and screws:**
Screw shafts. Barrels and screw elements are available with different grades of wear protection.
- **Strand die heads:**
Nozzle plates and screen plates
- **Feeding and ventilation domes:**
Water-cooled models and process-specific auxiliary feed devices are available.
- **Side feeder:**
Water-cooled models available
- **Integrated Services:**
Wear measurements taken on dirty processing units, measured from the outside via ultrasound, convenient mechanical cleaning of processing units, 48-hour response time to requests, upgrading of used machines, process engineering consultation and much more.



We look forward to meeting with you!

Technische Kunststoffe highly filled verstärkt Additivkonzentrate Engine
prozessoptimiert energy efficient verschleißarm
Extruder-MTV Anlagen Spare Parts



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