

## Continuous tube die centering for precise wall thickness with maximum material savings

- Time and cost savings in the production of rubber tubes
- Automatic correction of setpoint variations

**(Hannover, May 19,2022) Exact wall thicknesses are of particular importance in the production of rubber tubes. If the wall thickness is too thin, quality is compromised – but if the wall is too thick, more material is needed in the production process. KraussMaffei’s self-centering tube dies equipped with a wall thickness gauge provide an excellent solution to tackle this problem. They precisely correct any deviations in the ongoing extrusion process. In addition, maximum repeatability is ensured when it comes to frequent batch changes.**

### **Time and cost reduction in the production of rubber tubes**

As compared to conventional solutions, customers benefit from substantial material savings when using the self-centering tube dies combined with a wall thickness measuring system. Regardless of the production speed, the system automatically controls and optimizes the hose wall thickness and the concentricity during the extrusion process. The wall thickness tolerance range is thus reduced by 0.05 mm, which ensures material savings of up to 2.5 %. Due to the input material reduction, the investment pays off after just a few weeks in 24/7 production. “Further savings potential can be found in the set-up times of the hose extrusion lines. Instead of wasting time with die changes, adjustments or start-up/shut-down processes, the extruders or extrusion lines equipped with self-centering tube dies reach production mode much faster, which saves time for further operations,” explains Dr. Gerard Nijman, Global Application & Product Owner Tire & Rubber at KraussMaffei.

### **Automatic correction of setpoint variations**

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Self-centering tube dies are available for single or multi-layer tubes with or without fabric reinforcement in the diameter range of 3 to 120 mm and suited for different extrusion pressures. Thanks to the automatic adjustment, the floating die inside the extrusion head can be displaced in any required direction. In the event of batch changes, new head parameters are set at the push of a button. Any setpoint deviations in terms of wall thickness and concentricity are immediately corrected and displayed on the control panel. The system stands out for highly professional and reliable production combined with maximum product quality.

#### Captions:

Photo1\_20220519\_PM\_EXT\_Selbstzentrierende\_Schlauchkoepfe: Extruder with self-centering tube die and downstream X-ray system to detect and correct wall thickness and concentricity

Photo2\_20220519\_PM\_EXT\_Selbstzentrierende\_Schlauchkoepfe: Self-centering straight-through and crosshead dies for the production of mono-layer or multi-layer tubes

For further information and printing-quality photos, please visit:

[www.kraussmaffei.com](http://www.kraussmaffei.com)

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**KraussMaffei – Pioneering Plastics**

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KraussMaffei is among the world's leading manufacturers of machinery and systems for the production and processing of plastics and rubber. Our brand has been synonymous with cutting-edge technology for over 180 years. Our range of services covers all areas of injection molding machinery, extrusion technology and reaction process machinery. This gives KraussMaffei a unique selling point in the industry. With the high innovative power of our standardized and individual product, process, digital and service solutions, we can guarantee customers sustained added value over the entire value-adding chain. Our range of products and services allow us to serve customers in many sectors including the automotive, packaging, and medical and construction industries, as well as manufacturers of electrical and electronic products and household appliances. KraussMaffei employs around 4700 people all over the world. With more than 30 subsidiaries and over 10 production plants, as well as about 570 commercial and service partners, we are represented internationally close to our customers. The company headquarters has been in Munich since 1838. In April 2016, the Chinese state-owned company China National Chemical Corp. Ltd. ("ChemChina"), one of the leading chemical companies in China, became majority shareholder of KraussMaffei Group. At the end of 2018, ChemChina listed the KraussMaffei Group as KraussMaffei Company Ltd. in Shanghai. This listing opened up access to the Chinese capital market and local investors.

For further information, please visit: [www.kraussmaffei.com](http://www.kraussmaffei.com)

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