



**Excellent processing reliability
for versatile material**
**Extrusion lines for the production of
silicone rubber hoses and profiles**

Engineering Value

Krauss Maffei
Berstorff

Engineering highlights Machinery for silicone rubber in uncompromising KraussMaffei Berstorff quality

Silicone rubber lends itself to a wide variety of uses. Thanks to its many different characteristics, it offers ideal solutions for the most varied applications.

KraussMaffei Berstorff's product portfolio includes machines and lines designed for the extrusion of solid silicone rubber hoses and profiles. Engineering and construction of such machinery require in-depth material know-how and extensive manufacturing expertise. This is why only highly innovative and well-experienced companies are successful in this sector. KraussMaffei Berstorff machinery meets the most exacting requirements in the extrusion and vulcanization of premium-quality hoses and profiles. Highly qualified project teams and well equipped trial facilities make KraussMaffei Berstorff an ideal partner for silicone rubber processing – right from the development stage throughout the actual production process.

Boosting your competitive edge and business success!

KraussMaffei Berstorff extruders are equipped with an innovative cooling system to give maximum output rates when processing solid silicone rubber. This ensures that the rubber temperature is kept below the peroxide decomposition temperature and premature material cross-linking is avoided.



Extruder for silicone rubber processing



Extrusion line for the production of silicone hoses

Engineering highlights

Design features

Extruder

- Extruder sizes of 45, 60 and 90 mm with an L/D-ratio of 10
- Screw geometries with high intake volume tailored to the processing of silicone rubber
- Barrel, screw, die, feed zone and feed roll are all cooled to maximize output rates

Shock module

- Pre-vulcanization at temperatures of up to 600° C by means of black body ceramic infrared heaters or short-wave infrared radiators
- Contactless material passage to avoid damage to the product outside

Hot-air channels

- Short heating times, direct heating of the channel air
- Precise product transport using mesh steel conveyor belts
- Conveying speed controlled in a range between 0.5 and 30 m/min, higher speeds are optionally available
- Easy access
- Recovery and re-use of generated heat



Shock module



Unwinder with cutting unit

Excellent processing reliability for versatile material

Our solution for future challenges in the extrusion of silicone rubber hoses and profiles

KraussMaffei Berstorff extrusion lines give uncompromising technical precision and cost-effectiveness in the processing of silicone rubber.

These lines are fed with silicone rubber strips. The extruders combined with carefully matched downstream equipment are tailored to the specific material properties. Hoses and profiles are partly produced under clean room conditions and used for applications that require:

- maximum flexibility and minimum bending radii;
- high temperature and pressure resistance;
- antistatic properties;
- water-repellent surfaces;
- easy cleaning using commercial cleaners and sterilizers;
- material monitoring as it is conveyed through the hose.



OEE Plus
Boosting cost-efficiency for you

For more information
about OEE Plus, visit:
www.kraussmaffeiberstorff.com/oeplus
