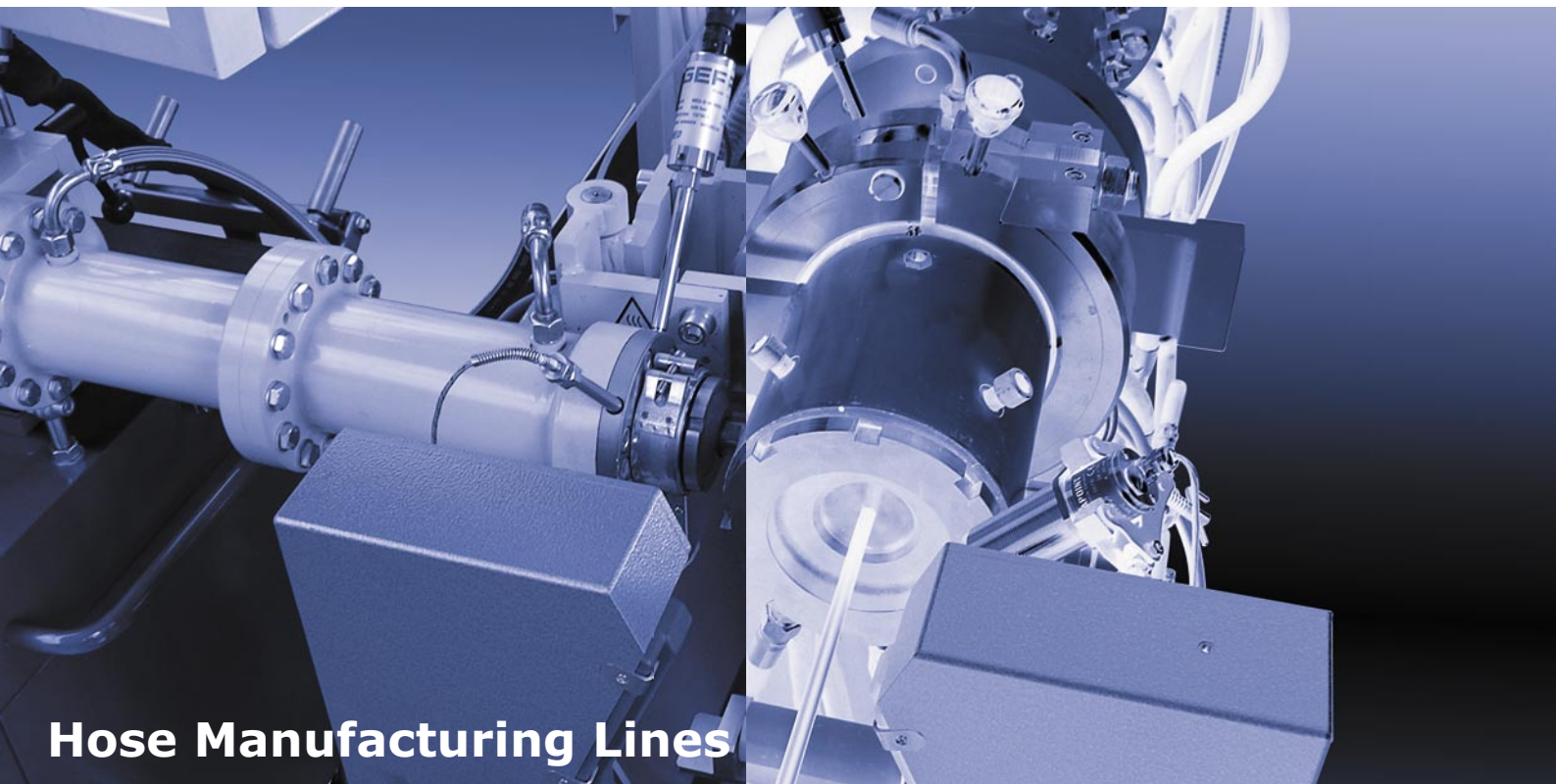




Tailor-made Rubber Extrusion



Hose Manufacturing Lines

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Hose Manufacturing Lines



The demands on hoses are constantly rising and require different solutions for the production.

Accordingly various and individual are the configurations and designs of hose extrusion lines.



rubicon offers customised lines for the production of varied hoses like air conditioning, fuel, brake, power steering, lubricant, turbocharger, cooling and hydraulic hoses.



rubicon Fibre Reinforced Hoses

- Manufacturing of 1-layer, cut hose blanks from fibre reinforced rubber for the production of shaped hoses
- With high performance cooling unit for 3- to 5-fold passage of the mandrel-less hose
- Complete equipment with cutting machine and following release agent applying unit with storage station



rubicon Insulation Hose Line



- Manufacturing of expanded insulation hoses amongst others on the basis of NBR/PVC, EPDM-Compounds
- Depending on dimensions 1-, 2- or 4-fold extrusion of hoses at the same time
- Continuous vulcanization within the line via hot-air tunnel with a length of up to 60 m
- Equipment with cutting machine for cutting the insulation hoses to the desired length

Mandrel-less Hose Production

The mandrel-less hose production is a highly productive process without the use of a flexible mandrel as supporting aid for the build-up of the rubber layers and the application of the textile reinforcement.

rubicon Production Line for Shaped Hoses

Line Characteristics

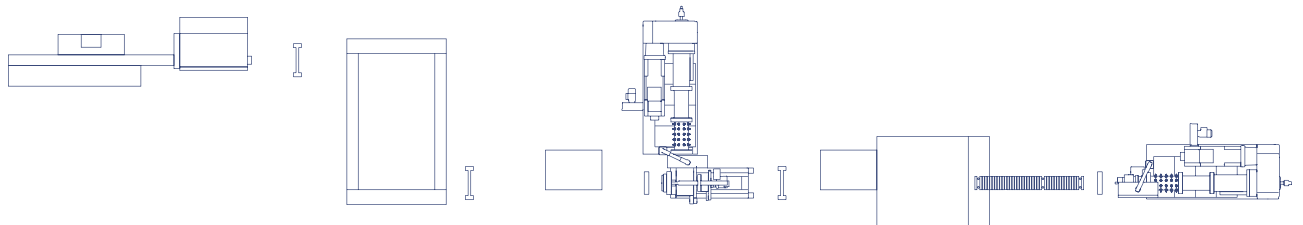
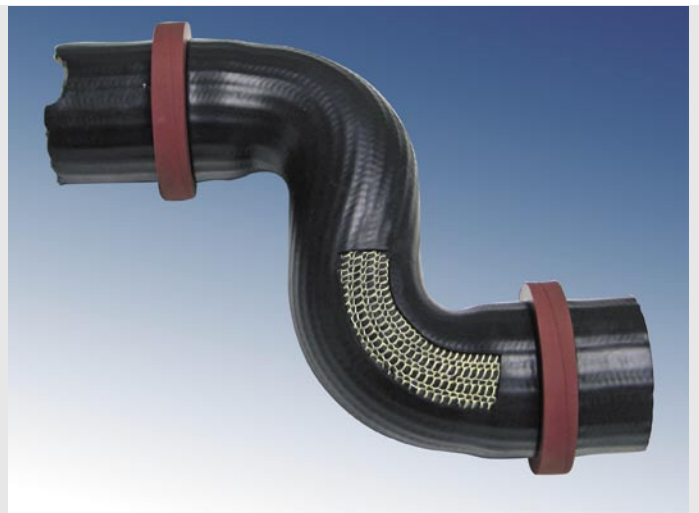


Shaped hose manufacturing line

- Line configuration depending on hose type and used compounds in warm-in-warm-technology or with additional cooling of the inner tube
- Equipped with place saving cooling unit for manifold passage
- Automatic cutting machine for the cutting of blanks for shaped hoses

Fields of Application

- Manufacturing of 3-layer EPDM-cooling water hoses
- Manufacturing of turbocharger hoses on basis ACM
- Manufacturing of 4-layer turbocharger hoses on basis fluororubber/silicone (FPM/MVQ)
- Manufacturing of 1-layer, fibre reinforced shaped hoses



rubicon Multi-functional Extrusion Line

With this solution rubicon offers a versatile applicable extrusion line for the hose production with or without mandrel.

Line Characteristics

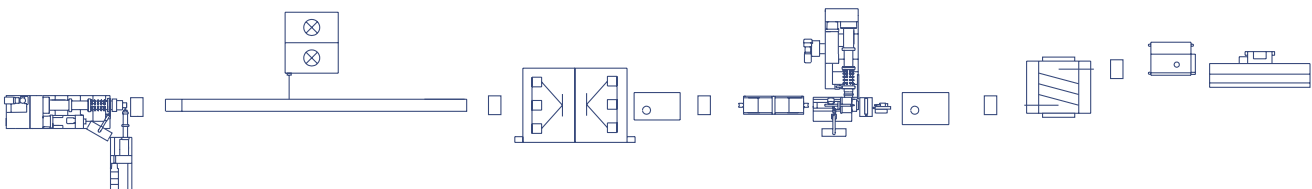
- Variable line structure because of movable arrangement of the extruders
- Equipment with a combined spiraling/knitting machine allows the production of spiraled or knitted hoses alternatively
- Spiraling takes place nearly torsion free and with minimum shrinkage
- Equipment with cutting machine and winding stations allows production of cut hose blanks or endless products on mandrel



Field of Application



- High flexibility of the line allows the production of varied automobile hoses like power steering, fuel or shaped hoses
- Manufacturing of hoses with textile reinforcement with up to five layers
- Production of blanks for the manufacturing of shaped hoses



Hose Production on Mandrel

rubicon High Performance Line for Industrial Hoses



Hydraulic hose line

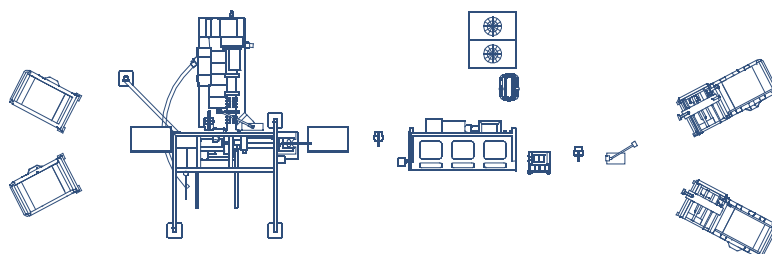
Line Characteristics

- Extrusion line for the manufacturing of inner and outer layer of hydraulic hoses on flexible mandrel
- Highly effective and place saving cooling unit for manifold passage of the hose allows significantly higher line speeds
- Pin barrel extruder can be rotated about 90° and therefore used for the extrusion of the inner as well as the outer layer

- Completion of the line with signing machine, caterpillars, water chillers, release agent applying units as well as diameter measuring units



Diameter measuring system



rubicon Aircondition and Fuel Hose Line

The high flexibility of the line for manufacturing of hoses on mandrel allows the production of varied automobile hoses.

Line Characteristics

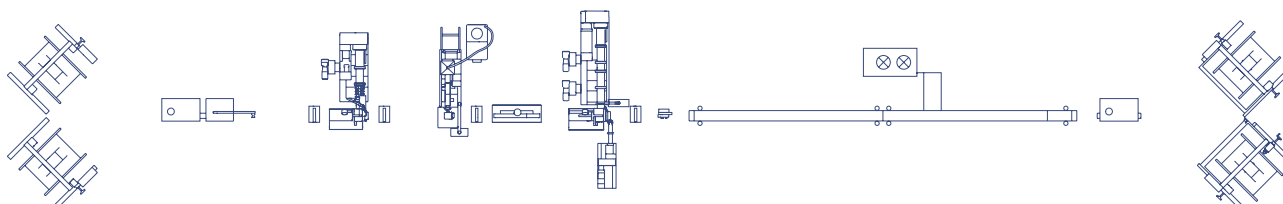
- Manufacturing of endless hoses with up to 5 layers on flexible mandrel with or without plastic barrier layer
- Variable line structure because of movable arrangement of the extruders
- Applying of the textile reinforcement optionally within the line for spiraled hoses or outside the line for knitted hoses
- Complete manufacturing technology including bandage or covering with TPX, vulcanization, pressing out the mandrel and testing



Multi-functional line for hoses on mandrel

Fields of Application

- Production of endless, winded up hoses on flexible mandrels
- Manufacturing of aircondition, fuel and oil hoses for the automobile industry



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