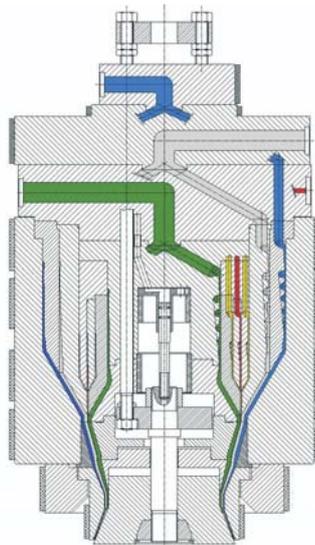


Coextrusion Die Heads for Blow Moulding



ETA coextrusion die heads with 6 or 7 layers are a very favourable proven solution for the blow moulding of multi-layer plastic fuel tanks and multi-layer filler pipes for automotive applications. Also and increasingly, 2 and 3-layer die heads are supplied for industrial containers, e. g. drums and IBC.

Characteristics and Advantages

- concentric spiral mandrel manifolds with sophisticated melt pre-distribution and optimised layer combining
- very compact size and very low weight
- extreme versatility regarding materials, total throughput and layer structure
- even circumferential layer distribution
- adhesive layers and barrier layer with very good thickness distribution and homogenous material structure without any flow lines
- very thin adhesive layers and barrier layers possible
- excellent purging behaviour
- fast start-up and shut-down processes, very short heat-up times, purging procedures and cool-down times
- most modern die materials and surface coatings

Actual die designs manufactured have die exit diameters ranging from 10 mm to 1.200 mm and total throughputs from 10 to 1.850 kg/h.

The scope of supply of ETA can include adapters for the connection of die head and extruders, die sets (quick change systems are an option) and hydraulic cylinders for parison thickness programming.

Small 6- and 7-layer die heads for blow moulded filler pipes can be equipped with a radial wall thickness programming mechanism (RWDS) designed by ETA.



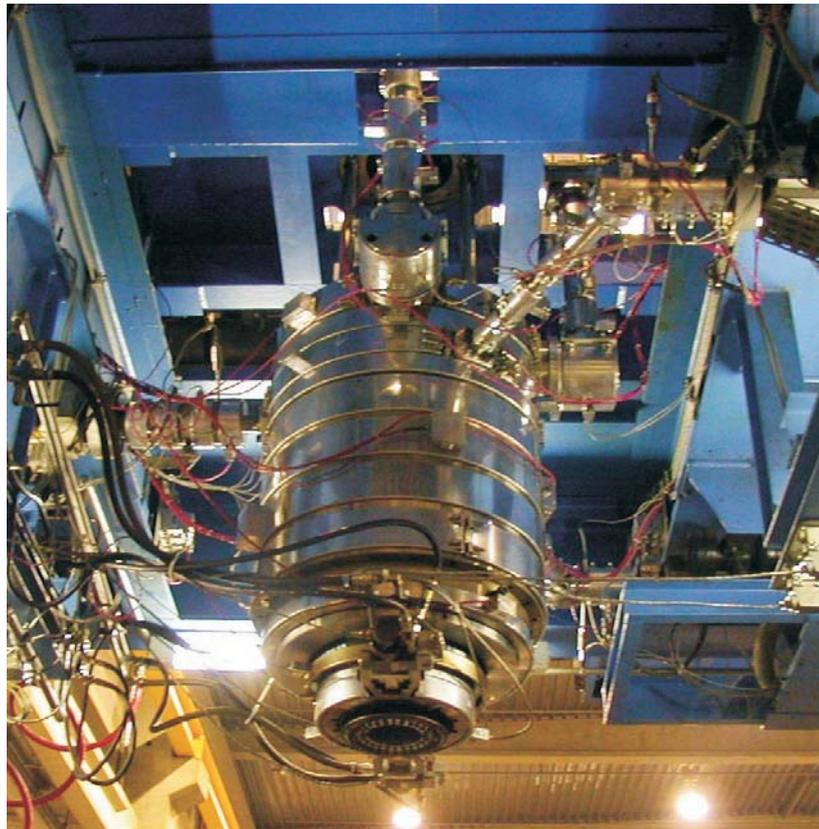
Spiral mandrel manifolds for a 7-layer blow moulding die head for filler pipes

Modification and Optimisation of Existing Machinery

ETA 6 layer coextrusion die heads are used for both for new blow moulding machines and for the modification of existing machines. Compared with conventional die heads for this application ETA die heads are much more efficient and have remarkable smaller dimensions.

The modification of existing mono- and coextrusion machines with a state-of-the-art ETA coextrusion system can be offered and carried out in cooperation with partners.

If existing extruders are equipped with ETA barrier mixing screws further advantages regarding performance and quality can be achieved at the same time.



ETA 6-layer die head
in a modified blow
moulding machine

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