



## Drawing Machines Plant Engineering

Customized draw frames in production process of  
synthetic filaments



Retech customized draw frame for spin draw applications acc. customer's request

### Vario-Max – Pilot Drawing Machines

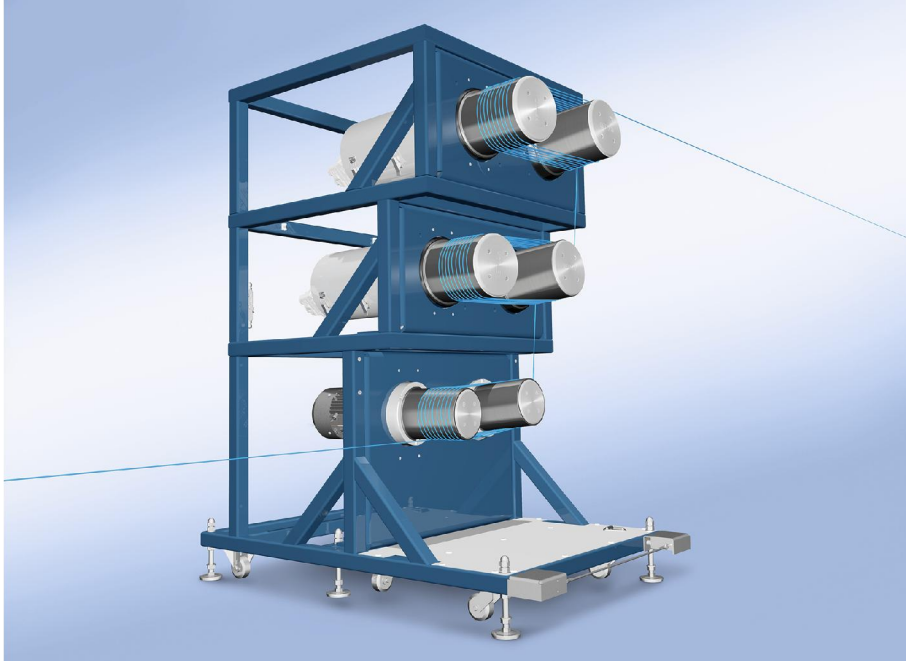
Retech proposes customized solutions, individual design as per customer's specific requirement, multi functional and extremely flexible concepts and superior quality manufacturing. Lab line and production scale, ranging from scientific application to manufacturing.

### Plant Engineering

**"From concept to finished draw stand" for yarn producers, R&D institutes and engineering companies.**

Retech are specialists in the development of innovative, efficient and high quality plant engineering. Having been in the business of supplying thermal and mechanical process equipment for synthetic fibres for more than 35 years, Retech has accumulated a tremendous amount of know how in plant engineering as well as in the engineering of machines for state of the art processes. Retech is providing problem solving knowledge for decision making professionals responsible for design, engineering, installation, operation and maintenance facilities, equipment and systems in the field of synthetic fibres.

## Customized draw frames in production process of synthetic filaments



### Characteristics

- Modular design: draw off unit, draw unit, take off unit
- Layout of the draw stand according to customer's specification
- Flexible arrangement of the rolls
- Optional integrated devices / equipment, e.g.: suction / cutting, spin finish applicator, entanglement, BCF texturizing jet, cooling drum, threadline sensor
- Mechanical design incl. machine frame, electrical layout and cabinet, definition of the interface and operator software
- Building the complete draw stand including acceptance trials
- The responsibility for the process remains with the customer

### Advantages

- Maximum variation of machine set up, modular design allows fast alteration
- Machine alignment according to customer's individual requirement
- Pull in, pull out concept which covers a large variety of process parameters, e.g.: POY, HOY, FDY, BCF
- Compact design, very user friendly handling
- Energy Saving Motors, ESM for the godet rolls
- Various high grade godet roll coatings available, according to customer's process parameters
- High and low speed versions available, e.g.: min. 1 m/min. / max. 6500 m/min.
- High temperature options 300°C
- Multi zone heating achieving accuracy  $\pm 1.0^\circ\text{C}$
- LCR Liquid Cooled Roll option
- Options for additional devices on the yarn path

Re-designing, modification, conversion, revamping and upgrading are also vital topics such as:

- Replacement of temperature transmitters in existing godet rolls
- Conversion of existing draw units using new generation godet rolls
- Overhauling and repair of existing godet rolls
- Implementation of Win-OLT yarn tension monitoring system on existing DTY machines
- Exchange existing air bearing separator rolls with up to 30 % air pressure savings