

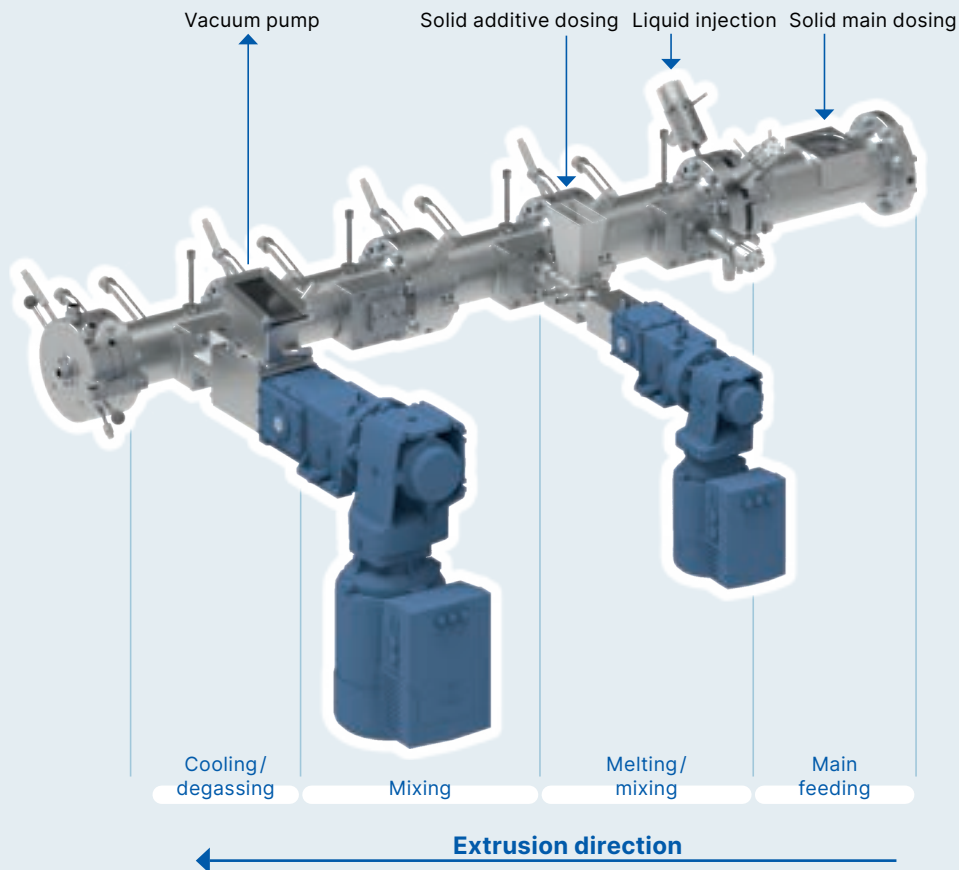
The Planetary Roller Extruder  
**Revolutionary process engineering**

**ENTEX**

## Modular and adaptable to your process.

### Easy configurable machine setup for challenging processes.

- Up to 6 independent extruder modules can be combined to fulfil all process requirements in one process section
- Material feeding by single screw feed cylinder or by twin screw side feeder
- Multiple planetary spindle designs and selectable number of planetary spindles for each module to adjust the process
- Modules can be connected to obtain even longer process sections
- ENTEX degassing system with side degassing
- Multiple liquid injection ports along the process section
- Double side feeder option to feed large volumes of fillers from both sides into one module
- Ports for local product pressure and temperature measurements after each module
- Connectivity to inline measuring systems for colour, viscosity and more



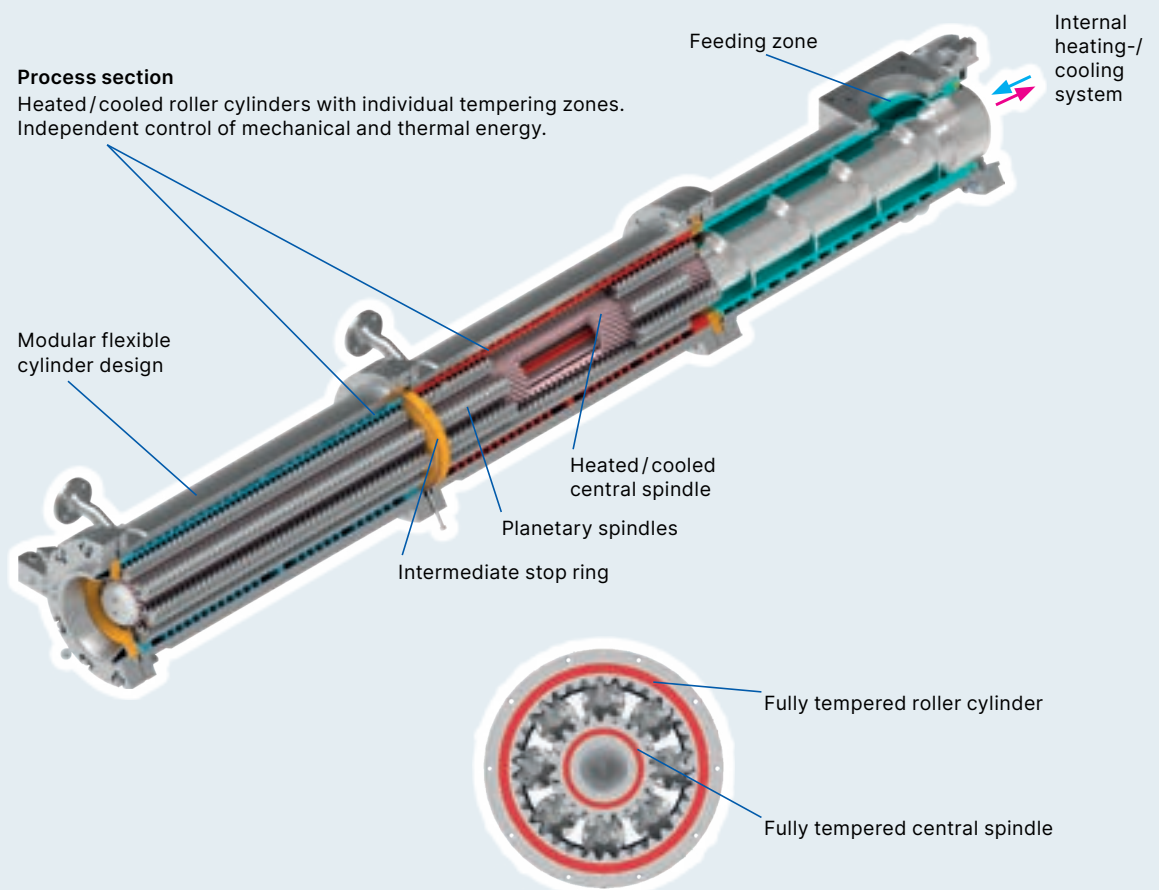
The Planetary Roller Extruder in action – just check our animation video:



## THE ENTEX BENEFITS. Your advantages.

### Revolutionary Process Technology.

- The ultimate in precision temperature control thanks to the ENTEX thermodynamic system and state-of-the-art production technology
- Up to 10 times larger surface area compared to other extruder types, with permanent surface renewal
- Dispersion and mixing without product temperature increase and free of hot spots, for > 85 % filler content and/or > 70 % liquid recipe ingredients
- Efficient product cooling independent of extruder size, for temperature reduction > 100 °C
- Large process window, constant product qualities typically in a throughput range up to 1:10
- ENTEX degassing system for an efficient removal of undesired volatiles, with vacuum pressures < 1 mbar if needed
- Consequent self-cleaning geometry, superior to comparable compounding systems
- Rapid reproducibility and minimal waste when changing materials



# From product concept to industrial production.

## It all starts with the smallest one...

- Perfect to perform series of laboratory scale tests for formulation and product development
- The smallest ENTEX extrusion system ENTEX 30

### LABORATORY SCALE



## One for all...

- Optimal for product development as well as for process optimisation
- Suitable for customer sampling and pilot scale production

### PILOT SCALE - TESTING FACILITIES



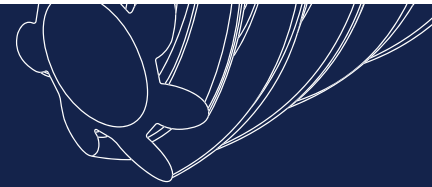
## Full speed ahead...

- Throughput up to 12,000 kg/h
- Also available as a 'heavy-duty' series for extended service life

### PRODUCTION SYSTEM



# One extruder. Various applications.



## ENTEX in numbers.

More than **35** years of experience | over **160** intellectual property right registrations | **150** employees ready to support our customers | **2** test facilities with **5** extrusion lines and thousands of successful trials for **>100** applications.



More information



## TEMPERING SYSTEMS made by ENTEX.

Not only for ENTEX extruders:

High quality thermodynamic solutions developed by our engineers in Bochum, customised for our extruders or for your application.



More information



## State-of-the-art facilities & experienced employees at your service.

### From idea to product.

You have an idea for a new product or would like to optimise your production process.

You are tired of batch processes and ready for continuous production.

Our testing facilities with ENTEX 30 laboratory scale and ENTEX 70 pilot plant as well as the ENTEX production plant are prepared to help you throughout the process.



### The ENTEX 360° Service.

We are your strong partner not only for Planetary Roller Extruders, tempering systems and spare parts but also for plant modifications or modernisations. Together with you, we develop innovative solutions for your requirements.

**Contact us for more information!**  
**We would be pleased to advise you.**

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