Innovative solutions for the extrusion technology
The Planetary Roller Extruder is characterized by a very gentle plastification, good homogenization and dispersion as well as a low specific energy demand. The planetary roller system exists since nearly 60 years and since more than 25 years ENTEX places its new developments with over 100 intellectual property rights and intellectual property rights registration consequently on the world market. In this connection the line of processing ranges from the classical PVC-process to food application, at which the caoutchouc industry, colour industry, chemical industry, pharmaceutical industry and sludge processing may not left unmentioned. The unique and trend-setting modular system of ENTEX offers unprecedented economical advantages and becomes manifest in the following points:

- modular construction, up to 8 cylinder assemblies can be connected in series
- most precise temperature control by means of the ENTEX thermodynamic system due to state-of-the-art manufacturing technology
- high cooling capacity at high viscose products due to extremely large surface exchange
- due to the process geometry the planetary roller extruder has an approx. fivefold larger surface compared with other compounding systems
- extremely high energy exchange at heating and cooling processes
- larger procedural window due to variation of the dosing by means of lateral feeding (side feeder)
- optimal degassing possibilities
- high degree of dispersion at gentle compounding and low speed
- system with the best self-cleaning effect of all compounding systems
- excellent product quality in a batch-performance range 1:10, i.e. the planetary roller extruder must not be filled completely in order to achieve good results
- quick repeatability of material changes with minimal waste quantities
Drive capacity, melt temperature and melt pressure are depending on the number of the planetary spindles.

Subject to technical alterations, issue March 2013

1) Drive capacities will be designed as per procedural requirements
2) Exact specifications are depending on the formulation
3) The sizes WE 140, 170, 190 and 350 will be adjusted individually to the requirements of the customer
4) The product range comprises also the sizes 500 as heavy construction line as well as the special toothings of the sizes 550 and 650
Extrusion direction
Feeding zone

Injection

Pressure/temperature measuring

Lateral feeding

Round die

Degassing between the cylinder assemblies

Dispersion ring

Cylinder assembly

Degassing cylinder

Planetary Roller Extruder

Actually 8 modules available

Middle centering

Segmentation, retrofit available plants

Segmentation new plants
Segmentation
An amply Technical Centre is of course available to our customers. Different laboratory and production extruders are reflecting our ability.