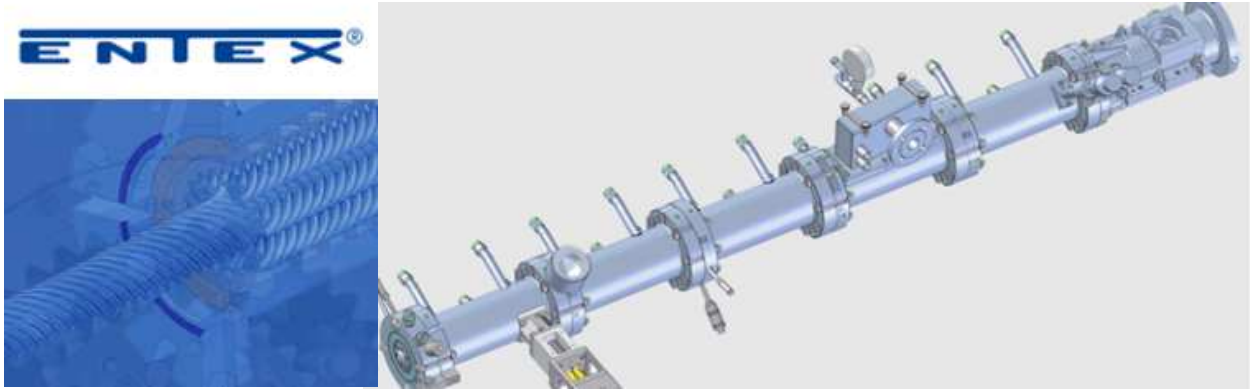


## An overview of our fields of application of the last few years

### Applications in the plastic industry

- Processing of Rigid to soft and paste PVC e.g. calendar feeding / pelletizing / coating processes
- Processing of thermoplastic plastics
- Processing of master batches particularly in the area of highly filled applications e.g. pigments, aerosiles, carbon black and conductive carbon black
- Manufacturing of duroplastic masses with varied parts and filling material
- Manufacturing of Prepregs masses and masses with short reaction time
- Processing of hyposcopic and thermoplastic materials und recycling materials among vacuum incl. vacuum dosing unit (e.g. PET-material) Saving of complex pre-drying processes
- Processing of Linoleum-masses
- Processing of expanded thermoplastic plastics
- Processing of Nano filled formulations
- Processing of bitumen masses (e.g. carpet back, stretch marks for road making and plant construction)
- Manufacturing of foam materials based on thermoplastic plastics
- Manufacturing of EVA compounds( shoes / heavy duty foil)
- Manufacturing of PLA raw materials
- Manufacturing of PLA compounds
- Processing of bio polymers



- Planetary roller Extruder for evaporation of solvents and residual monomers by using a back venting / melt seal with dispergion ring
- Cooling-degassing processes in the field of polymers

### Applications in the Elastomer Processing

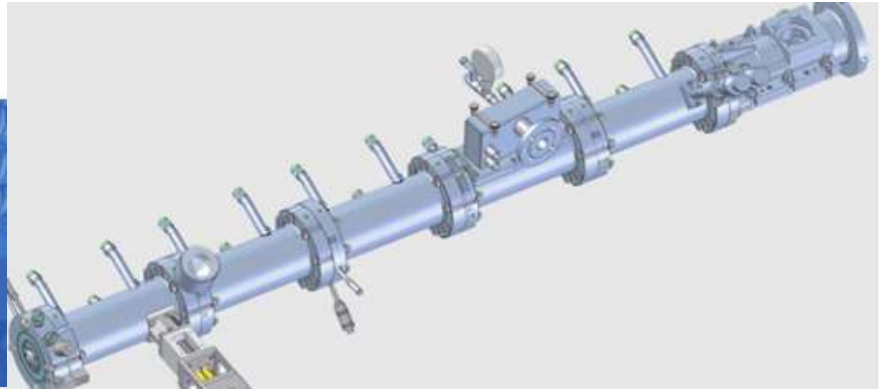
- Processing of elastomeric formulations (e.g. Natural rubber, EPDM, SIS) and materials of different compositions as well cross-linking of granulated surfaces and direct cross-linking
- Devulcanisation processes in the area of EPDM and Natural rubber, particularly for the processing of rubber wastes. (e.g. tyres, tubes, roof sheeting)
- Processing of all adhesives, e.g. based on elastomeric, thermoplastic plastics formulations
- Processing of thermoplastic elastomere masses (e.g. TPO)
- Use as cooling extruder for high-viscosity liquids

### Applications in the Colour Industry

- Powder coating processes based on all resins (epoxy, polyester, and acrylic), which are commercially available. Special advantages in the area of thin layer and low temperature processes, as well as processing of aspiration material
- Processing of powdery pigment dipping

### Applications in the Chemical Industry

- Processing in the area of chemical reaction processes of either endothermic und exothermic reactions
- Processing of detergent-formulations
- Use as degassing extruder and thin layer evaporation
- Polymerisation



- Linking processes
- Modification of polymers by controlled chain degradation or pprohpolymerisation

### **Applications in the Food Industry**

- Food Processing, e.g. Grain roasting/malt process for use in alcoholic and non alcoholic drinks / processing of cacao-sugar masses / processing of meat – as well as bakery products / ice cream / processing of coffee-products / chewing gum / sugar mass etc.
- Processing of animal food

### **Applications of Composite material**

- Processing of Wood Plastic Composites, particularly with high portions of wood, 70-80 % and fiber strengthened materials (up to 80 %) e.g. rice husks
- Processing of cellulosic materials
- Processing of paper/recycling paper with additives
- Processing of natural fiber e.g. hemp with polymer

### **Special Applications**

- Processing of hydrophobic und lipophobic substances in the area of the pharmaceutical Industry, as well Starch processing
- Processing of sludges with addition of liquid components (e.g. Tenside, plastic waste, oil) for a later thermic use in the combustors