

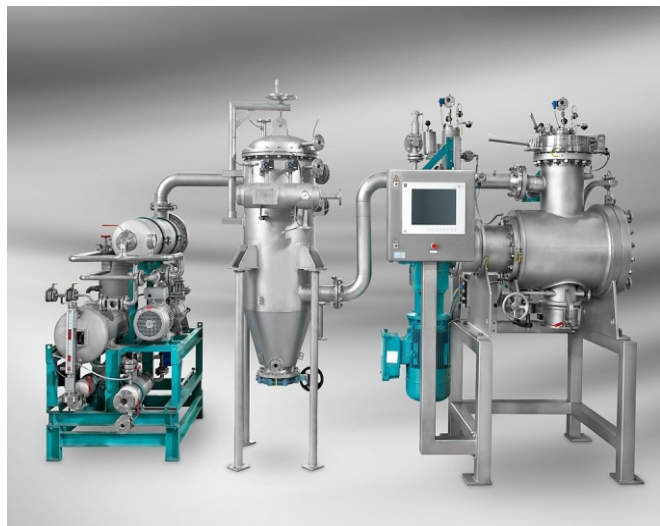


DRUVATHERM®

Reactor DVT 130

- High speed mixing of reactants
- Prevention of local overconcentration
- No temperature gradients in the reaction field
- Improved reaction of reactants
- Higher yield and greater end product purity
- Multiphase process

DRUVATHERM® Reactors for product development and small scale production



DRUVATHERM® Reactors DVT 130

Function

Lödige DRUVATHERM® Reactors are batch-process, high speed reactors. A three dimensional movement of the product is generated by mixing elements, adapted to the process, rotating in a cylindrical drum.

The resultant frequent contact of the reactants amongst themselves and to the heating or cooling drum wall ensures effective reaction and maximum yield. High speed choppers fitted to the side of the machine drum provide an additional mixing effect whilst dispersing the reactants.

Range of application

- Cellulose derivates (CMC, HPMC, HEMC, MC)
- Starch, guar and tamarind derivates
- Chemical and special chemicals
- Intermediate pharmaceutical products
- Plastics
- Recycling

Typical shovel of a
DRUVATHERM®
Reactor DVT 130



Process

- Reaction
- ➔ Reaction in homogeneous and heterogeneous phases with respect to all combinations solid / liquid / gas
- Heating
- Drying
- Granulating
- Cooling

Optional equipment / Performance

- Speed variation by hydrostatic drive unit or frequency regulation
- Product contact materials can be made, as required, of mild steel, any usual austenitic steels, titan or diverse nickel-based materials
- Pressure range to max. 40 bar
- Heating / cooling jacket
- Temperature range to 650 °C
- Shafts sealed by double-action mechanical face seals
- Supply of peripheral unit parts up to a complete system

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