

## Planetary mixer

- » Powerful vertical mixer
- » Processing of highly viscous up to plastic materials
- » Available with two wing or two frame spiral mixing tools or up to three spiral mixing tools
- » can be supplemented with dissolver or butterfly mixing tools
- » optional scraper and/or temperature lance adaptable



During mixing, the planetary mixers superimpose two rotary motions, with the mixing tools moving on a circular path and additionally around themselves. This ensures uniform, complete mixing of the material to be mixed in the mixing vessel.

In dispersion, the interaction of mass acceleration and friction forms the basis for the product-specific, ideal shear rate. The proven adjustment of mixing tool, geometry, speed and vessel dimensions produces a highly efficient mixing effect. A large-volume recirculation ensures that the solids are drawn in quickly.

## Characteristics

- » Designed for the use of exchangeable mixing vessels
- » The combination with a press-out system ensures a residue-free emptying
- » Wing or spiral blades and/or scrapers are available
- » For the processing of low-viscosity to extremely high-viscosity products: the planetary mixers superimpose two rotational movements and at the same time the mixing blades move in an orbit around themselves





# Planetary mixer

## Design Options

- » **Drive Power according to product characteristics** and scheduled quantity
- » **Removable mixing tools**
- » Automatic turning on/off of the spiral mixing tools during hood stroke
- » Vacuum-sealed telescopic hood
- » Vacuum Design with vacuum system and vacuum control
- » Single-arm wall scraper with own drive unit
- » Mobile **exchangeable vessel** (with/without double jacket/double bottom)
- » **Tempering System** (heating and/or cooling)
- » Power loading below the product level by means of vacuum suction
- » **FDA-, GMP- or SIL-compliant design**
- » Integrated CIP nozzles
- » **Explosion protection** according to ATEX/Directive 2014/34/EU
- » **Digital pressure gauge, temperature display, level and / or performance indication**
- » Automatic **speed regulation**
- » Oxygen measurement or gas measurement systems
- » Monitoring and measuring of flow and fill levels
- » Hard-wired **relay control, compact controller or memory programmable controller (PLC)**
- » **Automatic mixing sequence** with variable time, rotation speed and vacuum setting
- » **Recipe management and dosing control**
- » **Batch-related logging of the operating, process and production data**
- » Touch screen operating panel with process visualization
- » Remote maintenance and remote diagnosis

## Possible applications

Wide range of applications in the chemical, pharmaceutical, plastics processing as well as the paint, coatings and building materials industries.

### A typical application is the production of:

- » Primers
- » Adhesives
- » Plastic compound
- » Printing colours
- » Coatings
- » Creams and ointments etc.

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