

Chemical

Innovative Horizontal Reactor

AVA was recently able to present a newly developed horizontal reactor for laboratory operation. After comprehensive tests at the technology centre, a special machine type was developed for the purpose of drying powdery raw materials for filter elements.

The high-tech filter elements are manufactured as end-products for usage in diverse industrial applications. The challenge in the development phase for AVA was especially in the high-temperature area, with a defined centred main shaft and single-sided agitator bearing, an insulation, which allows for expansion behaviour, defined heating / cooling speeds and a sealing system which enables discharge into a combination of various systems. In addition, variants were tested during numerous test series which were designed with a sintering in the product wall area, which serves to prevent crust formation. The result is a complete, extremely extensive new design for a high-tech horizontal reactor, which fulfils all requirements of the demanding problem formulation. Instead of a standard solution, this represents innovations for the benefit of the customer. The customer investment is worthwhile, as the regular upstream chamber filter press is no longer required.

