



solids® Hygienic-Dry Design

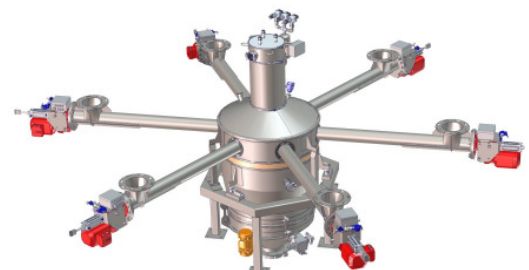


Part of **HOSOKAWA ALPINE**

solids hygienic-dry design applies to **dry processes with dry cleaning**. It is designed for food, cosmetic- and pharma products, if a risk analysis according to HACCP had shown that hygienic process handling is required, **the product due to the non-critical a_w -value is microbiologically not sensible, and the hygienic category 1 acc. EN ISO 14159 is applicable**. Also for other industry branches with high requirements against cross contamination and requests for easy cleaning. Fulfils 2006/42/EC machine directive with appendix 1 chapter 2.1. food machines, EHEDG-Guidelines, as well as GMP- requirements for intended use. For pharma-products a case by case review is required.



- Execution in stainless steel with suitable alloy, with exception of sensors and actors, respectively equal casted materials. Requirements of corrosion resistance must be fulfilled for selecting suitable alloy.
- Dimensioning and design according to relevant standards and directives
- Wall thicknesses and weldings according to strength requirements
- Pressure proof or pressure shock resistant construction parts with the required confirmations
- Support structures with static calculations as far as necessary
- Sealings FDA-conform
- Surface quality inside according EN 10088 2B with roughness value $R_a \leq 0,8 \mu\text{m}$, metal plates external over 6 mm wall thickness with surface quality 1D according EN 10088 and fine glass bead blasted (satin gloss), casted parts external glass bead blasted, $R_a = \sim 6,3 \mu\text{m}$, permitted casting defects according quality class VC2 acc. DIN EN 1370
- Easy to dismantle, for **dry cleaning only**
- Weldings in general acc. EN ISO 5817 quality class B as well as continuous free of gap and **inside grinded with roughness value $R_a \leq 0,8 \mu\text{m}$** , pickled and passivated, but inner pores will not be inspected, that means no x-ray inspection. Surface pores and undercuts are not permitted.
Pipelines: High-quality orbital-weldings achieve with good inertisation $R_a \sim 3 \mu\text{m}$ and will not be grinded.
- Optional electropolished
- Support constructions in stainless steel with closed profiles, fine glass bead blasted (satin gloss)
- Support constructions optional in carbon steel with food safe paint
- Equipment shipping in hygienically perfect condition – clean, with closed hollows



solids solutions group
www.solids.eu