



# Guide for Selection the Designline

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Guide for selection the designline at plants producing food and cosmetic or pharma products (2006/42/EU Machine Directive Appendix 1 Paragraph 2.1)

1. Differentiation of the products in microbiological sensitive and microbiological insensitive

Which products are considered as microbiological insensitive?	Which products are considered as microbiological sensitive?
Inorganic products (f.e. salts, mineral solids) with an $a_w$ -value < 0,6	All products, which are not considered as microbiological insensitive
Dry organic products, which are not a food intake of microorganism (f.e. plastics, waxes)	
Sugar with an $a_w$ -value < 0,6	
→ <b>Designline Clean</b>	→ <b>Designline Hygienic dry/wet</b>

2. Selection of the cleaning process (dry/wet) acc. to the following table

solids Designlines for food- /pharma- /cosmetic industry					
After joint risk analysis by customer & solids under use of the HACCP-concept					
Physical risk	yes / no	yes / no		yes / no	yes / no
Chemical risk	No quality loss over time	with quality loss over a longer time period and no fat content		e.g. fat content cleaning agent hygroscopicity	fat content cleaning agent allergens
Microbiological risk	no microbiological risk	dry $a_w < 0,6$ ? no microbiological risk		$a_w > 0,6$ ? fundamentally microbiological risk possible or fat content	$a_w > 0,6$ ? microbiological risk or fat content > 3 %
Cleaning method inside	dry	cleaning with disma	dry cleaning by air flow without dismantling and inspection	wet cleaning of the, where necessary, dismantled plant components	wet cleaning by rinsing with cleaning agent without dismantling with inspection / without inspection
Cleaning method outside	dry	dry	dry	dry or wet	dry or wet
SOLIDS Design lines	solids Clean	solids Hygienic-Dry	solids Hygienic-Dry with solids Dry-CIP	solids Hygienic-wet	solids Hygienic-wet
EHEDG-Class	none	ED Class II	ED Class I	EL Class II	EL Class II with inspection / EL Class I without inspection
Hygienic level (EN ISO 14159)		1		2	3

**Note:** The joint risk analysis from customer and solids solids-project manger has to be recorded in any case.



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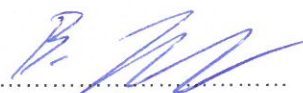
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### More factors, which must be considered for selection:

3. Ambience conditions (room for assembly, possible high humidity)
4. Customer requirements and –wishes, if they are in accordance to the machine directive

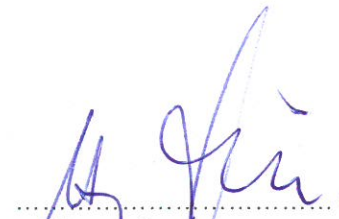
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