



Obblighi igienici e norme volontarie per le macchine alimentari CIBUS TEC – 17 Ottobre 2007

EUROPEAN HYGIENIC ENGINEERING AND DESIGN GROUP Regional Sections

Costituzione della Sezione Italiana

Giampaolo Betta



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REGULATORY CONTEXT (EU)

• Reg.EC 852/2004

general hygiene rules

• Dir. 98/37/EC

EU Machinery Directive

Dir. 2006/42/EC

Machinery (since Dec. 2009)

Reg.EC 853/2004

hygiene rules for food of animal origin

• Reg.EC 1935/2004

materials and articles intended to come into contact with food

• Reg.EC 178/2002

general principles and requirements of food law

vertical regulations

each covering a restricted range of foodstuffs



From Regulation to Guidelines

Regulations normally lay down general requirements Example: CLEANABILITY

- "All articles, fittings and equipment with which food comes into contact are to be effectively cleaned and, where necessary, disinfected" (Reg.EC 852/2004).
- "The machinery must be so designed and constructed that these materials can be clean before each use. (...) All surfaces in contact with the foodstuffs must be easily cleaned and disinfected (...)" (Dir. 1998/37/EC)
- "The machinery must be designed and constructed in such a way that these materials can be cleaned before each use". (Dir. 2006/42/EC).
- "All plants equipment and utensils shall be so designed and of such material and workmanship as to be adequately cleanable (...)" (21 CFR 110.40). (US Regulation)

Can we assert that equipments are always and actually compliant to these requirements?



From Regulation to Guidelines

Regulations don't normally suggest how to design a correctly cleanable equipment

The important role of Standards and Guidelines

EHEDG provides practical guidelines on several topics:

continuous flow pasteurisation & sterilization of liquid foods	pumps, homogenisers and dampening devices	
hygienic and aseptic packing	passivation of stainless steel	
welding stainless steel	double-seat mixproof valves	
closed equipment	processing of dry particulate materials	
thermal treatment of particulate foods	food-grade lubricants	
open processing	prevention and control of Legionella spp	
valves	hygienic and aseptic mechanical seals	
pipe couplings	treatment, storage and distribution of water	
packing systems for solid foodstuffs	air handling	
fluid bed and spray dryer plants		



Aims

What is?

• EHEDG is a Consortium of Equipment Manufacturers, Food Industries, Research Institutes, Public Health Authorities and was Founded in 1989.

Aims (see also www.ehedg.org)

- To provide **guideline documents** on essential hygienic design standards and practices, based on science and technology, and to periodically review them. These provide **guidance** to equipment manufacturers and users **on compliance with national and international legislation**.
- To develop **test methods** that can be used by third parties for hygienic design assessment to aid compliance with relevant legislation.
- To increase **awareness** about food hygiene, help in **prevention** of food safety problems, thereby **sustaining the image** of the food industry among consumers.



Organization

Activities (see also www.ehedg.org)

- Production, update and publication of guidelines.
- Equipment certification.
- Organization of conferences, regional meetings and workshops.

Organization

- <u>Subgroups</u>: Guideline development is carried out by the subgroups.
- Regional Sections.



Regional Sections

Working Regional Section

Benelux	Poland
France	Portugal
Germany	Spain
Hungary	UK
Nordic	ITALIA



Regional Sections

Aim

• Promote hygienic manufacturing of food through regional activities.

Activities

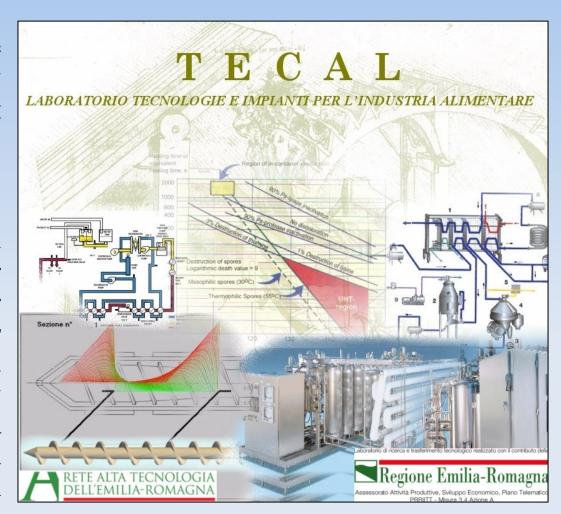
- Translation of guidelines into the local language.
- **Dissemination** of information to all concerned parties.
- To serve as a **platform for discussion** of hygienic engineering issues at national or regional level.
- To identify areas where knowledge of hygienic design is insufficient and to **encourage** research and development in such areas.





Italian Section setting-up

- EHEDG Italian Section is an initiative of EHEDG and of the Food Technology Unit of Industrial Engineering Department of Parma University.





Alimentari)

Italian Section – Promoter Group

According to EHEDG general principles, the **Promoter Group** of the Italian Section is actually composed of Equipment Manufacturers, Food Industries, Research Institutes, Public Health Authorities

RESEARCH INSTITUTIONS	EQUIPMENTS MANUFACTUR ERS	FOOD COMPANIES	HEALTH INSTITUTIONS
Food Technology (University of Parma)	CFT Rossi & Catelli	Barilla G. e R. Fratelli	Health Ministry
Industrial Mechanical Plants (University of Parma)	FMC Technologies Italia	Parmacotto	
Equipment Construction (University of Parma)	GEA - NIRO Soavi	Parmalat	
Mechanics Applied to Equipments (University of Parma)	GEA - Procomac	Sangemini	
Machinery (University of Parma)	PNR Italia		
Hygiene and Sanification (University of Parma)	Sidel		
Food Microbiology (University of Parma)			
SSICA (Stazione Sperimentale per l'Industria delle Conserve			



Italian Section

Upcoming activities of the Italian Section

• Translation of guidelines, firstly:

Doc.8 Hygienic equipment design criteria, 2004

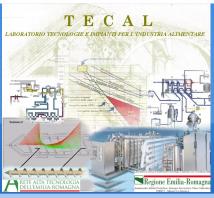
Doc.2 (Updated) - A method for assessing the in-place cleanability of food processing equipment, 2004

• To provide a website of the Italian Section

www.ehedg.unipr.it (soon on line)







Università degli Studi di Parma Fiere di Parma

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THANK YOU FOR YOUR ATTENTION

For further information please contact

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