

ITALIAN EXCELLENCE

PERFORMANCE
EVOLUTION
IN THE ART
OF MILLING

WHEAT CONTAMINATIONS

The wheat is an agricultural commodity, its purity could be effected by soil nature, cultivation methodology, wheather conditions, handling and storage process .

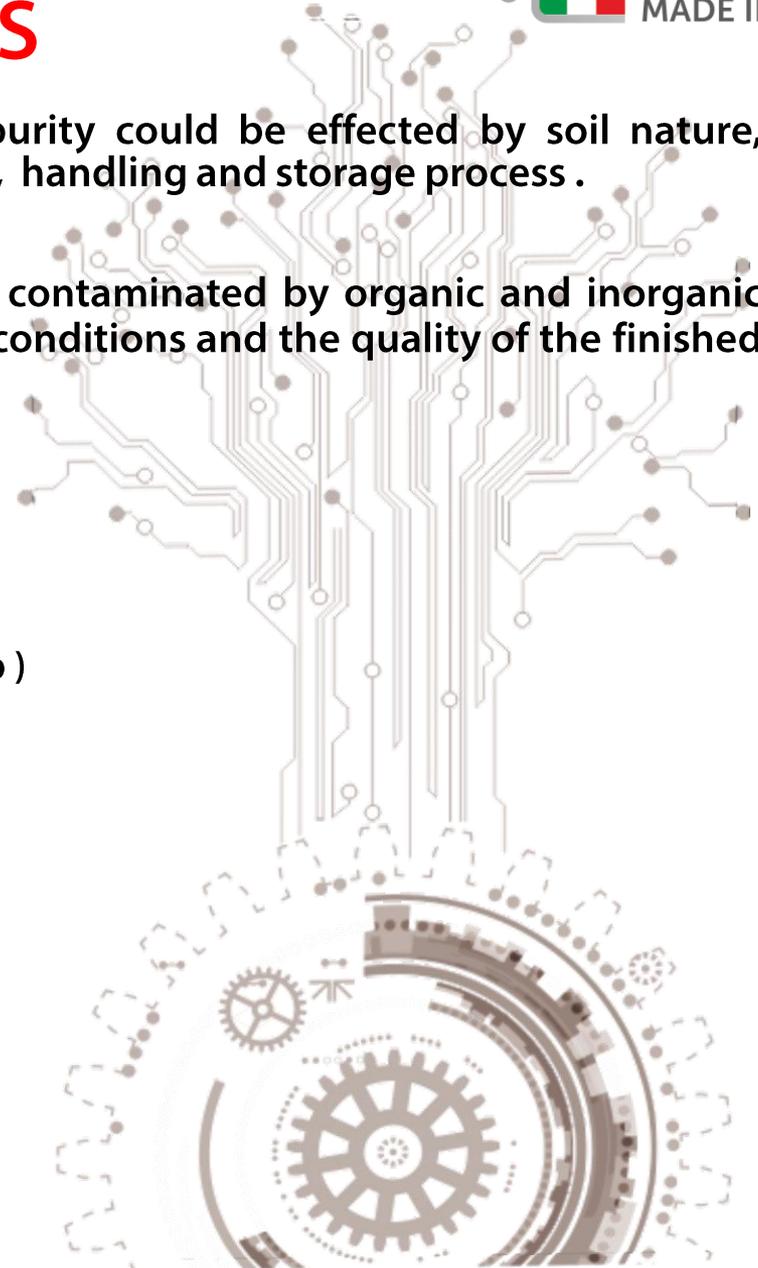
According to FAO **60%** of the cereal crops are contaminated by organic and inorganic impurities which drastically effect the storing conditions and the quality of the finished products.

INORGANIC IMPURITIES :

ash ,
heavy metal,
pesticides,
herbicides (roundup)

ORGANIC IMPURITIES :

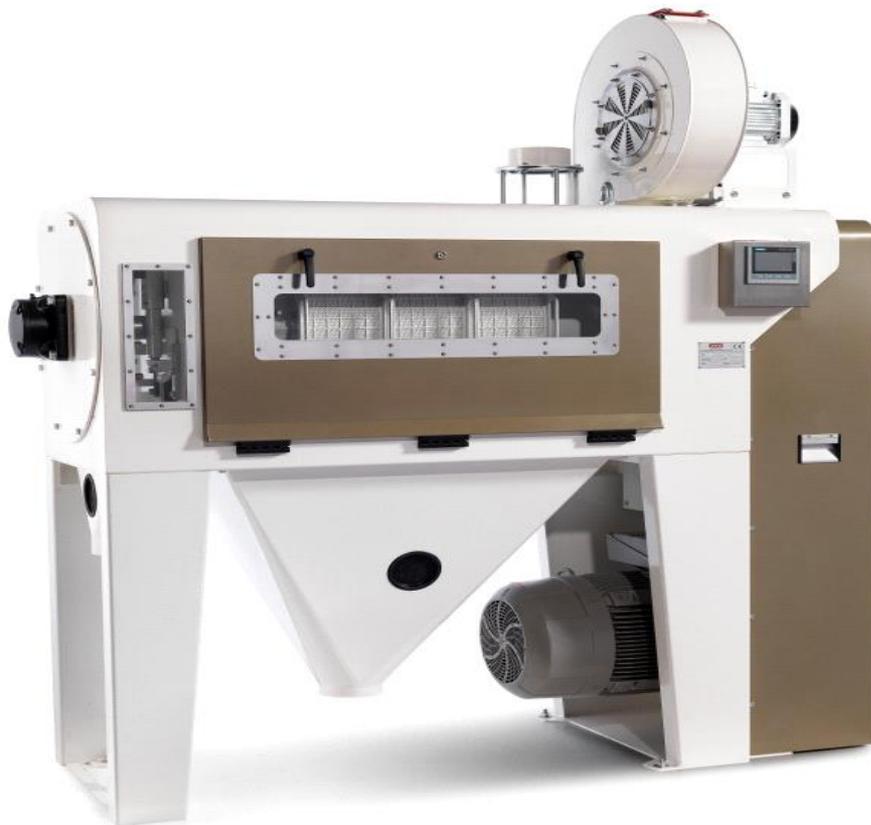
bacteria (CBT)
fungi fusarium
mold,
micotoxins



CONSUMER CARE - HEALTHIER FOOD



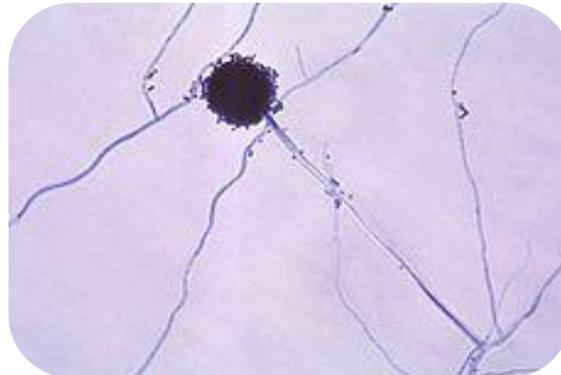
GIOTTO: WHEAT STERILIZATION PROCESS



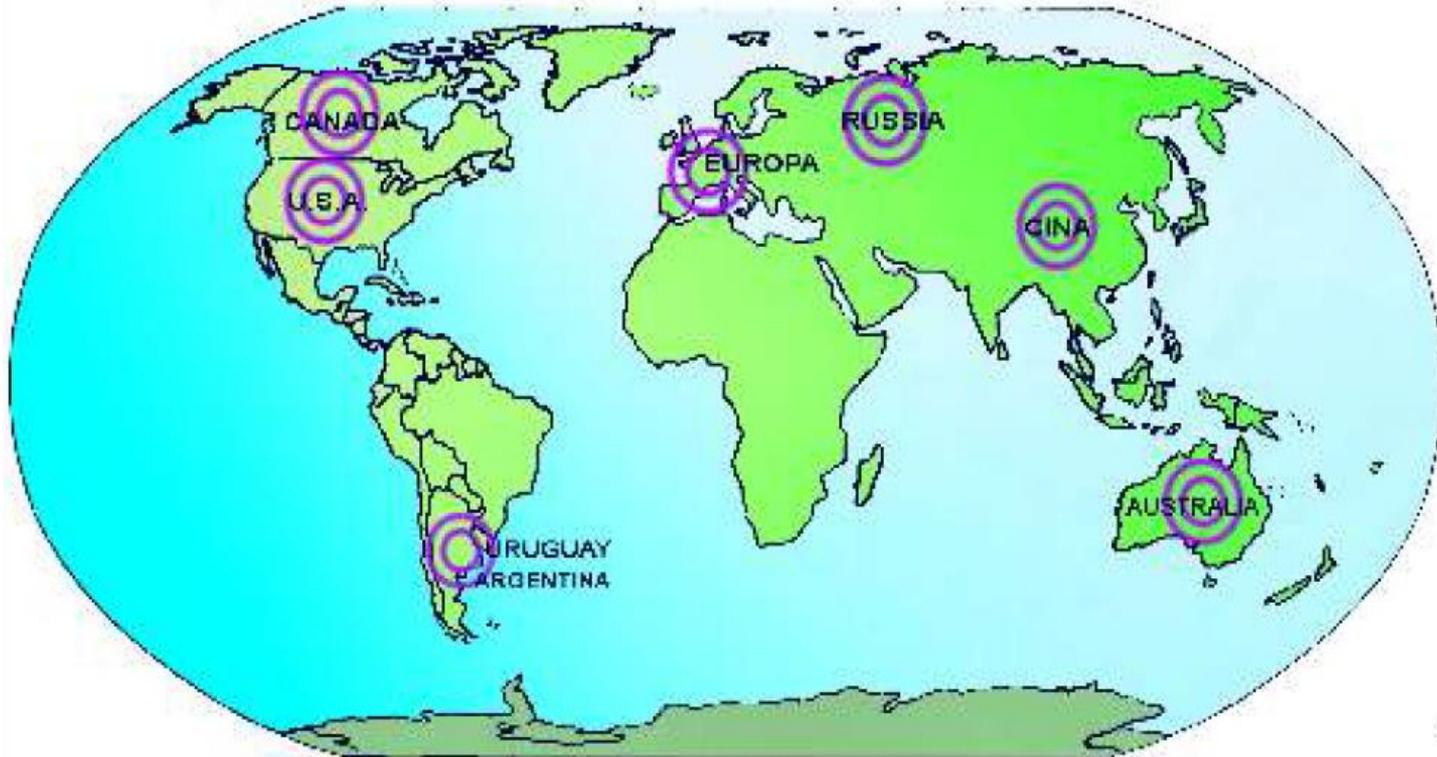
INORGANIC IMPURITIES



ORGANIC IMPURITIES



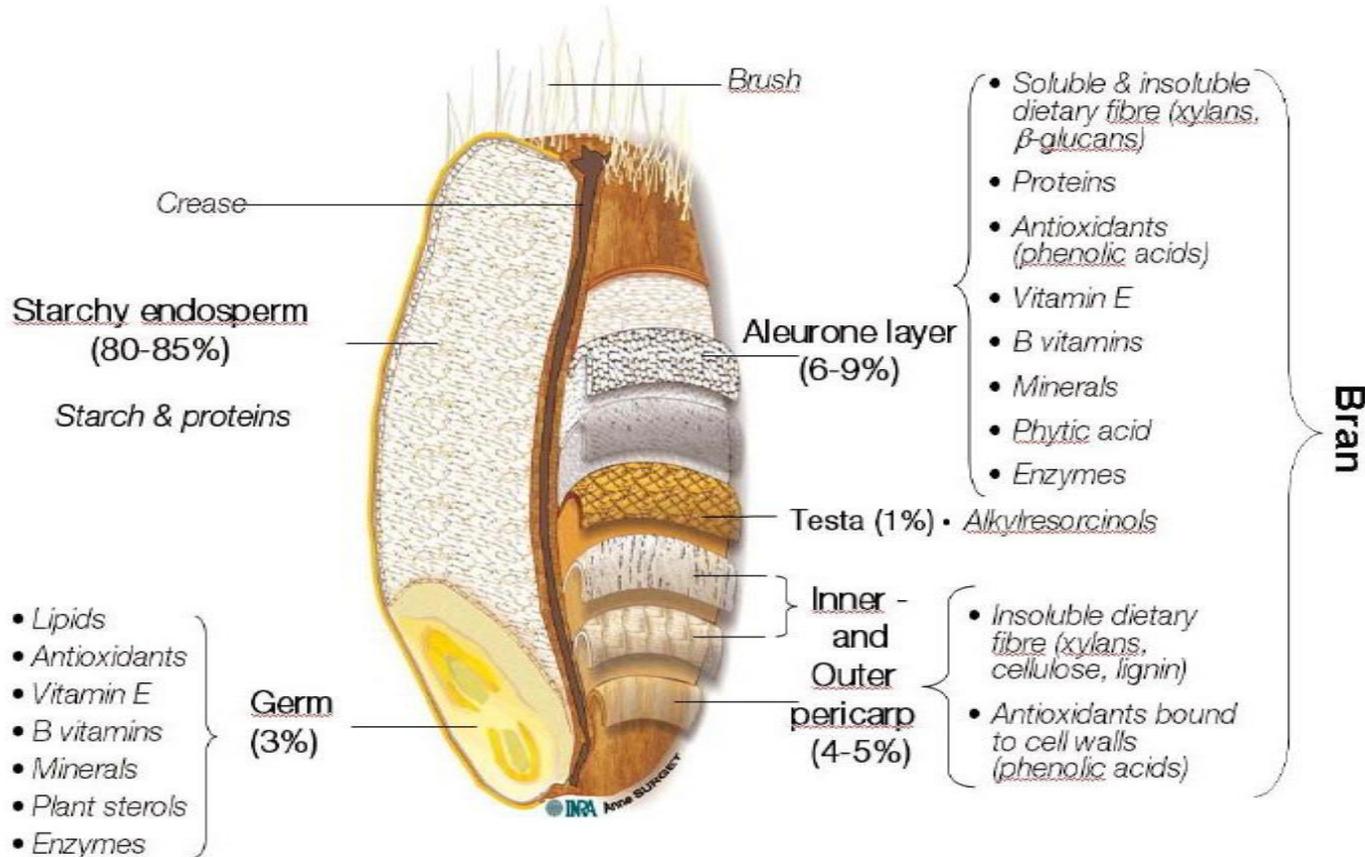
CONTAMINATION OF FUNGI





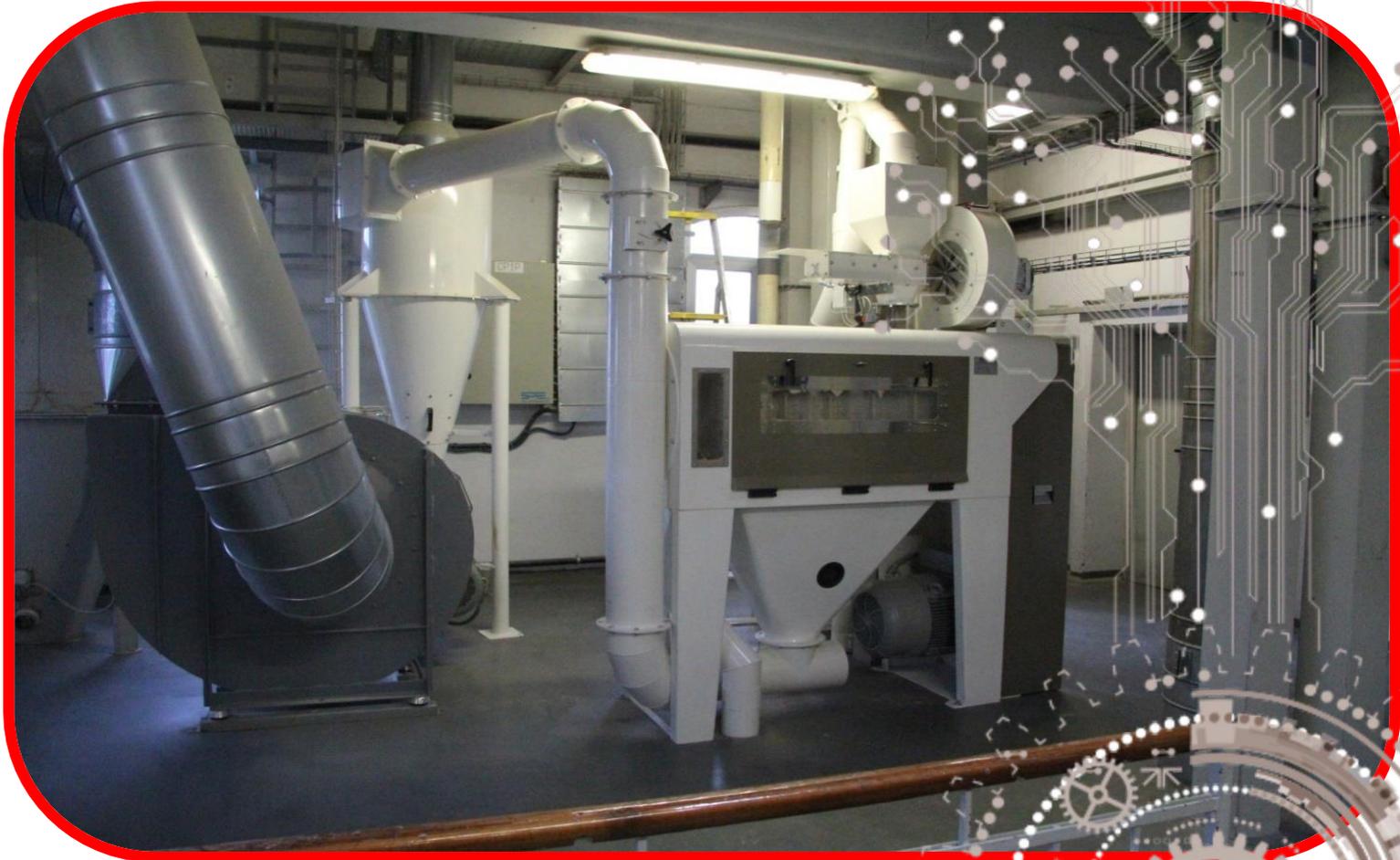
ITALIAN EXCELLENCE

IMPURITIES ON PERICARP



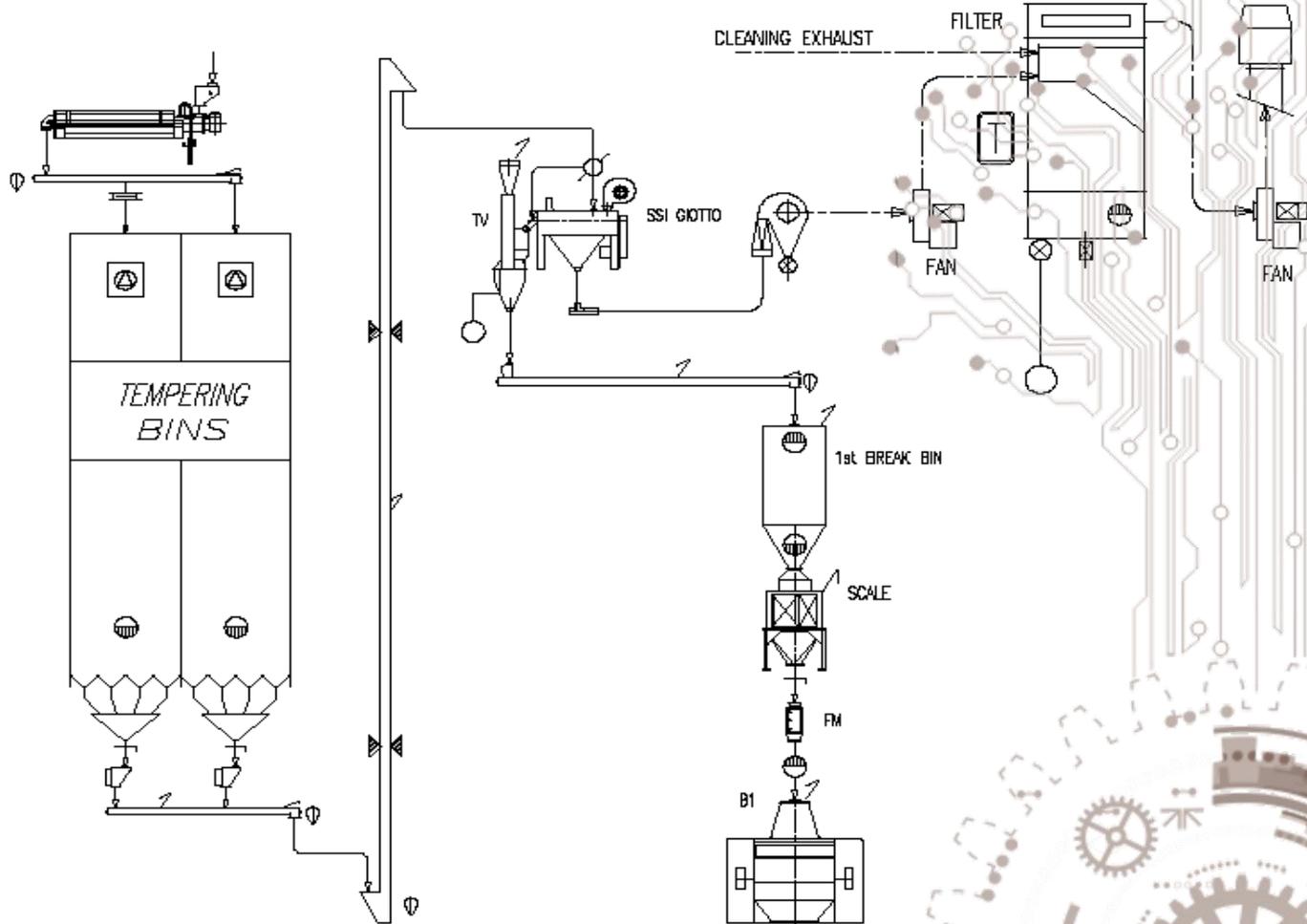


GIOTTO WHEAT STERILIZER



ITALIAN EXCELLENCE

STERILIZATION FLOW SHEET



PERICARP REMOVED 0,2 – 1 %

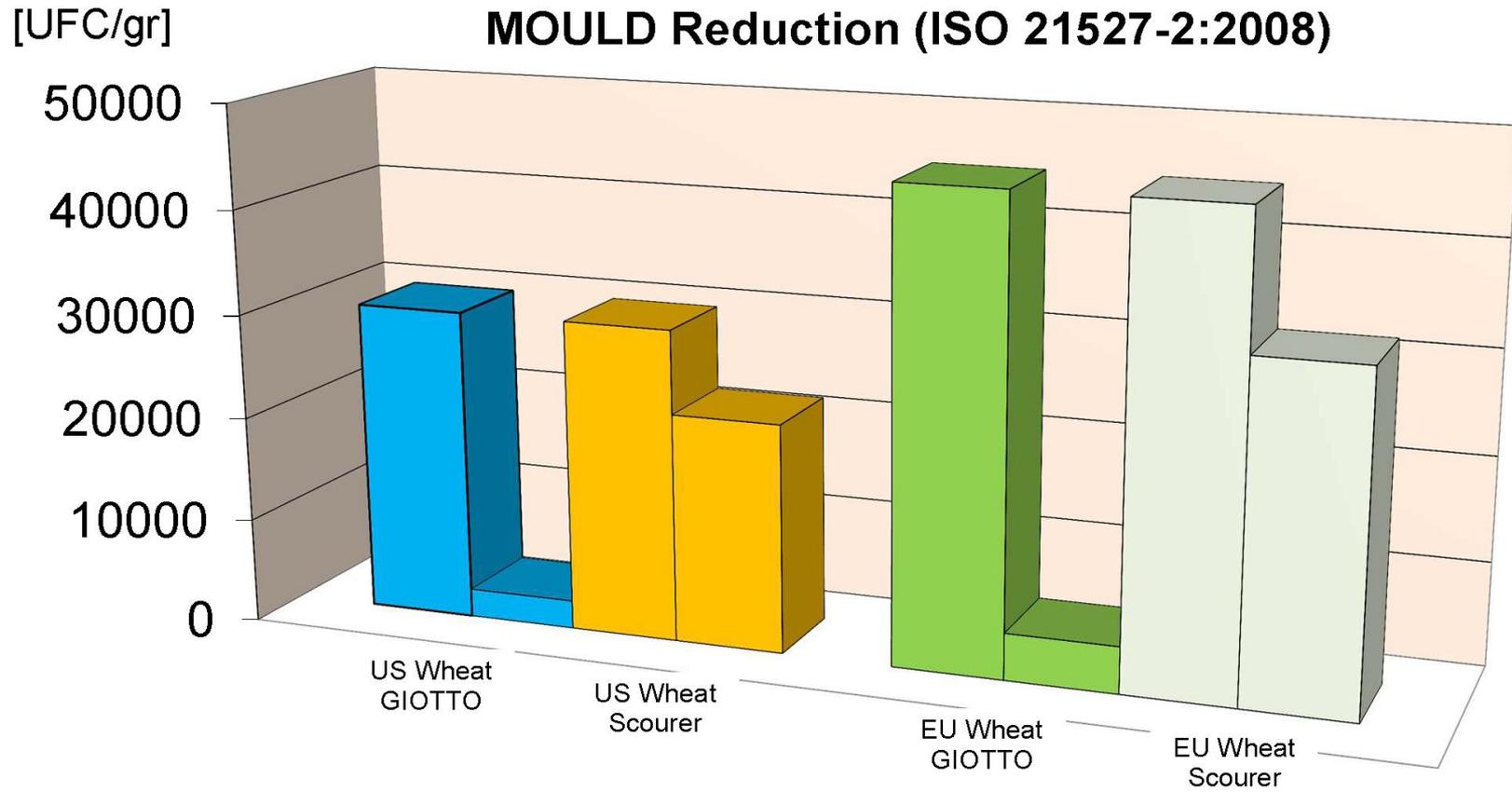


ITALIAN EXCELLENCE





95 % LESS MOULD

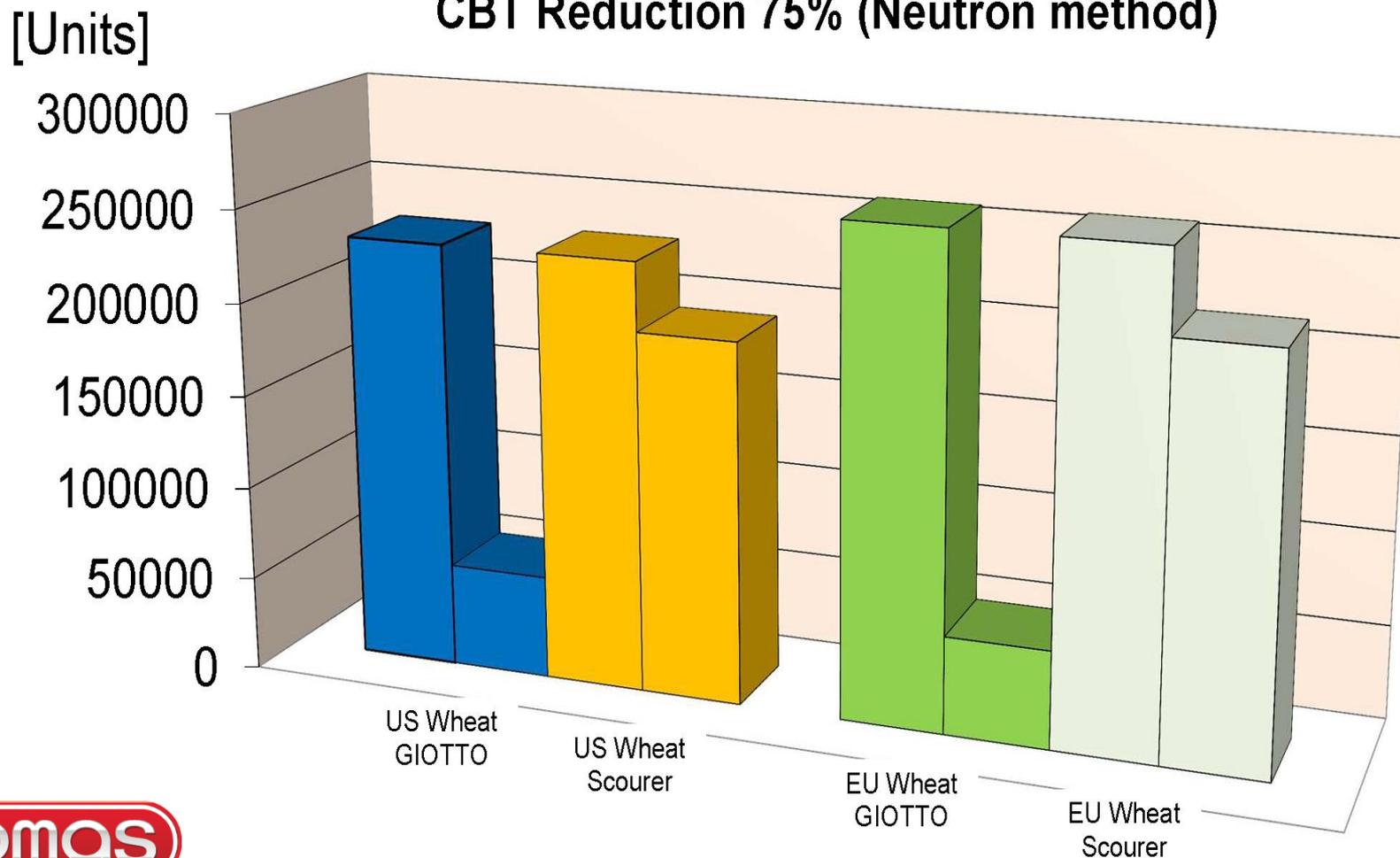




75% LESS BACTERIA COUNT

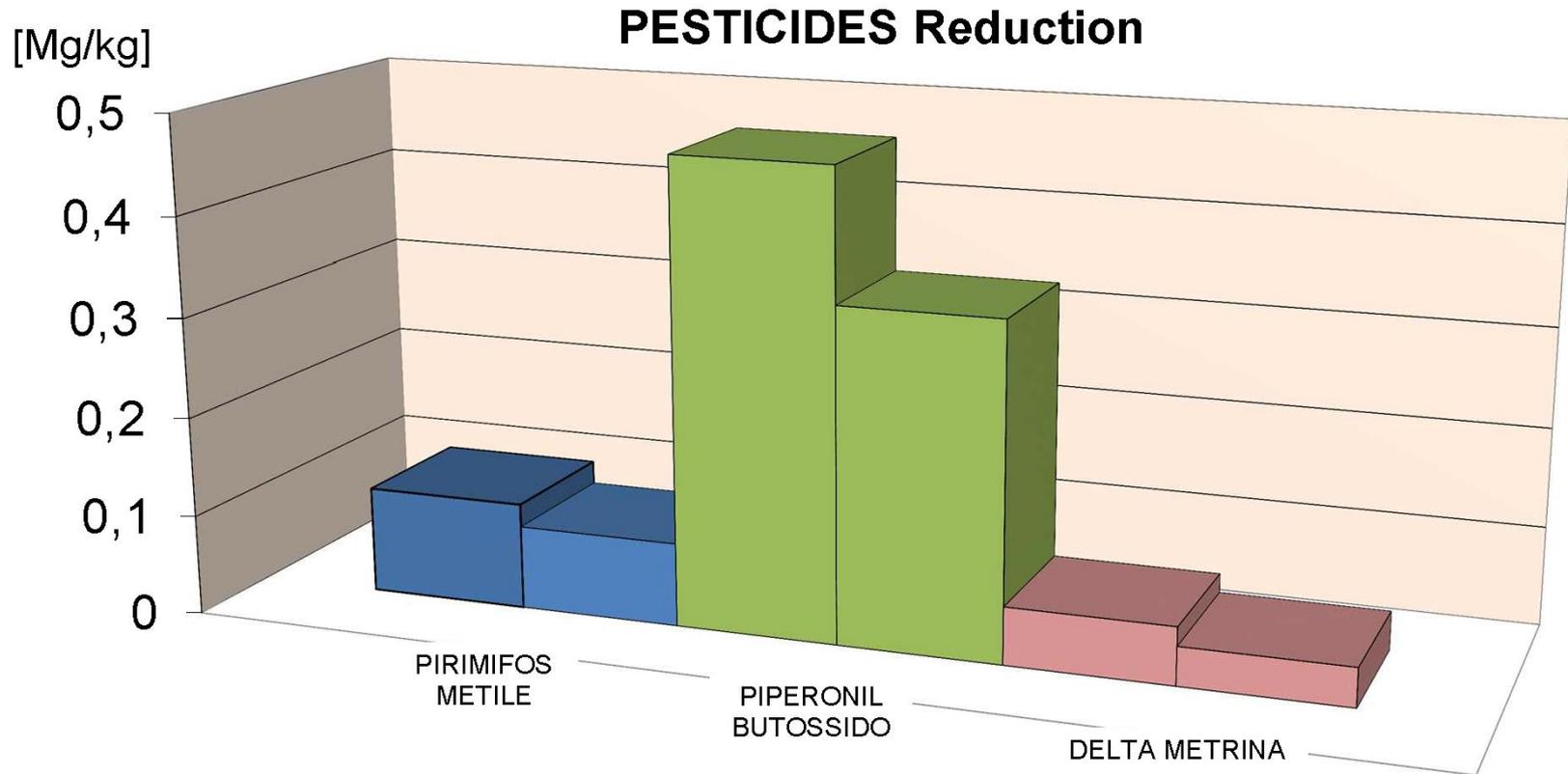


CBT Reduction 75% (Neutron method)

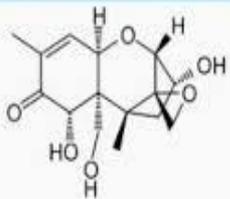




30 % LESS PESTICIDES



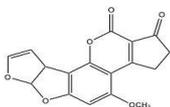
Deossivalenolo



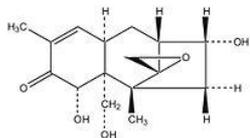
50 % LESS PERFICIAL MYCOTOXINS



- **AFLATOXIN** **WHEAT** **6** **Microgram per Kg (ppm)**
- **AFLATOXIN** **FLOUR** **0,1** **Micrograms per Kg (ppm)**



- **DEOSSINIVALENOLO** **WHEAT** **1250** **Microgram per Kg (ppm)**
- **DEOSSINIVALENOLO** **FLOUR** **500** **Microgram per Kg (ppm)**
- **DEOSSINIVALENOLO** **BABY FLOUR** **200** **Microgram per Kg (ppm)**





IMPURITIES REMOVED



- **YIEST** -75 % **80.000** **55.000**
- **HEAVY METAL** -95 % **450.000** **4.500**

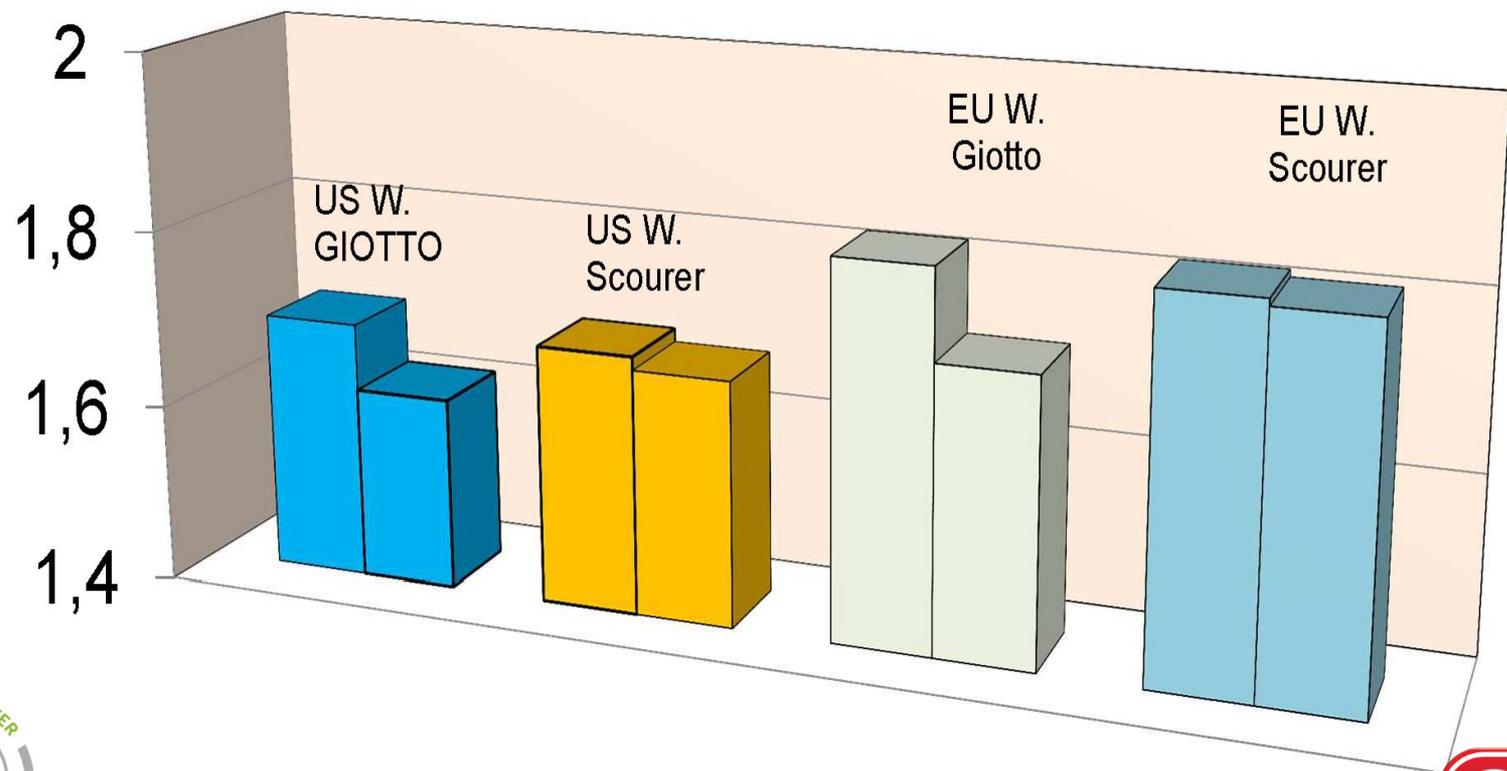




6-8 % LESS ASH (1,76-1,62 %)

[%]

ASH Reduction

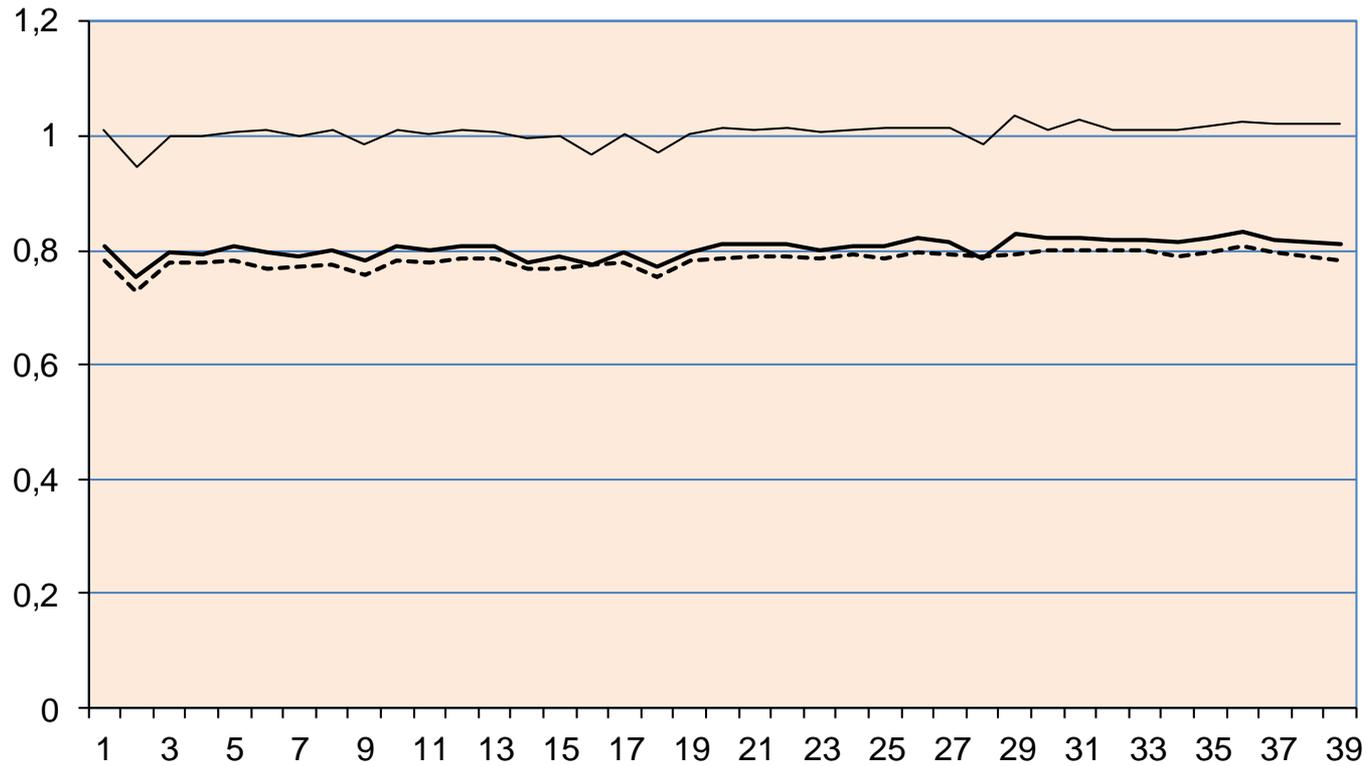




INCREASE OF MILLING YIELDS



0,5 -1 % ADDITIONAL LOW ASH FLOUR



WHEAT STERILIZATION

- Higher standard of cleaning in milling plant.
- Extended life of rolls fluting purified flours.
- Healthier Whole Meal flour.
- Healthier Brown flour.
- Healthier By Products.



AFTER SALES SERVICE

- At your service, we have very skilled technicians, available 7 days a week.
- Our spare parts are easy to identify: every single piece, has a code number marked by laser: so we like to say "we'll never forget you".
- Technical documents are available on web site.



ITALIAN EXCELLENCE





Algeria | Angola | Australia | Argentina | Bangladesh | Bahrain | Belgium | Bielorrussia | Bolivia | Bosnia and Herzegovina | Brasil | Cameroon | Chile | China
Columbia | Cyprus | Czech Republic | Denmark | Egypt | Estonia | Finland | France | Germany | Ghana | Greece | Hong Kong | Hungary | India | Iran
Iraq | Ireland | Italy | Kazakistan | Kenya | Kuwait | Lebanon | Letvija | Lithuania | Luxembourg | Malaysia | Lybia | Mauritius | Marocco | Mexico | Montenegro
Netherlands | New Caledonia | New Zealand | Nigeria | Norway | Pakistan | Peru | Philippines | Poland | Portugal | Puerto Rico | Romania
Russia | Saudi Arabia | Serbia | Siria | Slovakia | Slovenia | Sri Lanka | South Africa | South Korea | Spain | Sudan | Sweden | Taiwan | Tajikistan | Tunisia
Turkey | Ukraine | United Arab Emirates | United Kingdom | Uruguay | USA | Uzbekistan | Venezuela | Vietnam | Yemen | Zambia | Zimbabwe

THANK YOU FOR YOUR ATTENTION



ITALIAN EXCELLENCE