

*Science behind Technology*

desmet ballestra

## Desmet Ballestra Group

### Profile

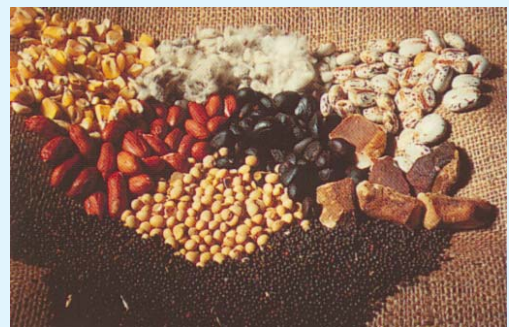
# Global Solution Provider

Seed crushing and oil refining

Detergents, surfactants & chemicals

Oleochemical & biodiesel plants

Soap



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# Desmet + Ballestra

## The Global Solution Provider

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### **De Smet + Ballestra**

**The Global Solution Provider for the edible oils and fats, surfactants, detergent, oleochemical, soap and chemical industries.**

De Smet and Ballestra have announced their decision to integrate their operations. This agreement will allow them to coordinate their worldwide activities making the best use of the very important technical, technological and commercial synergies existing between their operations.

De Smet, founded in 1946, is the world leader in the field of engineering and delivery of installations and equipment for the edible oils and fats industry – from the processing of the seeds up to oils and fats refining and modification.

Ballestra, founded in 1960, is the world leader on technologies for the surfactants and detergent industry as well as for several chemical products manufacturing related to this industry. Ballestra is also associated with Mazzoni, the world leader on the design and fabrication of complete plants and machinery for the production of soap and glycerine.

The De Smet & Ballestra Groups have sales and engineering offices in 15 countries and representation network in another 22 countries.

They have sold 5.700 plants in 148 countries worldwide.

In 2004, they have realised a total turnover of over 250 million dollars.

The association of two strongly established Groups creates a “Global Solution Provider” for the seed crushing, oil refining, oleochemical, surfactant and detergent markets at large in a position to provide competitive services, plants and equipment based on latest technologies and globally sourced.

Privileged customer relationship is the key strategy of the De Smet and Ballestra Groups, which will be able to provide to the customers the best technologies through an integrated international network of companies.

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# Desmet + Ballestra

## The Global Solution Provider

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[www.desmetballestra.com](http://www.desmetballestra.com)



[www.desmetgroup.com](http://www.desmetgroup.com)



[www.ballestra.com](http://www.ballestra.com)



[www.desmetballestraoleo.com](http://www.desmetballestraoleo.com)



[www.mazzonilb.it](http://www.mazzonilb.it)

oils & fats

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# Global Solution Provider Oils & Fats

## PREPARATION

Cleaning  
Cracking  
Dehulling  
Cooking  
Flaking  
Expanding



## PRESSING

Full Pressing  
Prepressing



## EXTRACTION

Extracting  
Desolventising Toasting  
Distillation  
Solvent Recovery



## REFINING

Degumming  
Neutralising  
Bleaching  
Winterising  
Deodorising



## FAT MODIFICATION

Fractionation  
Hydrogenation  
Interesterification



detergents, surfactants  
& chemicals

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# Global Solution Provider Detergents, Surfactants & Chemicals

## DETERGENTS & SURFACTANTS

Sulphonation/Sulphation

Ethoxylation

Detergent Powders /Liquids

## CHEMICAL PLANTS

Linear Alkyl Benzene

Sulphuric Acid & Oleum

Sodium Silicate

Zeolite

Sodium/ Potassium Sulphate

SO<sub>2</sub>/SO<sub>3</sub>/H<sub>2</sub>SO<sub>4</sub> Derivatives

STPP

SSP/TSP

Others



Turkey - Sabic Plant - 400,000 t/y



oleochemicals

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# Global Solution Provider Oleochemicals & Biodiesel

## FATTY ACID PROCESSES

Fat Pretreatment  
Fat Hydrogenation  
Fat Splitting

Sweetwater Treatment  
Sweetwater Concentration  
Glycerine Distillation/Refining

Fatty acids Distillation  
Fatty acids fractional distillation  
Fatty acids dry fractionation  
Fatty acids hydrogenation



## FATTY ALCOHOLS PROCESSES

Fatty acids Esterification  
Methylester Hydrogenation  
Fatty alcohol Refining



## GLYCERINE PROCESSES FOR SPENT LYES

Spent lyes Treatment  
Spent lyes Concentration  
Glycerine Distillation/Refining



## BIODIESEL & METHYLESTERS

Transesterification  
Methylester Distillation  
Methylester Fractional Distillation  
Methylester Fractionation





# Global Solution Provider Soap

## FATS & OILS PRETREATMENT

Continuous Bleaching  
Batch Bleaching



## SAPONIFICATION

Cont. Neutral F&O saponification  
Cont. Fatty Acids Neutralization  
Cont. Semi-Boiled Saponification  
Batch Saponification & Neutralization



## VACUUM DRYERS

Laundry soap drying  
Toilet soap drying ECODRYERS



## FINISHING LINES

Laundry soap finishing  
Toilet soap finishing  
Syndet/combo/translucent finishing



## GLYCERINE PLANTS FROM SPENT LYES

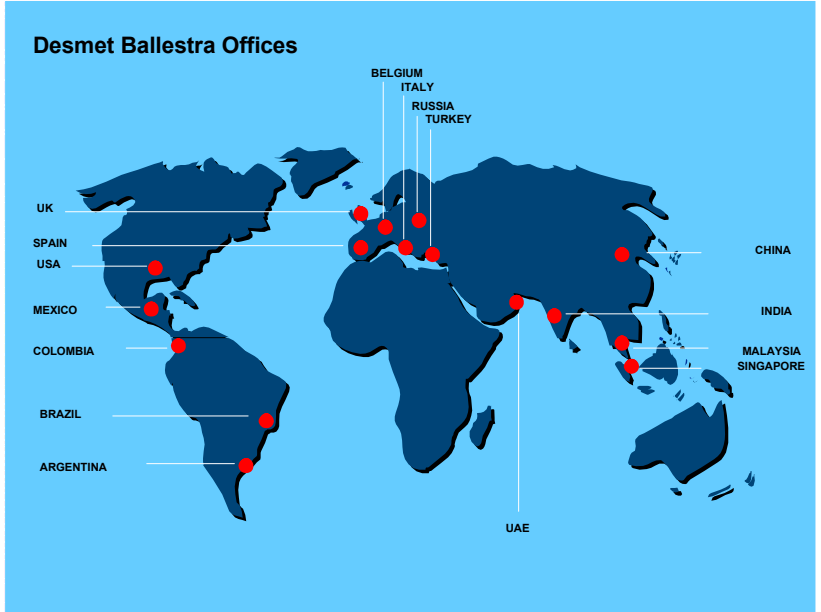
Spent Lyes Treatment  
Spent Lyes Concentration  
Glycerine Distillation/Refining



## RIM BLOCKS

Rim blocks manufacturing





**Global Solution Provider**  
for the edible oils and fats,  
oleochemical, surfactant,  
detergent, soap and  
chemical industries

press release | communiqué  
comunicato | persbericht  
nota de prensa

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oils & fats	oleochemicals	detergents & surfactants	chemical plants	soap
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