



An expertise in sugar beet processing

A complete range of equipment for beet storage,
beet preparation, juice extraction, juice purification, pulp drying and pelleting

Range of equipment offered by Maguin as single piece of equipment or complete lines. (Own Maguin technologies except when marked *: offered in partnership with another well established company).

Beet yards	Beet preparation	Waste water and by product handling	Juice extraction	Juice purification	Pulp handling	Miscellaneous screening
Wet beet yards	Pre washing drum	Drum sand catcher	Drum beet slicer	Coke or anthracite fired lime kilns	Pulp screws	Water screening
Dry beet yards	Washing drum for wet feeding	Mud screw extractor	Knives and fraisers	Fuel or gas fired lime kilns	Pulp pressing line*	Dynamic separation
Water guns	Washing drum for dry feeding	Screens	Knife maintenance machines	Milk of lime complete line	Drum Pulp dryers	Sugar screening
Tipping bridges	Drum Stone catcher	Dynamic separators	Tower diffuser	Slaker	Belt dryer	
Unloading hoppers	Fork type weed catcher	Decanters	Cossette mixer	Milk of lime, desanding line	Energy economizers	
Dry cleaners	Wide belt type weed catcher	Stone washer / beet separator		Juice purification line*	Emissions abating equipment	
Conveyors	Drum final washer	Weed washer			Pelleting machine	
Beet Extractors	Roller type final washer	Weed crusher			Pellet cooler	
Water separators	Floating object catcher	Weed press				
Beet pumps						
Stone catchers						

Maguin capabilities include equipment and piping design (Autocad®, Solidworks®, Plan 4D®) and associated calculations (Ansys®), general and detailed engineering, manufacturing in its 2 own workshops or/and management of local manufacturing, erection at site, starting and commissioning, after sales follow-up.



Through its other departments Maguin can accompany its sugar industry customers in other fields:

Alcohol/Ethanol production lines / **Maguin-Intéris**,
Alfalfa (or other product) drying / **Maguin-Promill**,
Thermal waste treatment / **Maguin-Environment**

Maguin
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Maguin
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Sugar industry product line

A sugar beet processing specialist since 1843

Maguin has been involved in the design and construction of beet sugar processing equipment since the beginning of the industrial processing of beets in the 19th century and is present in more than 100 sugar factories in the world. Through the years Maguin has become THE specialist for the beet end of a beet sugar factory and has developed or acquired technologies that are now the reference in sugar factories:

- Dry beet yard (classical wet beet yards are available too),
- Washing lines with dry feeding and drum washers (wet feeding is available too),
- Drum beet slicers,
- Tower diffusers with cossette mixers,
- Three pass pulp dryers and horizontal axis low wear pellet mills,
- Coke, gas or fuel fired lime kilns and milk of lime stations.

Through a partnership for filters and pulp presses Maguin also offers juice purification stations and pulp pressing stations and can then propose, mainly with its own products, complete plants from beet storage to juice purification including pulp handling. References are numerous and refer to processing capacities ranging from 3,000 to 25,000 t/d in single lines depending on equipment type.

From beet unloading...



All beet and tare conditions.



Dry beet yards: 0 % water for beet transport. Or wet beet yards at customer's choice.



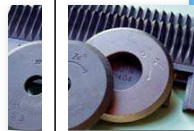
Washing plant with drum washers: high capacity, low maintenance, low water flows, high washing efficiency: final tare down to 0,2 % O.B.



Washing water handling; byproducts recovery: beet chips, grass.



Drum slicers: optimal cossette quality, high output, low mush, automated knife block handling.



Knives and fraisers.



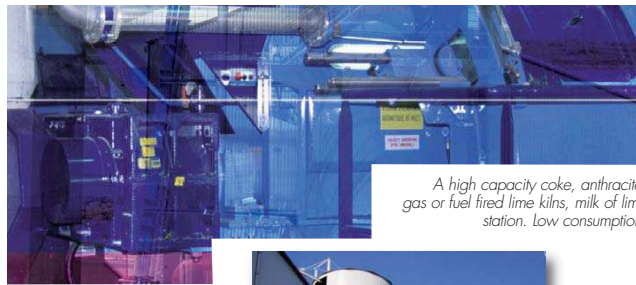
Knife maintenance with automated machines.



Tower Diffusers: high sugar extraction, low draft, minimal space.



Pulp pressing up to 30 % dry substance (partnership).



A high capacity coke, anthracite, gas or fuel fired lime kilns, milk of lime station. Low consumption.



... to clear juice

Juice purification with candle filters and press filters: improved sugar yield and sugar quality (partnership).



Triple pass drum dryer: low capital cost, high thermal efficiency, high dried pulp quality; up to 80 t/h water evaporation per single line.

... to pellets



Pelleting machine: 12 t/h, 8 mm, low maintenance cost.