













Complete Solutions for your DENTER Plant
Only Dedini can offer You!



A global company



Dedini supplies engineering services, parts, equipment refurbishment, mechanical equipment, systems and complete plants to customers in the world.



Dedini Indústrias de Base is the consolidation of several renown companies:











Dedini is formed by a large team of professionals with wide experience on various areas of the industrial sector, offering a full range of services from feasibility studies to plant commissioning.

Innovation & Solutions

Through it's own developed technologies or license agreements, Dedini provides sound and proven designs, to meet most stringent customer requirements.

Technology & Engineering

- Research & development
- Feasibility studies
- Basic engineering
- Process and detailed engineering
- Customized process engineering solutions

Manufacturing & Procurement

- Equipment manufacturing
- Equipment refurbishment
- Global procurement

Package Supplies

 Greenfield/ Brownfield "Turnkeys" Plants, in partnership with EPC contractors

Field Services

- Erection supervision
- Commissioning and startup supervision
- Assisted operation & training
- After sales service & spare parts supply
- Plant optimization







Reception, Preparation & Extraction



Cane Core Samplers







• Cane Cleaning and Separation

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Available Models	SLC 2000	SLC 3000	SLC 4000	SLC 4500	SLC 5000
Width (m)	2,0	3,0	4,0	4,5	5,0
Height (m)	9,5	10,3	11,0	11,4	11,8
Max. Rated Capacity (tc/h)	150	300	420	770	1.300
Blower (hp)	75	125	150	175	200



Knives & Shredders





• Mills

Sizes	Capacities (tc/h)	Max. Capacities (tc/d)
34'' x 54''	350	8,400
37'' x 66''	450	10,800
42" x 78"	650	15,600
46'' x 84''	750	18,000
50'' x 90''	850	20,400
53" x 96"	1,050	25,200
56'' x 100''	1,300	31,200



• Chainless and Expandable Modular Diffusers

Available Models	MDB 6,0	MDB 7,5	MDB 9,0	MDB 12,0	MDB 15,0
Width (m)	6,0	7,5	9,0	12,0	15,0
Rated Capacity (tc/d)	6,000	7,500	9,000	12,000	15,000
Maximum Capacity (tc/d)	7,000	8,500	10,500	13,500	18,000





Biosugar





Engineering Solutions for all types of sugar

- VHP Sugar
- Amorphous
- Refined Granulated
- Liquid Sugar
- Inverted Liquid Sugar







Sugar Production

- Juice Heaters
- Clarifiers
- Rotary Vacuum Filters
- Evaporators (Robert/Falling Film)
- Condensers
- Continuous vacuum Pans, in partnership with BSSCH
- Batch vacuum pans
- Crystallizers (Vertical / Horizontal)
- Sugar Dryers (Vertical/Horizontal)
- Sugar Conveyors
- Ionic Exchange Columns
- Thermally Accelerated Short Time Evaporators











DRD - Dedini Direct Refined

This new technological development enables to obtain refined sugar without requiring sugar dissolution and recrystallization stage. The process goes from sugar cane syrup on a single step mode to obtain refined sugar assuring high quality standards; only one crystallization.

- Lower investments required
- Reduction on production and maintenance costs
- Lower losses and energy consumption





Juice Treatment

- Screens
- Heaters
- Evaporators
- Clarifiers / Decanters
- Filters
- Floaters







Bioethanol





Engineering Solutions for all type of Ethanol Products

- Hydrated Fuel Ethanol
- Anhydrous Fuel Ethanol

- Neutral and Fine Ethanol
- Rectified Spirits

Fermentation

- Batch
- Continuous
- Flexible
- Yeast Propagation Plant





High-grade Fermentation

· Fermentation with high alcohol grade content



Distillation

- Types of Distilleries
- Atmospheric
- Vaccum
- Multipressure
- Types of Trays
 - Caps
 - Valve
 - Sieve Trays





Dehydration Technologies



- Dehydration System
 - Molecular Sieve
 - Cyclohexane



Vinasse solution



Concentration

Concentrated vinasse system offers an attractive transport and distribution cost reduction, on its use for field irrigation. Recovered water can be used on the industrial process, saving its intake from environment.

• BIOFOM

BIOFOM is the result of processing the byproducts originated from the plant operation, as it converts concentrated vinasse, filter cake, boiler



ashes and soot into solid and granulated fertilizer - Organo Mineral Fertilizer - that recycles those nutrients into the sugar cane fields.

Biodiesel Plants



 Stand alone or integrated to Ethanol Mills.





Bioelectricity



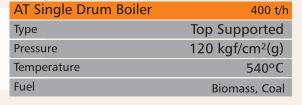


Dedini Boiler Series



AT

SINGLE DRUM





AT

DOUBLE DRUM

AT Boiler	250 t/h
Туре	Top Supported
Pressure	85 kgf/cm ² (g)
Temperature	530°C
Fuel	Biomass, Coal



AZ-100

SINGLE DRUM

AZ-100	200 t/h
Туре	Bottom Supported
Pressure	120 kgf/cm ² (g)
Temperature	540°C
Fuel	Riomass Coal



AZ-200

DOUBLE DRUM

AZ-200	200 t/h
Туре	Bottom Supported
Pressure	67 kgf/cm ² (g)
Temperature	520° C
Fuel	Biomass, Coal

After Sales Service

• Dedini provides yearly field assistance, parts replacement, equipment refurbishment and plant optimizations, for Sugar & Ethanol mills in Brazil and in 40 countries.



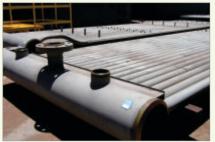
















Equipment Manufacturing Program

- Cane Core Samplers
- Knives
- Shredders
- Tandem Mills
- Diffusers
- Dual Smart Systems
- Rotary Screens

- Rotary Vacuum Filters
- Sugar Plants
- Fermentation Plants
- Distilleries
- Molecular Sieves
- Steam Boilers
- Tank Farms

- Complete Sugar Mills & Ethanol Plants
- Cogeneration Plants
- Biodiesel Plants
- Plant Automation
- Parts Replacement,
 Refurbishment & Revamping



























Your Partner for Technology Development, Integrated Systems and State of the Art Equipment and Services.

In Brief

- Over 3000 Professionals
- ► Over 200 Engineers and **Technicians**









MAJOR SUPPLIES

Worldwide Largest References

2600 **Milling Units**

Steam Boilers 1600

900 **Evaporators**

Bioethanol Distilleries 870

550 **Vacuum Pans**

Cane Core Samplers 355

Dehydration Plants 335

Cogeneration Plants 115

Bioethanol Mills 105 (Turn-key)

15 **Diffusers**

Biodiesel Plants 10

Certifications



ISO 9001



ISO 14001







ASME Stamps S - U - U2



National Board Stamp R

Manufacturing Facilities

Dedini has 6 manufacturing sites, with 10 factories installed in a total area of 1.280.000 m² and 192.000 m² of covered area, located in 4 strategic points throughout Brazil.



Dedini S.A Ind. de Base



Piracicaba-SP 106.200 m²



Sertãozinho-SP 67.800 m²



Recife-PE 9.600 m²



Maceió-AL 8.400 m²