

# **POLITA MAKİNE**

**Asphalt Plants and Equipment**



# Our Vision

By combining professionalism with an amateur spirit, to become a reputable organization that can provide reliable and high quality service in all fields of our sector we work with, in domestic and abroad.



# Our Mission

We are an organization that applies all the possibilities that technology brings, that is reliable, focused on employers and providing high quality services, respects the rights of employees and employees, educates qualified employees in the sector, and innovative and constantly improving ourselves.

# Products

Asphalt Plant

Polymer Modified Bitumen Plant

Mechanical Stabilization Plant

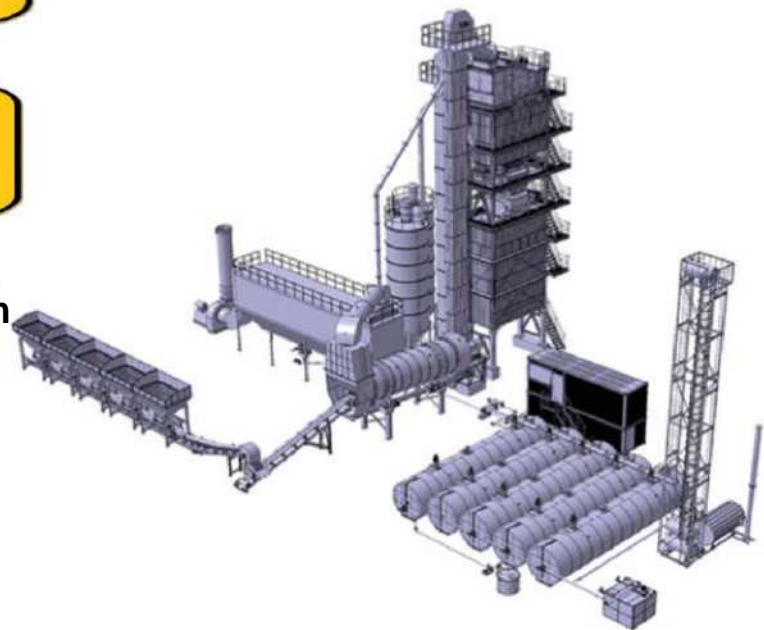
Bitumen Emulsions Plant

Granule Reinforcement System

Hot Oil Boiler

Bitumen Storage Systems

Bitumen Melting Plants



Concrete Plant

and other equipment ...

**ALLTECH**

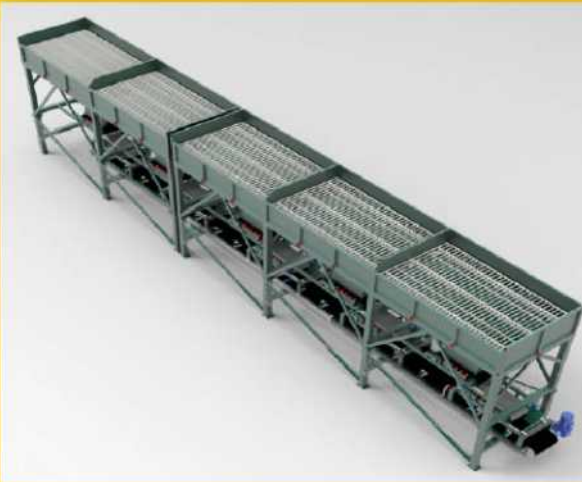
## Asphalt Plant (60-240 ton/hour)



Polita offers a wide range of products for contracting groups with medium and large business volume thanks to 60-240 ton capacity asphalt plants.

### Polita ALLTECH Advantages

- Optimum price, high performance
- Precision weighing and high quality blend
- High efficiency dryer
- Easy Maintenance
- 7/24 after sale support
- Possibility of spare parts at reasonable prices
- Operator friendly automation system
- Easy assembly and disassembly possibility
- Products suitable for different asphalt production (mastic asphalt, colored asphalt, recycling)



Cold Silos

Cold aggregate silos make the dryer homogeneous and feed the aggregate in the desired order.

Our Advantages;

- Thanks to its functional design, it facilitates transportation and installation. Attachments have bolted design.
- Thanks to its high strength silo casing and twisted body undergoes no change in shape under load.
- Thanks to the frequency-controlled dosing bands, each material can be supplied in any desired rate.
- The flame size of the dryer burner can be controlled automatically with the measurement sensor (optional)





Dryer

The Alltech dryer creates a maximum heat transfer surface thanks to its special wing design. With minimum fuel consumption, it allows the removal of humidity of aggregate and heat it up to the desired temperature.

#### Our Advantages;

- Dryer rollers and rings are manufactured from long-life forged steel.
- Easily interchangeable bolt-type compensation springs that distributes body load evenly
- Suitable for stainless steel insulation coating and heat transfer, rockwool covered body
- With soft starter support, operation without problem under load
- Automatically adjustable burner according to humidity and amount of aggregate (optional)



Sieve

The Alltech asphalt plant sieve sieves the aggregate in a perfect precision thanks to its low slope and special sieve mesh formation.

#### Features;

- Sieve surface area varies according to asphalt plant capacity
- Dust-proof design
- Front maintenance cover opening through pneumatic system
- Easy changeable sieve mesh
- 4-5-6 types of sieve fraction







## Asphalt Plant (60-240 ton/hour)



Mixer

The Alltech asphalt plant mixer provides long wear parts life and homogeneous blend.

### Features;

- Heavy duty group high quality reducer.
- Heat and abrasion resistant inner liners
- Long life arms and shoes
- Double-valved discharge system
- Discharge valve with external resistance heating



Filter System

The Alltech asphalt plant filter system separates the gas and dust generated during asphalt production. The decomposed filler dust can be used in mixture if desired.

### Features;

- Input and output temperature measurement
- Clean air valve to protect bags from burns
- Nomex filter bags with vertical cassette
- Dust-proof design
- Easy bag changing
- Reverse air flow bag cleaning system
- Insulation suitable for climate conditions and heat transfer





## Asphalt Plant (60-240 ton/hour)



Automation System

The Altech asphalt plant automation is simple and user friendly in terms of ensuring full control of the platform.

### Features;

- Full automatic control possibility
- All electrical motors, valves, level switches, open and closed positions of the valves in the system and getting information about fault conditions
- First class material and equipment, IP 55 protection class panel
- Insulated, container, air-conditioned, operator cabin with large internal volume
- Full control on plant with wide field of view
- Ability to provide work safety with emergency stop system

## SPARE PART REVISION HANDLING SERVICE



Polita makine can meet the needs of transportation, revision, maintenance, spare parts of every brand and type of asphalt plant and can re-produce the equipment.

Some spare parts;

- Elevator chain and elevator bucket
- Filter bags
- Drier ring and drums
- Mixer shoe and arms
- Valves - Pistons - Switches
- Asphalt and hot oil valves
- Asphalt and hot oil pumps
- Springs and valves
- Heater cables





# Polymer Modified Bitumen Plant

Polita pmb plants, allows production possibilities according to highway prescriptions.

## SPECIFICATIONS

- Producing as container or fixed means can be made.
  - Domestic or European brand mill can be used.
  - Modified mixture tanks are hot oil walled and circular.
- In this way the homogeneity of the mixture is high.
- With high shear mill design specially developed for SBS polymer, single fold <PMB production with <0.3 mm grain size
  - Production capacity up to 20 tons / hour
  - Required fold size together with two blending tank
  - Real weight measurement with tank weighing system
  - PLC fully automatic control system



PMB Plant







# Mechanical Stabilization Plant

POLITA C-MIX Cold Mix Plants are designed for mechanical stabilization, cement stabilization and cold asphalt mixtures.

## SPECIFICATIONS

- 20 - 25 m3 feed silo capacity
- Dosing band with drive system
- Healthy dosing with digital potentiometers
- EP316 quality conveyor belts with 4 layers of court fabric
- Mixer driven by synchronous gear
- NiHard cast bolt arm and shoes
- Hardox, bolted internal wear parts
- Production capacity up to 600 tons / hour
- Full automatic control system
- CE certified design and manufacturing

PMT plant





# Bitumen Emulsions Plant

Polita E-MIX bitumen emulsion plants with their precise dosing, quality production, ease of use and economy, is the ideal solution for all asphalt emulsion applications.

## SPECIFICATIONS

- Production ability at 5-15 ton / hour capacities
- Possibility to produce in container type or fixed type
- Long life with stainless steel tanks
- Water + Emulsifier + Acid-resistant stainless monopump
- Flowmeter application for bitumen, SAE or kerosene dosing
- Automatic dosing possibility with PID controlled pumps
- Stainless steel tanks with load cell for acid and emulsifier weighing
- Emulsion anti-foaming homogenizer mill with double inlet
- HCl acid-resistant PVFD acid pump
- PLC fully automatic control system
- Prescription recording feature



Bitumen Emulsion Plant





## Granule Reinforcement System

POLITA G-ADD Automatic Fiber Dosing System; is the ideal solution with easy applicability to every plant and with its modular design.

### SPECIFICATIONS

- The grains can be carried easily by high air flow.
- Can be installed quickly with practical piping system
- Precision weighing system ensures smooth production
- For stone mastic (SMA) fiber additive, suitable for transporting grained and granular products



Fiber Dosing Unit



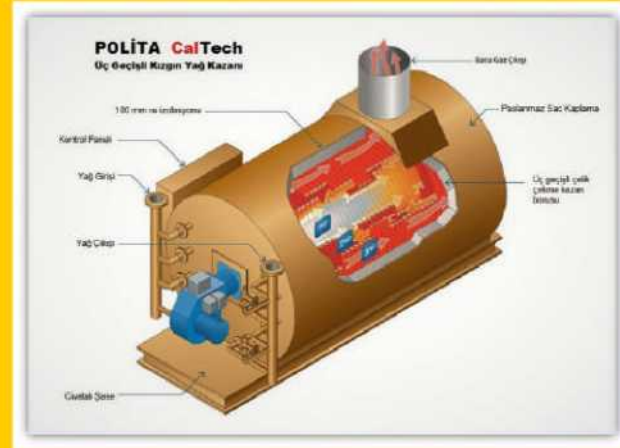


# Hot Oil Boiler

Thanks to the Polita CalTech thermal oil generator three-pass design user friendly in all asphalt plants and asphalt storage systems with high heat transfer efficiency.

## SPECIFICATIONS

- Production in capacities 250000 - 500000 - 750000 -1000000 -1500000 - 2000000 kcal/hour
- Three-pass spiral-type boiler tube according to DIN7175 and DIN2448
- Thanks to the spiral pipe thermal vulnerability is minimized and oil breakdown is prevented
- Ability to work with diesel, fuel-oil, natural gas
- Digital thermostatic control at hot oil inlet-outlet
- Differential pressure process for oil flow-pressure safety
- Fast and efficient heating with collector system
- Heat-resistant oil pump and filter for long-term smooth operation



Bitumen Emulsion Plant







# Bitumen Storage Systems

## **BITUMEN TANKS - ( HORIZONTAL - VERTICAL ) - ( ELECTRIC - HOT OIL HEATED )**

POLİTA bitumen tanks, isolation and installation systems fast heating, low heat loss, high quality workmanship is the ideal solution for all kinds of service and stock applications.

### **SPECIFICATIONS**

- Bitumen, Polymer Modified Bitumen, Bitumen Emulsion tanks in standard or non-standard measurements, suitable for your project needs, desired capacity, heating surface area, insulation and so on. various and high quality manufacturing according to the specifications.
- Manufacture of horizontal or vertical mixer tank
- Manufacture of electric or hot oil heated tank
- Sealing test before insulation
- Long life and tightness with steel drawing heating pipes
- High strength with inner and outer TIG welding
- Quality pumps, panels and valves and plumbing equipment

Asphalt Tanks







# Bitumen Storage Systems

## BITUMEN MELTING OVEN - BIG BAG MELTING OVEN

Polita Melting Unit barrel melting plant is capable of fast, reliable melting of bitumen stocked in barrels or big-bags and transports them to the service or stock tanks.

### SPECIFICATIONS

- Production capacity up to 10 tons / hour with 12-24-36-48 barrel capacities
- Fast and economical operation due to insulation isolation and steel tube length suitable for heat transfer
- Production with piston or rail system according to customer preference
- Mobile or stationary design variety
- Possibility to use in single chassis with hot oil boiler in mobile option
- Bitumen storage capacity up to 15 tonnes
- Separate heating system for each line



Barrel Melting Plant





# Bitumen Storage Systems

## BITUMEN POOL

POLITA Asphalt Storage Pools is the cheapest bitumen storage method for contractors who want to turn the fluctuating bitumen prices into an advantage.

### SPECIFICATIONS

- Bitumen stock pool options in 500 - 1000 - 2000 - 5000 tons and more.
- Reliable production with steel drawing hot oil piping system and leakproofness tests
- Problem-free flow of bitumen with suitable pipe quantity for heat transfer calculations and suction exchanger design
- Quality hot oil valves, isolation and pump system
- Possibility of rapid heating by collector system

Bitumen Pool





## Concrete Plant (Fixed or Mobile)

*Our solution-focused, project-based or standard-structured Fixed and Mobile concrete plants, are the ideal solutions for professionals looking for high quality, reliability, performance and high operating features.*

- High production performance
- Precision production capability
- Placement according to customer preference
- Easy maintenance and low operating costs
- Use of quality materials
- Fast after-sales service support



Concrete Plant



Mixer





## Our Other Services



Conveyors

- Design and production according to the Project
- Conveyor spare parts (bands, rollers, drums and reducers)
- Conveyor revision

- Production of hot product silos or cold aggregate stock silos
  - Silo weighing and dosing systems
- Mobile or fixed type bunker production options



Installation - Isolation

Aggregation Bunker



- Manufacturing and commissioning of bitumen or hot oil installations
- Construction equipments (bitumen valve, bitumen pump, hot oil valve, etc.)
  - Temperature electric heaters
- Installation, tank and bunker isolation

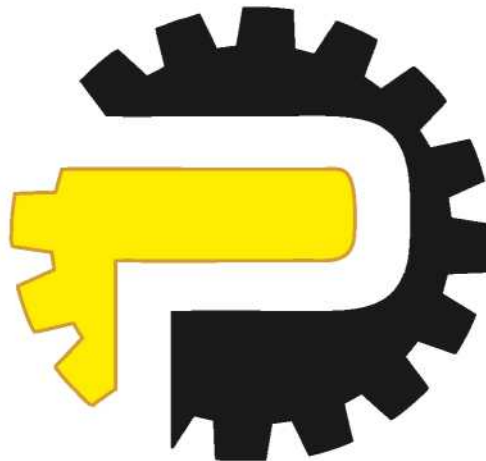




## Some of our references







**“ As we promised “**



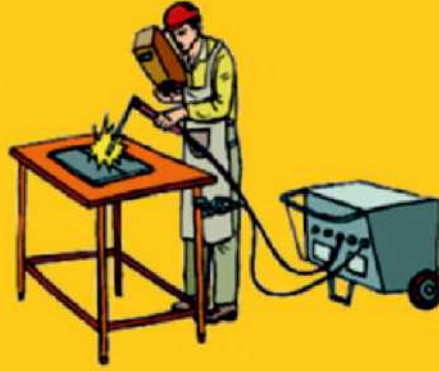
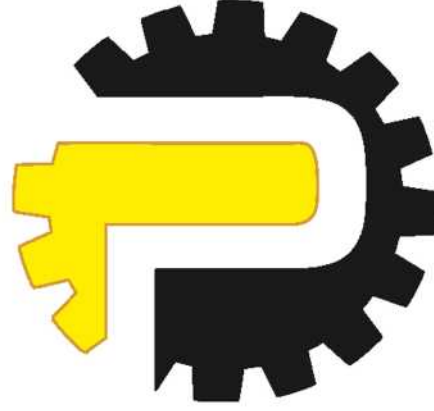
***PRODUCTION***



***REVISION***



***SERVICE***



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