



# Bitumen Melting Equipments

## UNIMELT

Bitumen Drum Decanter (2-8 TPH)

Bitumen Bag Melter (4-6 TPH)



**RUGGED | ROBUST | RELIABLE**

[www.alltech-group.com](http://www.alltech-group.com)



# Load. Lift. Melt.

At Alltech, we are driven to revolutionize road construction by delivering high-quality, innovative solutions. With decades of industry expertise, we have built a strong reputation as a trusted leader in bitumen melting and handling technologies. Our products are known for their robust construction and exceptional performance, making them the first choice for clients across the globe. At the heart of our mission is a commitment to customer satisfaction, ensuring every solution we provide exceeds expectations.

**500+**  
Installations Globally

Worldwide  
**350+**  
Valued Client



Presence in 30+ Countries

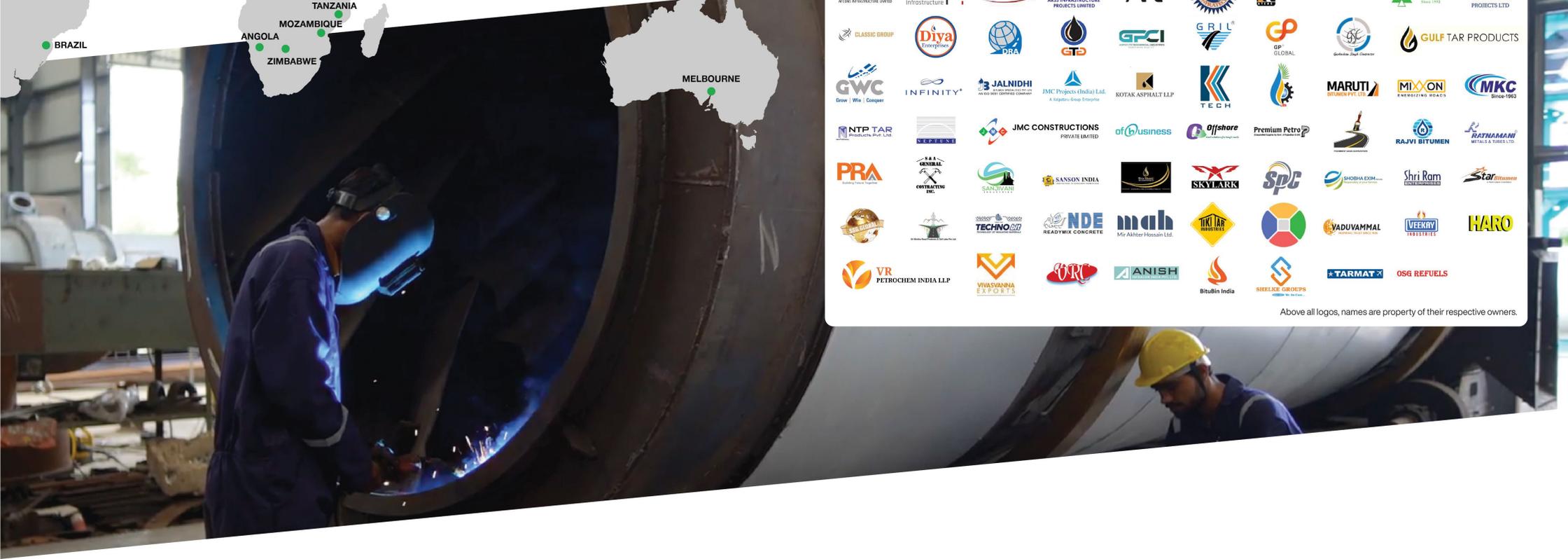
# We're the Global Leaders of Bitumen Drum/Bag Decanter Manufacturers.



## Our Commitment to Quality, Safety, and Sustainability



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# Bitumen Drum Decanter

The Alltech Portable Bitumen Drum Decanter combines efficiency with mobility, allowing for flexible bitumen melting directly at project sites. Its integrated thermic heater enables rapid setup without extensive foundation requirements, making it an ideal choice for on-the-go operations. Built to Alltech's standards of quality and innovation, this decanter ensures consistent, high quality bitumen melting.



**2-5 TPH**  
Capacity

**Containerized**  
Type

**Automated Drum Loading System:** Using a hydraulic mechanism, this system reduces manual labor by automatically loading and removing bitumen drums, thus improving efficiency and safety.

**Reservoir Tank:** Insulated with Rockwool to minimize heat loss, the tank maintains the ideal temperature for the melted bitumen, allowing for smooth transfer and extended usability.

**Seamless Tubes:** Designed to withstand high pressure, these tubes provide a safe and durable pathway for heat circulation, enhancing the system's overall reliability.

**Heating Chamber:** Equipped with high-efficiency oil heating coils that distribute heat evenly, ensuring consistent bitumen melting while preserving its quality.



**Rapid Deployment:**  
Erection and Commissioning in just 2 days



**Integrated Mobility:**  
Built-in thermic heater for easy transportation and flexible installation.



**Compact Footprint:**  
Minimal foundation required, saving space and installation costs.

## Efficient and Reliable Bitumen Decanting Solution

- Lowest Melting Cost Per Ton.
- Based on High-Tech Global Design.
- Pollution Free Green-Technology.
- Fully Insulated by High Density Thick Rock-Wool.
- Continuous Type of Heating System Saves Time.
- Automatically Drum Lifting and Loading by Hydraulic System.

**4-8 TPH**  
Capacity

**Stationery**  
Type



Indigenously Crafted,  
**Globally Acclaimed**



Ahmedabad, GJ



Biwani, HR



Chandigarh, PB



Gandhidham, GJ



Kutch, GJ



Chatral, GJ



Halol, GJ



Vadodara, GJ



Jaipur, RJ



Nagore, TN



Kolhapur, MH



Ludhiana, PB



Mathura, UP



Mumbai, MH



Mundra, GJ



Pali, RJ



Jaipur, RJ



Chandigarh, PB



Raipur, CG



Udaipur, RJ



Pali, RJ



Djibouti, Africa



Jakarta, Indonesia



Dhaka, Bangladesh



Storage Tank, Bangladesh



Dhaka, Bangladesh



Chittagong, Bangladesh



Dhaka, Bangladesh



Batulicin, Indonesia



Djibouti, Africa



Dakar, Africa



Nepal



Fiji

# Bitumen Bag Melter

The Alltech Bitumen Bag Melter is engineered specifically to handle meltable bagged bitumen, offering an efficient solution for projects using bagged storage. The system melts both the bitumen and its packaging for a clean, uninterrupted process, embodying Alltech's commitment to operational efficiency and simplicity.



Bagged Bitumen

**4-6 TPH**  
Melting Capacity

**Containerized**  
Type

**Containerized**  
Type



— Features:

**Melting Chamber:** Built to contain and melt both bitumen and bag material, ensuring a seamless melting process.

**Thermal Oil Heating Coils:** Efficient heating coils maintain consistent temperature, ensuring rapid melting and maintaining bitumen integrity.

**Reservoir Tank:** Insulated to retain heat and maintain the melted bitumen at an optimal temperature until ready for transfer.

**Bitumen Pump:** Directs the melted bitumen to external storage tanks, allowing for immediate usage or storage.

**Minimal Maintenance Design:** Built for durability and reliable performance, requiring minimal upkeep.

# Installations Across the World



Senegal



Nigeria



Sudan



Kenya



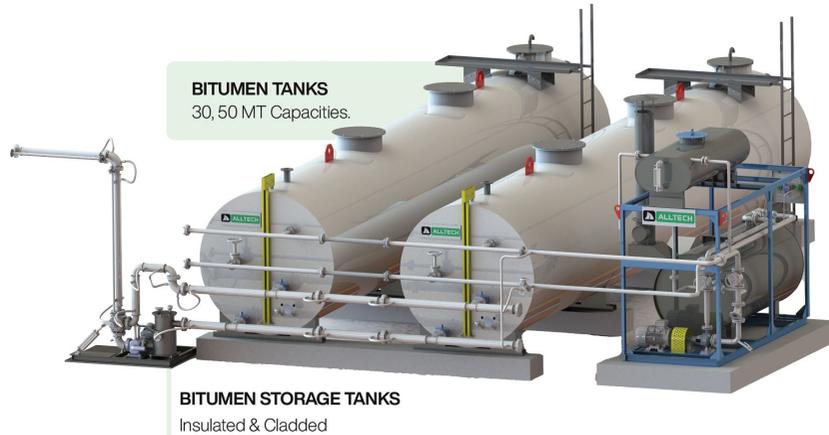
Djibouti



Mali

## Allied Facilities

### Bitumen Storage Tanks:



- **Customizable Insulated Tanks:** We offer indirect and direct heated bitumen tanks, fully insulated and cladded, tailored to meet specific customer requirements.
- **Advanced Heating System:** Our system includes a thermic fluid heater with a burner, hot-oil pump, and safety valves for efficient and safe heating.
- **Efficient Bitumen Pumping:** A heavy-duty 3" diameter positive displacement bitumen gear pump, mounted on a skid, ensures reliable and efficient bitumen circulation.
- **Protective Filtration Mechanism:** An integrated bitumen filter protects the pump from metal contaminants, enhancing durability and performance.

### Bitumen Suction Pump:

- Portable design for easy installation and efficient bitumen extraction.
- Advanced jacketed body for optimized pump performance.
- Reliably precise bitumen suction with our positive displacement system.
- Versatile options from 24m<sup>3</sup> for diverse suction needs.
- Efficient power duo – robust gear pump with a 10HP motor



### Organic (Solid Fuel) Thermic Fluid Heater:

- **Fully Packaged Design:** Our system is designed for complete installation requiring minimal site work.
- **Cycloidal Air Injection:** This innovative feature enhances residence time, minimizes excess air, and significantly reduces incomplete combustion losses.
- **High-Efficiency Design:** The system includes two concentric coils that create three flue passes, delivering exceptional efficiency.
- **Cost-Effective Erection:** Our design achieves a substantial reduction in erection costs, without requiring any extensive foundation work.
- **Minimized Radiation Losses:** The system's design leads to less exposed surface area. The thermic fluid circulating pump integrated into our system is a modern air-cooled type, eliminating the need for water cooling. It features a mechanical seal for maintenance-free operation and ensures zero leakage of thermic fluid.



### Thermic Fluid Heater (Liquid Fuel):



Liquid fuel thermic fluid heaters run on petroleum-based fuels like Diesel/LDO or Gases like LPG/CNG/PNG.

- Indirect heating via thermic fluid minimizes heat loss and maximizes fuel-to-heat conversion.
- Maintains stable bitumen temperature with minimal energy fluctuations, reducing reheating cycles.
- Operates at optimized fuel consumption, lowering maintenance and energy expenses over time.

## After Sales Services

At Alltech Industries India Pvt. Ltd., we are committed to providing exceptional after-sales support for our Bitumen Melting Equipment. Our dedicated team ensures smooth operation and longevity of your equipment through the following services:



### Technical Support

- Assistance with installation and commissioning by expert engineers
- Remote troubleshooting for operational issues
- Guidance on process optimization for efficient melting and transfer
- Support in integrating with existing asphalt plant systems



### Spare Parts & Maintenance

- Ready availability of critical spare parts for minimum downtime
- Genuine replacement parts ensuring long-term performance
- Preventive maintenance guidelines and schedules
- On-site maintenance support on request



### Customer Service

- Prompt response to queries and complaints
- On-demand operator training and refresher programs
- Feedback and follow-up system for continuous improvement
- Personalized support for export clients across time zones

## Technical Specifications

SPECIFICATION	BITUMEN DRUM DECANter					
Transportation Type	Container Size			Open Deck		
Models	Taurus	Sagittarius	Leo	Aquarius	Capricorn	Scorpio
Production Capacity	Up to 3 TPH	Up to 6 TPH	Up to 5 TPH	Up to 6 TPH	Up to 7 TPH	Up to 8 TPH
Bitumen Temperature	120°C					
Reservoir Capacity	8 MT	12 MT	10 MT	12 MT	13 MT	14 MT
Hydraulic Cylinder Size	100 x 50 (2 nos.)	100 x 50 (3 nos.)	100 x 50 (3 nos.)	100 x 50 (3 nos.)	100 x 50 (4 nos.)	100 x 50 (4 nos.)
Equipment Insulation	High-Density Rock Wool, Cladded with Powder-Coated G.I. Sheet					
Hydraulic Power Pack	Mounted with High-Efficiency Pump and Lever-Operated Valves					
Hydraulic Power Pack Motor	5 HP electric motor or equivalent					
Bitumen Pump Capacity	10 HP electric motor or equivalent					
Heating System	Indirect Heating System: Efficient, Uniform Bitumen Heating with Thermic Oil, Saving Energy and Reducing Heat Loss.					

SPECIFICATION	BITUMEN BAG MELTER	
Models	BBM 6000	BBM 4000
Transportation Type	Container Size	
Production Capacity	Up to 6-7 Tons Per Hour	Up to 4-5 Tons Per Hour
Bitumen Temperature	130°C	
Equipment Insulation	High Density Rock-Wool, Powder Coated G.I. Sheet	
Reservoir Capacity	25 MT	25 MT
Overall Dimension	11,900 mm (L) x 2,250 mm (W) x 2,510 mm (H)	6,500 mm (L) x 2,250 mm (W) x 2,500 mm (H)
Bag Lifting Facility	Electric Hoist (2 MT capacity)	
Bitumen Transfer Pump	Skid Mounted Positive Displacement Gear Pump (Hot-Oil Jacketed)	
Bitumen Pump Capacity	24 m <sup>3</sup> /hour, 7.5 kW Electric Motor (430V, 50 Hz)	



# Committed to Excellence Through Rugged, Robust & Reliable Solutions.

 Asphalt Batch Mix Plant (80-320 TPH)

 Counter Flow Drum Mix Plant (60-120 TPH)

 Bitumen Drum Decanter (2-8 TPH)

 Emulsion, CRMB, PMB Plants

 Microsurfacing Machine

 Bitumen Bag Decanter (4-6 TPH)

 RDSO Steel Girders (Heavy Engineering)



## ALLTECH INDIA LIMITED

(Formerly known as Alltech Industries India Private Limited & Alltech India Private Limited)

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