

Bagged Asphalt Rapid Mixing Equipment

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Ton bags and container bags represent a new type of packaging solution ideal for long-distance transportation – offering environmental benefits, ease of reuse, and suitability for general cargo transport – making them a preferred packaging choice among manufacturers. With the growing demand for bagged asphalt, to meet the end-user market requirements, our company has independently developed and launched two products: the Ton Bag Rapid Melting Equipment (KRD-30) and the Container Bag Rapid Melting Equipment (KRJ-40), which are designed for the bagged asphalt end-user market and have gained market recognition. These devices are suitable for any asphalt product – whether bagged, imported, colored, or special-purpose – regardless of its specific characteristics; detailed information is provided below.

Ton-bag Asphalt Rapid Dissolution Equipment – KRD-30



KRD-30 is a compact, rapid-melting solution suitable for small-bag packaging (25–50 kg) and/or ton 袋 packaging (1000–1200 kg). Equipped with two thermal cutting tanks, KRD-30 offers rapid melting speeds and a constant-temperature, anti-aging design that enables continuous operation.



product features:

The temperature-controlled composite heating system for the KRD-30 primarily serves as a safety and anti-aging measure; it employs a combination of two heating methods – constant-rate thermal oil heating and direct heating with rapid temperature rise – for asphalt processing, with each method being independently controllable. The constant-rate thermal oil heating enables thermal convection of the asphalt within the asphalt aging critical point, while the direct heating provides a faster heating rate when thermal convection is already well-established.

The KRD-30 thermal cutting system comprises two constant-temperature thermal cutting tanks; the input lump bitumen is melted and cut into small pieces by these tanks before falling into the lower melting zone. The installation of multiple constant-temperature thermal cutting tanks increases the heating surface area of the lump bitumen. The bottom of the melting zone is equipped with a temperature-controlled composite heating system and an adjustable variable-speed mixing system; this combined

design effectively enhances the melting rate of the lump bitumen.

The KRD-30 continuous-operation unit can be used either independently or in combination with multiple units. It features dual oil discharge ports at both high and low levels, enabling simultaneous oil intake and discharge for continuous production. This innovative design enhances production efficiency and reduces overall operating costs.

technical parameter:

KRD-30 Main Technical Specifications Table:

Project	Unit	Parameter	Remarks
Melting kettle feeding rate	T/h	2–5	
Asphalt storage quantity	m³	> 30	
Thermal oil operating temperature	°C	200–220	
Thermal oil capacity	KG	500	
External dimensions (length × width × height)	cm	1160*230*255	
Total equipment heat output	Wanda Card	60	
Total equipment power	KW	29	

Containerized Asphalt Rapid Melting Equipment – KRJ-40



product presentation:

The KRJ-40 is specifically designed for transporting asphalt in containerized liquid bags and is suitable for transport on standard 17-meter flatbed trucks. Its container dimensions – 6500 mm in length and 2550 mm in width – are 15 mm wider on both sides than standard container dimensions, facilitating easier access to the melting zone within the container. This design allows the container to fully hold 20-ton loads of low-temperature asphalt, preventing any spillage.



product features:

The temperature-controlled composite heating system for the KRJ-40 primarily serves as a safety and anti-aging measure; it employs a combination of two heating methods – constant-rate thermal oil heating and direct heating with rapid temperature rise – to heat asphalt, with each method being independently controllable. The constant-rate thermal oil heating enables thermal convection of the asphalt within the asphalt aging critical point, while the direct heating provides a faster heating rate when thermal convection is already well-established.

The KRJ-40 thermal cutting heating system has a total heating capacity of 900,000 kcal. A high-temperature pipeline network is installed in both the waiting-melting zone and the high-temperature zone; thermal pipe cutting technology is employed to cut large volumes of low-temperature asphalt into sheet-like pieces, which are then directed into the high-temperature zone. The high-temperature zone primarily utilizes direct heating, supplemented by a thermal oil heat pipe base layer to ensure comprehensive heating without any dead zones. These measures enable the rapid melting of low-temperature asphalt.

The KRJ-40 continuous-operation unit can be used either independently or in conjunction with multiple units. It features dual oil discharge ports at both high and low levels, enabling simultaneous oil intake and discharge for continuous production. This unique design enhances production efficiency and reduces overall operating costs.

technical parameter:

KRJ-40 Main Technical Specifications Table:

Project	Unit	Parameter	Remarks
Melting kettle feeding rate	T/h	5–6	
Asphalt storage quantity	m³	> 40	
Thermal oil operating temperature	°C	200–220	
Thermal oil capacity	KG	1200	
External dimensions (length × width × height)	cm	12280*2680*2550	
Total equipment heat output	Wanda Card	90	
Total equipment power	KW	32	