



Versatile, economical, professional  
**Cold Milling Machine W 2000**



# Always in top shape – high-performance cold milling machine W 2000



## Its versatility makes this large milling machine so efficient

For professional contractors requiring a versatile road milling machine with top performance, the W 2000 paves the way to all-round success. This multi-purpose machine, forming part of the 79" (2 m) large milling machine range offered by Wirtgen, does an excellent job on all milling sites. No matter what the specific task is, the sophisticated

engine always provides enough power. In addition, the innovative FCS Light ensures that even the most demanding micro-fine milling jobs are completed to the highest quality standard. At the end of the day, it is the wide range of possible applications that makes this compact large milling machine so economical.



◀ The compact, front-loading W 2000 exceeds the highest expectations on all types of job sites

▼ Tried and tested technology – and satisfied operators

Optional working width of 87" (2.2 m)



- ▶ The optional Wirtgen Flexible Cutter System Light (FCS Light) enlarges the range of applications of the W 2000.
- ▶ The optional LEVEL PRO automatic leveling system ensures high-quality, accurate milling results.
- ▶ The working width can optionally be extended to 87" (2.2 m) to enable even more applications and make the machine more efficient.
- ▶ The experience and expertise gained in the manufacture of over a thousand W 2000 machines and in countless jobs has been utilized to the benefit of this proven performer.

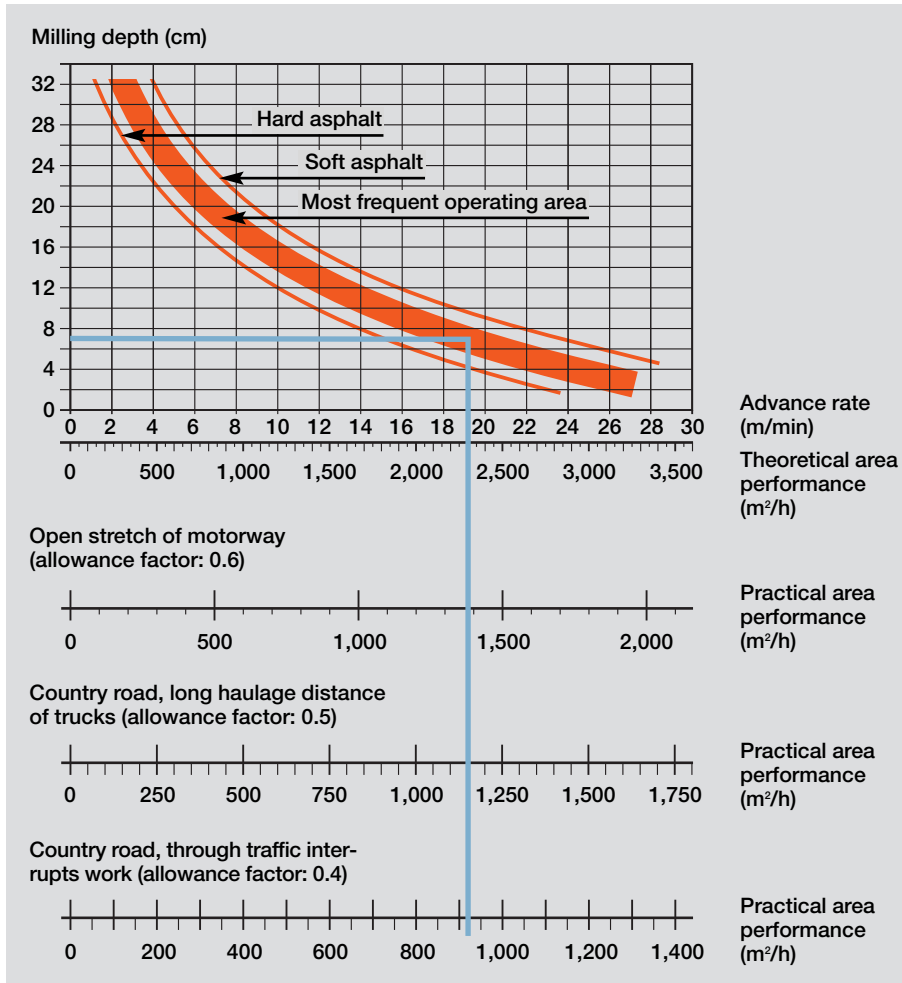
# Compact 79" (2 m) milling machine with high performance reserves



## The W 2000 is at home both on small and large job sites

/// Its milling width of 79" (2 m) and strong engine enable the W 2000 to mill large areas economically at depths of up to 13" (320 mm). On small or medium-sized sites, such as the rehabilitation of an inner-city road pavement, the high milling performance and compact design ensure swift job completion. The W 2000 performance diagram can be used

to estimate the actual milling performance to be expected in each specific case. In this exercise, an allowance factor accounts for parameters or circumstances having an adverse effect on performance, such as interruptions by traffic, waiting periods until trucks arrive, discontinuous milling areas, road fixtures or a route including many turns and bends.



Extremely high milling output



The W 2000 efficiently removes both complete road pavements and individual pavement layers

Calculation of area performance, taking account varying site conditions

- ▶ The state-of-the-art diesel engine and the sophisticated engine management system ensure highest productivity up to a milling depth of 13" (320 mm).
- ▶ The W 2000 is the ideal choice for the removal of all types of large road pavements.
- ▶ Fine milling enables road pavements to be rehabilitated with maximum economic efficiency.
- ▶ The generously designed front-loading conveyors ensure swift, uninterrupted loading even of large amounts of milled material.

# Always in full control of the milling process



## Easy and efficient operation

**//** The easy operation of the W 2000 enables highly productive work right from the start. Due to the clear arrangement of the controls, the large milling machine can be handled intuitively. The unambiguous symbols provide clarity and safety. All levers and switches have been designed with functionality in mind, and have been arranged in line with functional groups and frequency of

operation. The center of the operator's platform features a top-class extra – the WIDIS 32 screen. The WIDIS 32 on-board information and diagnostic system developed by Wirtgen (available as an optional feature) displays all parameters pertaining to the machine, engine and hydraulic system in a clear and explicit fashion.

Clear and concise display: the WIDIS 32 screen shows key operation parameters ▶

Due to the clear workplace layout, the operator immediately finds his way around ▼



Only a few turns needed



▶ The compact design of this large milling machine provides all-round visibility, including the milling edge and the entire job site.

▶ Crew members on the ground can additionally set or modify machine parameters using the control panels mounted to both sides of the machine.

▶ The WIDIS 32 screen shows current operating parameters or a service check with fault indications, if any.

▶ The ingenious W 2000 control panel design enables the operator to remain fully focused on the job.

# Perfect ergonomics for perfect work results



Vandal-proof lockable covers ▲

▲ Individually adjustable control panel

Both control panels can be moved in outward direction ►



## No-fatigue operation increases performance

Machine operators wishing to work productively and at ease require both ample room to move and an ergonomic arrangement of the controls. This results in a perfectly designed workplace that ensures safe operation, avoids confusion and enhances productivity. The W 2000 leads by example in this regard! The operator can adjust the

control panels on the left and right-hand side both in height and inclination to entirely suit his personal preferences. In addition, both the control panels and the two comfortable driver's seats can be moved to project over the edge of the machine.

Climate comfort ensured by the standard hot-air heating system ▶

▼ In addition to the control panel, the optional protective canopy can also be moved sideways



Fully equipped operator's platform for maximum ease of operation



▲ When the ladder is folded away, the W 2000 is ideally suited to milling the surface along obstacles

◀ The operator's platform can be conveniently accessed via ladders on both sides of the machine

▶ The W 2000 operator's platform meets all requirements in terms of workplace ergonomics.

▶ Both while standing and in seated position, the operator enjoys ample space on the walk-through platform.

▶ The optional canopy protects the operator from sun and rain exposure, and can be folded down quickly for transport.

▶ Elastically supported treads add to the high degree of comfort offered to the machine operator.

# LEVEL PRO guarantees top-class milling results



◀ The control panel has been mounted in the operator's direct field of view

Wire-rope sensors attached to the side plates accurately measure the milling depth on both sides ▶



## Maximum ease of leveling

Wirtgen has developed a highly accurate, proprietary leveling system including a software that has been designed specifically for cold milling machines: LEVEL PRO. The overall system includes an operating panel, a controller unit and several sensors. The graphics-enabled LEVEL PRO screen shows key parameters in a clearly legible fashion.

For example, target and actual values for the left and right milling depth and slope parameters are clearly and unambiguously shown on the displays. In addition, the memory feature is very useful to program, store and invoke target values.

The optional electronic slope sensor for milling pre-set cross slopes ▶



Cutting-edge technology makes work easier



▲ Scanning the surface in front of the milling drum using a wire-rope sensor (optional)

The clearly arranged operating panel makes leveling easier ▶



▶ Large push buttons enable the operator to enter or correct parameters quickly and safely.

▶ A great variety of sensors can be integrated into the automatic leveling system as and when required, such as wire-rope, slope and ultrasonic sensors.

▶ The optional multiplex system can be used to perfectly compensate irregularities in longitudinal direction.

▶ The multiplex system analyses the output of three, five or seven sensors on each side of the machine, which is very useful to ensure perfectly level surfaces during fine milling.

# Track accuracy in any situation



## The large milling machine impresses with high maneuverability

On many major construction sites, a high degree of maneuverability is a “must”. This is when the operator can rely on the excellent driving properties of the compact W 2000. To a large extent, this favorable behavior is ensured by the smooth, hydraulic all-track steering system including a manually selectable, hydraulic flow divider which acts as a

differential lock and guarantees a uniform tractive force even under adverse conditions. The high-lift, individually height-adjustable track units result in a remarkably high ground clearance. In addition, all four units provide large steering angles, which give the W 2000 an amazingly small turning circle.

Working independently of the height selected, the parallel sliding block guide ensures precise steering ▶

Crab steering enables the machine to approach existing cuts with maximum precision ▼



The W 2000 –  
always on track



- ▶ The agile large milling machine permits maneuverability under difficult ground conditions, turning tightly, easy loading and the approach to existing cuts in crab steering mode.
- ▶ A specially designed sliding block guide uncouples the steering function from height adjustment.
- ▶ The automatic drive system of the W 2000 eliminates the need for a shift from milling to travelling mode or vice versa.
- ▶ Speed can be continuously adjusted from zero to maximum speed.

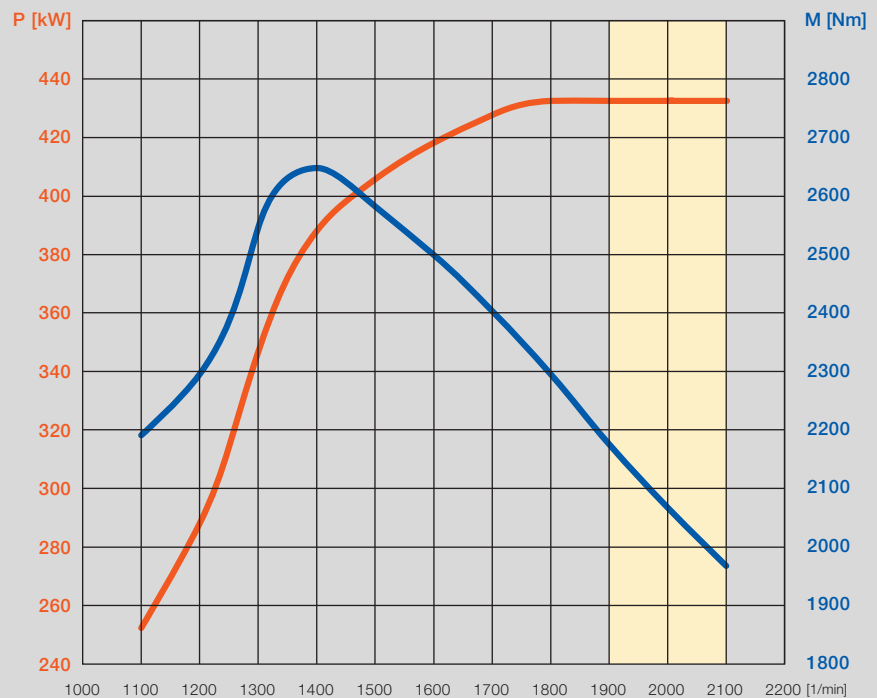
# High engine performance, low fuel consumption

Using fuel wisely



▲ The engine offers an ideal combination of power, torque and fuel consumption

Characteristic curves in the critical operating range ▶



The engine output remains constant even at extremely high engine loads

## Top-performance yet economical and environmentally friendly

/// Today, the cost of fuel is one of the major expense items on the construction site. In addition, each gallon of fuel consumed unnecessarily has a harmful impact on the environment. The W 2000 works differently – this cold milling machine is equipped with a state-of-the-art, economical diesel engine. The fully electronic machine control system ensures that the engine always works in the optimal

performance and torque ranges. This minimizes fuel consumption and directly results in low operating cost. The powerful diesel engine also complies with the strict exhaust emission standards as stipulated by the EU (EU-2004/26/EC Stage 3a) and the US Environmental Protection Agency (EPA, Tier 3).

# Highly efficient milling drum drive



Low-loss transmission provides many advantages



A hydraulic cylinder keeps the tension of the multiple V-belts at a constant level

A gentle V-belt drive is guaranteed

- ▶ The mechanical milling drum drive ensures a permanently high milling performance at maximum efficiency.
- ▶ The intelligent drive design results in significant cost benefits due to low fuel consumption, high wear resistance and easy maintenance.
- ▶ An automatic belt tensioner ensures uniform power transmission at all times.
- ▶ The multiple V-belts absorb peak loads and ensure low susceptibility to damage or failure.

# Wide range of applications ensures efficiency



## Counting on flexibility

/// Versatility is what makes a cold milling machine economical! The W 2000 can be fitted with milling drums of different tool spacings. As the texture of the milled surface will vary depending on the spacing of the cutting tools, the multi-purpose W 2000 is suitable for a wide range of applications. From deep milling using the Eco cutter or

the standard milling drum to fine milling or micro-fine milling – the W 2000 completes these demanding jobs all on its own. But the machine has even more to offer – using the optional FCS Light, the shop crew can change milling drums at record speed.

## Ultra-fast milling drum change using FCS Light



**ECO cutter**  
 Milling width: 79" (2,000 mm)  
 Milling depth: 0 – 13" (0–320 mm)  
 Tool spacing: 1" (25 mm)



**Standard milling drum**  
 Milling width: 79" (2,000 mm)  
 Milling depth: 0 – 13" (0–320 mm)  
 Tool spacing: 5/8" (15 mm)



**Fine milling drum**  
 Milling width: 79" (2,000 mm)  
 Milling depth: 0 – 4" (0–100 mm)  
 Tool spacing: 5/16" (8 mm)



Fine milling drums are fitted with a dense pattern of cutting tools, which results in a very finely textured surface ▲

◀ Range of milling drums for the W 2000 with a working width of 79" (2 m)

▶ The optional ECO cutters equipped with a reduced number of point-attack tools ensure the highest possible area performance.

▶ Standard milling drums are ideally suited for the removal of one or more pavement layers, ensuring a good interlock between the milled surface and the new pavement layers.

▶ The optional fine milling drums create finely textured surfaces that are ideally suited as a base for the application of thin pavement layers.

▶ The optional micro-fine milling drums can be used to roughen road pavements and to improve their skid resistance.

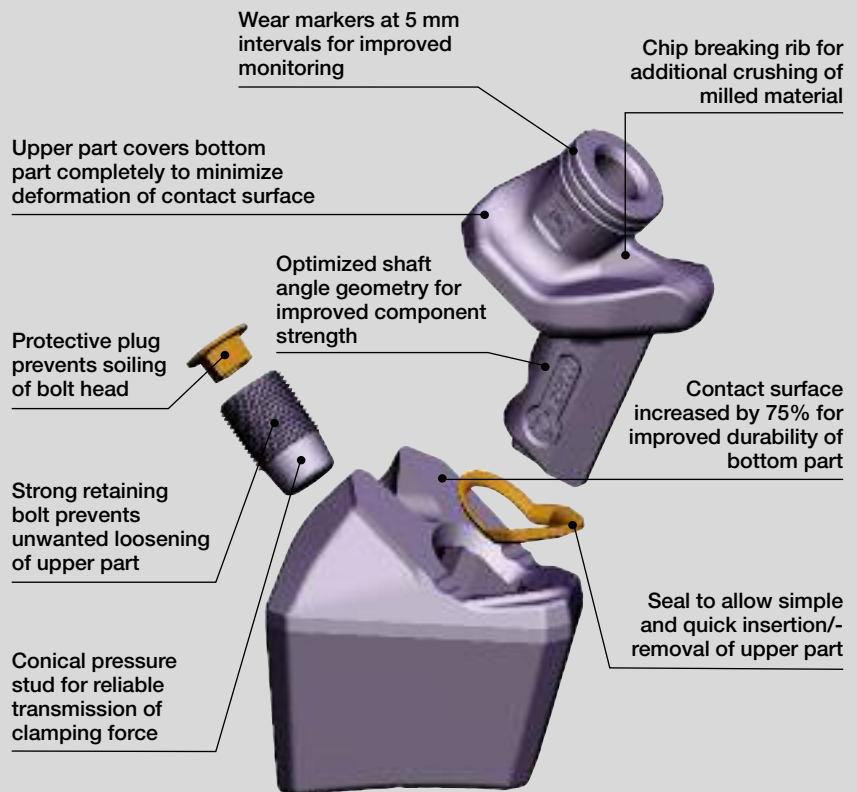
# HT11 makes the W 2000 even more economical

Driving down downtime



▲ HT11 is a robust, quick-change system

Quick-change toolholder HT11 (optional): a tool for the pros ▶



## Long service life in even the toughest jobs

/// Toolholders are subject to a high degree of stress and strain. Our patented HT11 quick-change toolholder system has been designed for demanding everyday use on the job site, and almost entirely converts the engine power into cutting performance. This is made possible by the use of particularly wear-resistant materials, the perfect rotating characteristics of the cutting tools and additional tool

cooling. Other key features paying off during day-to-day operation include the quick and easy tool replacement, the perfect access using extractor tools and the simple wear monitoring procedure using wear markers. Overall, the HT11 system minimizes downtime while optimizing periods of productive operation.

# Saving time during cutting tool replacement

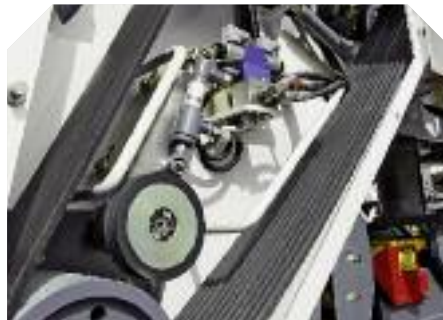


Quick cutting tool replacement ensures longer uptime

The remote control unit with long coiled cord to turn the milling drum ▼

▲ Convenient cutting tool replacement using the pneumatic tool extractor

Drive of the drum turning device ►



- ▶ The optional, hydraulically operated drum turning device is a tried and tested instrument used to access all cutting tools very quickly and easily.
- ▶ The wire remote control unit used for exact positioning of the milling drum can be placed anywhere within easy reach of the operator.
- ▶ Cutting tool replacement can be accelerated further by using the optional pneumatic tool extractor.
- ▶ An optional seat to make tool replacement even more convenient can be mounted at the rear track units, where sufficient space is also provided for depositing tool containers.

# Professional milling drum assembly



▲ The sturdy design of the gradation control beam protects the primary conveyor belt

... while in raised position, the surface can be milled off accurately along curbs ▼

▲ The hydraulically operated, height-adjustable gradation control beam prevents the asphalt from breaking into large slabs

In hydraulically lowered position, the side plate moves over the surface, closing the milling chamber... ▶



## Adds even more versatility: the 87" (2.2 m) housing

/// A housing extension can be used to upgrade the W 2000 for 87" (2.2 m) wide milling drums. This again increases both the range of possible applications and the efficiency of this multi-purpose machine. But whatever the working width, the milling drum assembly is top-class: For full loading of the milled material, the scraper blade is lowered hydraulically. When raised and locked at the required height, the scraper

blade enables the milled material to be either partially loaded or to remain in the milled track. The side plates left and right are raised via hydraulic cylinders to achieve perfect milling results along road fixtures. Raising the side plates also prevents them from digging into the ground in unpaved areas.



Tried and tested in day-to-day operation

For partial loading, the scraper blade is locked at the required height ▼

▲ The scraper blade can be swung wide open to provide ample space for cutting tool replacement

For full loading of the milled material, the scraper blade is set to "float" on the milled surface ▶



- ▶ The option to use a 87" (2.2 m) wide milling drum assembly increases the range of applications and the utilization of this large milling machine.
- ▶ Scraper blade, gradation control beam and protective side plates provide effective closure of the milling chamber.

- ▶ The high-strength, standard gradation control beam mounted to the conveyor shoe almost entirely prevents the asphalt from breaking into large slabs during the milling process.
- ▶ The integrated water spray system provides highly effective cooling of the cutting tools and extends their service life.

# Flexible, high-performance loading of milled material



▲ The discharge conveyor can be raised hydraulically (optional)

▼ Effectively closed transfer zone from primary to discharge conveyor

▲ The optional folding conveyor design simplifies transport

The W 2000 standard package includes a one-stage discharge conveyor ▶



## The front-loading conveyor of the W 2000 keeps up with any milling speed

Well-organized transport of the material away from the site makes a significant contribution to ensuring smooth progress of the milling operation. For this reason, as many trucks as possible should be loaded to full capacity without any waiting periods. The W 2000 supports such a perfect logistics system: even when fully utilizing its enormous milling capacity, the loading system easily copes with the resulting transport needs. Due to the wide slewing angles of

the conveyor, one truck can wait on the side while another is still being loaded while driving alongside the machine. Great discharge height and variable belt speed enable large trucks to be loaded to full capacity. The operator's platform provides good visibility of both discharge conveyor and truck. Optional belt scales keep the operator informed of the loading status, enabling him to immediately recognize when the maximum permissible capacity is reached.



High daily outputs  
made easy

... ensure perfect  
adjustment to the specific  
conditions on the job site ▼

▲ Wide, steep-incline conveyor belt with rugged cleat profile to ensure reliable transport of the milled material

Wide slewing angles of 45° to the left and right ... ▶



- ▶ The 32" (800 mm) wide belt ensures swift loading – even when large amounts of material are conveyed.
- ▶ The manually adjustable speed of the discharge conveyor belt (optional) ensures a flexible discharge pattern, and thus permits articulated trucks to be loaded to full capacity.

- ▶ The optional belt scales determining the weight of the milled material loaded ensure that trucks are always loaded to full capacity.
- ▶ The hydraulically folding discharge conveyor (optional) reduces the transport length of the entire machine.

# Intelligent preventive maintenance pays off



## A complete check of the W 2000 – as convenient as it should be

/// Even though the W 2000 has been designed for long working days, a minimum amount of checking and maintenance should be done. All important components are readily accessible without using tools: wide-opening service panels provide full access to carry out the amount of

maintenance and servicing required. In addition, lubrication and service points have been grouped together intelligently in just a few places on the machine. Overall, this reduces downtime while effectively increasing machine availability.

All filters are easy to reach and can be replaced effortlessly ▶



Ensuring continuously high availability



▶ A feature that comes in handy – the high-pressure cleaner can be used to clean the W 2000 on the job site

▶ Ample space for maintenance provided by the wide-open engine cowling

- ▶ The hinged engine cowling is opened hydraulically. Together with the wide-opening service doors on each side, it ensures full access to carry out maintenance.
- ▶ Quick visual checks can be performed either from the ground or from the operator's platform.

- ▶ Ample storage space is available for tools, wear parts or cutting tools.
- ▶ The hydraulic high-pressure cleaner comes complete with a long hose and reel. It enables complete cleaning of the W 2000 no matter where the machine is located.

# All-round visibility on site – always guaranteed



Several mirrors provide good visibility across the site ▲

Warning beacons are included in the standard package ▼

▲ The W 2000 works effectively at all times – during day and night

Spotlights are attached in no time ▶



## For extended productive periods

/// Road maintenance and repair jobs are often subject to enormous time pressure, which sometimes results in the necessity to perform work also under adverse weather conditions, after sunset or overnight. This is when the comprehensive lighting equipment delivered with the versatile W 2000 comes into play. Numerous spotlights can

be attached all around the machine very quickly, and freely adjusted as and when required. These lights provide powerful illumination to all important site areas. At the end of the day, the top-class lighting system is a prime component when it comes to extending the capacity of the W 2000.

# A perfect transport solution



Quick transport – ready for the next job

It doesn't get any smaller – at the flip of a switch, the optional protective canopy is folded into transport position ▼

## ▲ Easy low-bed trailer haulage

A hydraulically operated fold-down canopy is available as an equipment option ►



- The heavy-duty protective canopy (optional) can be folded down hydraulically for transport purposes.
- The transport length of the machine is reduced by about 10' (3 m) if the folding conveyor design is chosen.
- Strong loading and lashing lugs enable the machine to be safely lashed down on a trailer or loaded by crane.
- Our offering also includes conveyor support legs to support the discharge conveyor during transport on a low-bed trailer.



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