

Technical specification

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Cutting drum	
Cutting width max.	2,500 mm
Cutting depth *1	0 to 650 mm
Drum diameter with tools	1,500 mm
Number of cutting tools	depending on operating conditions
Engine	
Manufacturer	CUMMINS
Type	QST 30
Cooling	water
Number of cylinders	12
Rated power	783 kW / 1,050 HP / 1,065 PS
Fuel consumption, full load	192 l/h
Fuel consumption in field operation	96 l/h
Emission standard USA / Canada	Tier 2
Emission standard outside USA / Canada	Tier 1
Electrical system	
Electrical power supply	24 V
Tank capacities	
Fuel tank	2,400 l
Hydraulic oil tank	500 l
Water tank	2,800 l
Driving properties	
Operating speed	0 to 25 m/min
Travel speed	0 to 3.9 km/h
Theoretical gradeability	20%
Max. cross slope	8%
Crawler units	
Crawler units front and rear (L x W x H)	2,920 x 400 x 970 mm
Conveyor system	
Belt width of primary conveyor	1,400 mm
Length of primary conveyor	5,800 mm
Belt width of discharge conveyor	1,400 mm
Length of discharge conveyor	11,300 mm

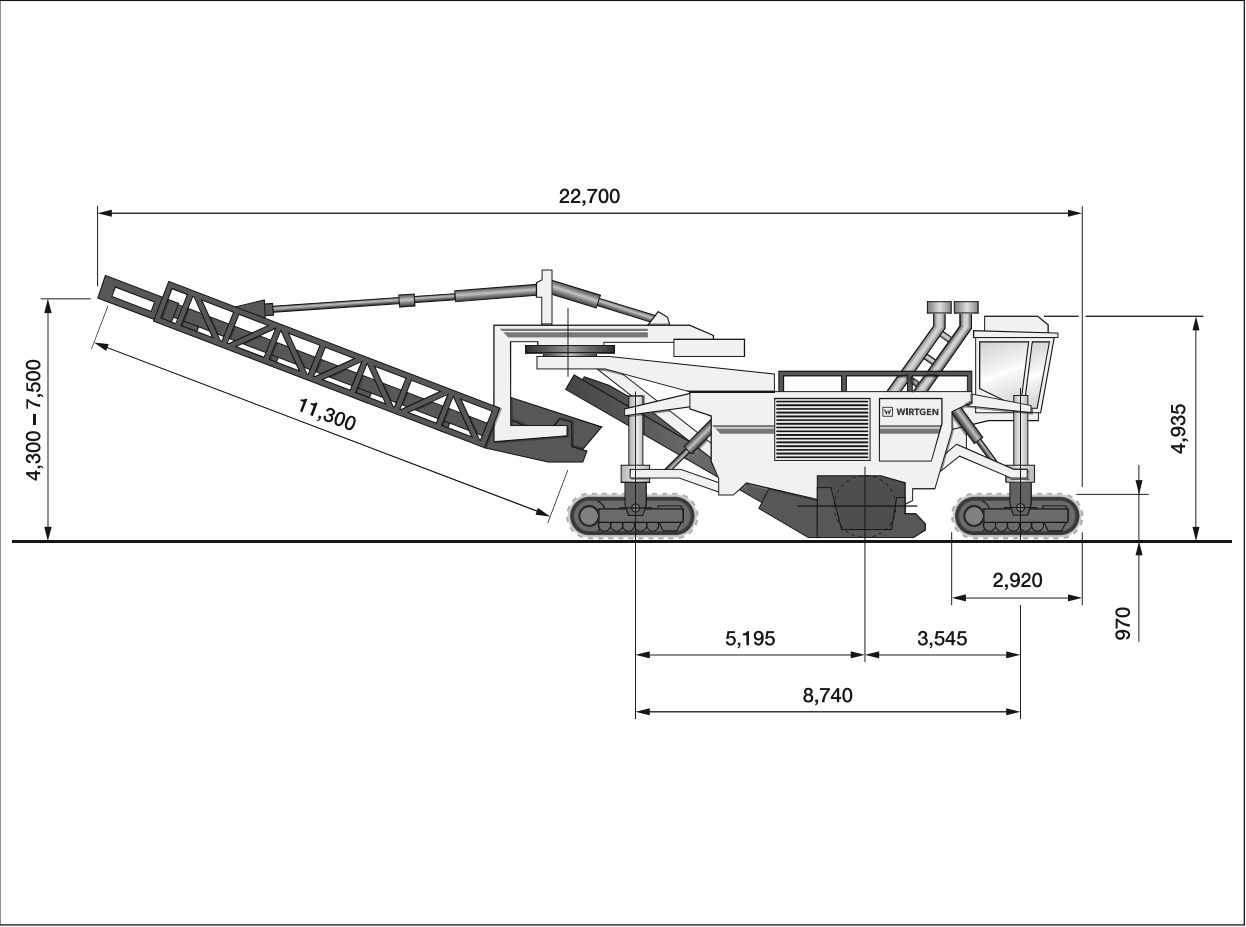
*1 = The maximum cutting depth may deviate from the value indicated due to tolerances and wear

Shipping dimensions	
Ground transport	
Packing unit No. 1: module 1 (machine frame, Crawlwe units, engine station, primary conveyor, operator's cabin) (L x W x H)	12,800 x 3,470 x 3,400 mm
Packing unit No. 2: module 2 (slewing ring, conveyor suspension, counterweight, transport box with various attachment parts) and module 3 (discharge conveyor) (L x W x H)	15,700 x 2,750 x 3,400 mm
Sea transport	
Packing unit No. 1: module 1 (machine frame, Crawlwe units, engine station, primary conveyor, operator's cabin) (L x W x H)	12,800 x 3,470 x 3,400 mm
Packing unit No. 2: module 2 (slewing ring, conveyor suspension, counterweight, transport box with various attachment parts) (L x W x H)	6,400 x 2,700 x 3,350 mm
Packing unit No. 3: module 3 (discharge conveyor) (L x W x H)	12,300 x 2,300 x 1,700 mm

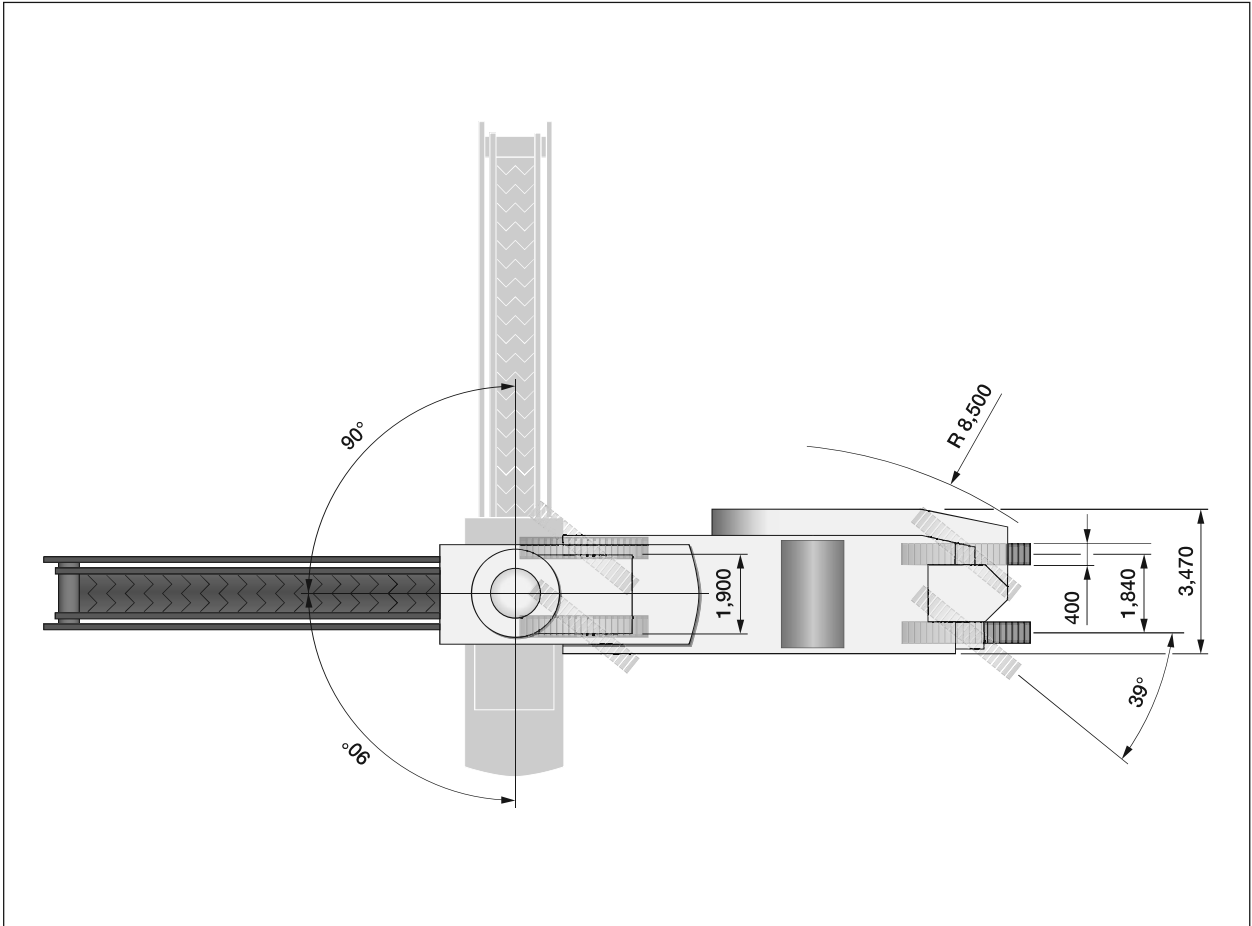
Weight of base machine	
Empty weight	109,100 kg
Operating weight, CE *2	111,600 kg
Maximum operating weight, full tanks	118,000 kg
Transport weights of individual components	
Ground transport	
Weight of packing unit No. 1: module 1 (machine frame, Crawlwe units, engine station, primary conveyor, operator's cabin)	82,850 kg
Weight of packing unit No. 2: module 2 (slewing ring, conveyor suspension, counterweight, transport box with various attachment parts) and module 3 (discharge conveyor)	28,450 kg
Sea transport	
Weight of packing unit No. 1: module 1 (machine frame, Crawlwe units, engine station, primary conveyor, operator's cabin)	82,850 kg
Weight of packing unit No. 2: module 2 (slewing ring, conveyor suspension, counterweight, transport box with various attachment parts)	23,800 kg
Weight of packing unit No. 3: module 3 (discharge conveyor)	4,650 kg
Weights of operating agents	
Water tank filling in kg	2,800 kg
Diesel tank filling in kg (0.83 kg / l)	1,992 kg
Optional equipment features increasing / reducing empty weight	
Driver	75 kg
On-board tools	30 kg

*2 = Weight of machine, half-full water tank, half-full fuel tank, driver, on-board tools, excluding equipment options

Dimensions



Dimensions in mm

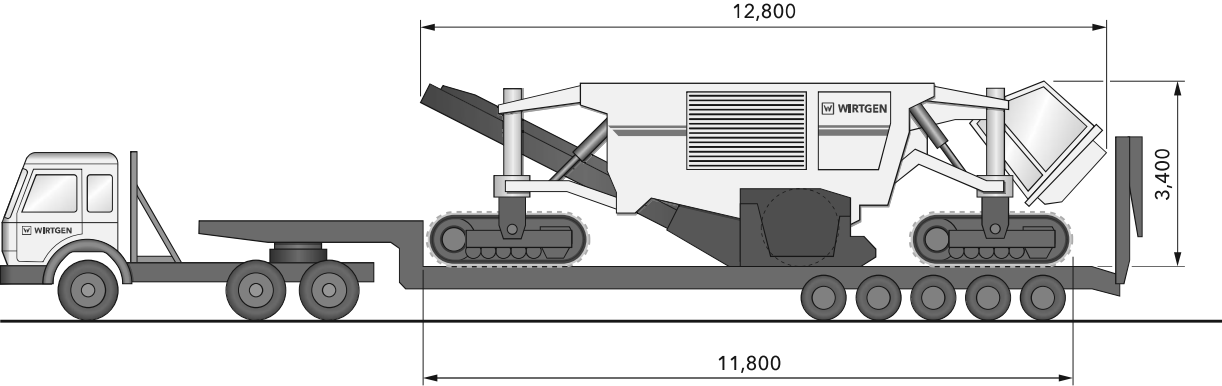


Dimensions in mm

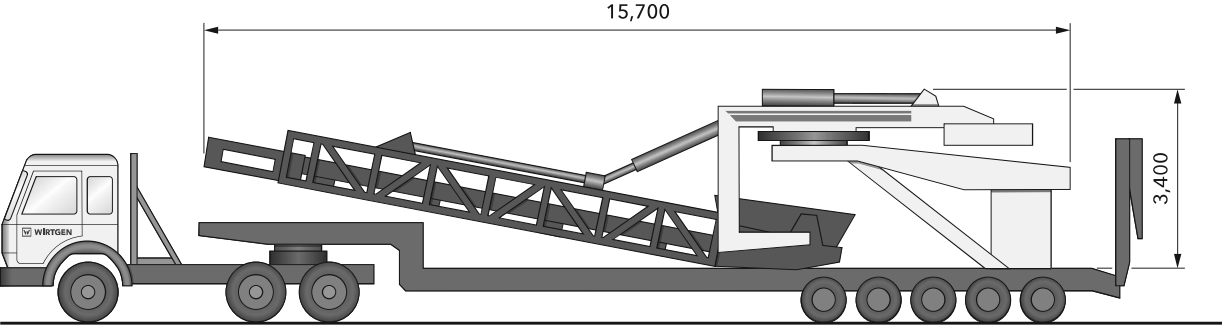
Dimensions

Transport modules of surface miner 2500 SM for ground transport

Packing unit No. 1: module 1 (machine frame, Crawlwe units, engine station, primary conveyor, operator's cabin)



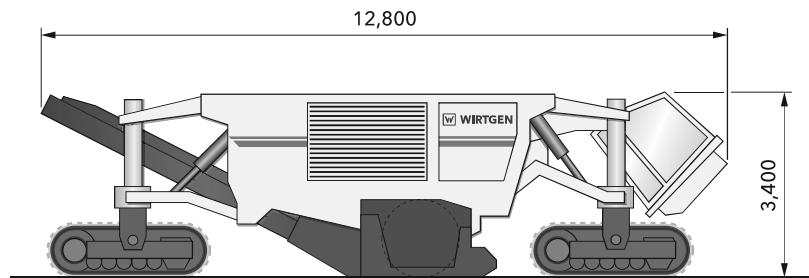
Packing unit No. 2: module 2 (slewing ring, conveyor suspension, counterweight, transport box with various attachment parts) and module 3 (discharge conveyor)



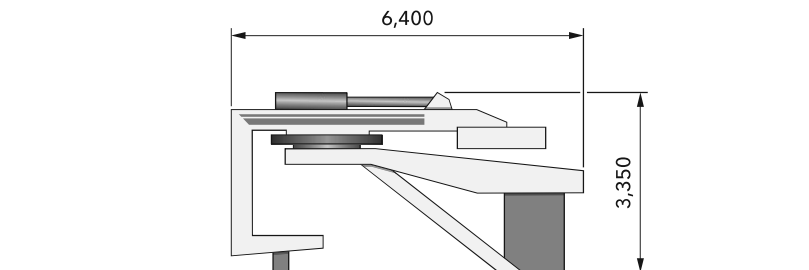
Dimensions in mm

Transport modules of surface miner 2500 SM for sea transport

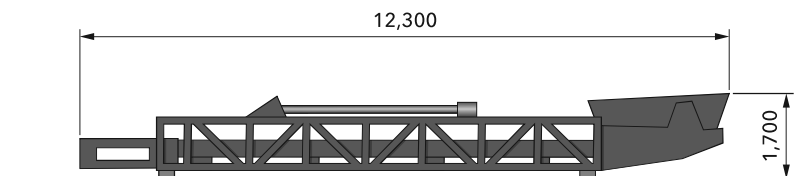
Packing unit No. 1: module 1 (machine frame, Crawlwe units, engine station, primary conveyor, operator's cabin)



Packing unit No. 2: module 2 (slewing ring, conveyor suspension, counterweight, transport box with various attachment parts)



Packing unit No. 3: module 3 (discharge conveyor)



Dimensions in mm

Standard equipment

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Base machine	
Basic machine with engine	■
Separate battery main switch for disconnecting the starter	■
Sound attenuation package for radiator and hydraulic system	■
Mechanical Cutting drum drive with drive belts	■
Hydraulically depressurised scraper plate behind the drum	■
Cutting drum unit	
Cutting drum housing completely made from wear-resistant material (HB400)	■
Cutting drum housing FB2500	□
Cutting drums	
Cutting drum FB2500 HT15 LA45 SK1500 with picks	□
Material loading	
Two-part discharge conveyor, 11,300 mm long, 1,400 mm wide	□
Machine control and levelling system	
Four height settings for the entire machine, consisting of two hydraulic cylinders each front and rear, cutting depth display, cutting depth control with a wire-rope sensor on each machine side, transverse slope control	■
Operator's stand	
Operators stand glazed all round and acoustically insulated	■
Equipped with rotating seat with all important control instruments in the armrests	■
With air conditioner for cooling and heating	■
Footstep and walkway to the cabin illuminated	■
Emergency exit with ladder over the front right track	■

- = Standard equipment
- = Standard equipment, replaceable with optional equipment
- = Optional equipment

Chassis and height adjustment	
Crawler units with particularly robust 2-web track pads in heavy-duty version for mining applications	■
Infinitely variable, hydraulic four-track drive with two speed ranges	■
Four-track steering	■
The following steering types can be preselected: Crab and coordinated steering as well as straight ahead for the rear crawler units	■
Others	
Water spraying system for drum sprinkling	■
Water high-pressure cleaner (40 bar) with washing lance	■
Lighting system with 14 xenon spotlights 24V	■
Total of 5 EMERGENCY STOP switches at sensible positions on the machine	■
Cutting drum rotation device, electrohydraulically driven. For the fast and simple pick change. An electrohydraulic unit permits operation with the diesel engine switched off.	■
Paint standard cream white RAL 9001	□
Lubrication unit manual	□

■ = Standard equipment
 □ = Standard equipment, replaceable with optional equipment
 □ = Optional equipment

Optional equipment

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Cutting drums	
Cutting drum FB2500 HT14 LA45 with picks	<input type="checkbox"/>
Cutting drum FB2500 HT15 LA45 SK1500 armoured with picks	<input type="checkbox"/>
Material loading	
Equipment for cut material depositing in the windrow process	<input type="checkbox"/>
Machine control and levelling system	
Preliminary equipment 3D laser levelling	<input type="checkbox"/>
Monitor system 2 camera and 2 monitor	<input type="checkbox"/>
Operator's stand	
FOPS cabin canopy	<input type="checkbox"/>
Railing sideways behind the cabin and railing for engine compartment	<input type="checkbox"/>

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- = Optional equipment

Others	
Paint in one special colour (RAL)	<input type="checkbox"/>
Central lubrication system	<input type="checkbox"/>
Cold start aid 400 V without generator	<input type="checkbox"/>
Petrol generator 400 V for cold start aid	<input type="checkbox"/>
Water filling hydraulic	<input type="checkbox"/>
Hydraulic pick ejector drift	<input type="checkbox"/>
Wiggins device for fast filling of the diesel tank	<input type="checkbox"/>
Wiggins device for filling fuels/ lubricants	<input type="checkbox"/>
Electrical diesel suction and pressure pump (100 l/min) with 7.50 m suction hose	<input type="checkbox"/>
Electrical power supply 12 V	<input type="checkbox"/>
Rear lights	<input type="checkbox"/>
2 additional LED working lights on the discharge conveyor	<input type="checkbox"/>
Workshop container 20 foot incl. workshop equipment	<input type="checkbox"/>

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 = Standard equipment, replaceable with optional equipment
 = Optional equipment