# **Technical specification**

Cutting width max. 2,500 mm  Cutting depth ** 0 to 650 mm  Drum diameter with tools 1,500 mm  Number of cutting tools depending on operating conditions  Engine  Marufacturer CUMMINS  Type COST 30  Cooling water  Number of cylinders 12  Rated power 783 kW/1,050 HP/1,065 PS  Fuel consumption, full load 1921/h  Fuel consumption in field operation 96 t/h  Emission standard USA / Canada Tier 2  Emission standard outside USA / Canada Tier 2  Emission standard outside USA / Canada Tier 1  Electrical power supply 24 V  Tank capacities  Fuel tank 2,4001  Hydraulic oil tank 5001  Water tank 2,8001  Driving properties  Craveler units front and rear (L x W x H) 2,720 x 400 x 970 mm  Electrical gradeability 2,720 x 400 x 970 mm  Electrical formary conveyor 5,800 mm  Elek width of pinmary conveyor 1,400 mm  Elegth oil discharge conveyor 1,400 mm  Elegth oil discharge conveyor 1,400 mm  Elegth oil discharge conveyor 1,400 mm	Cutting drum	
Drum diameter with tools         1,500 mm           Number of cutting tools         depending on operating conditions           Engine         CUMMINS           Type         QST 30           Cooling         water           Number of cylinders         12           Rated power         783 kW/1,050 HP/1,065 PS           Fuel consumption, full load         1921/h           Fuel consumption in field operation         96 II/h           Emission standard USA / Canada         Tier 2           Emission standard outside USA / Canada         Tier 1           Electrical power supply         24 V           Tank capacities         24 V           Fuel tank         2,4001           Hydraulic oil tank         5001           Water tank         2,8001           Driving properties         0 to 25 m/min           Travel speed         0 to 3.9 km/h           Theoretical gradeability         20%           Max. cross slope         8%           Crawler units         2,920 x 400 x 970 mm           Conveyor system         1,400 mm           Belt width of primary conveyor         5,800 mm           Belt width of discharge conveyor         1,400 mm	Cutting width max.	2,500 mm
Number of cutting tools     depending on operating conditions       Engine       Manufacturer     CUMMINS       Type     OST 30       Cooling     water       Number of cylinders     12       Rated power     783 kW/1,050 HP/1,065 PS       Fuel consumption, full load     192 I/h       Fuel consumption in field operation     96 I/h       Emission standard USA / Canada     Tier 2       Emission standard outside USA / Canada     Tier 1       Electrical power supply     24 V       Tank capacities     2,400 I       Hydraulic oil tank     500 I       Water tank     2,800 I       Driving properties     0 to 25 m/min       Operating speed     0 to 3.9 km/h       Theoretical gradeability     20%       Max. cross slope     8%       Crawler units     2,920 x 400 x 970 mm       Crawler units front and rear (Lx W x H)     2,920 x 400 x 970 mm       Conveyor system     1,400 mm       Belt width of primary conveyor     5,800 mm       Belt width of discharge conveyor     1,400 mm	Cutting depth *1	0 to 650 mm
Engine         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           Electrical power supply         24 V           Tank capacities         2,4001           Hydraulic oil tank         5001           Water tank         2,8001           Driving properties         0 to 25 m/min           Travel speed         0 to 3.9 km/h           Theoretical gradeability         20%           Max. cross slope         8%           Crawler units         2,920 x 400 x 970 mm           Crawler units front and rear (L x W x H)         2,920 x 400 x 970 mm           Conveyor system         1,400 mm           Belt width of primary conveyor         5,800 mm           Belt width of discharge conveyor         1,400 mm	Drum diameter with tools	1,500 mm
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 I/h           Fuel consumption in field operation         96 I/h           Emission standard USA / Canada         Tier 2           Emission standard outside USA / Canada         Tier 1           Electrical system         Electrical power supply           Electrical power supply         24 V           Tank capacities         2,400 I           Hydraulic oil tank         500 I           Water tank         2,800 I           Driving properties         0 to 25 m/min           Operating speed         0 to 3.9 km/h           Theoretical gradeability         20%           Max. cross slope         8%           Crawler units         2,920 x 400 x 970 mm           Crawler units front and rear (L x W x H)         2,920 x 400 x 970 mm           Conveyor system         Belt width of primary conveyor         5,800 mm           Belt width of discharge conveyor         1,400 mm	Number of cutting tools	depending on operating conditions
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 24V  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  Belt width of discharge conveyor 1,400 mm  Belt width of discharge conveyor 1,400 mm	Engine	
Cooling water Number of cylinders 12 Rated power 783 kW/1,050 HP/1,065 PS Fuel consumption, full load 1921/h Fuel consumption in field operation 96 I/h Emission standard USA / Canada Tier 2 Emission standard outside USA / Canada Tier 1  Electrical system  Electrical power supply 24V  Tank capacities Fuel tank 2,400 I Hydraulic oil tank 500 I Water tank 2,800 I  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  Belt width of girmary conveyor 5,800 mm  Belt width of discharge conveyor 1,400 mm	Manufacturer	CUMMINS
Number of cylinders  Rated power  783 kW/1,050 HP/1,065 PS  Fuel consumption, full load  192 l/h  Fuel consumption in field operation  60 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 I  Hydraulic oil tank  300 I  Water tank  2,800 I  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 (Lx W x H)  Conveyor system  Belt width of primary conveyor  1,400 mm  Belt width of discharge conveyor  1,400 mm  Belt width of discharge conveyor  1,400 mm	Туре	QST 30
Rated power 783 kW/1,050 HP/1,065 PS Fuel consumption, full load 192 I/h Fuel consumption in field operation 96 I/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 I Hydraulic oil tank 500 I Water tank 2,800 I  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 5,800 mm Belt width of discharge conveyor 1,400 mm	Cooling	water
Fuel consumption, full load  Fuel consumption in field operation  Fuel consumption in field operation  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 I  Hydraulic oil tank  500 I  Water tank  2,800 I  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)  Conveyor system  Belt width of primary conveyor  Length of primary conveyor  5,800 mm  Belt width of discharge conveyor  1,400 mm	Number of cylinders	12
Fuel consumption in field operation  Emission standard USA / Canada  Tier 2  Emission standard outside USA / Canada  Tier 1  Electrical system  Electrical power supply  24 V  Tank capacities  Fuel tank  Hydraulic oil tank  500 I  Water tank  Driving properties  Operating speed  O to 25 m/min  Travel speed  O to 3.9 km/h  Theoretical gradeability  2,920 x 400 x 970 mm  Conveyor system  Belt width of primary conveyor  Length of primary conveyor  1,400 mm  Belt width of discharge conveyor  1,400 mm	Rated power	783 kW/1,050 HP/1,065 PS
Emission standard USA / Canada Tier 2  Emission standard outside USA / Canada Tier 1  Electrical system  Electrical power supply 24 V  Tank capacities  Fuel tank Hydraulic oil tank 500 I  Water tank 2,400 I  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  Belt width of discharge conveyor 1,400 mm	Fuel consumption, full load	192 l/h
Emission standard outside USA / Canada  Electrical system  Electrical power supply  24 V  Tank capacities  Fuel tank  Hydraulic oil tank  5001  Water tank  2,800 I  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  Conveyor system  Belt width of primary conveyor  1,400 mm  Belt width of discharge conveyor  1,400 mm	Fuel consumption in field operation	96 l/h
Electrical power supply 24 V  Tank capacities  Fuel tank 2,400 I  Hydraulic oil tank 500 I  Water tank 2,800 I  Driving properties  Operating speed 0 to 3.9 km/h  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  Belt width of discharge conveyor 1,400 mm	Emission standard USA / Canada	Tier 2
Electrical power supply  Tank capacities  Fuel tank  Puel tank  Sou I  Hydraulic oil tank  Sou I  Water tank  Driving properties  Operating speed  O to 25 m/min  Travel speed  O to 3.9 km/h  Theoretical gradeability  20%  Max. cross slope  8%  Crawler units  Crawler units front and rear (L x W x H)  Description of primary conveyor  Length of primary conveyor  1,400 mm  Belt width of discharge conveyor  1,400 mm	Emission standard outside USA / Canada	Tier 1
Fuel tank 2,400 I Hydraulic oil tank 500 I Water tank 2,800 I  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 (Lx W x H) 2,920 x 400 x 970 mm  Conveyor system  Belt width of primary conveyor 1,400 mm  Belt width of discharge conveyor 1,400 mm	Electrical system	
Fuel tank 2,400 I Hydraulic oil tank 500 I Water tank 2,800 I  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  Belt width of discharge conveyor 1,400 mm	Electrical power supply	24 V
Hydraulic oil tank  Water tank  2,800 I  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  Belt width of discharge conveyor  1,400 mm	Tank capacities	
Water tank2,800 IDriving propertiesOperating speed0 to 25 m/minTravel speed0 to 3.9 km/hTheoretical gradeability20%Max. cross slope8%Crawler units2,720 x 400 x 970 mmConveyor system1,400 mmLength of primary conveyor5,800 mmBelt width of discharge conveyor1,400 mm	Fuel tank	2,400
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	Hydraulic oil tank	5001
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  Belt width of discharge conveyor 5,800 mm  Belt width of discharge conveyor 1,400 mm	Water tank	2,800 l
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  Belt width of discharge conveyor 1,400 mm	Driving properties	
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	Operating speed	0 to 25 m/min
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	Travel speed	0 to 3.9 km/h
Crawler unitsCrawler units front and rear (L x W x H)2,920 x 400 x 970 mmConveyor system1,400 mmBelt width of primary conveyor5,800 mmBelt width of discharge conveyor1,400 mm	Theoretical gradeability	20%
Crawler units front and rear (L x W x H)  Conveyor system  Belt width of primary conveyor  Length of primary conveyor  Belt width of discharge conveyor  1,400 mm  1,400 mm	Max. cross slope	8%
Conveyor system  Belt width of primary conveyor  Length of primary conveyor  5,800 mm  Belt width of discharge conveyor  1,400 mm	Crawler units	
Belt width of primary conveyor 1,400 mm  Length of primary conveyor 5,800 mm  Belt width of discharge conveyor 1,400 mm	Crawler units front and rear (L x W x H)	2,920 x 400 x 970 mm
Length of primary conveyor 5,800 mm  Belt width of discharge conveyor 1,400 mm	Conveyor system	
Belt width of discharge conveyor 1,400 mm	Belt width of primary conveyor	1,400 mm
	Length of primary conveyor	5,800 mm
Length of discharge conveyor 11,300 mm	Belt width of discharge conveyor	1,400 mm
	Length of discharge conveyor	11,300 mm

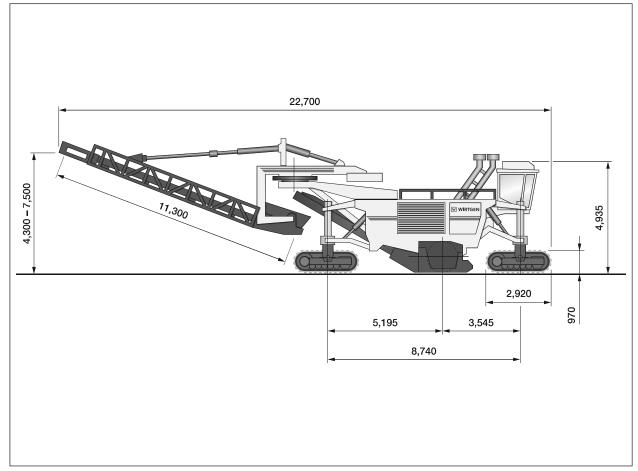
 $<sup>\</sup>star$ 1 = The maximum cutting depth may deviate from the value indicated due to tolerances and wear

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,	4 400 0 700 0 700
transport box with various attachment parts) (L x W x H)	6,400 x 2,700 x 3,350 mm

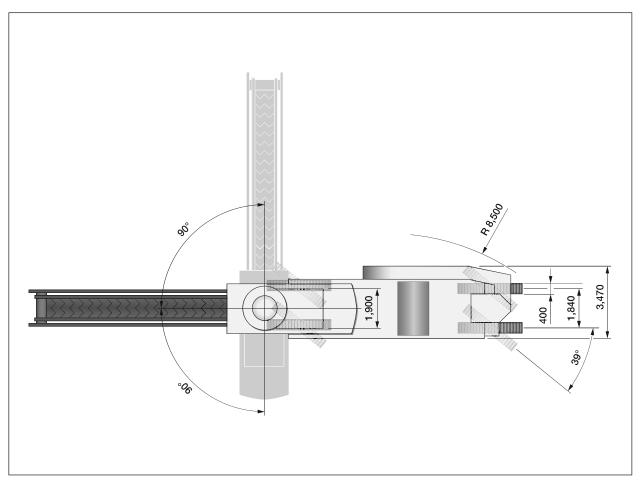
Weight of base machine	
Empty weight	109,100 kg
Operating weight, CE*2	111,600 kg
Maximum operating weight, full tanks	118,000 kg
Transport weights of individual components	
Ground transport	
Weight of packing unit No. 1: module 1 (machine frame, Crawlwe units, engine station, primary conveyor, operator's 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

 $<sup>\</sup>star^2$  = Weight of machine, half-full water tank, half-full fuel tank, driver, on-board tools, excluding equipment options

### **Dimensions**



Dimensions in mm

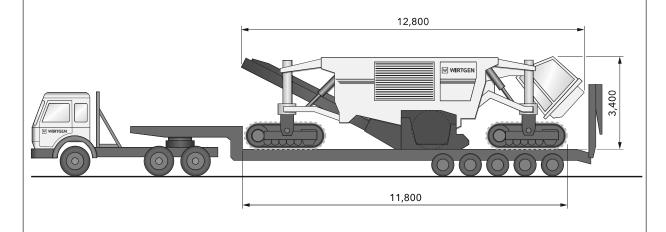


Dimensions in mm

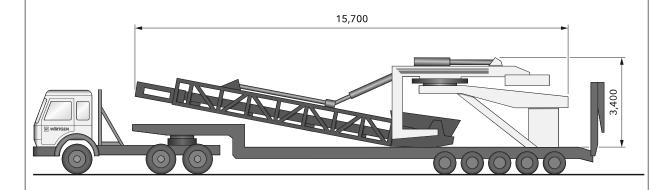
### **Dimensions**

#### 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)



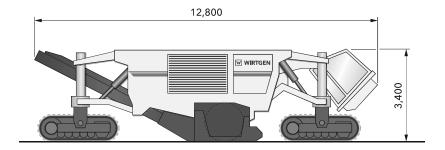
Packing unit No. 2: module 2 (slewing ring, conveyor suspension, counterweight, transport box with various attachment parts) and module 3 (discharge conveyor)



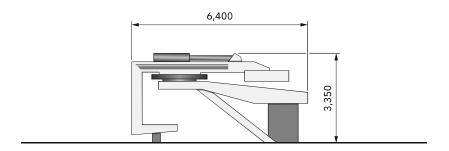
Dimensions in mm

#### Transport modules of surface miner 2500 SM for sea transport

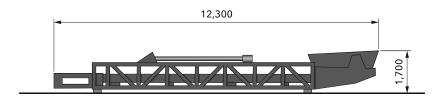
Packing unit No. 1: module 1 (machine frame, Crawlwe units, engine station, primary conveyor, operator's cabin)



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

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	•

<sup>■ =</sup> Standard equipment
= Standard equipment, replaceable with optional equipment

<sup>=</sup> 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	

## **Optional equipment**

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

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