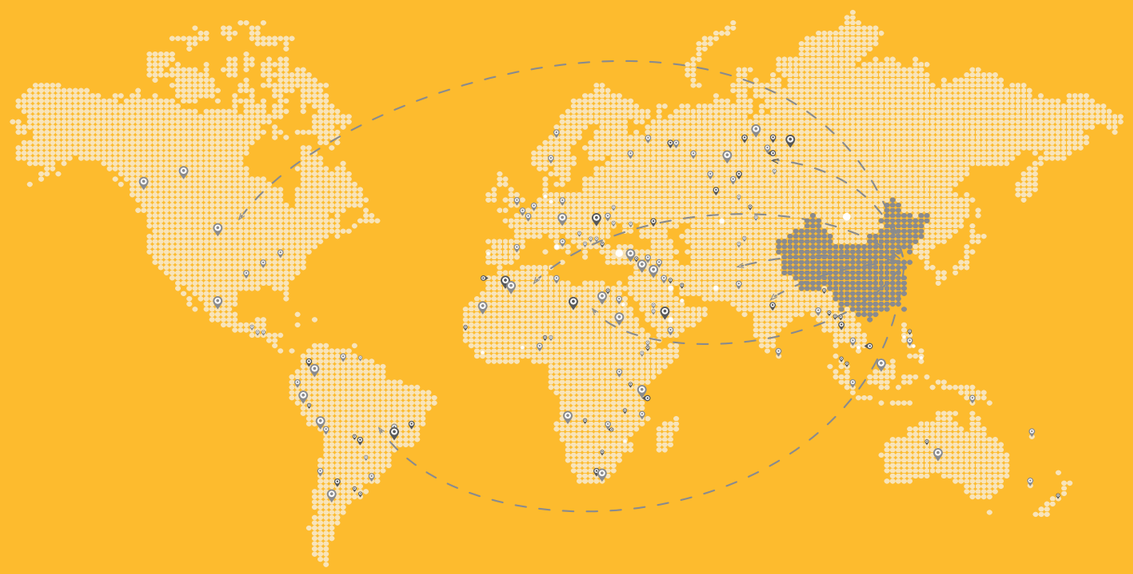

LOVOL

FB878M BACKHOE LOADER

Rated payload/kg	2000kg
Rated power/kW	74kW
Standard bucket capacity/m³	1.0m/0.18m³

ADDRESS: No. 75, Huanghe East Road, Huangdao District, Qingdao City, Shandong Province, China.
TEL:+86-532-86907190
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LOVOL HEAVY INDUSTRY GROUP CO.,LTD.

Machine Parameters

Rated payload/kg	2000
Curb weight/kg	8230
Maximum traction force/kN	80
Maximum breakout force of arm cylinder at loading end/kN	44
Maximum breakout force of boom cylinder at loading end/kN	30
Overall dimensions (L×W×H)/mm	7330×2420×3500
Minimum ground clearance/mm	350
Wheel base/mm	2170
Front wheel track/mm	1880
Rear wheel track/mm	1730
Departure angle/°	17
Front axle swing angle/°	11
Minimum turning radius of bucket outside/mm	6340
Minimum turning radius of tire center/mm	5120

Loading Working Device

Maximum discharging height/mm	2710
Discharging distance/mm	770
Hinge pin height/mm	210
Boom length/mm	2500
Discharging angle/°	45
Bucket rollback angle/°	45
Standard bucket capacity/m³	1.0
Standard bucket dimensions (L×W×H)/mm (hinge joint to bucket teeth front)	2420X1918X1221
Bucket weight/kg	1064

Excavation Working Device

Maximum excavation height/mm	5110/5815
Maximum excavation depth/mm	4340/5500
Maximum excavation radius/mm	5370/6460
Maximum discharging height/mm	3470/4170
Standard bucket capacity/m³	0.18
Bucket weight/kg	143

Engine

Model	WEICHAI WP4.1G100E311
Emission standard	Tier II / III
Engine intake method	Supercharger
Number of cylinders - cylinder diameter × stroke/mm	4-105×118
Displacement/L	4.088
Rated power/kW	74
Rated speed/rpm	2200
Maximum torque/N·m	420

Transmission

Brand	CARRARO
Transmission type	Oil bath brake(Wet Brake)
Type of torque converter	Single-stage single-phase hydraulic torque converter
Torque coefficient	2.64
Gear shift	4/4
Forward speed ratio	5.603/3.480/1.584/0.793
Reverse speed ratio	/
Forward I (km/h)	5
Forward II (km/h)	8
Forward III (km/h)	18
Forward IV (km/h)	28
Reverse I (km/h)	5
Reverse II (km/h)	8
Reverse III (km/h)	18
Reverse IV (km/h)	/

Front Axle

Type	4 Wheel drive(4WD)
Input torque/speed/transmission ratio	04 1800/3000/14.77

Rear axle

Type	4 Wheel drive(4WD)
Input torque/speed/transmission ratio	04 2000/3000/16.154

Front Tire

Specifications	14-17.5-14PR TL
Ply rating	14
Front tire pressure/Mpa	0.29±0.01

Rear Tire

Specifications	19.5-24-12PR TL
Ply rating	12
Rear tire pressure/Mpa	0.29±0.01

Steering Hydraulic System

Steering hydraulic system type	Load sensing full hydraulic steering system/ single pump split flow
System working pressure/Mpa	16
Steering pump model	HP3V80
Displacement/L	75

Loading End

Control mode	Mechanical manipulation
Hydraulic working system type	Load sensing full hydraulic steering system/ single pump split flow
System working pressure/Mpa	25
Working pump model	HP3V80
Displacement/L	75
Multi-way valve model	MX12-C18-XB02
Pilot working pressure/Mpa	/
Boom cylinder - cylinder diameter × stroke/mm	75-50×713
Bucket cylinder - cylinder diameter × stroke/mm	70-40×733
Boom lifting time/s	4.6
Discharging/s	2.0
Boom lowering time/s	3.2
Total time/s	9.8

Excavator End

Control mode	Pilot manipulation
Hydraulic working system type	Load sensing hydraulic system
System working pressure/Mpa	25
Working pump model	HP3V80
Displacement/L	75
Multi-way valve model	MX18-G61-XA00
Pilot working pressure/Mpa	4
Boom cylinder - cylinder diameter × stroke/mm	110-60×971
Arm cylinder - cylinder diameter × stroke/mm	100-60×748
Bucket cylinder - cylinder diameter × stroke/mm	90-60×687

Braking

Service brake	Hydraulic power brake
Parking brake	Mechanical caliper disc parking brake
Brake pressure/Mpa	4.1-5.3

Air Conditioner

Working medium (heat/cool)	Coolant/R134a
Cooling capacity/kW	4.5

Appliances

System voltage/bulb voltage/V	12
Battery	180Ah

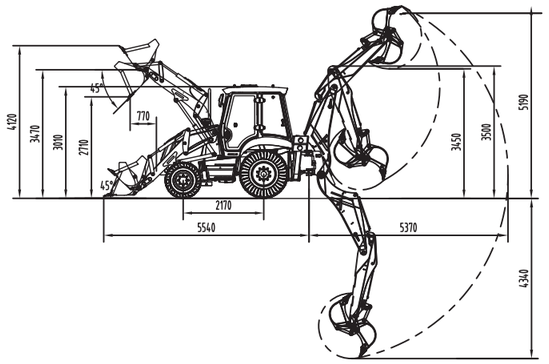
Body

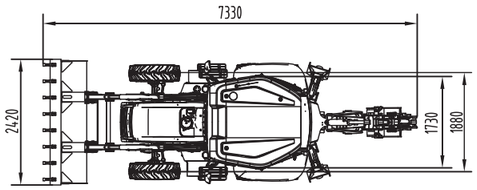
Cab overall dimensions (L×W×H)/mm	2063X2270X1947
Cab weight/kg	813

Oil

Fuel tank (geometric volume)/L	120
Hydraulic oil tank (midline of level gauge)/L	100
Engine oil/L	10
Transmission oil/L	14
Front axle/L	Final reduction drive: 5.7, hub reduction gear: 0.7X2
Rear axle/L	Final reduction drive: 10, hub reduction gear: 1.5X2
Antifreeze/L	14

FB878M





TECHNICAL SPECIFICATIONS

Engine

Engine Model	6BTAA5.9-C178-II
Number of Cylinders	6
Max. Torque/Speed	708N·m/1500rpm
Displacement	5.9L

Hydraulic system

Max. Main Pump Flow	500L/min
Main Safety Valve Pressure	34.3/37.3MPa

Main Performance

Bucket Digging Force	143kN
Arm Digging Force	116kN
Max. Traction Force	217kN
Max. Walking Speed	4.9km/h
Min. Walking Speed	2.7km/h
Rotary Speed	12r/min
Gradeability	35°
Ground Pressure	47.5kPa

Oil Capacity

Fuel Tank	385L
Hydraulic Tank	220L
Engine Oil	20L

LOVOL HEAVY INDUSTRY GROUP CO.,LTD.

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LOVOL

MAKE WORLD BETTER

Rated Power	**133kW/2000rpm**
Operating Weight	**22900kg**
Bucket Capacity	**1.1 m^3**

FR225D

EXCAVATOR

ENERGY-SAVING

Low Fuel-Consumption Engine

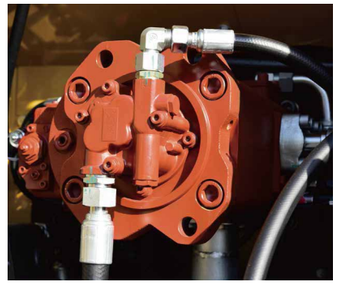
Equipped with Cummins turbo-charged engine which adopts mechanical high-pressure fuel pump and other technologies features strong power, low noise and low fuel consumption. Automatic idle function can reduce fuel consumption and noise dramatically.

Optimal Control System

Adopt original Kawasaki KC-MB-10 controller which adds automatic diagnostic function, the optimal control system makes rational match between the engine and main pump， making machines work efficiently with low fuel consumption.

Optimal Operating Mode

The crushing mode is added to help operator use hydraulic hammer， thus get outperformance with low fuel consumption. The pipelines are also optimized through new design to reduce energy waste of hydraulic system.



RELIABILITY

Upgraded Hydraulic System

The hydraulic pipelines adopt upgraded high-pressure hoses to avoid damage and oil leakage. Pilot oil filter is adopted which makes hydraulic system more reliable.

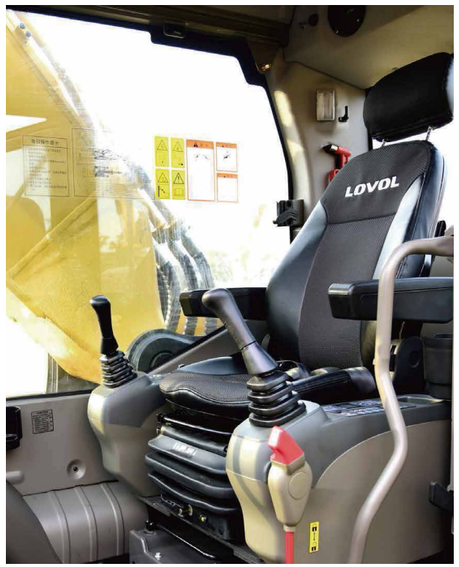
Reinforced Structures

The advanced stress analysis technology and Q345 materials make whole structures more reliable. The front and rear support of boom are made of cast steel which effectively reduces concentration of stress, key positions are also reinforced by welding strength plate, which makes arm more robust.

Reliable Electrical System

All the wiring harnesses adopt waterproof and dustproof connector, which has high security level and high reliability. Shut-down protection is added to reduce the failure possibility for electrical elements when power was cut-out.

COMFORT



Large Spacious Cab

Equipped with spacious cab which provides operator large space to operate machine. The premium suspension seat with armrests is very comfortable and it can reduce the working fatigue dramatically. Big LCD screen is easy to read all data when working. Air conditioning can provide comfortable feeling in cab.

Ergonomic Design

The proportional joystick delivers sensitivity, accuracy and smoothness in operation. This joystick is specially designed to meet different operating conditions. Intelligent control system is standard which could control diverse attachments such as bucket, hammer, scarifier and hydraulic scissors.

Low Noise and Low Vibration

In order to reduce work fatigue and improve productivity, the noise inside of cab has been controlled to the lowest level. The cab is attached to the frame with buffer that dampens vibrations and sound levels to enhance operator comfort.

SERVICEABILITY

Display Screen

Add trouble code diagnostic and maintenance monitor functions which are convenient for operator to find the failure and do the routine maintenance on time.

Engine Hood and Panels

The large engine hood enlarges maintenance space for operator to check and maintain the engine. The tool box is big with big opening angle which can put grease bucket and special tools easily. One key can open all locks of machine, it is very convenient for the operator.

Filters and Maintenance Period

All the filters are fixed at ground level position, it is very convenient to do routine maintenance. The maintenance interval is also extended to save time and cost.

INCREASE YOUR PRODUCTIVITY AND PROFIT WITH LOVOL ATTACHMNTS

You can easily expand the performance of your machine by utilizing any of the variety of LOVOL Attachments.
Each LOVOL Attachments is designed to fit the weight and horsepower of LOVOL Excavator for improved performance, safety, and stability.

Quick Coupler

Hydraulic Shear

Hydraulic Hammer

Standard Bucket

Scarifier

STANDARD CONFIGURATION

Engine

Turbocharged 4 stroke water-cooling direct injection type
Complying with China Stage II emissions
Automatic idle system
Engine oil pan drain valve
Radiator with protective net
Double filter elements dry air filter element
Air pre-filter
Air intake heater
Fan guard

Hydraulic System

Automatic hydraulic system (confluence system)
Anti-swing valve
Boom and arm block valve
Multi-stage filtration system
Cylinder buffer device
Auxiliary hydraulic valve
Automatic two-speed travel motor

Electronic Control System

24V power supply
Diagnostic interface
Emergency stop switch
Display brightness adjustment
Maintenance tips
Automatic diagnostic system
Automatic idle system
One-touch pressure augmentation
Safe stop / start function
Main power switch
Anti-theft system
Engine starting protection
Multilingual display

Cab

Ashtray
Cigar lighter
Seat belt
Front sunshade
Storage box
Escape hammer
Thermostatically controlled air conditioner
Shock absorber (silicone oil and rubber pad)
Flexible antenna
Radio (with interfaces of MP3 and USB)
Hydraulic safety lock
Sun-protection safety glass
Floor mat
Large storage area
Pull-up front window
Removable lower windshield
Sunshade window
Front-bottom glass protective screening
Wipers
Open skylight

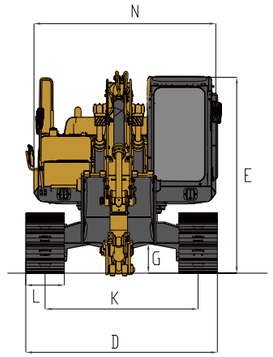
Swing Platform

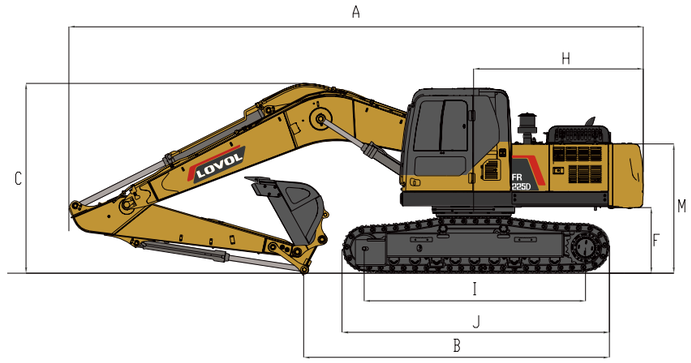
Passage with railing
Tool box
Anti-skid plate
Large pedal
Large armrest
Bottom protection plate
Anti-collision beam

Chassis

Fixed chassis
600mm, three-tooth track shoe

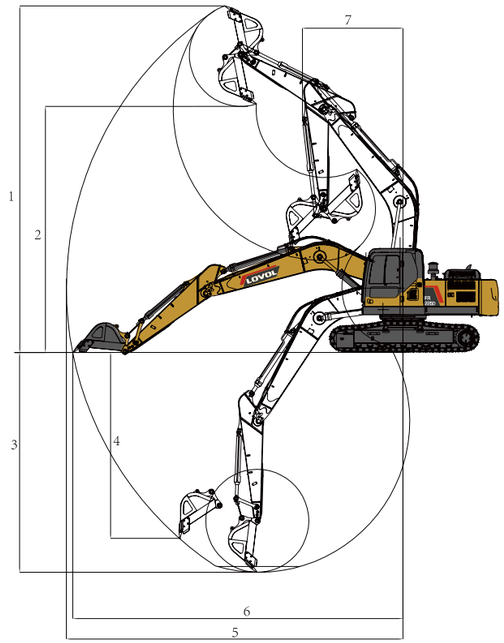
TECHNICAL SPECIFICATIONS





Scope of Work

Max. Digging Height	1	10196mm
Max. Dumping Height	2	7274mm
Max. Digging Depth	3	6496mm
Max. Vertical Digging Depth	4	5980mm
Max. Digging Radius	5	9866mm
Max. Ground Digging Radius	6	9690mm
Min. Turning Radius	7	2910mm



Dimensions

Shipping Length	A	9580mm
Shipping Ground Length	B	5620mm
Boom Height	C	3060mm
Shipping Width	D	2980mm
Cab Height	E	3200mm
Ground Clearance of Counter Weight	F	1090mm
Min. Ground Clearance	G	443mm
Tail Turning Radius	H	2820mm
Length to Center of Rollers	I	3640mm
Track Length	J	4385mm
Track Gauge	K	2380mm
Track Shoe Width	L	600mm
Hood Height	M	/
Rotary Platform Width	N	2700mm

Other Specifications

Boom Length		5700mm
Arm Length		2925mm
Track Section Number（each side）		49

SHANTUI

SG21-B6

Motor Grader

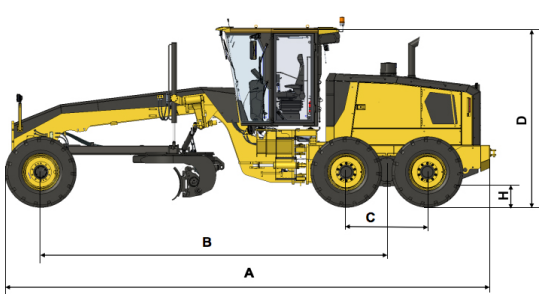
Engine Model:	Cummins 6CTAA8.3-C215
Gross Power:	160kW @ 2200rpm
Operating Weight:	17000kg

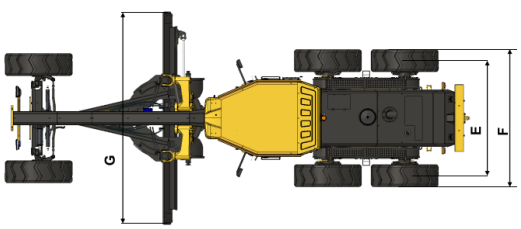
We Level Subgrade Fast and Flat
easy operation and maintenance

SG21-B6 SPECIFICATIONS

ENGINE	
Model	Cummins 6CTAA8.3-C215
Number of cylinders	6
Type	4-cycle, direct injection, water-cooled
Bore x stroke	114*135mm
Displacement	8.3L
Gross power	160kW @ 2200rpm
Max. traction	93.3kN
Max. torque	980N.m @ 1500rpm
Rated fuel consumption	223g/kW.h
Emission	China-II
POWER TRAIN	
Transmission	Fixed-axistype,electro-hydraulicccontrol
Torque converter	Single-stage,single-phase,threebasicelements
Rear axle	Modular,planetaryreduction,"no-Spin"anti-skid differential
Tandem drive	Roller chain. Oscillating angle:±15°
Tire	17.5-25PR12
Front axle	Oscillating angle:±16° Tilting angle:±18°
STEERING	
Type	Hydraulic power
Front wheel steering angle	±50°
Articulation angle	±23°
Min. turning radius	7500mm
BRAKES	
Service brake	Drumtype,footoperated,singlecircuit, hydraulicallyactuatedonfourtandemwheels
Parking brake	Drum type, manually actuated
MOLDBOARD	
Rotation	360°
Moldboard width	3660/3965/4270mm
Moldboard height	620mm
Moldboard thickness	20mm
Moldboard tip angle	22~73°
Max. cutting depth	970mm
Max. lifting height	480mm
Max. shoulder reach (left/right)	1900/1950mm
Max. tilting angle (left/right)	±90°
SPEED	
Forward,1-6	5.5\9.1\12.2\20.7\26.5\39.2km/h
Reverse,1-3	5.3\12.4\26.1km/h

HYDRAULICS	
Tandem pump	Gearpump.32ml/r\Pistonpump75ml/r
Reliefpressureforworkingequipment	18MPa / 24MPa
Relief pressure for steering	16.5MPa
Relief pressure for brakes	10MPa
CAPACITIES	
Fuel tank	360L
Hydraulic oil tank	85L
Engine crank case	19L
Engine coolant	33L
ELECTRICAL SYSTEM	
Battery	2x12V,105Ah
Alternator	28V,70A
Starter motor	24V,6kW
OPERATING WEIGHT	
Standard	17000kg
With front blade	17860kg
With rear ripper	18450kg
With front blade & rear ripper	18900kg
RIPPER (OPTIONAL)	
Ripping depth	425mm
Shank supports	5
Shank support spacing	520mm
Working width	2080mm
FRONT BLADE (OPTIONAL)	
Width x height	2740x890mm
Thickness	12mm
Max. lifting height	660mm
Max. digging depth	425mm
DIMENSIONS	
A Overall length: Standard	9700mm
A Overall length: With rear ripper	11050mm
A Overall length: With front blade	10380mm
AOveralllength:Withfrontblade&rearripper	11140mm
BLength:Frontaxletomidtandem	6560mm
C Length: Between tandem axles	1550mm
D Height: Cab	3358mm
E Tread	2155mm
F Width: Outside tires	2600mm
G Moldboard width	3660/3965/4270mm
H Minimum ground clearance	400mm





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Shantui Social

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SHANTUI
LET'SMAKECONSTRUCTIONEASIER

2023-V1.0

SHANTUI

SR12-B6

Road Roller

Engine Model:	Weichai WP4G130E22
Gross Power:	97.5kW @ 2200rpm
Operating Weight:	12,000kg

Focus on soil compaction
road construction expert

SR12-B6 SPECIFICATIONS

ENGINE	
Model	Weichai WP4G130E22
Number of Cylinders	4
Type	4-cycle, Direct Injection, Water-cooled
Aspiration	Turbocharged
Bore x Stroke	105*130mm
Displacement	4.5L
Gross Power	97.5kW @ 2200rpm
Max. Torque	560N.m @ 1400~1600rpm
Rated Fuel Consumption	215g/kW.h
Emission	China-II

POWER TRAIN	
Type	Hydrostatic, All-wheel Drive
Driving Pump	Mechanical Control, Variable Piston Pump 75ml/r
Axle Drive	Variable Piston Motor
Drum Drive	Constant Piston Motor
Tire	23.1-26-8PR/20.5-25-16PR
Max. Grade Ability	48%
Forward,I,II	0~5.3km/h,0~9.9km/h
Reverse,I,II	0~5.3km/h,0~9.9km/h

STEERING	
Type	Hydraulic Power, Articulated Steering
Steering Angle	±33°
Oscillating Angle	±12°
Min. Turning Radius	6400mm

BRAKES	
Service Brake	Hydraulic Inertia Brake
Parking Brake	Multi-disc Brake, Hydraulic Control
Emergency Brake	Hydraulic Inertia Brake & Multi-disc Brake

DRUM	
Width	2130mm
Diameter	1500mm
Drum Shell Thickness	20mm

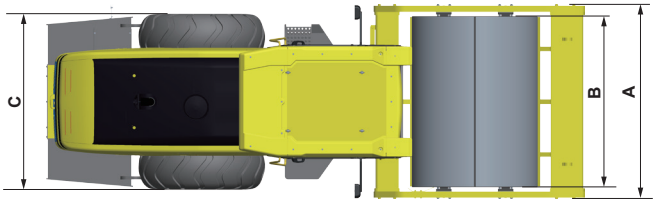
VIBRATION	
Type	Hydrostatic, Electric Control
Vibration Pump	Variable Piston Pump
Vibration Motor	Constant Piston Motor
Frequency, Low	30Hz
Frequency, High	36Hz
Amplitude, High	2mm
Amplitude, Low	1mm
Centrifugal Force,Maximum	290kN
Centrifugal Force,Minimum	200kN

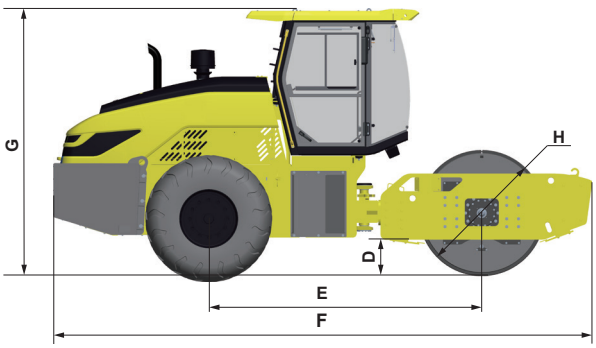
CAPACITIES	
Fuel Tank	260L
Hydraulic Oil Tank	100L
Engine Coolant	17L
Engine Crank Case	11L

ELECTRICAL SYSTEM	
Battery	2x12V, 120Ah
Alternator	28V, 80A
Starter Motor	24V, 6kW

WEIGHT	
Operating Weight	12000kg
Axle Load, Drum	7000kg
Axle Load, Wheel	5000kg
Static Linear Load (at Drum)	327N/cm

DIMENSIONS	CAB
A	2305mm
B	2130mm
C	2180mm
D	360mm
E	3100mm
F	5890mm
G	3160mm
H	1500mm





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