

**Working in a
professional way.**



MACKS Wheelloaders powered by XGMA



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Rollbar/Overhead guard

The Rollbar/Overhead guard is a standard feature of Macks machines. Being ROPS/FOPS-certified, the machine meets the requirements of international safety norms.



Comfortable workplace

At Macks operator convenience begins long before you even start your loader. Via the low climb you can safely and comfortably access your workplace from both sides. The driver's cab meets all requirements of an ergonomically designed workplace.



Securing vehicle power

Our loaders feature a battery cut-off switch, which is easily accessible. This helps you to separate the vehicle power from the battery and to protect your loader with a simple move against unauthorised use.



Operators seat

Macks ensures quick and easy access to the engine, the hydraulic and the electrical system. You can perform standard maintenance and control works on the spot yourself so that your machine will be immediately fit for operation again. This saves costs and increases the life cycle of your machine.



Easy and comfortable

Macks has developed a sophisticated steering mechanism for you. With the ergonomically designed multi-function control stalk you can control the driving directions and the complete kinematics with one hand only. In this way you will not only be able to work precisely but also fatigue-free.



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Adjustable steering column

The adjustable steering column is surveyable and provides all the important data of the machinery to the operator. Pilot lamps and indication instruments supply more safety and view



Security has priority

Needless to say, that all loaders comply with the EU-safety regulations. We even take it a step further: Our loaders have properties that go far beyond these requirements, they are TÜV approved. With our security concept we have created a wide-range solution to ensure your work under secure and reliable conditions.



Robust kinematics

With the amply dimensioned cylinders the loader features a dump function with an enormous breaking load. The entire kinematics system has been designed in such a way to facilitate the quick loading and unloading of your cargo. As a result your working cycles will be shorter and you will be able to complete your tasks more effectively.



Hydraulic locking system

With their standard hydraulic locking system our loaders are extremely flexible when it comes to carrying out a great variety of different tasks. That will make your work easier and more comfortable. The accessories that can be changed without getting off turns your loader into a genuine multi purpose machine.



Perfect articulated steering

Thanks to the heavy duty ball-joints the articulated steering system ensures that the wheels of the loader will be firmly in touch with the ground and extremely flexible in any kind of territory. As the front and the rear end of the vehicle are swinging independently, they provide an optimal traction and can thus better respond to uneven territory.



Good stability

Because of their lower centre of gravity our loaders are secure and always have a good standing even under difficult conditions. This means that even when working on inclined or uneven territory you will always be firmly in touch with the ground and able to operate reliably.



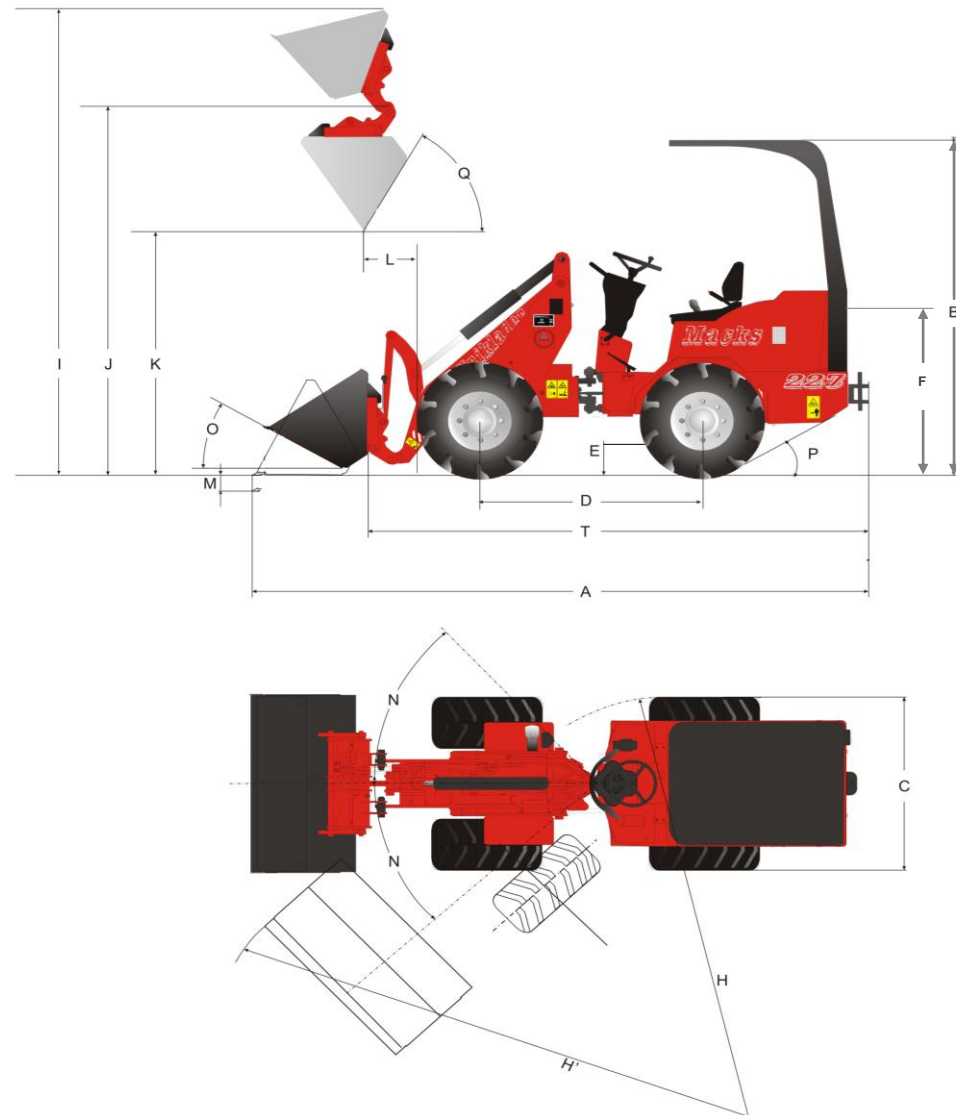
Technical data MACKS Wheelloaders powered by XGMA

Macks wheelloader type	227	333
Technical Data		
Engine data		
Manufacturer	Perkins	Perkins
Engine type	403D-11	403D-15
Cylinder	3	3
Max. power (Hp)	27	33
Engine rotationspeed (rpm)	3000	2800
Capacity (cm³)	1131	1496
Cooling	Water	Water
Electrical system		
Operating voltage	12	12
Weights		
Operating weight (standard with bucket) (Kg)	1810	2400
Tipping loads in bucket (according to ISO 8313)		
Lift frame horizontal / machine straight	897	1300
Lift frame horizontal / machine articulated	590	860
Tipping loads in pallet fork (according to ISO 8313)		
Lift frame horizontal / machine straight	600	950
Lift frame horizontal / machine articulated	400	700
Lift frame at the bottom / machine straight	875	1250
Lift frame at the bottom / machine articulated	575	850
Lift frame at the bottom / machine straight / conterweight 80 Kg	950	
Lift frame at the bottom / machine articulated / conterweight 80 Kg	630	
Lift frame at the bottom / machine straight / conterweight 200 Kg		1500
Lift frame at the bottom / machine articulated / conterweight 200 Kg		1020
Vehicle data		
Driving speed (km/h)	12	20
One or two speeds gear switching under load possible	One speed	Two speed
Capacity of fuel tank	30	65
Capacity hydraulic oil tank	30	40
Hydraulic system		
Hydraulic driving		
Manufacturer	Bosch-Rexroth	Bosch-Rexroth
Output (l/min)	80	80
Working pressure (bar)	300	360
Hydraulic operation		
Manufacturer	Bosch-Rexroth	Bosch-Rexroth
Output (l/min)	32	45
Working pressure (bar)	200	200
Hydraulic steering		
Manufacturer	Bosch-Rexroth	Bosch-Rexroth
Output (l/min)	32	45
Working pressure (bar)	150	150

Macks wheelloader type	227	333
Standard equipment		
Tyres 7.00 - 12 AS	•	
Tyres 10.0/75 - 15.3 AS		•
Hydraulics		
Single-hand control with floating position next to the seat	•	•
Multi-function control stalk	•	•
Front hydro connection DN10	•	•
Hydraulic quickshift system for provided tools	•	•
All-hydraulic articulated steering	•	•
Hydraulic oil cooler (combined cooler)	•	•
Driver's position		
Comfortable seat with safety belt	•	•
Work lamps at the front	•	•
Work lamps at the rear	•	•
Fuel gauge	•	•
Engine-hour indicator	•	•
Adjustable steering column	•	•
Axles		
Brakes		
Drumbrake / Combination hydrostatic	•	
Multiple disk brake in oil bath/Combination hydrostatic		•
Parking brakedrum	•	•
Powertrain		
Planetary end reduction		•
Limited slip differential	•	•
Hydrostatic four-wheel drive	•	•
Pto gear and drive shaft		•
Safety		
Safety bar/canopy ROPS/FOPS certified	•	•
T.U.V. approved	•	•
CE approved	•	•
Seat with safety belt	•	•
Reversing alarm	•	•
Other		
Battery cut-off switch	•	•
Towing hook	•	•

Dimensions MACKS Wheelloaders powered by XGMA

	Macks wheelloader type		227	333
A	Length with standard bucket	mm	3620	4200
B	Height above the safety bar	mm	2300	2450
C	Total width with standard tyres	mm	900	1050
D	Wheel base	mm	1375	1550
E	Ground clearance	mm	170	230
F	Seat height	mm	1150	1200
H	Radius at the outside wheel	mm	1950	2541
H'	Maximum radius	mm	2300	3000
I	Total working height	mm	3500	3630
J	Maximum height bucket pivot point	mm	2750	2950
K	Maximum dumping height	mm	2000	2200
L	Dump range	mm	450	630
M	Digging depth	mm	90	150
N	Steering angle	°	55	45
O	Backroll angle on the ground	°	45	40
P	Max. drive angle	°	22	22
Q	Max. dumping angle	°	45	45
T	Length without accessories	mm	3000	3500



Accessories MACKS Wheelloaders



Manure fork with upper clamp



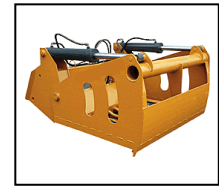
Pallet forks



Standard bucket



Standard bucket with upper clamp



Sillage cutters



Stone bucket with inlay plate



Feed measuring bucket



Earth drill installation



Bale clamp

Thanks to the big quantities of the different accessories parts, the machinery is anywhere applicable.

For all your Earth, gardening, paviour or agrarian activities,

Macks

is your right partner!



Mowing deck



Tile fork



Sweepers



Brick clamp



Kerbstone clamp



Brick clamp



Paver installation system clamp



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All data concern the tested machineries in normal conditions. In the manuals you can find further details. For safety reasons, we recommend to take always in consideration the legal conditions of the legal accident insurance for the operator and the instructions of Macks. These data offer a good description of the concerned machinery and its capacity. However, in some case, they can differ from the rules. Technical changes reserved without previous announcement,