



# LATTRAK



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## MOTOR GRADERS



**RD 130 FHD**



**RD 165C**

**RD 165H**



**RD 200C**

**RD 200H**



[www.lattrak.lv](http://www.lattrak.lv)

## ENGINE

### MISTA RD130FHD

### MISTA RD165C/H

### MISTA RD200C/H

Producent	Cummins		
Model	QSB4.5	QSB6.7-C173	QSB6.7-C190
Type	HP Common Rail, 4-cycled, turbocharged, water cooled, electronically controlled diesel engine	HP Common Rail, 4-cycled, turbocharged, water cooled, electronically controlled diesel engine	HP Common Rail, 4-cycled, turbocharged, water cooled, electronically controlled diesel engine
Power[HP]	130	173	190
Capacity[l]	4.5	6.7	6.7
Torque [Nm] @1500rpm	511	800	929
No of cylinders	4	6	6
Fuel filter	2 staged with pollution indicator	2 staged with pollution indicator	2 staged with pollution indicator

## GEARBOX

### MISTA RD165C/H

### MISTA RD200C/H

Producer	ZF PASSAU GmbH		
Model		6WG160	6WG190
Type	Powershift transmission with integrated torque converter, electronically controlled, automatic operation mode with option to switch on a manual one by pressing a button, controlled with joystick		
No of gears		6/3	6/3

## DRIVE TYPE

### MISTA RD130FHD

### MISTA RD165C

### MISTA RD165H

### MISTA RD200C

### MISTA RD200H

Type	Hydrostatic	Hydrokinetic	Hydrostatic/ Hydrokinetic	Hydrokinetic	Hydrostatic/ Hydrokinetic
No of wheels x Wheels driven	6x6	6x4	6x6	6x4	6x6

## FRONT AXIS

### MISTA RD130FHD

### MISTA RD165C

### MISTA RD165H

### MISTA RD200C

### MISTA RD200H

Wheel leaning [°]	22/22	22/22	22/22	22/22	22/22
Oscilation [°]	15/15	15/15	15/15	15/15	15/15
Wheel steering radius [°]	32/32	32/32	32/32	32/32	32/32
Clearance [mm]	500.0	550.0	550.0	590.0	590.0
Drive	hydrostatic	none	hydrostatic	none	hydrostatic
Front Wheels Drive by POCLAIN HYDRAULICS.					

## DRIVING SYSTEM

	MISTA RD130FHD	MISTA RD165C/H	MISTA RD200C/H
Producer	Hydrostatyczny POCLAIN HYDRAULICS		
Model		MIT02	MIT04
Type	Four hydrostatic engines: 2 units at front axis and 2 units at the rear. Front wheels are driven by the hydrostatic engines directly. Rear wheels are driven by hydrostatic engines via chain-transmission bogie.		
Oscillation angle	17/17	17/17	17/17

## BRAKE SYSTEM

	MISTA RD130FHD	MISTA RD165C/H	MISTA RD200C/H
Type	Hydraulic type, dual-circuited with accumulators to maintain possibility of stopping the vehicle in case of emergency. Independent emergency circuit improves reliability of the system and the operators safety.		
Operating brake	Multidisc type, oil-immersed , acting on all wheels of rear axle		
Parking/ Emergency brake	Multidisc type, oil-immersed, acting on all wheels of rear axle	Disc type, on output shaft of the gearbox	

## TIRES

	MISTA RD130FHD	MISTA RD165C	MISTA RD165H	MISTA RD200C	MISTA RD200H
Size	405/70/R24	16.9-24	16.9-24	17.5-25	17.5-25

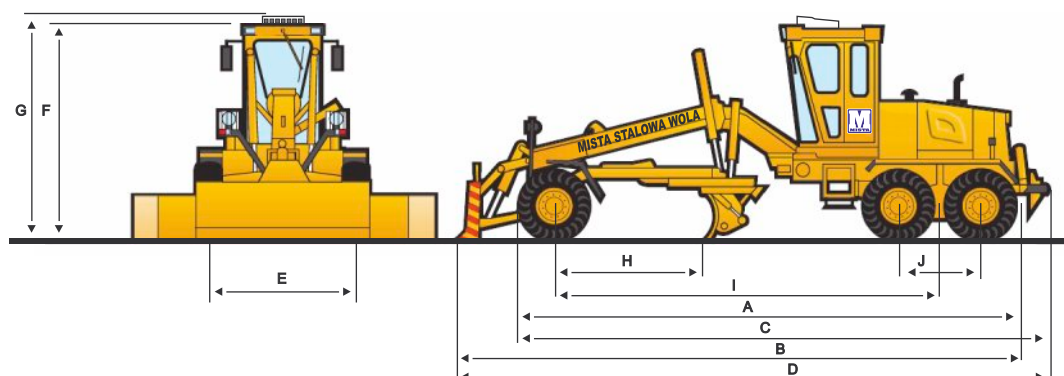
## HYDRAULIC SYSTEM

	MISTA RD130 FHD	MISTA RD165C/H	MISTA RD200C/H
Main pump output [l/min]	97.3	97.3	85
Operating pressure [bar]	140.0	140.0	200
Type	Load sensing system including variable displacement axial piston pump, multi-section control valve and hydraulic lock valves. Pump outlet and load pressure are automatically adjusted according to actual demand for reducing heat generation , increasing efficiency and fuel economy. Load Sensing hydraulics provides the grader with ability of simultaneous performance of several operating motions.		

## CAPACITIES

	MISTA RD130 FHD	MISTA RD165C/H	MISTA RD200C/H
Fuel tank [l]	230	360	380
Cooling system [l]	30	40	40
Hydraulic system tank [l]	109	110	127
Driving system tank [l]	109	60 (ver. H)	55 (ver. H)
Engine [l]	8.5	16.4	16.4
Gearbox [l]	none	35	35
Rear axle [l]	none	8	8.5
Side-bogies [l]	2x27	2x30	2x30
Wheel hubs [l]	none	4x4.0	4x7.5

## DIMMENSIONS AND WEIGHTS



	MISTA RD130 FHD	MISTA RD165C/H	MISTA RD200C/H
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Standard vehicle [kg]	12500	14 300	16 500
Front blade stright [kg]	700	700	700
Front blade angle [kg]	800	800	800
Rear ripper [kg]	800	380	1100
Scarifier [kg]	350	350	350
A [m]	8.5	8.9	9.3
B [m]	9.2/9.4	9.5/9.7	9.8/10.1
C [m]	9.5	9.0	10.5
D [m]	10.2/10.4	9.7/9.9	11.0/11.3
E [m]	2.119	2.120	2.024
F [m]	3.3	3.4	3.38
G [m]	3.5	3.6	3.50
H [m]	2.6	2.6	2.6
I [M]	6.388	6.440	7.070
J [M]	1.485	1.540	1.540

## FRAME AND STEERING

Welded front frame, made of structural carbon steel and the box-section profile rear frame create robust, durable machine meeting customer expectations for withstanding heavy-duty applications. Both frames are jointed with articulation hitch combined with closed bearings and pinions. A mechanical locking pins prevent unintended frame articulation

	MISTA RD130FHD	MISTA RD165C/H	MISTA RD200C/H
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Articulation [deg]	27/27	27/27	27/27
Turning radius [m]	5,9	7.0	7.5

## DRAWBAR AND CIRCLE

One-piece 360° rotatable steel circle is designed to withstand high loads and ensure its durability. All circle teeth are hardened to ensure its reliability and reduce its wear. The A-frame drawbar of a tubular design.

Moldboard rotating system where driving force of the circle comes from two hydraulic cylinders placed on the turntable, and gears. The solution has been developed by Mista Sp. of o.o. and protected by a patent (No. P 371837). The idea of this innovative solution is to ensure immediate implementation of the specified, ordered blade rotation, smooth motion of the tool in association with maintaining high accuracy of works. This solution includes a hydraulic overload protection system with factory adjustable pressure limit. Inserts and slides made of special material improve the reliability and efficiency of the system, extending its lifetime until necessary maintenance has to be performed.



## WORKING ATTACHMENT

### MOLDBOARD

Type	full rotating
Side shift	800 mm
Blade positioning	90/90 °
Pitch	35 °
Lift	500 mm
Depth	350 mm
Width	3650/3660 mm
Hight	620/660 mm
Thickness	16/20 mm

### FRONT BLADE

Length	2500 mm
Height	850 mm
Depth	50 mm
Lift	480 mm

### FRONT BLADE ANGLE

Length	3080 mm
Height	850 mm
Depth	100 mm
Lift	500 mm
Rotation	22°/22°

### RIPPER

width	1500 mm
No of shanks	5-6
Distance between shanks	340 mm
Operating width	1390 mm

### RIPPER HEAVY DUTY

Width	2200 mm
No of shanks	3+6
Distance between shanks	1052/264 mm
Operating width	2200 mm

### SCARIFIER

Width	1260 mm
No of shanks	9
Distance between shanks	150 mm
Operating width	1220 mm

## STANDARD EQUIPMENT

Air cleaner 2-staged, dry-typped w/service indicator  
 A/C operator's cab  
 Alarm, back-up  
 Alternator  
 Axles, planetary type  
 Batteries (2)  
 Beacon light rotating  
 Brakes: hydraulic oil immersed multidisc operating brakes on all wheels of rear tandem, two circuit w/accumulators and spare circuit for parking /emergency purposes;  
 ROPS Cab: sound insulation, windshield and rear window wipers and washers, air blower, two doors  
 Counterweight, front, rear (RD165C/H)  
 First aid kit  
 Steps for easy access to the cab  
 Lockable doors R/L  
 Cooler housing door  
 Adjustable operator's seat with armrests and safety belt  
 Fire extinguisher  
 Steering column adjustable  
 Full rotating grader blade  
 Outside mirrors heated  
 Rear axle w/No Spin differential  
 Radio/CD  
 Transmission: powershift, electronically controlled, with integrated torque converter, manual and automatic mode,  
 6 gears forward and 3 gears reverse  
 Horn  
 Lights acc to traffic regulations  
 Working lights  
 LS hydraulic system  
 Operative function control system  
 Tools kit

## OPTIONAL ATTACHMENT

Central greasing system  
 Counterweight, front, rear (RD130, RD200C/H)  
 FOPS structure  
 Front blade 2500 mm  
 Front angle blade, 3080 mm  
 Front scarifier 9-11 shanks  
 GPS 3D blade positioning control system  
 Laser 2D blade positioning control system  
 LPS 3D blade positioning control system  
 Open ROPS cab  
 Rear ripper 5 shanks (RD165)  
 Rear ripper 6 shanks (RD130)  
 Rear ripper Heavy Duty (RD200)  
 Sonic 2D blade positioning control system  
 Spare wheel  
 Spare wheel grip

