



# MOTOR GRADER ELAZ G20







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Grader is designed for performance of works in construction, roads and air fields repairing and maintenance. Major grounding works are blading and levelling of roadway surface and groundwater control system arrangement. Such earthwork structures are made by grader blade.

For backsloping activities, frame is extended to side position by hydraulic cylinders and fixed as per specified slope grade and depth. Corresponding moldboards are used for grader blade in order to handle triangular and trapezoid section of road ditch.

Grader blade is extended to the side position and fixed as per required angle in order to trim earth fill sloping.

## BREAKTHROUGH TECHNOLOGIES

High tractive force as per hydromechanical transmission and all wheel drive implemented by unique cardan shaft system (torque transmitted to front axle) as well as heavy operating weight allows ensuring grader ELAZ G20 to create constant tractive force that specifies machine as perfectly suitable not only for road and fill construction, as well as for road maintenance, construction of oil and gas pipelines, air fields even at high North conditions.



# SPECIFICATIONS

## Engine

Model	YAMZ-238M2
Type	diesel
Cylinders number and arrangement	V8 (V-shaped)
Cylinder diameter and piston stroke, mm	130x140
Emission class	Euro 0
Nom rating power kWt (h.p.)	176 (240) at 2100 rev/min
Max torque, n*m.	883 at 1100-1400 rev/min
Min oil consumption rate, g/kWh	204

## Transmission

Hydromechanic transmission	ZF
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## Chassis

Tires	16.00-24
Tire inflation, kPa (kgf/sm2)	250±25 (2,5±0,25)

## Electrical equipment

Voltage, V	24 и 12
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## Travel speed

Max (calculated) speed, km/h:	
1st forward gear, km/h	5,84
2nd front gear, km/h	8,98
3d front gear, km/h	14,40
4th front gear, km/h	22,14
5th front gear, km/h	34,46
6th front gear, km/h	52,96
1st reverse gear, km/h	6,16
2nd reverse gear, km/h	15,18
3d reverse gear, km/h	36,31

## Turning radius

Min turning radius, m, no more than	18
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## Braking path

Length of brake at initial speed 32 km/h on level section of solid dry ground	14,2
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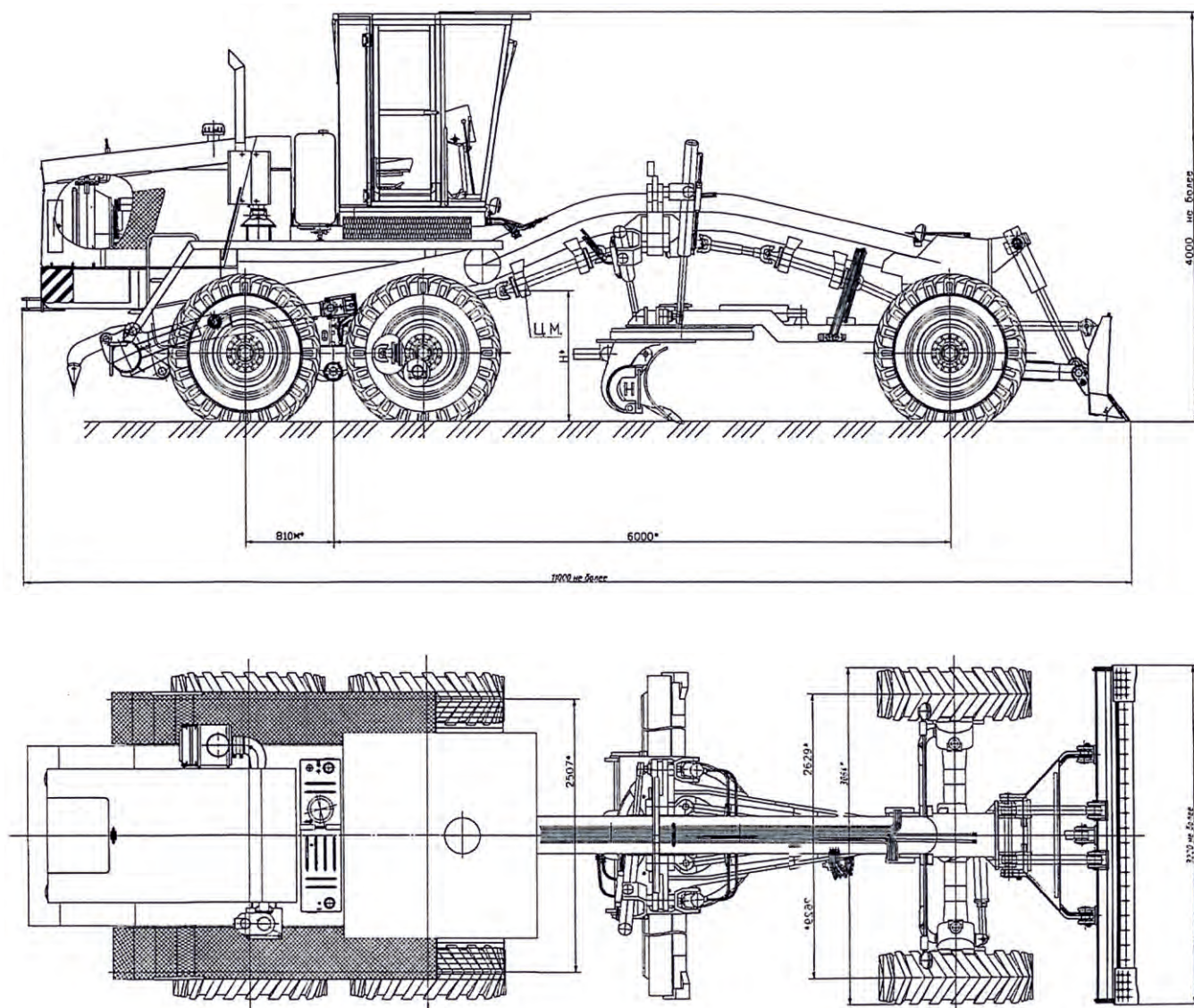
## Weight

Structural mass, kg, no more than:	
- w/o optional equipment	19300
- w/ optional equipment	21300
Operating weight, kg, no more than:	
- w/o optional equipment	19800
- w/ optional equipment	23600

## Filling volumes

Fuel tank, l	450
Engine cooling /initial running system, l	50
Drive gear, l:	
- rear, intermediate axles (each)	7
- переднего моста	15
Final reduction gear, l	8,6
Wheel brake, l	3,6
Hydraulic system, l	150
Angled blade gear, l	3
Antifreezing, l	0,2

## DIMENSIONS



Overall dimensions, mm:

Length (using supplementary operating facilities, bottomed on wheel ground level)

w/ bulldozer and ripper equipment, no more than	11000
straight front blade equipment (straight front blade - at hold position )	11370
w/ snow removal equipment, no more than	13300

Width (grader blade - at carry position, straight front blade - at hold position), no more than

	3250
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Height (w/o warning beacons), no more than

	4000
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Dimensional specifications, mm

	6000
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Front track, mm

	2629
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Rear track, mm

	2507
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Ground clearance (at a pressure of tires 0,25 MPa (2,5 kgf/sm<sup>2</sup>), mm:

- under front axle	615
- under rear axle	440
- under rear suspension	395
- under blade (at carry)	350



## FACILITIES

### Grader blade

Blade length, mm, not less than	4100
Height of moldboard with blades, mm, not less than	700
Shear angle	40-70°
Side angle:	
- full-swinging blade	0-360°
- straight blade group from the position perpendicular to longitudinal axis	0±64°
Sloping off angle	0-90°
Lateral offset of blade towards drawbar, mm, not less than	900
Blade lowering (lower than grounding line), mm, not less	500

### Work tools control

Power take-off to pump drive gear box	independent
Pressure in hydraulic system, MPa (kgf/sm <sup>2</sup> )	10 (100)



## ATTACHMENTS



**Front straight blade**



**Front straight blade**



**Front-mount dozer blade**



**Frount-mount rigid dozer blade**



**Rear ripper**



**Lateral attachment**

- The illustrations of the machine may show additional equipment installed on request, or may not be standard equipment.
- Manufacturer reserves the right to make changes to the above specifications without notice.

#### CONTACT DETAILS

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