



Motor Grader BG 240 T-4 (6x4) / **BG 240 TA-4** (6x6)

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BG 240 T-4 (6×4) BG 240 TA-4 (6×6)

Drivers cab tiltable for easy service



Hydrostatic front wheel drive as option available

The BG 240 is one of the most powerful graders worldwide. Its hydrodynamic tandem drive provides an extremely high torque at the four rear wheels for starting and guarantees excellent acceleration even under full load. In combination with the hydrostatic front wheel drive (AWD), it can handle the heaviest jobs without difficulty. When the ground conditions are very difficult, the standard installed differential lock can be engaged on the front and rear axle to prevent spinning of the wheels. This makes the machine ideal for difficult jobs on building sites as well as for maintenance work on unpaved roads in complicated environmental conditions and for other extremely heavy grader work.

There is more to it than that: With our drive philosophy we account for the demand on flexibility with high-speed grader works. By applying the torque converter lock-up (optional), the BG 240 changes into a machine with direct mechanical drive without conversion loss in the drive line. Its travelling performance with a maximum speed of about 50 km/h in this mode speaks for itself.

Now, with the BG 240, complicated shifting and controlling by the operator are things of the past. After selecting the required mode, the grader is able to adjust automatically to the requirements of the particular operating mode. The grader is alternatively equipped either with NAIS (rods) or with joystick controls. Good panoramic view and ergonomically designed controls further facilitate





Moldboard width up to 16 ft (4.88 m)

the operator's work either in the standard cabin or the optional low-profile cab. The easy to operate tilting system of the cabin is one of the special characteristics of the BG 240, not just because of its good serviceability.

With the powerful moldboard, the grader has the prerequisite for its high performance. Based on our decades of experience in building graders, for developing the BG 240 we directed our special attention on high shifting speed and long outreach of the moldboard. With its

optional moldboard width of 16 feet (4.88 m), the BG 240 can fully utilize all of its traction power and can provide extremely high yardage. The closed roller mounted slewing ring which is unique in this grader class ensures precise work and guarantees levelling tolerances accurate to the millimetre.

Despite of 23 tonnes of service weight, the BG 240 is a distinctly compact machine. Fully hydraulic front wheel steering, articulated frame steering, excellent clarity and incomparable accelerating and pushing force make the machine to be an extremely manoeuvrable and powerful machine. Referred to other graders of its class, it is a truly highperformance grader.





Engine Data

Make/Model	CUMMINS/diesel engine
Тур	4 cycle, direct injection, turbo charged, water-cooled,
Rated ned ho	orsepower (SAE J 1995) at 2200 rpm 164 kW/223 HP
	at 2000 rpm 172 kW/234 HP
No. of cylinde	ers in line 6



107 x 124 mm 6.7 litres

Displacement Engine equiped with a dual element, dry-type air cleaner with dust ejector. 24 volt starting and electrical system. 70 amp alternator and 24 volt starter with 3.7 kW (5,0 HP).

2 batteries 100 Ah each.



Operating Weight

Total weight On rear wheels On front wheels

approx. 23 000 kg approx. 17 000 kg approx. 6 000 kg

Weights shown include cab, all operating fluids, HD rear ripper, front dozer blade.



All Wheel Drive System

Hydrodynamic rear axle drive with 6-speed Ergopower transmission and torque converter as well as freely selectable microprocessor controlled hydrostatic front axle drive. Power train is controlled appropriate to tyre traction of front and rear wheels.



Rear Axle Drive System

Hydrodynamic rear axle drive with 6-speed Ergopower transmission (make ZF 6 WG) and torque converter.



Speeds (all wheel drive and rear axle drive systems* with tyres 20.5 R25)

Forward	km/h
1.	5.00
2.	8.00
3.	13.00
4.	20.00
5.	30.00
6.	47.00
Reverse	
1.	5.00
2.	13.00
3.	32.00
Acoustic back up alarm in reverse driving	

Acoustic back up alarm in reverse driving.

* Speed with torque converter lock-up, permitted max. speed may vary depending on national regulations.



Rear Axle

Oscillating tandem axle. Lock-on/Lock-off differential 100%. Multi-disc brakes in all four wheel hubs. Parking brake at tandem axle.



Tandems

Drive via roller chains.	
Torsion-proof box sections.	
Height	580 mm
Width	208 mm
Thickness of walls	25 mm
Wheel base	1632 mm
Oscillation	±15°
Ground clearance	520 mm

Wheels & Tyres

Tvre size Rim size

17.5 R25 radial 14 x 25/1.3



Service brake

Dual-circuit, power-boosted, multi-disc oil-bath type, effective on four wheels. Includes reserve power and operator warning system.

Parking brake

Independent electrically operated, acting on rear axle. Hydraulic spring accumulated multi disc type.

Front Axle

2 types are available

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Oscillation	15° up and down
Steering angle	45°
Wheel lean	±17°
Ground clearance	591 mm

Non driven with wheel lean (T version) Stable welded steel beam with wheel lean

Driven with wheel lean (TA version)

Stable welded steel beam with wheel lean and radial piston engines in wheel hubs. Pull force electronically adjustable (infinitely variable).

Possibility to fit in the hydraulic differential lock.

Steering

Hydraulic power steering.	
Minimum turning radius without dozer blade	7700 mm
Minimum turning radius with dozer blade	8600 mm
Steering angle	45°

Frame

Front and rear frame sections connected with an adjustment free articulated pin.

Front: Fully welded box section	
Minimum dimensions of box section	300 x 310 mm
Plate thickness	25 mm
Rear: Fully welded section	
Dimensions (solid main bars)	510 x 90 mm
Hydraulic articulated frame steering (left & right)	30°





Circle (closed version)

Hardened teeth, machine-cut on inside of circle for maximum strength and maximum wear. The circle is held positively in place by an adjustment free roller bearing.

Circle diameter

Tool width

Height



360°



Circle Drive

Hydraulically driven worm gear transmission. Circle drive system fully protected against impact damage by an overload clutch.

Rotation



Drawbar

Y-shaped fully welded construction.	
Dimensions (solid sections)	40 x 210 mm



Moldboard (standard)

Moldboard (14 ft)	4267 x 660 x 3	20 mm (14' x 26,0)" x 0,8")
Blade material		High car	bon steel
Blade pull at a friction	factor of 0.8	BG 240 T-4	124 kN
		BG 240 TA-4	154 kN

Blade Range

Reach outside tyres without articulation (RH&LH)

	2600 / 1800 mm
Reach outside tyres with articulation (RH&LH) to	blade resting on
levelled surface	3430 / 2630 mm
Blade side shift	1250 mm
Blade tilt range	36°-76°
Bank sloping angle (RH&LH)	90°
Lift above ground	510 mm
Cut below ground	590 mm
Distance blade / front axle	2719 mm
All blade movements and positions can be cont	rolled from the
operator´s seat.	

Operator's Platform

Dimensions	
Widht	1150 mm
Depth	1400 mm
Available with various options as listed under "Option	nal equipment".



Light Equipment

2 head lights at the front, every 2 indicator lights (including hazard warning lights) at the front and rear, 2 rear lights, 2 brake lights, 1 backup light plus every 2 working lights at the top and bottom at the front of the cab, 2 working lights at the top at the rear of the cab, and 2 tail lights on the sides.

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Fuel	515.0 litres
Hydraulic oil	170.0 litres
Engine oil	18.0 litres
Ergopower transmission	35.0 litres
Axle drive, rear	27.5 litres
Planetary gears, front (BG 240 TA-4)	3.6 litres
Planetary gears and brakes	27.0 litres
Tandem (2 x 21 litres)	42.0 litres
Circle drive	9.0 litres
Coolant	38.0 litres



Load-Sensing Hydraulics

The control valves of the working hydraulics may be actuated at a time and independent of each other. The load-sensing pump (axial piston pump) discharges only the required quantity of oil, if a control valve is actuated. When hydraulic power is not required system pressure is only 24 bar and ensures low oil temperature und fuel saving.

Lock valves and brake valves prevent a cylinder drift under load.

Operating pressure	225 bar
Oil flow, max.	99 l/min



Optional Equipment

Cab, standard, tiltable

Integrated ROPS/FOPS cab mounted on isolators to limit vibration and noise entering the cab. Excellent all-round visibility. Roomy and comfortable. Adjustable steering pedestal with NAIS (rods) control lever arrangement. Interior of cab fully lined, floor covering. Tinted safety glass windows, sliding doors left and right with lockable intermediate positions, fresh air heating with pre-filter, air circulation. Adjustable, mechanical spring mounted driver's seat with safety belt. One inside mirror and two folding outside mirrors.

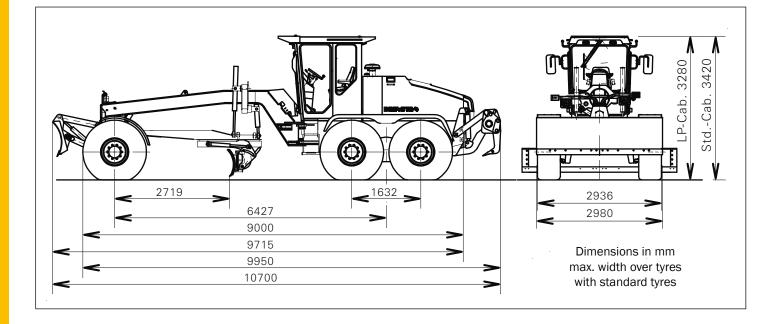
Front window washer. Wipers front and rear. Blinds front and rear.

Height / Width / Depth		1980 / 1470 / 1700 mm	
Cab, low-profile, tiltable			
Height / Width / Depth		1760 / 1470 / 1700 mm	
EP control panel (Joystic	k controls)		
Air-condition for cab			
Heatable rear view mirro	rs		
Auxilliary heating			
Beacon (orange)			
Air-cushioned driver's sea	at		
Recording speedometer			
Cooling box			
Stereo radio with CD-play	yer		
Sliding side windows			
Protective grids for lights and cabin			
Malala and (10 ft)	4077 000 0		

Moldboard (16 ft)4877 x 660 x 20 mm (16' x 26,0'' x 0,8'')Cover plate for upper guide rail of moldboard



Adjustable moldboard corner shoes, left or right		Push-Pull block, in front	926 kg	
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Moldboard extension, left or right (1 ft)	305 mm	Mudguards	on front wheels	
Float position for both moldboard lift cylinders		Mudguards	on rear wheels	
Electric fuel pump with automatic switch-off		Protective cover for powershift transmission		
Towing device, tiltable		Biological Oil in hydraulic system		
Wheels and tyres		Articulation angle indicator		
Tyre size	17.5-25 diagonal	Fuel tank pump with automatic switch-off		
Rim size	14.00 x 25/1.3	Special paint		
Tyre size	20.5 - 25 diagonal	Ergopower transmission with torque converte	r and lock-up clutch	
Rim size	14.00 x 25/1.3	Tool kit, wheel chocks, warning triangle, fire extinguisher, first aid kit etc.		
Tyre size	20.5 R25 radial			
Rim size	14.00 x 25/1.3	Automatic blade control Various 2D / 3D / GPS-systems		
Front dozer blade with position indicator, parallel guided				
Width / Height	2980 x 950 mm	CE certificate		
Cut below ground	110 mm	Speed limitation at 20 km/h possible		
Lift above ground	560 mm			
Weight	950 kg			
Heavy-duty rear ripper with depth indicator, 6 teeth				
Ripping width	2120 mm			
Ripping depth	270 mm			
Lift above ground	570 mm			
Weight	1529 kg			







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Edition 04/16 Technical data are subject to alteration.