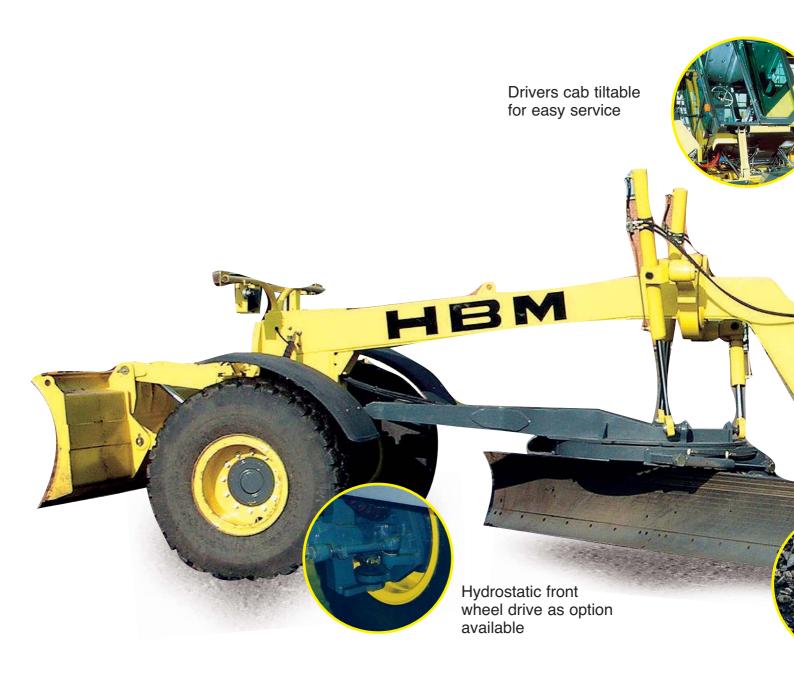


# BG 240 T-4 (6 x 4) / BG 240 TA-4 (6 x 6)

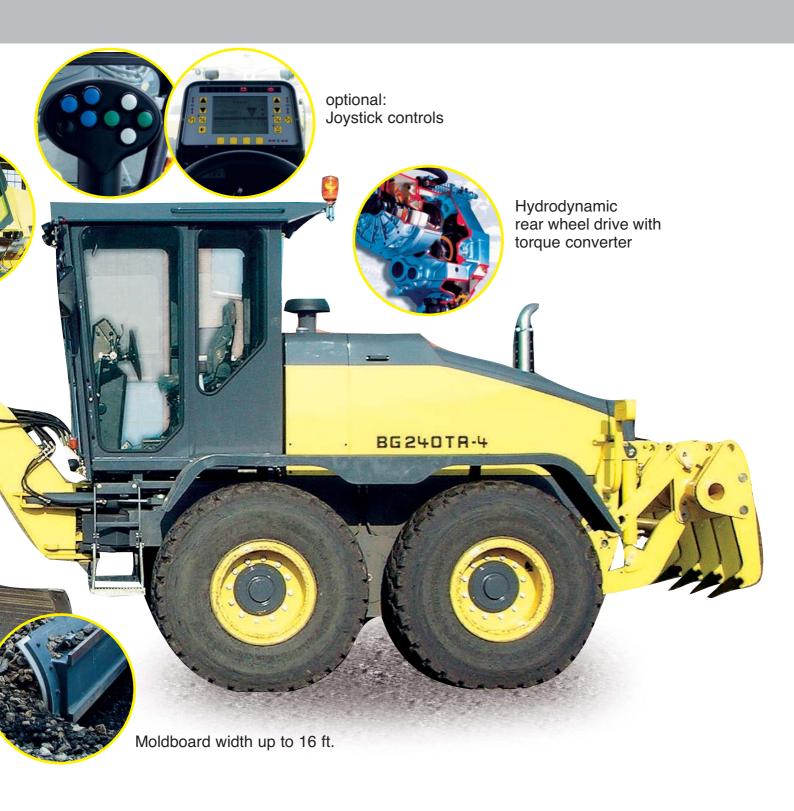


The BG 240 is one of the most powerful graders worldwide. Its hydrodynamic tandem drive provides an extremely high torque at the four rear wheels for starting and guarantees excellent acceleration even under full load. In combination with the hydrostatic front wheel drive (optional), it can handle the heaviest jobs without difficulty. When the ground conditi-

ons 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 panora-



mic view and ergonomically designed controls further facilitate 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 mouldboard, 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 mouldboard. With its optional mouldboard width of 16 feet (4.88 m), the BG 240 can fully utilize all of its traction power and can provide extremely high yar-

dage. The roller mounted slewing ring (optional), 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 high-performance grader.





# **Engine Data**

Make/Model CUMMINS / diesel engine
Typ 4 cycle, direct injection, turbo charged, water-cooled,
Rated ned horsepower (SAE J 1995) at 2200 RPM 164 kW/223 HP
at 2000 RPM 172 kW/234 HP

No. of cylinders in line 6
Bore & stroke 107 x 124 mm
Displacement 6,7 litres

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 approx. 23 000 kg
On rear wheels approx. 17 000 kg
On front wheels 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 for all wheel drive and rear axle drive systems $^{*}$ (tyres 20.5 R25)

(1)100 20.0 1 (20)	
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.

<sup>\*</sup> 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

Tyre size 17.5 R25 radial Rim size 14 x 25/1.3



#### **Brakes**

#### Service brake

Dual circuit, power-boosted, multiple-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

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

Hardened teeth, cut on inside of circle for maximum strenght and minimum wear. The circle is held positively in place at four points by four clamps and guide shoes. The clamp and guide shoes are located where greatest loading occurs.

Diameter 1510 mm
Thickness 40 mm
Height 110 mm
Adjustable shoes and clamps 4



#### Circle drive

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

Rotation 360°



#### Drawbar

Y-shaped fully welded construction. Dimensions (solid sections)

40 x 210 mm



# Moldboard (Standard)

Moldboard (14 ft)

Blade material

Blade pull at a friction factor of 0,8

BG 240 T-4

BG 240 TA-4

BG 240 TA-4

BG 240 TA-4

BG 240 TA-4

BG 240 TA-6

BG 240 TA-7

BG 240 TA



#### Blade Range

Reach outside tyres without articulation (RH&LH)

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



## **Operator's Platform**

#### **Dimensions**

operator's seat.

Widht 1150 mm Depth 1400 mm

Available with various options as listed under "Optional equipment".



# Capacities

Fuel tank	515,0 litres
Hydraulic oil tank	150,0 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



## Light Equipment

2 headlights front, 2 direction indicator lights each (including warning signal flasher) front and rear and additional 2 at cab, 2 tail lights, 2 stop lights, 1 back-up light, clearance lights, 2 working lights rear, 2 working lights front each at lower and upper edge of cab.



# **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 this low standby pressure improves fuel-efficiency and reduces heat generation.

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

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



## **Optional Equipment**

#### Standard-Cab, 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 lok-kable 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.

Hight / Width / Depth 1980 / 1470 / 1700 mm

Low-profile cab, tiltable

Hight / Width / Depth 1760 / 1470 / 1700 mm

EP control panel (Joystick controls)
Air-condition for cab
Heatable rear view mirrors
Auxilliary heating
Beacon (orange)
Air-cushioned driver's seat
Recording speedometer
Cooling box
Stereo radio with CD-player
Sliding side windows
Protective grids for lights and cabin



#### Circle Drawbar

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. Drawbar fully welded solid section in "Y"-design.

Circle diameter 1510 mm
Tool width 83 mm
Height 130 mm

 Moldboard (13 ft)
 3962 x 661 x 20 mm

 Moldboard (16 ft)
 4876 x 661 x 20 mm

Cover plate for upper guide rail of moldboard

Adjustable moldboard corner shoe, left or right

Moldboard extension, left or right (1 ft) 305 mm

Float position for both moldboard lift cylinders

Electric fuel pump with automatic switch-off

Towing device, tiltable

#### Wheels and tyres

Tyre size	17.5-25 diagonal
Rim size	14.00 x 25/1.3
Tyre size	20.5 - 25 diagonal
Rim size	14.00 x 25/1.3
Tyre size	20.5 R25 radial
Rim size	14.00 x 25/1.3

Heavy-duty rear ripper, with depth indicator6 teethWidth2120 mmRipping depth270 mmLift above ground570 mmWeight1529 kg

Front dozer blade, with position indicator

Width / Height 2980 x 950 mm
Cut below ground 110 mm
Lift above ground 560 mm
Weight 950 kg

Scarifier in front of front axle

Mudguardson rear wheelsMudguardson front wheels

Protective cover for powershift transmission

Biological Oil in hydraulic system

Articulation angle indicator

Fuel tank pump with automatic switch-off

Special paint

Lock up clutch for torque converter

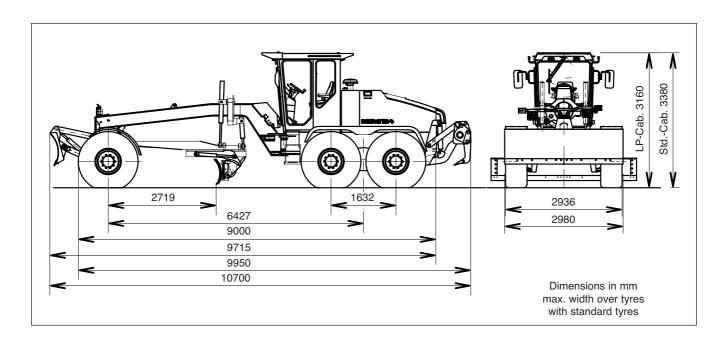
Tool kit, wheel chocks, warning triangle, fire extinguisher, first aid kit etc.

**Automatic blade control** 

Various automatic laser or ultrasonic controlled blade systems

**CE** certificate

Speed limitation at 20 km/h possible





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