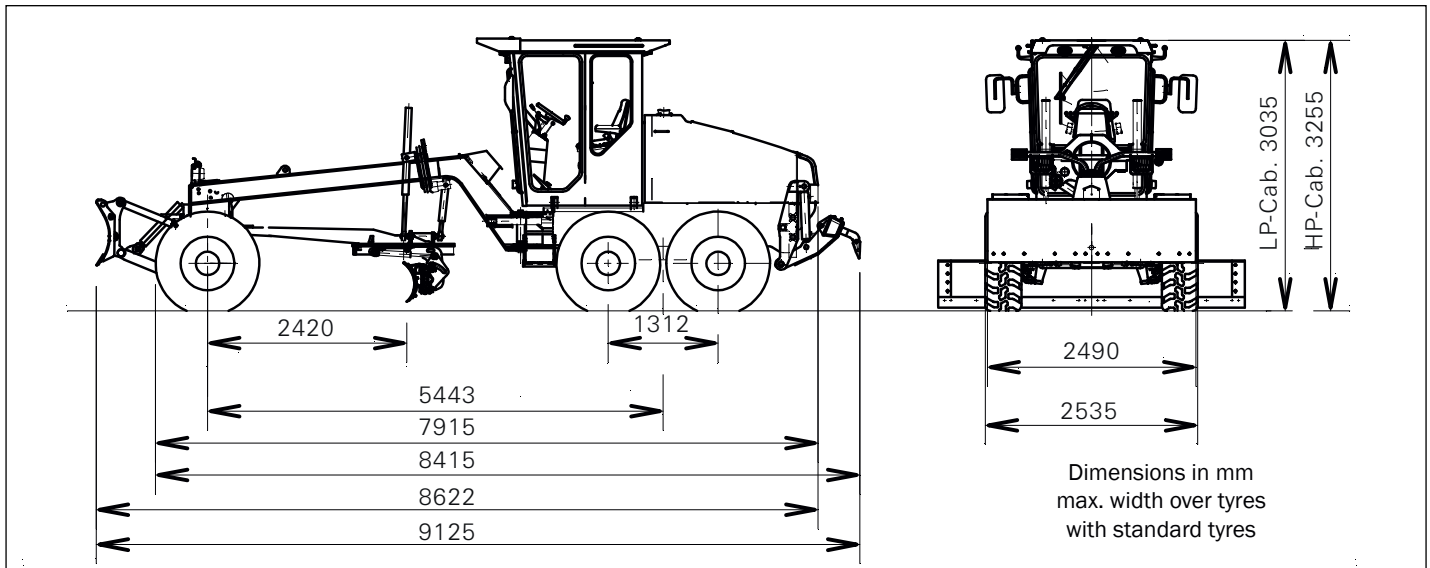




Motor Grader

BG 130 T-4 (6x4) / BG 130 TA-4 (6x6)



Engine Data

Make/Model	PERKINS/diesel engine
Type	4 cycle, direct injection, turbo-charged, water-cooled intercooled
Rated net horsepower (ISO/TR 14396) at 2200 rpm	96 kW/131 HP
	at 2000 rpm 107 kW/146 HP
No. of cylinders	in line 6
Bore & stroke	105 x 127 mm
Displacement	6.6 litres

Engine equipped with dual element, dry-type air cleaner with dust ejector. 24 volt starting and electrical system. 80 amp alternator and 24 volt starter with 4,5 kW (6,1 HP). 2 batteries 70 Ah each.



Speeds

(all wheel drive and rear axle drive systems)

	km/h
Forward	
1.	5.0
2.	7.0
3.	12.0
4.	19.0
5.	28.0
6.	40.0
Reverse	
1.	6.0
2.	14.0
3.	32.0

Acoustic back-up alarm in reverse driving



Operating Weight

Total weight	approx. 13900 kg
On rear wheels	approx. 9800 kg
On front wheels	approx. 4100 kg

Weights shown include cab, all operating fluids, rear ripper (width 2120 mm), front dozer blade.



Rear Axle

Oscillating tandem axle with axle insert.
No-Spin differential.
Multi-disc brakes in all four wheel hubs.
Parking brake at powershift transmission.



All Wheel Drive System

Hydrodynamic rear axle drive with 6-speed Ergopower transmission and torque converter (make ZF 6 WG) with freely selectable micro-processor controlled hydrostatic front axle drive. Power train is controlled appropriate to tyre traction.



Tandems

Drive via roller chains.
Torsion-proof box sections.

Height	545 mm
Width	178 mm
Thickness of walls	20/20 mm
Wheel base	1312 mm
Oscillation	±15°
Ground clearance	350 mm



Rear Axle Drive System

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



Wheels & Tyres

Tyre size	455/70 R24 radial
Rim size	13.00 x 24



Brakes

Service brake

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

Parking brake

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



Front Axle

2 types are available

Oscillation	15° up and down
Steering angle	45°
Wheel lean	±17°
Ground clearance	580 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.

Radial piston engines in wheel hubs.

Pulling power electronically adjustable (infinitely variable depending on surface conditions.).

Possibility to fit in the hydraulic differential lock.



Steering

Hydraulic power steering	
Minimum turning radius without dozer blade	6600 mm
Minimum turning radius with dozer blade	7250 mm
Steering angle	45°



Frame

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

Front: Fully welded rear box section.

Minimum dimensions of box section	240 x 240 mm
Plate thickness	20/12 mm

Rear: Fully welded rear frame

Dimensions (solid main bars)	415 x 60 mm
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Hydraulic articulated frame steering (left & right)	30°
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Circle (closed version)

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

Diameter	1348 mm
Tooth width	78 mm
Height	130 mm
Distance blade/front axle	2420 mm



Circle Drive

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

Rotation	360°
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Drawbar

A-shaped fully welded construction.

Dimensions (solid sections)	30 x 170 mm
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Moldboard (standard)

Moldboard (11 ft)	3355 x 505 x 15 mm (11' x 19,9" x 0,6")
Blade material	High carbon steel
Blade pull (at a friction factor of 0.8)	BG 130 T-4 77.6 kN BG 130 TA-4 97.6 kN



Blade Range

Reach outside tyres without articulation (RH&LH), blade resting on levelled surface	2050 mm / 1200 mm
Reach outside tyres with articulation (RH&LH), blade resting on levelled surface	2530 mm / 1680 mm
Circle shift	1140 mm
Blade side shift	1000 mm
Blade tilt range	40° - 80°
Bank sloping angle (RH&LH)	90°
Lift above ground	495 mm
Cut below ground	365 mm
Distance blade/front axle	2420 mm

All blade movements and positions can be controlled from the operator's seat.



Operator's Platform

Dimensions	
Width	1150 mm
Depth	1400 mm

Available with various options as listed under "Optional equipment", moldboard control acc. to EURO standard.



Capacities

Fuel	220.0 litres
Hydraulic oil	200.0 litres
Engine oil	18.0 litres
Ergopower transmission	30.0 litres
Axle drive rear	13.5 litres
Planetary gears and brakes	4 x 4.0 litres
Tandem case (2 x 18 litres)	36.0 litres
Circle drive	6.0 litres
Coolant	33.0 litres



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.



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	205 bar
max oil flow	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 EURO 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.

Hight / Width / Depth	1980 / 1470 / 1700 mm
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Cab, low-profile, tiltable

Hight / Width / Depth	1760 / 1470 / 1700 mm
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NAIS control panel (rods)

EP control panel (Joystick controls)

Air-condition for cab

Auxiliary heating

Heatable rear view mirrors

Beacon (orange)

Air cushioned drivers' seat

Recording speedometer

Cooling box

Stereo radio with CD-Player

Sliding side windows

Protective grids for cabin and lights

Moldboard (10 ft)	3050 x 505 x 15 mm (10' x 19,9" x 0,6")
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Moldboard (12 ft)	3660 x 505 x 15 mm (12' x 19,9" x 0,6")
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Cover plate for upper guide rail of moldboard

Moldboard extension, left or right (1 ft)	305 mm
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Adjustable moldboard corner shoes, left or right

Float position for both moldboard lift cylinders

Wheels and tyres

Tyre size	13.00 - 24 diagonal
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Rim size	10.00 x 24
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Tyre size	405/70 R24 radial
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Rim size	13.00 x 24
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Other tyres on request.

Front dozer blade with position indicator, parallel guided

Width/Height	2490 x 720 mm
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Cut below ground	120 mm
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Lift above ground	560 mm
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Weight	765 kg
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Rear ripper with depth penetration indicator, 4 teeth (max. 7)

Width	2120 mm
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Ripping depth	260 mm
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Lift above ground	450 mm
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Weight	610 kg
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Push-Pull block, in front

556 kg

Mudguards

on front wheels

Mudguards

on rear wheels

Protective covers for transmission in different versions

Biological Oil in hydraulic system

Articulation angle indicator

Fuel tank pump with automatic switch-off

Special paint

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

Automatic blade control

Various 2D / 3D / GPS systems

CE certificate

Speed limitation at 25 km/h possible

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