

# GR180

Motor Grader



Operate Weight: 33957 lb

Engine Power: 180 hp



**INTENSUS**



# GR180

SERIES  
MOTOR GRADER



## SPECIFICATIONS

### MAIN FEATURES

180HP Diesel Engine 6 Speed Power Shift  
Transmission 2 Drive Axles with no spin  
differentials Rexroth Service Brakes Frame  
Articulation High Visibility Enclosed Cab All  
Hydraulic Blade Functions

### WEIGHT

Weight with standard equipment  
Operating weight 15,400kg (33,957lb)  
Weight on front axle 4,620kg (10,187lb)  
Weight on rear axles 10,780kg (23,769lb)  
Weight to be adjusted by addition of optional  
equipment

### WORKING CAPABILITY

Maximum drawbar pull 81kN



### ENGINE

Cummins Engine Co.  
Model C8.3-C180  
Power 132kw / 180hp  
Max. Torque at 1,610rpm 678Nm



### BRAKES

Foot Operated Hydraulic Brakes on 4 Rear Wheels  
Multi-Disk Brakes running in Oil Bath for Long Life  
Mechanical Parking brake  
Transmission Output shaft



### TRANSMISSION

Model ZF6 WG200 Powershift transmission  
with Electric/Hydraulic shift

6 Forward Speeds

1st gear 5 km/h (3.1 mph)  
2nd gear 8.5 km/h (5.3 mph)  
3rd gear 11km/h (6.8 mph)  
4th gear 19 km/h (11.8 mph)  
5th gear 23.5 km/h (14.6 mph)  
6th gear 38.5 km/h (23.9 mph)

3 Reverse Speeds

1st gear 5km (3.1 mph)  
2nd gear 11km/h (6.8 mph)  
3rd gear 23.5 km/h (14.6 mph)

### FINAL DRIVE

Meritor Rear Axle with limited slip differential  
Tandem Chain Drive Rear Wheels

### FRONT AXLE

Heavy Duty Articulating design  
Steering Angle  $\pm 45^\circ$   
Inclined Angle  $\pm 17^\circ$   
Swinging Angle  $\pm 15^\circ$   
Clearance 630mm (24.8in)



### STEERING

Fully Hydraulic load sensing steering system  
and Articulating frame providing excellent  
maneuverability

Articulating Steering Angle  $\pm 25^\circ$   
Min. Turning Radius 7.8m (25.6ft)



## HYDRAULIC SYSTEM

Dual pump circuit for separate steering and

Blade functions

Steering - Fully hydraulic Load sensing

Working functions - Duplex gear pump featuring  
2 integral Five-way multiplex change valves

## CIRCLE

High strength Welded Construction with  
replaceable nylon wear strips 360° Rotation  
Fully Sealed Hydraulic motor and gear box

## FRAME

High Strength welded box construction

Articulated for maneuverability

High strength welding by state of the art robotic  
welders



## ELECTRICAL SYSTEM

24 Volt System

2-12 Volt Batteries in Series 135 A/H each

## MOLD BOARD

Blade dimensions:

Length 3965mm (156in.)

Height 610mm (24in.)

Working data:

Cutting depth 500mm (19.7in.)

Sloping angle 90°

Max. lift above ground 450mm (17.7in.)

Max. shoulder reach left/right 700mm (27.6in.)



## CAB

Fully enclosed high visibility cab

Optional air conditioning

Adjustable control console

Adjustable suspension seat

Unique diamond shaped cab with large glass  
area for exceptional visibility of blade.

Designed with operator comfort  
and productivity in mind

## OPTIONAL EQUIPMENT

Air conditioning

AM/FM Radio

Rear ripper

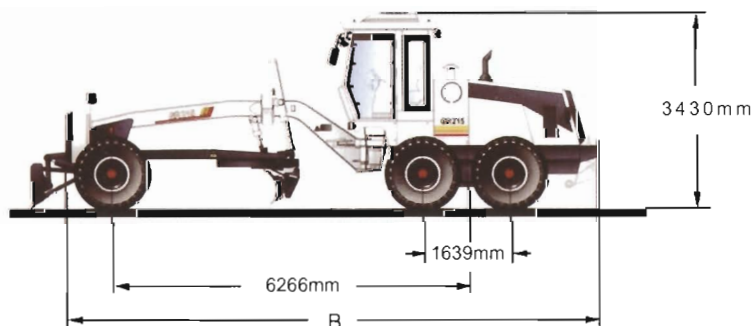
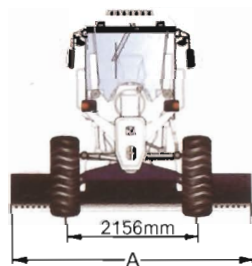
Front dozer blade

Automatic leveling unit MOBA or  
TOPCom

Rolling Plate mechanism

Front Dozer Blade

### ■ DIMENSIONS



	GR180	GR215
A	3965mm	4270mm
B	9298mm	9422mm



# GR

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