

# 985 MOTOR GRADER

CUMMINS 6BTAA 5.9 - 173 C ENGINE | SIX FORWARD, THREE REVERSE  
AUTOMATIC POWER - SHIFT TRANSMISSION | NO-SPIN DIFFERENTIAL  
TANDEM AXLE | 15,500 KG OPERATING WEIGHT | 12 - FEET MOLDBOARD  
ERGONOMICALLY DESIGNED CABIN WITH HVAC & EXCELLENT VISIBILITY  
CENTRALIZED ELECTRONIC GAUGE DISPLAY

# LeeBoy



**Unmatched Power, Performance & Productivity**

**MOTOR GRADERS | CRAWLER EXCAVATORS | BACKHOE LOADERS | CONCRETE BATCHING PLANTS | DRILL RIGS**

**BUILTBY**

LISTENING  
KNOWLEDGE  
EXPERTISE



# 985

## MOTOR GRADER

LeeBoy Motor Graders are all about high torque, performance and reliability. This cutting edge technology is powered to do anything from building a road and cutting a ditch to moving earth, doing site work and fine grading.

### ENGINE

**Model:** Cummins 6BTAA 5.9C – 173  
**Type:** Four Stroke, Turbo Charged (BSIII Complaint)  
**Cylinders:** 6 in-line  
**Bore/ stroke:** 4.01 in x 4.73 in (102 mm x 120 mm)  
**Displacement:** 360.04 in<sup>3</sup> (5.9 ltr)  
**Maximum net torque:** 650 Nm @ 1500 rpm  
**Gross power @ 2200 rpm:** 173 Hp

### TRANSMISSION

**Type:** Automatic Power - Shift Transmission. Direct Drive(ZF). Integrated torque convertor, lock up clutch and stator freewheel with an Electronic Control Unit (ECU)  
**Speeds:** 6 Forward - 3 Reverse

Shift Position (km/hr)					
Forward			Reverse		
1 <sup>st</sup>	5.2	4 <sup>th</sup>	19.2	1 <sup>st</sup>	5.5
2 <sup>nd</sup>	8.1	5 <sup>th</sup>	28.8	2 <sup>nd</sup>	13.1
3 <sup>rd</sup>	12.4	6 <sup>th</sup>	44.5	3 <sup>rd</sup>	30.4

### SERVICE CAPACITIES

**Fuel tank:** 300 ltr  
**Hydraulic system:** 100 ltr  
**Engine oil:** 15 ltr  
**Radiator:** 21 ltr



### REAR AXLE

**Make:** Oerlikon Graziano  
**Type:** Heavy duty tandem axle with central planetary reduction with no spin differential. All four wheel hubs are fitted with maintenance free, oil immersed Disc Brakes

**No of discs/ brake:** 5

**Tandem type:** Fully welded steel structures for torsional strength, Oscillates on a single centre pivot pin.

### FRONT AXLE

**Type:** Fully welded steel structures for torsional strength

**Oscillation:** 10° on each side

**Wheel lean:** 17° on each side

**Wheels & tyres:** 14 x 24" 12-ply rating

### ARTICULATION

**Type:** Hydraulic actuated

**Range:** 20° left/ right

**Controls:** Hydraulic



# TECHNICAL



## HYDRAULICS

<b>System:</b>	Closed centre
<b>Pump:</b>	Variable flow, load sensing axial piston pump with load independent post compensated valve with over centre valve on all functions.
<b>Fan drive system:</b>	Electro hydraulic, variable controlled (on demand) fan drive system with auto reversal
<b>Rated flow @ 2500 rpm:</b>	160 Lpm
<b>Pressure Setting:</b>	220 Bar
<b>Control valve:</b>	10 Section, closed centre flow sharing
<b>Saddle:</b>	5 position

## ELECTRICAL

<b>Voltage:</b>	24 Volts, Negative ground
<b>Alternator:</b>	90 amp
<b>Batteries:</b>	800 cca Heavy duty, gel type Batteries (Can be tilted 180° without spillage)
<b>Lights:</b>	Halogen type combination Head lights(2); LED type Worklights(6); Combination type: Tail lights(2) Strobe Light: Amber LED type Dual Flash

## STEERING

<b>Type:</b>	Hydraulic Power steering
<b>Turn circle Diameter:</b>	Straight Frame - 28.8 m Articulated - 16.6m
<b>Steering Arc:</b>	45°
<b>Frame Articulation:</b>	20°

## BRAKES

<b>Service Brake:</b>	Foot operated, hydraulically actuated Dual independent valve circuit for increased safety, fully sealed and maintenance free
<b>Parking Brake:</b>	Spring Applied Hydraulic Release(SAHR) fail safe parking brake

## MAIN FRAME

Fully welded box section, Rear frame with modular power train mounting for ease of service

## DRAWBAR (A FRAME)

Rectangular Bar section, Narrow T design permits optimum visibility of the work area

## CIRCLE DRIVE

<b>Type:</b>	Hardened teeth, cut on the inside of circle for maximum leverage & minimum wear
<b>Rotation:</b>	360°

<b>MOLDBOARD:</b>	12 feet (3.66 m) standard, 14 feet (4.27 m) optional
<b>Width:</b>	12 ft (3.66 m)
<b>Height:</b>	1.62 ft (0.494 m)
<b>Blade tilt:</b>	40° Forward & 5° Backward
<b>Max bank sloping angle:</b>	Left-Right - 90°
<b>Blade reach:</b>	2.44 ft (0.744 m)
<b>Side-shift (total):</b>	5 ft (1.524 m)
<b>Lift above ground:</b>	1.52 ft (0.46 m)
<b>Rotation:</b>	360°

## OPERATING WEIGHT: 15,500 Kg

(Weight calculated for Standard machine with 12' moldboard, Front Scarifier, fully fueled and operator)

<b>Front axle weight:</b>	4,500 Kg
<b>Rear axle weight:</b>	11,000 Kg

## OPERATOR ENVIRONMENT

- Ergonomically designed fully-enclosed cabin with HVAC
- Hydraulic Pilot operated joystick controls.
- Interactive Diagnostic with Programmable interlocks
- Rear view camera for enhanced visibility
- Advanced electronic display for basic parameters, fan drive parameters and display from the ECU for various transmission error codes.
- Tilttable and height adjustable steering column
- Fully adjustable operator seat with seat belt

## INSTA - i TELEMATICS

- LeeBoy's customized telematics solution from Trimble, USA
- For location, machine health and working data monitoring system
- Monitor critical parameters like utilization, fuel level and machine location via google maps across multiple sites
- Mobile alerts enabled for instant real-time data

## Attachments

### FRONT SCARIFIER (STANDARD)

<b>Width:</b>	3.83 ft (1.167 m)
<b>Max digging depth:</b>	1.15 ft (0.35 m)
<b>Lift above ground:</b>	1.97 ft (0.6 m)
<b>Teeth:</b>	6 nos. provided as standard with facility for 11 nos.
<b>Weight:</b>	600 Kg

### MID MOUNT SCARIFIER (Optional)

<b>Width:</b>	3.83 ft (1.17 m)
<b>Max digging depth:</b>	0.95 ft (0.29 m) below grade
<b>Lift above ground:</b>	0.8 ft (0.24 m)
<b>Teeth:</b>	6 nos. provided as standard with facility for 11 nos.
<b>Weight:</b>	750 Kg

### REAR RIPPER CUM SCARIFIER (OPTIONAL)

<b>Width:</b>	6.35 ft (1.94 m)
<b>Max. digging depth:</b>	Scarifier: 1 ft (0.31 m ) below grade
<b>Max. digging depth:</b>	Ripper: 1.48 ft (0.45 m) below grade
<b>Lift above ground:</b>	2.3 ft (0.7 m)
<b>Scarifier teeth:</b>	5 nos provided as standard with facility for 9 nos.

<b>Ripper teeth:</b>	3 nos provided as standard with facility for 5 nos.
<b>Weight:</b>	850 Kg

### FRONT DOZER (OPTIONAL)

<b>Width:</b>	8 ft (2.44 m)
<b>Curved height:</b>	2.11 ft (0.64 m )
<b>Digging depth:</b>	0.63 ft (0.192 m)
<b>Lift above ground:</b>	2.48 ft (0.76 m)
<b>Weight:</b>	830 kg

### COUNTERWEIGHT (OPTIONAL)

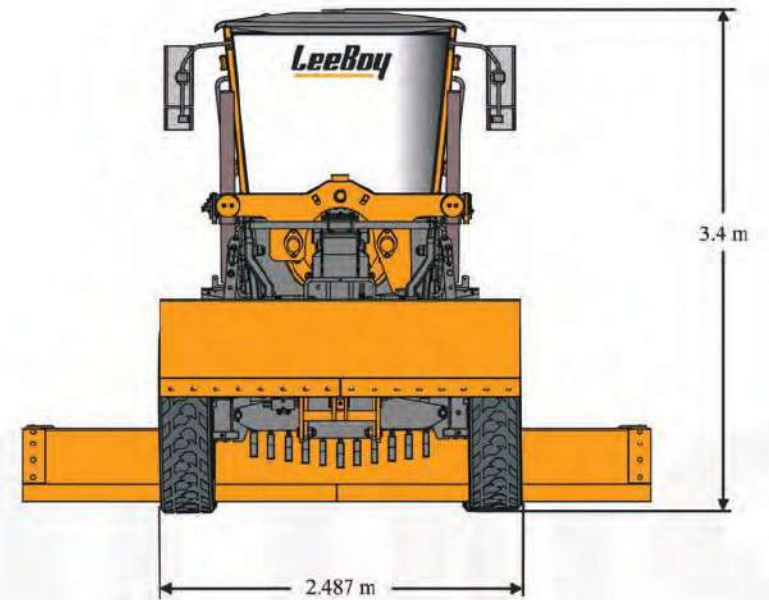
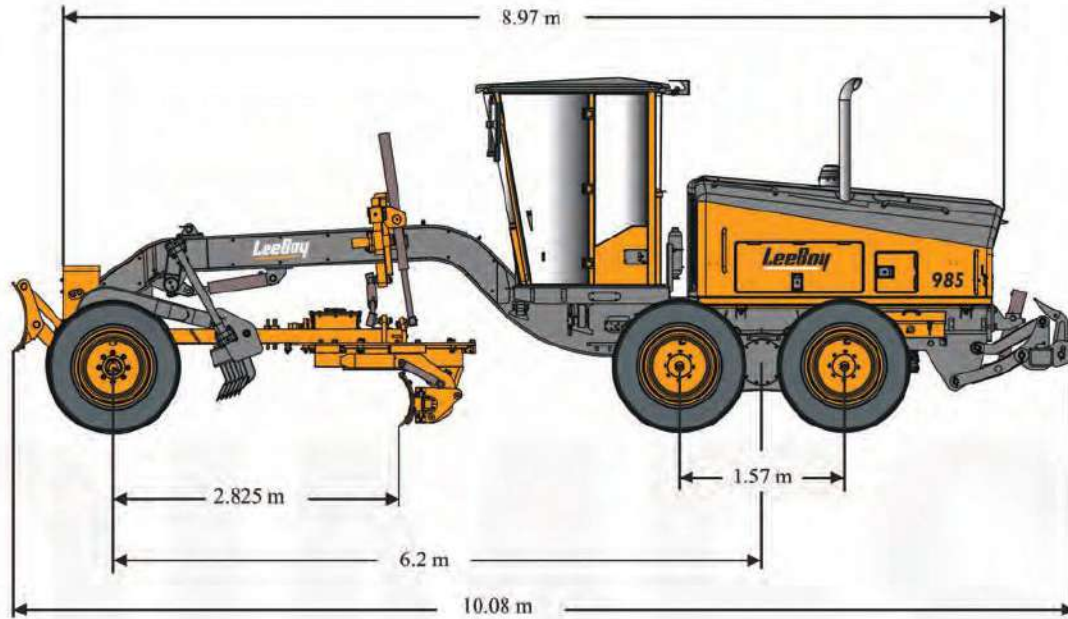
<b>Type:</b>	Rear mounted
<b>Weight:</b>	800 kg

### PUSHBLOCK (OPTIONAL)

<b>Type:</b>	Front mounted
<b>Weight:</b>	530Kg

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LeeBoy makes continuous improvements to all its products and reserves the right to change specifications without notice. Photos and illustrations may contain standard and optional equipment.

# LeeBoy

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