

# 785<sup>XL</sup>2 MOTOR GRADER

CUMMINS 6BTAA5.9 - 150 C | SIX-FORWARD, THREE REVERSE,  
AUTOMATIC POWER SHIFT TRANSMISSION | NO-SPIN DIFFERENTIAL  
TANDEM AXLE | OPERATING WEIGHT 13,400 KG | 12 - FEET MOLDBOARD  
ERGONOMICALLY DESIGNED CABIN WITH HVAC AND EXCELLENT  
VISIBILITY | CENTRALIZED ELECTRONIC DISPLAY

# LeeBoy



**Unmatched Power, Performance & Productivity**

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

**BUILTBY**  
LISTENING  
KNOWLEDGE  
EXPERTISE



# 785 XL2

## 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 -150  
**Type:** Four Stroke, Turbo Charged Liquid Cooled (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:** 655 Nm @ 1500 rpm  
**Gross power @ 2200 rpm:** 150 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 (39.5 kmph F/ 27 kmph R)

Forward		Reverse	
1 <sup>st</sup>	4.6	4 <sup>th</sup>	17
2 <sup>nd</sup>	7.2	5 <sup>th</sup>	25.6
3 <sup>rd</sup>	11.71	6 <sup>th</sup>	39.5
		3 <sup>rd</sup>	27

Convertor Stall ratio: 1.874

### 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

### BRAKES:

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

# TECHNICAL



## HYDRAULICS

System:	Closed centre
Pump:	Variable flow, load sensing axial piston pump with load independent post compensated valve with over - centre valve on all functions.
Fan drive system:	Electro hydraulic, variable controlled (on demand) fan drive system with auto reversal
Rated flow @ 2200 rpm:	143 Lpm
Pressure setting:	220 Bar
Control valve:	10 Section, closed centre flow - sharing
Saddle:	5 positions

## ELECTRICAL

Voltage:	24 Volts, Negative ground
Alternator:	90 amp
Batteries:	800 cca Heavy - duty, gel type batteries (Can be tilted 180° without spillage)
Lights:	Halogen type combination Head lights(2) LED type Worklights(4): Combination type: Tail lights(2) Strobe Light: Amber LED type Dual Flash

## STEERING

Type:	Hydraulic Power steering
Turn circle diameter:	Straight Frame - 19.2m Articulated - 14.6m
Steering arc:	45°
Frame articulation:	20°

## ARTICULATION

Type:	Hydraulic actuated
Range:	20° left/ right
Controls:	Hydraulic

## SERVICE CAPACITIES

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

## 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

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

MOLDBOARD:	12 feet (3.66 m) standard,
Width:	12 ft (3.66 m)
Height:	1.62 ft (0.494 m)
Blade tilt:	36° Forward
Max bank sloping angle:	Left-Right - 90°
Blade reach:	2.44 ft (0.744 m)
Side-shift (Total):	5 ft (1.524 m)
Lift above ground:	1.25 ft (0.46 m)
Rotation:	360°

## OPERATING WEIGHT: 13,400 Kg

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

Front axle weight:	3600 kg
Rear axle weight:	9800 kg

## OPERATOR ENVIRONMENT

- Ergonomically designed fully-enclosed cabin with HVAC
- Hydraulic Pilot operated joystick controls.
- Interactive Diagnostic with Programmable interlocks
- 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)

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

### REAR RIPPER CUM SCARIFIER (OPTIONAL)

Width:	6.35 ft (1.94 m)
Max. digging depth:	Scarifier: 1 ft (0.31 m ) below grade
Max. digging depth:	Ripper: 1.48 ft (0.45 m) below grade
Lift above ground:	2.3 ft (0.7 m)
Scarifier teeth:	6 nos provided as standard with facility for 9 nos
Ripper teeth:	3 nos provided as standard with facility for 5 nos
Weight:	850 Kg

### FRONT DOZER (OPTIONAL)

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

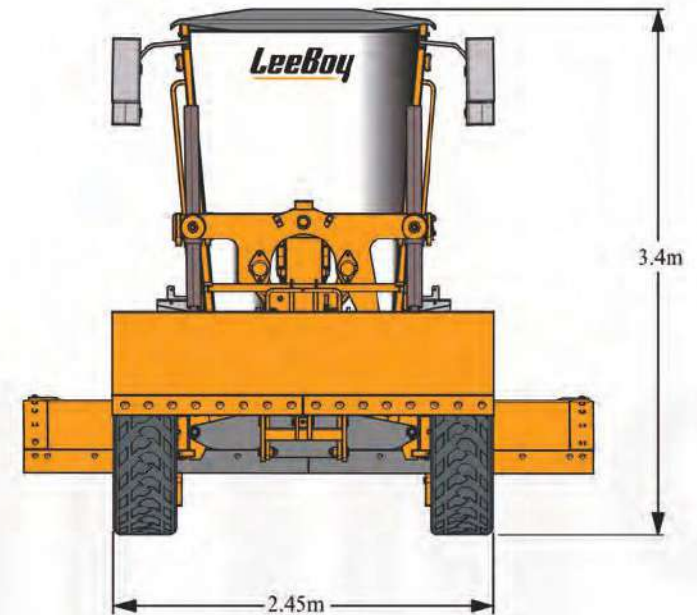
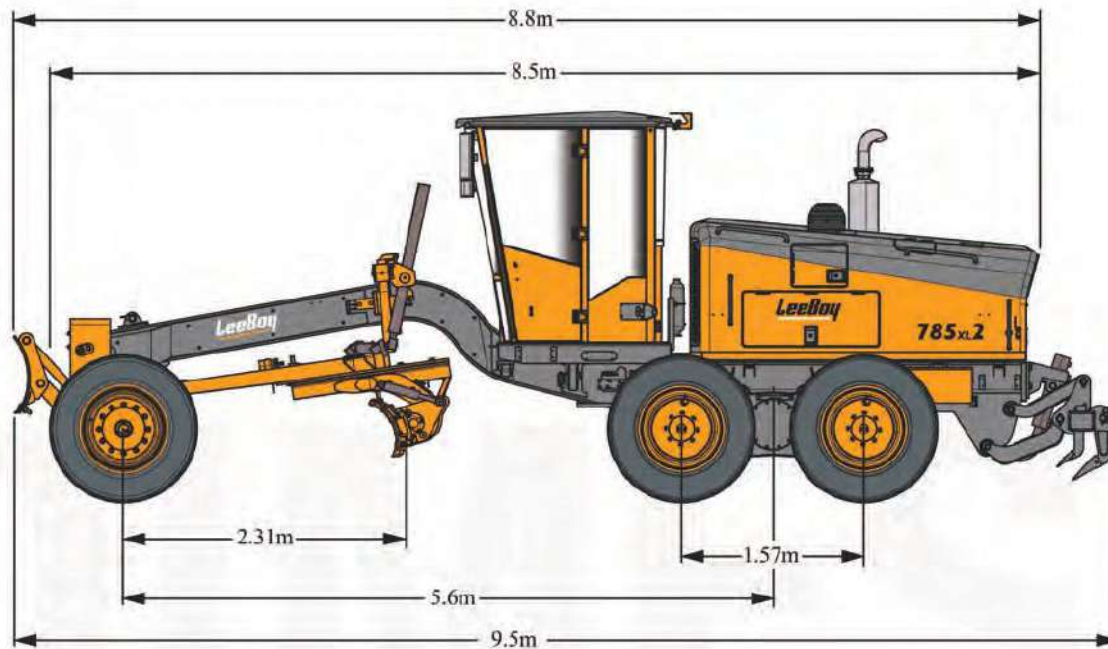
### COUNTERWEIGHT (OPTIONAL)

Type:	Rear mounted
Weight:	800 kg

### PUSHBLOCK (OPTIONAL)

Type:	Front mounted
Weight:	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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