

# FPY180

# LOVOL

## MOTOR GRADER SERIES

ENGINE MODEL	6BTAA5.9-C180
GROSS POWER	132kW @ 2200rpm
OPERATING WEIGHT	15100kg



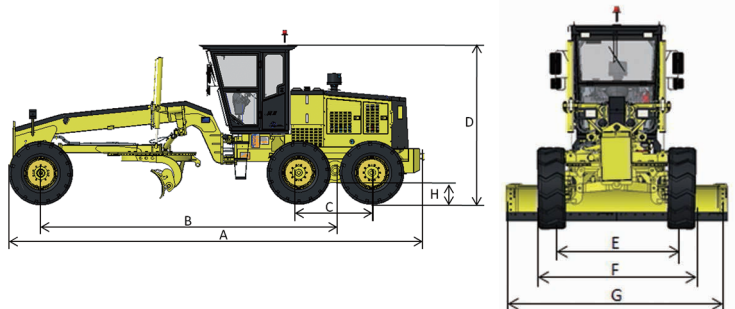
# FPY180 TECHNICAL PARAMETERS

## MOTOR GRADER SERIES

LOVOL

ENGINE	
Model	Cummins 6BTA5.9-C180
Number of cylinders	6
Type	4-cycle, direct injection, water-cooled
Aspiration	Turbocharged, air-air intercooled
Bore x stroke	102*120mm
Displacement	5.9L
Gross power	132kW @ 2200rpm
Max. traction	86kN
Max. torque	670N.m @ 1500rpm
Rated fuel consumption	226g/kW.h
Air cleaner	2-stage, dry type
POWER TRAIN	
Transmission	Fixed-axis type, electro-hydraulic control
Torque converter	Single-stage, single-phase, three basic elements
Rear axle	Modular, planetary reduction, "no-Spin" anti-skid differential
Tandem drive	Roller chain. Oscillating angle: $\pm 15^\circ$
Tire	17.5-25PR14
Front axle	Solid bar construction with oscillation about the central mounting pin Oscillating angle: $\pm 15^\circ$ Tilting angle: $\pm 17^\circ$
STEERING	
Type	Hydraulic power
Front wheel steering angle	$\pm 45^\circ$
Articulation angle	$\pm 25^\circ$
Min. turning radius	7800mm
BRAKES	
Service brake	Disc type, foot operated, single circuit, hydraulically actuated on four tandem wheels
Parking brake	Drum type, manually actuated
MOLDBOARD	
Type	Hydraulic power, replaceable cutting edges, hardened cutting edges and end bits
Rotation	$360^\circ$
Blade width	3660mm
Blade height	635mm
Blade thickness	20mm
Blade tip angle	$37\sim 83^\circ$
Max. cutting depth	500mm
Max. lifting height	440mm
Blade side shift (left/ right)	650/700mm
Max. shoulder reach (left/right)	1900/1950mm
Max. tilting angle (left/right)	$\pm 90^\circ$
SPEED	
Forward, 1-7	5.4\8.4\13.4\20.3\29.8\39.6km/h
Reverse, 1-3	5.4\13.4\29.8km/h
HYDRAULICS	
Tandem pump	Gear pump. 28ml/r
Relief pressure for working equipment	16MPa

Relief pressure for steering	12.5MPa
Relief pressure for brakes	10MPa
CAPACITIES	
Fuel tank	340L
Hydraulic oil tank	110L
Engine crank case	16L
Engine coolant	30L
Tandem box	2x36L
Rear axle	25L
Transmission	28L
ELECTRICAL SYSTEM	
Battery	2x12V, 105Ah
Alternator	28V, 45A
Starter motor	24V, 6kW
OPERATING WEIGHT	
Standard	15100kg
With rear ripper	15500kg
With front blade & rear ripper	16500kg
RIPPER(OPTIONAL)	
Ripping depth	320mm
Shank supports	5
Shank support spacing	500mm
Working width	2085mm
FRONT BLADE(OPTIONAL)	
Width x Height	2740x930mm
Thickness	10mm
Max. lifting height	500mm
Max. digging depth	210mm



DIMENSIONS	
Overall length: Standard	8726mm
A Overall length: With rear ripper	9330mm
Overall length: With front blade & rear ripper	10322mm
B Length: Front axle to mid tandem	6260mm
C Length: Between tandem axles	1552mm
D Height: Cab	3400mm
E Tread	2155mm
F Width: Outside tires	2600mm
G Blade width	3660mm
H Minimum ground clearance	430mm