



MITSUBISHI

MOTOR GRADERS

E-SERIES



MITSUBISHI
HEAVY INDUSTRIES, LTD.

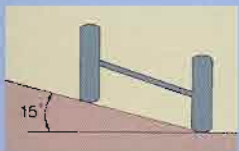
Road construction, road maintenance and site preparation is tough work, but now there is a Motor Grader built to handle the toughest jobs. The E-Series line-up from Mitsubishi has the versatility to meet all your needs and guarantees productive results every time.

Take a close look at the exceptional versatility of the E-Series. The tight turning radius aids quick turnarounds in confined areas. The perfect balance of front and rear weight ensures maximum wheel traction all-round. Engine power is transferred to the ground without wheel spin, therefore resulting in greater productivity.

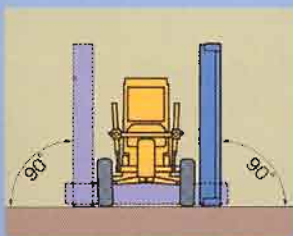
Also, the exceptional front axle oscillation, wheel lean and frame articulation combine to make the E-Series Motor Graders unbeatable when grading, spreading, bank cutting, ditching or ripping. If your current Motor Grader isn't measuring up, its time you switched to the Mitsubishi E-Series.



Front axle oscillation for maximum traction regardless of work site conditions.



Frame articulates to a maximum 26 deg for crab steering when grading culverts, unstable surfaces and steep slopes.



Left or right bank cutting and high bank cutting. The operator has complete control of all blade functions from the seat.



20 degree wheel lean lets the operator control side draft when working with heavy loads.

Built in Air Supply (standard)

Provided as standard equipment on all E-Series models, the built in air supply enables tyre inflation without the need for an additional air supply

Compressed air is on hand wherever you go.



Differential Lock / Un-Lock



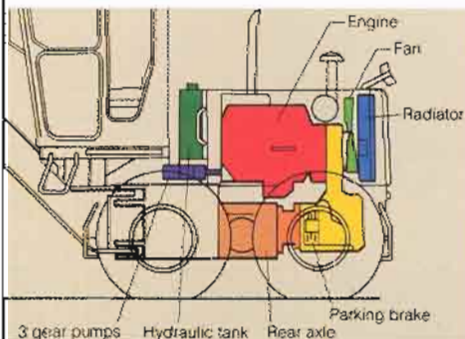
Switched from the operator's console the Mitsubishi differential Lock / Unlock enables rear wheel traction to be maximised to suit the prevailing job site conditions

Mitsubishi's differential systems can be engaged and disengaged on the run.

Proven Powertrain

Mitsubishi's unique design drive train transfers engine power through to all four rear wheels without the use of any external drive shaft. The engine is directly coupled to the transmission drop box and planetary gear set which is, in turn, directly coupled to the rear axle

The Mitsubishi developed direct-drive power shift transmission totally complements the high output of the large capacity Mitsubishi engines.



Blade-Slip Clutch (standard)

The MG330-E is fitted standard with a blade-slip clutch protection system

The blade slip clutch automatically releases when abnormally strong forces are exerted on the blade providing full protection against destructive overloads.

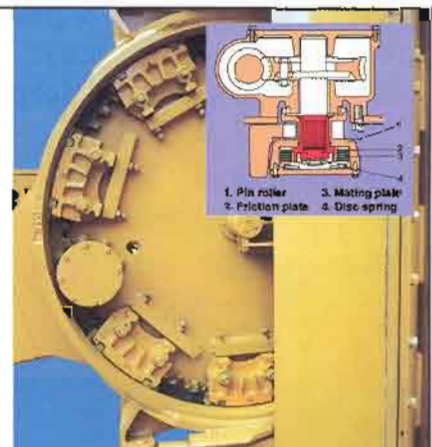
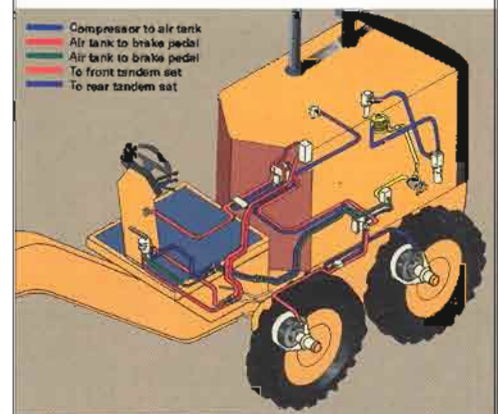
Fail-safe, Brakes Independent Dual System

(Internal Emergency Park Brake)

E-Series motor graders are fitted with two completely independent air-actuated oil-cooled multi-disc brakes on all four rear wheels.

Braking is instantaneous, noiseless and most importantly, fail-safe. Duplicated backup air circuits provide operators with complete control, even in the case of a system malfunction.

In addition, the E-Series units are fitted with a spring applied, air release, oil immersed, totally enclosed parking / emergency brake system.



Rugged Diesel Engine

Mitsubishi engines are highly durable, economical and hard working. Operating costs are kept low while the E-Series engines make light work of the toughest jobs. Mitsubishi engines are known for their high output and provide maximum torque at low engine rpm. Other features include low fuel usage, low exhaust emission and ease of maintenance.



The Operator's Ma

The solution to high productivity is efficiency in operation and daily maintenance. This is where the E-Series graders from Mitsubishi offer more than the others.

The liquid crystal display (LCD) dash board provides easy to read bar graph gauges for monitoring engine performance etc. The "OK" computerised engine management system constantly monitors the engine and instantly alerts the operator of any malfunction.

Operator comfort is at a premium with the fully integrated "Climate Controlled" air - conditioner, the superior deluxe KAB-411 suspension seat, industry standard levers and all round vision that surpasses them all.

So, give your operator the machine that has all the high tech inclusions of an upmarket automobile - the E-Series grader from Mitsubishi.

Climate Controlled Air-Conditioner



The E-Series "Climate Controlled" air-conditioner sets new standards in providing the ultimate work environment for the operator.

Cabin temperature, once set, is maintained automatically. The easy to read LCD display constantly indicates in-cabin temperature. Air flow, heating and demisting within the cabin is totally controlled by the climate controller.

Fresh air for the cabin is taken from outside through dual filtration. The cabin is pressurised therefore preventing dust intrusion.

Transmission Gear Selector



Precise gear selection is made easy with Mitsubishi's single lever gear change selector. The transmission safety lockout lever, the emergency / parking brake controller and work light switching are also located on the right side console.



Machine

Spacious Cabin with Unrestricted Vision

The low profile spacious ROPS/FOPS cabin on the E-Series Mitsubishi grader ensures optimum operator safety and comfort. The large one piece front windscreen and tinted rear window provide excellent all round vision. Visibility to the blade and rear ripper / scarifier is exceptional. All E-Series Mitsubishi graders come fitted with tinted safety glass all round and a four speaker am/fm radio cassette as standard.



Hassle-free Daily Maintenance and Servicing.

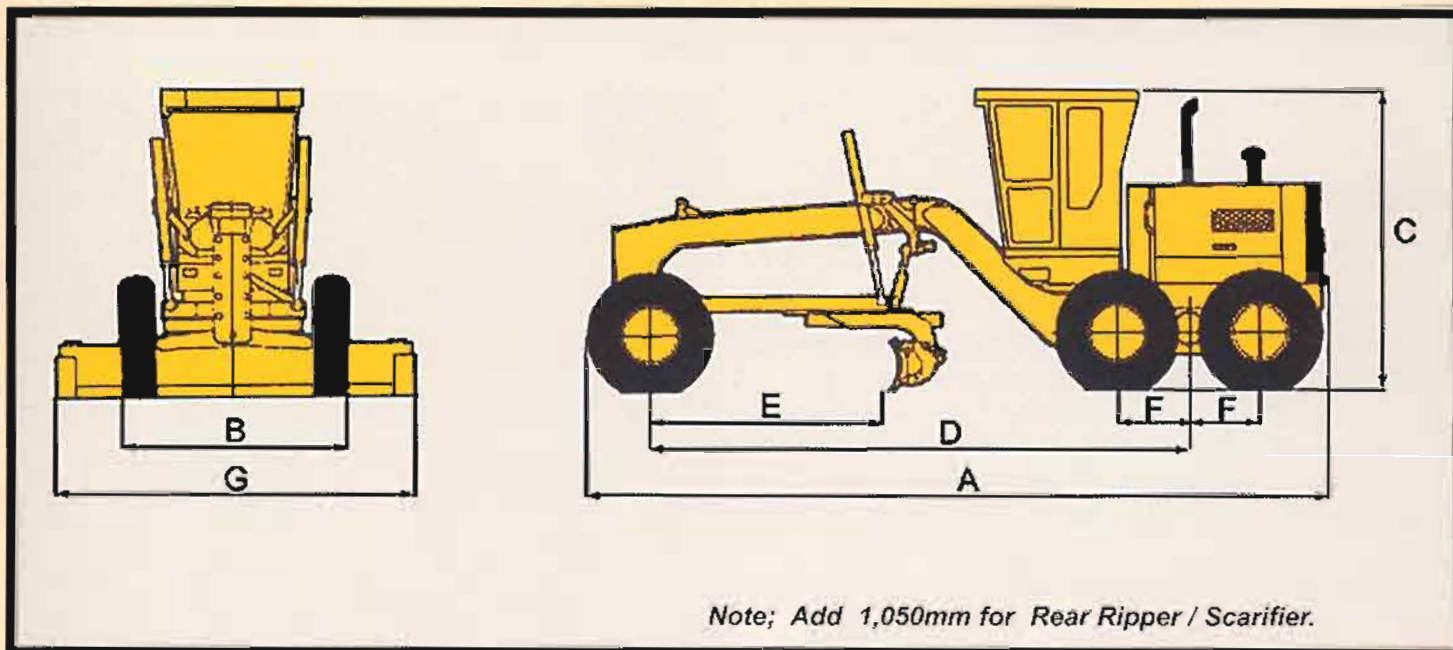


No longer do grader operators need to endanger their safety to complete daily maintenance or fuelling

Mitsubishi's unique design enables the operator to complete daily servicing without having to climb all over the machine. The wide opening engine canopy doors and simple to remove engine side panels provide unrestricted access for servicing.



Dimensions & Specifications



Dimensions

Dimensions			MG130-E	MG230II-E	MG330-E
Total Length	A	mm	6910	7330	7820
Total Width	B	mm	2140	2150	2450
Total Height	C	mm	3010	3030	3130
Wheel Base	D	mm	4900	5300	5700
Blade Base	E	mm	2135	2185	2500
Rear Axle Centre	F	mm	637.5	707.5	752.5
Blade Length	G	mm	3100	3100	3710
Lift Above Ground		mm	400	430	480
Drop Below Ground		mm	300	450	610
Max. Shoulder Reach - Left		mm	1470	1650	1890
Max. Shoulder Reach - Right		mm	1230	1680	1900
Max. Bank Cut Angle		Deg	60°	90°	90°
Blade Tilt		Deg	45°	45°	45°
Angle of Cut		Deg	36° to 81°	36° to 81°	36° to 81°
Circle Turning Angle		Deg	360°	360°	360°

MG130-E

Frame

Articulated.....	26deg
Minimum vertical section modulus.....	1303cm ³
Weight - with Mid-mount scarifier.....	10,060kg

Engine

Model - Mitsubishi.....	SK4-T
Number Cylinders.....	4
Piston Displacement.....	4,249cc
Nett Power (SAE).....	71kw/95hp
Governed speed.....	2300rpm
Max Torque.....	348Nm @ 1400
Bore x Stroke.....	102mm x 130mm
Starting Motor.....	24volt
Alternator.....	24volt - 30 amp

Transmission

Direct drive power-shift planetary gear, hydraulic actuated 6 speeds forward and reverse.

Speeds;

Forward.....	1st	2.8km/h
	2nd	4.8km/h
	3rd	7.9km/h
	4th	11.6km/h
	5th	19.9km/h
	6th	32.6km/h
Reverse.....	1st	2.8km/h
	2nd	4.9km/h
	3rd	8.0km/h
	4th	11.8km/h
	5th	20.3km/h
	6th	33.2km/h

Final Drive

Double reduction through planetary with power operated differential lock / unlock.

Front Axle

Reverse Elliot Type.	
Oscillation (total).....	30°
Wheel Lean L/R.....	20°
Ground Clearance.....	480mm
Minimum Turn Radius.....	5800mm

Brakes

Service Brakes - Air over hydraulic actuated internal expanding drum brake on all four rear wheels.

Parking Brake - Fail Safe spring engage, air disengage, multi disc, oil cooled on transmission output shaft.

Hydraulic System

Circuit.....	Open-centre
Pump.....	Tandem gear
Capacity.....	53 + 53 @ 2,300 rpm
Relief pressure.....	175kg/cm ² (2,489 psi)
Steering circuit.....	53ltr/min @ 2,300 rpm

Service Capacity litres

Fuel tank.....	115
Radiator.....	22
Engine crankcase.....	12
Transmission.....	23
Rear axle case.....	29
Tandem drive case (each side).....	26
Hydraulic tank.....	67
Circle reverse gear.....	3.5

MG230II-E

Frame

Articulated.....	26deg
Minimum verticle section modulus.....	1285cm ³
Weight - with Mid-mount scarifier.....	11,060kg

Engine

Model - Mitsubishi.....	6D34-TE1
Number Cylinders.....	6
Piston Displacement.....	5,861cc
Nett Power (SAE).....	86kw/115hp
Governed speed.....	2,500rpm
Max Torque.....	409Nm @ 1600
Bore x Stroke.....	104mm x 115mm
Starting Motor.....	24volt
Alternator.....	24volt - 40 amp

Transmission

Direct drive power-shift planetary gear, hydraulic actuated 6 speeds forward and reverse.

Speeds;

Forward.....	1st	3.6km/h
	2nd	6.2km/h
	3rd	10.1km/h
	4th	15.0km/h
	5th	25.8km/h
	6th	44.2km/h
Reverse.....	1st	3.7km/h
	2nd	6.3km/h
	3rd	10.3km/h
	4th	15.3km/h
	5th	26.2km/h
	6th	45.0km/h

Final Drive

Double reduction through planetary with power operated differential lock / unlock.

Front Axle

Reverse Elliot Type.	
Oscillation (total).....	30°
Wheel Lean L/R.....	20°
Ground Clearance.....	480mm
Minimum Turn Radius.....	6000mm

Brakes

Service Brakes - Air over hydraulic actuated internal expanding drum brake on all four rear wheels.

Parking Brake - Fail Safe spring engage, air disengage, multi disc, oil cooled on transmission output shaft.

Hydraulic System

Circuit.....	Open-centre
Pump.....	Tandem gear
Capacity.....	55 + 55 @ 2,500 rpm
Relief pressure.....	175kg/cm ² (2,489 psi)
Steering circuit.....	55ltr/min @ 2,500 rpm

Service Capacity litres

Fuel tank.....	210
Radiator.....	28
Engine crankcase.....	16
Transmission.....	23
Rear axle case.....	29
Tandem drive case (each side).....	28
Hydraulic tank.....	67
Circle reverse.....	3.5

MG330-E

Frame

Articulated.....	26deg
Minimum verticle section modulus.....	3293cm ³
Weight - with Rear ripper /Scarifier.....	15,600kg

Engine

Model - Mitsubishi.....	6D16-TE1
Number Cylinders.....	6
Piston Displacement.....	7,545cc
Nett Power (SAE).....	101kw/135hp
Governed speed.....	2,200rpm
Max Torque.....	569Nm @ 1200
Bore x Stroke.....	118mm x 115mm
Starting Motor.....	24volt
Alternator.....	24volt - 40 amp

Transmission

Direct drive power-shift planetary gear, hydraulic actuated 6 speeds forward and reverse.

Speeds;

Forward.....	1st	3.6km/h
	2nd	6.3km/h
	3rd	10.2km/h
	4th	15.1km/h
	5th	26.0km/h
	6th	42.6km/h
Reverse.....	1st	3.7km/h
	2nd	6.4km/h
	3rd	10.4km/h
	4th	15.4km/h
	5th	26.5km/h
	6th	43.3km/h

Final Drive

Double reduction through planetary with power operated differential lock / unlock.

Front Axle

Reverse Elliot Type.	
Oscillation (total).....	30°
Wheel Lean L/R.....	20°
Ground Clearance.....	555mm
Minimum Turn Radius.....	6600mm

Brakes

Service Brakes - Air- actuated, oil cooled, internal multi disc brake on all four rear wheels.

Parking Brake - Fail Safe spring engage, air disengage, multi disc, oil cooled on transmission output shaft.


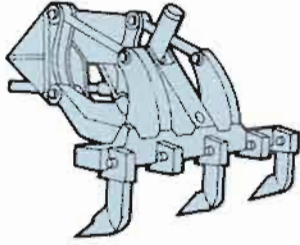
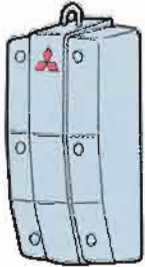

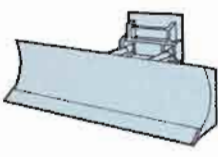
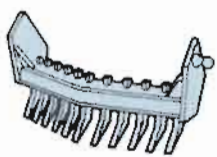
Hydraulic System

Circuit.....	Open-centre
Pump.....	Tandem gear
Capacity.....	60 + 60 @ 2,200 rpm
Relief pressure.....	175kg/cm ² (2,489 psi)
Steering circuit.....	54ltr/min @ 2,200 rpm

Service Capacity litres

Fuel tank.....	230
Radiator.....	34
Engine crankcase.....	13
Transmission.....	23
Rear axle case.....	34
Tandem drive case (each side).....	73
Hydraulic tank.....	67
Circle reverse gear.....	3.5

Options & Attachments

Mouldboard		Rear Ripper / Scarifier	Counter Weight	Tyres & Rims
				
Dozer Blade	Scarifier			
				

Options

Std - Standard Equipment

O = Option

⊖ = Not Available

Item	MG130-E	MG230II-E	MG330-E
Mouldboards [Length x Height x Thickness] - mm / (in)			
3100 x 610 x 19 (122 x 24 x .75)	Std	Std	-
3400 x 610 x 19 (122 x 24 x .75)	-	O	-
3710 x 610 x 22 (146 x 24 x 0.9)	-	-	Std
4010 x 610 x 22 (158 x 24 x 0.9)	-	-	O
4010 x 720 x 22 (158 x 28 x 0.9)	-	-	-
4320 x 720 x 22 (170 x 28 x 0.9)	-	-	-
Front Dozer Blades			
Radial type	O	-	-
Parallelgram type	-	O	O
Midmount Scarifiers			
	7 Tyne	9 Tyne	11 Tyne
V - type	Std	Std	O
Rear Ripper / Scarifier			
	7 Tyne	9 Tyne	3/9
Radial / Scarifier	O	O	-
Parallelgram - Scarifier	⊖	O	-
Parallelgram - Ripper / Scarifier	-	-	Std
Front Counterweight			
400kg	O	O	-
960kg	-	-	Std
Tyres & Rims			
10.00-20-12ply (Rim 7.5 x 20)	Std	-	-
13.00-24-12ply (Rim 8.0 x 24)	-	Std	-
14.00-24-12ply (Rim 10.0 x 24)	-	-	Std



Specifications subject to change without notice

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