

HORSEPOWER Gross: 165 kW 221 HP @ 2100 rpm Net: 163 kW 218 HP @ 2100 rpm

OPERATING WEIGHT 15495 kg 34,160 lb

BLADE LENGTH **3.71 m** 12 ft





Photo may include optional equipment.

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GD655.5 GD655-5 MOTOR GRADER MOTOR GRADER

# WALK-AROUND

The New Transmission Includes a Non-stall Function,

a great improvement on the conventional reputable GD655-3, now realizing smoother operation at low speed.

See page 5.

#### **Economical Fuel Consumption** by Two Mode Operation

Decreased by 20% compared with Komatsu's conventional model typical test data. See page 4.

#### **Operator Friendly Cab**

(Excellent visibility, low operation noise) See pages 8 and 9.

### **Economy Features**

Selectable working mode, <P mode> and <E mode>

See page 4.

 Operator can choose <Auto mode> or <Manual mode>.

See page 5.

### **Excellent Operator Environment**

- Environment friendly Komatsu SAA6D107E-1 engine complies with EPA Tier 3, EU Stage 3A emission. See page 4.
- Excellent visibility of the moldboard and front by the hexangular cab with front Y pillar and rear layout side pillar.



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Easy Serviceability • Easy radiator cleaning with a reversing fan See page 7.

See page 7.



Excellent Performance

See page 5.

See page 6.

See page 6.

• Smooth operation without the engine stalling at low speed and maximize productivity

• Excellent blade controllability with multifunctional

control valves with float and PCV (Pilot Check Valve)

Aggressive moldboard angles are possible with a long wheel base.

## **ECOLOGY FEATURES**



#### Komatsu Technology



major components, such as engines, electronics and hydraulic components

Since all components can be matched, efficiencies are increased achieving high levels of productivity and ecology With this "Komatsu Technology", and through customer feedback, Komatsu is achieving great advancements in technology.

The result is a new generation of high performance and environment friendly machines.

#### High Performance SAA6D107E-1 Komatsu Engine

Electronic heavy duty common rail fuel injection system provides optimum combustion of fuel. This system also provides fast throttle response to match the machine's powerful tractive effort and fast hydraulic response.

#### NET: 163kW 218HP

#### Low Emission Engine

This engine is EPA Tier 3 emission regulation and EU Stage 3A emission regulation certified, without sacrificing power or machine productivity.

#### **Hvdraulic Driven and Auto** Reversing Cooling Fan

Reduce power loss in case of low temperature and reduce engine noise

# **Outstanding Fuel Economy**

A significant reduction in fuel consumption is achieved by the control

Fuel consumption decreased by 20% red with GD655-3 typical test dat

#### 2 Mode 3 Stage VHPC

The system allows selection of the appropriate mode between two mode <P mode> or <E mode> according to each working condition. The mode is easily selected with a switch in the

#### operator's cab. • P mode

Greater productivity can be attained by taking full advantage of high output power. It is appropriate for job sites where the motor grader meets high

#### • E mode

economy and lighter work applications

This feature provides the appropriate power and better fuel consumption.

KW (LIF.				
	P			Ē
	AUTO	MANU.	AUTO	MANU.
F1	134		400	400
F2	(180)	134 (180)	108 (145)	108 (145)
F3	149	(100)	(	(/
F4				
F5	(200)	(200)	134 (180)	134 (180)
F6		(200)	(100)	(100)
F7	163	163	149	149
F8	(218)	(218)	(200)	(200)
R1	134	134	108	108
R2	(180)	(180)	(145)	(145)
R3	149	149	134	134
R4	(200)	(200)	(180)	(180)

# **DUAL MODE TRANSMISSION**

### Converter Drive: Designed to Provide Power and Performance

#### Komatsu Power Shift Transmission

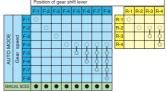
is designed and built specifically for Komatsu graders. The transmission provides on-the-go, full power shifting as well as inching capability and automatic shifting in the higher ranges.

#### Lock-up Torque Converter (Auto Mode)

or direct drive (manual mode), the operator chooses the optimum transmission set-up for the job at hand. If power for tough grading or low speed fine control is required, the operator can select the auto mode. With the torque conver the operator has tremendous tractive effort and control. More importantly, you can achieve fine control at low speed without shifting or using an inching pedal. Auto mode is available in gears 1-8. If high transport speed or high speed moval is needed, the operator can select manual drive. The operator has the best of both worlds.

#### Gear Selections

Eight forward speeds and four reverse speeds give the operator a wide operating range. With four gear when in a mode, shifting is automatic in speeds five through eight. The operator sets the maximum gear for operation and the transmission then shift automatically between gears four though eight up to the operator selected maximum gear



### **Electronic Overspeed Protection**

helps prevent engine and transmis premature downshifting and grade-induced overspeeding

### Control

produces smooth shifting, which enables the operator to maintain a uniform grading surface if shifting is required. Smooth shifts also extend the life of the transmission by placing less stress on transmission clutches A single lever controls direction, speed and parking brake.



#### Low Effort Inching Pedal

gives the operator precise control of machine movement This is especially important for operators who have previous experience with operating a manual mode motor grader.



nation of manual mode and auto mode is very effective for avoiding engine stalling which leads to low speed smooth operation.



D When the load decrease and travel speed has recovered, it automatical

# **MAINTENANCE FEATURES**

# **ADVANCED CONTROL FEATURES**

#### Power on Demand

Normally, the variable displacement pump idles at low output. When it senses a load requirement, the pump supplies quick flow and pressure to match the demand. The result is less hydraulic system heat, quick response and lower fuel consumption. The bottom line is greater efficiency.



#### Implement Control Valves

Designed and built by Komatsu specifically for motor graders. The valves are direct acting and provide outstanding operator "feel" and predictable system response for precise implement control. To help maintain exact blade settings, lock valves are built into the hydraulic circuits. Relief valves are also incorporated into selected circuits to protect the cylinders from over-pressurization.

#### Low Operating Effort

Implement controls are designed to reduce operator fatigue. They feature short lever throws and effort in both directions. Properly spaced control levers and short lever throws allow the operator to use multiple controls with one hand.

#### Balanced Flov

When the operator uses several controls at the same time, flow is proportional to ensure several implements can operate simultaneously.

#### Constant Implement Speed

Implement speed is constant regardless of engine speed because of the large pump output and proportional flow control function.

#### Versatile Moldboard Geometry

Komatsu graders feature a versatile moldboard geometry. Save time and money when pulling ditches by throwing the windrow to the right, not into the roadway - without narrowing the road bed. It's made possible by Komatsu's extraordinary reach and aggressive blade angle. Ample clearance between the heel of the blade and main frame, even with the toe sharply angled down.



Aggressive moldboard angle

#### lade Angle

A long wheel base allows the operator to obtain an aggressive moldboard angle. This large blade angle permits material to roll more freely along the blade, which reduces power requirements. This is particularly helpful in dry soil or clay or for snow and ice removal.

#### Rugged Construction

The A-frame drawbar is U-shape welded construction. A one-piece forged circle is built to stand up to high stress loads. To reduce wear, teeth are induction hardened in the front 180 deg. of the circle. For maximum support, the circle is secured to the drawbar by six support shoes.

#### Optional Protection System

Blade Lift Accumulators absorb shocks when the moldboard contacts immovable objects. This option is especially useful in rough grading and rocky areas. It provides precious control while allowing relief from vertical impact loads. This option is most useful in applications where hidden objects are frequently encountered.

### Superior Serviceability

#### Easy Access to Service Areas

- Large hinged lockable doors are standard and provide easy access to the engine and radiator service points. Spin-on filters can be changed quickly.
- The fuse panel is located in the cab. Circuits and fuse sizes are clearly identified.
- The tandem oil check point is conveniently located at the end of the tandem.
- The service meter is located in the electronic monitoring system.
- · Refueling from the ground is easy.
- Engine oil, hydraulic oil and coolant drains are in the place maintained easily.

#### Easy Radiator Cleaning with a Reversing Fan

Dust stuck to radiator and cooler fin is blown off with reversal of the hydraulic drive fan.

#### Power Train Components

With a modular design, you can remove the engine, transmission or final drives independently for quick service.

#### Character Display is Easy to See

During normal operation, the service meter/odometer is displayed in this area. If an abnormality or machine overload occurs, or if machine maintenance and inspection are required, action codes appear on the display to allow the operator to take appropriate action.





MOTOR GRADER



Tool Box





Spin-on Transmission Filter

### Adjustment-free Oil Disc Brakes

Komatsu designs and builds multiple-disc brakes that are completely sealed and adjustment-free. The brakes are immersed in oil, hydraulically actuated, and are located at each tandem wheel to eliminate brake loads on the power train and to facilitate servicing. A fully hydraulic brake system eliminates problems associated with air systems. The large braking surface provides dependable braking capability and increased life before a rebuild is required.

#### Friendly Environment

The engine and transmission are rubber-mounted to transmit less engine noise and vibration to the operator and extend component life. A lead-free aluminum core is used for the radiator to comply with global environmental requirements.

#### Disconnect Switch

For inspection and maintenance, the batteries can be disconnected with this switch when repairing the machine or checking batteries.



Disconnect Swit

# **WORKING ENVIRONMENT**

### A Comfortable Houseroom of Class's Greatest Wide Cab



Operator ear dynamic noise level : 74 dB (ISO 6396)

### Roomy Interior

Extra leg and foot room create a spacious, open cab. The cab includes built-in storage space for personal items such as a lunch box, cup holder, and a coat hook.

#### Suspension Seat

The seat features fold-up armrests and a retractable seat belt. The seat follows the contour of the body and can be easily adjusted for optimal support and comfort.

#### **Electric Throttle Control**

The RPM mode select switch allows the operator to perfectly match the working condition by selecting between three modes: Auto, Off and Manual. The engine speed set by throttle switch is temporarily cancelled when operating the brake/acceleration pedal at Auto mode.

#### **Electronic Monitoring System**

Electronic monitoring system monitors important machine systems and provides the operator with a warning if an abnormality occurs.

#### Adjustable Control Console

The control console is adjustable backward and forward to facilitate entry and exit from the cab. The steering wheel also tilts to the operators preference.

#### Air Conditioner

Well-positioned air conditioning vents keep the operator comfortable through a wide range of outside conditions.

#### Safety Machine

Cab is low profile enclosed ROPS/FOPS. (SAE J1040, J2311)



ROPS (Roll-Over Protective Structure) Cab (Equipped with defroster and intermittent wiper)



Excellent Visibility from c

#### Excellent Visibility

Exceptional visibility by hexangular cab with front Y shape pillar and rear layout side pillar (patent pending) helps increase operator confidence and productivity in all grader applications. The well positioned blade linkage provides an unobstructed view of the moldboard and front tires. The tapered engine hood provides good visibility to the rear of the machine, especially the rear ripper.



9

# **SPECIFICATIONS**



Aspiration   Turbocharged and air to air affercooled   Number of cylinders   107 mm 4.2"   124 mm 4.8"
Type
Aspiration   Turbocharqed and air to air aftercooled   Number of cylinders   107 mm 4.2"   124 mm 4.8"
Sumber of cylinders   6
30re         107 mm 4.21*           Stroke         124 mm 4.82*           Piston displacement         6.69 ltr 408 in²           7 mose         6.69 ltr 408 in²           7 mose         6.69 ltr 408 in²           7 mose         6 ltr 408 in²           6 ear 1-3         136 kW 183 HP@2000 rpm           6 mose         165 kW 221 HP@2100 rpm           8 mose         110 kW 148 HP@2000 rpm           6 ear 1-3         110 kW 148 HP@2000 rpm           151 kW 203 HP@2000 rpm         151 kW 203 HP@2000 rpm           6 ear 1-3         134 kW 180 HP@2000 rpm           6 ear 4-6         149 kW 200 HP@2000 rpm           6 ear 7-8         163 kW 218 HP@2100 rpm           6 mose         168 kW 145 HP@2000 rpm           6 ear 1-3         108 kW 145 HP@2000 rpm           6 ear 1-3         134 kW 180 HP@2000 rpm           6 ear 4-6         134 kW 180 HP@2000 rpm
"Siston displacement
Piston displacement.
P-mode Gear 1-3 136 KW 183 HP@2000 rpm Gear 4-6 151 KW 203 HP@2000 rpm Gear 7-8 165 KW 221 HP@2100 rpm E-mode Gear 1-3 110 KW 148 HP@2000 rpm Gear 4-6 136 KW 183 HP@2000 rpm Gear 7-8 151 KW 203 HP@2000 rpm Vet flywheel horsepower* (Manual mode) P-mode Gear 1-3 134 KW 180 HP@2000 rpm Gear 7-6 163 KW 203 HP@2000 rpm Gear 7-8 163 KW 203 HP@2000 rpm Gear 1-3 134 KW 180 HP@2000 rpm Gear 1-3 108 KW 145 HP@2000 rpm Gear 1-4 119 KW 145 HP@2000 rpm Gear 1-6 134 KW 180 HP@2000 rpm
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E-mode Gear 1-3 110 kW 148 HP@2000 rpm Gear 4-6 136 kW 183 HP@2000 rpm Gear 7-8 151 kW 203 HP@2000 rpm Vet flywheel horsepower* (Manual mode) P-mode Gear 1-3 134 kW 180 HP@2000 rpm Gear 4-6 149 kW 200 HP@2000 rpm Gear 7-8 163 kW 218 HP@2100 rpm E-mode Gear 1-3 108 kW 145 HP@2000 rpm Gear 1-3 108 kW 145 HP@2000 rpm Gear 1-4 134 kW 180 HP@2000 rpm Gear 1-6 134 kW 180 HP@2000 rpm
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P-mode Gear 1-3 134 kW 180 HP@≥000 rpm Gear 4-6 149 kW 200 HP@≥000 rpm Gear 7-8 658 kW 218 HP@≥100 rpm E-mode Gear 1-3 108 kW 145 HP@≥000 rpm Gear 4-6 134 kW 180 HP@≥000 rpm
Gear 1-3 134 kW 180 HP@2000 rpm Gear 4-6 149 kW 200 HP@2000 rpm Gear 7-8 163 kW 218 HP@2100 rpm E-mode 180 kW 145 HP@2000 rpm Gear 1-3 180 kW 145 HP@2000 rpm Gear 4-6 134 kW 180 HP@2000 rpm
Gear 4-6 149 kW 200 HP@2000 rpm Gear 7-8 163 kW 218 HP@2100 rpm E-mode Gear 1-3 108 kW 145 HP@2000 rpm Gear 4-6 134 kW 180 HP@2000 rpm
Gear 7-8
E-mode Gear 1-3
Gear 1-3
Gear 4-6
Gear 7-8 149 kW 200 HP@2000 mm
Max. torque
Torque rise
Fan speed
Air cleaner
Electrical
Battery 2, low maintenance plus, 12 volt, 1146 cca



# TRANSMISSION AND TORQUE CONVERTER

Full power shift transmission with integral free wheeling stator torque converter and lock-up.

Speeds (at rated engine speed)

Gear	Forward		Forward Reverse		erse
1st	3.4 km/h	2.1 mph	4.5 km/h	2.8 mph	
2nd	5.0 km/h	3.1 mph	9.2 km/h	5.7 mph	
3rd	7.0 km/h	4.3 mph	20.3 km/h	12.6 mph	
4th	10.2 km/h	6.3 mph	40.3 km/h	25.0 mph	
5th	15.4 km/h	9.6 mph			
6th	22.3 km/h	13.9 mph			
7th	30.6 km/h	19.0 mph			
8th	44.3 km/h	27.5 mph			



### TANDEM DRIVE

Oscillating welded b	ox section 520 mm x 202 mm 1'8" x 8"
Side wall thickness:	Inner
	Outer
	1525 mm 5'0"
Tandem oscillation	



## FRONT AXLE

Type Solid bar construction welded steel sections
Ground clearance at pivot
Wheel lean angle, right or left
Oscillation, total



#### REAR AXLE

Alloy steel, heat treated, full floating axle with lock/unlock differential.



### WHEELS, FRONT AND REAR

Bearings	ler
Tires	SS
Tire rims (demountable) 9" one-piece rin	ns



# STEERING

Hydraulic power steering providing stopped engine steering meeting SAE J53 and J1151.

Minimum turning radius	
Maximum steering range, right or left	
Articulation	25°



Service brake Foot operated, sealed oil disc brakes,
hydraulically actuated on four tandem wheels,
13691 cm² 2122 in² total braking surface
Parking brake Manually actuated, spring applica,
hydraulically released caliper



# Front Frame Structure -Height 300 mm 11.8" Front Frame Structure -Width 300 mm 11.8" Front Frame Structure -Thickness 14 mm 0.55"



A-shaped, u-section press formed and welded construction for maximum strength with a replaceable drawbar ball.





Single piece rolled ring forging. Six circle support shoes with replaceable wear surface. Circle teeth hardened on front 180° of circle.

Diameter (outside)	n 5'0"
Circle reversing control hydraulic rotation	360°



### MOLDBOARD

Hydraulic power shift fabricated from high carbon steel. Includes replaceable metal wear inserts, cutting edge and end bits. Cutting edge and end bits are hardened.

Dimensions	3710 x 645 x 19 mm 12'2" x 2'1" x 0.75"
Arc radius	
Cutting edge	152 x 16 mm 6" x 0.63"



# BLADE RANGE

Left	
Moldboard side shift:	
Right	
Left	
Maximum shoulder reach outside rear tires (frame straight)	
Right	
Left	
Maximum lift above ground	
Maximum cutting depth	
Maximum blade angle, right or left	
Blade tip angle 40° forward. 5° backward	



## HYDRAULICS

Load-sensing closed center hydraulics with variable displacement piston pump. short stroke/low effort direct acting control valves with preselected maximum flow setting to each function. Double acting anti-drift check valves on blade lift, tip, circle shift, articulation, and leaning wheels.

Output
Standby pressure
Maximum system pressure 20.6 MPa 210 kg/cm <sup>2</sup> 3,000 psi

# ♥ ♥ V ♥ INSTRUMENT

Electric monitoring system with diagnostics:

Electric monitoring system with diagnossus:
Gauges:
Standard articulation, engine coolant temperature,
Standard fuel level, speed meter, TM shift indicator, engine tachometer
torque converter oil temperature
Warning lights/Indicator:
Standard battery charge, brake oil pressure,
blade float, brake oil pressure, inching temperature,
directional indicator, engine oil pressure, heather signal, lift arm lock, parking brake,
differential lock, torque converter oil temperature, ec., Pender
fan reverse, rpm set, high beam, working lights
Optional batter signal beam, working lights



Includes lubricants, coolant, full fuel tank

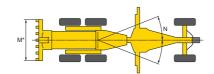
Fuel tank	109.9 U.S. gal
Cooling system	6.6 U.S. gal
Crank case	6.1 U.S. gal
Transmission	11.9 U.S. gal
Final drive	4.5 U.S. gal
Tandem housing (each)	15.1 U.S. gal
Hydraulic system 69 ltr	18.2 U.S. gal
Circle reverse housing 7 Itr	1.8 U.S. gal

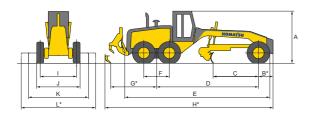


includes lubricarits, coolarit, full fuer tarik
Total
On rear wheels
On front wheels
With rear mounted ripper and front push plate:
Total
On rear wheels
On front wheels
With front mounted scarifier:
Total
On rear wheels
On front wheels

11







Α	Height: Low profile cab:	3200 mm	10'6"
B*	Center of front axle to counterweight (Pusher)	927 mm	3'0"
С	Cutting edge to center of front axle	2580 mm	8'6"
D	Wheel base to center of tandem	6480 mm	21'3"
Е	Front tire to rear bumper	9205 mm	30'2"
F	Tandem wheelbase	1525 mm	5'0"
G*	Center of tandem to back of ripper	2780 mm	9'1"
H*	Overall length	10575 mm	34'8"
1	Track of gauge	2060 mm	6'9"
J	Width of tires	2485 mm	8'2"
K	Width of standard moldboard	3710 mm	12'2"
L*	Width of optional moldboard	4320 mm	14'2"
M*	Ripper beam width	2305 mm	7'7"
N	Articulation, left or right	25"	

\*optional



# S STANDARD EQUIPMENT

- Engine and Related Items
  Double element air cleaner and dust indicator.
  Engine: Komatsu SAA6D107E-1, EPA Tier 3 certified, turbocharged and air-to-air affercooled, standard VHPC, 145-218 net horsepower
  Fuel line pre-filter
  Hood-sides for engine compartment
  Air intake extension
  Electrical Systems
  Alarm. back-up, 24V
  Batter, extreme duty, 1146 cca each
  Dome light, cab
  Horn, electric
  Lights: back-up, stap, tail, directional, headilights (2 halogen type, front bar mounted)
  Work lamss: front (4), rear (2)

- headights (2 halogen type, front bar mounted)
  Work lamps: front (4), rear (2)
  Speedometer Indicators: parking brake, differential lock, blade float, lift arm lock, ligh beam, eco. engine P mode, cooling fan reverse, rpm set, engine oil pressure, battery charge, brake oil pressure, differential oil temperature

- Operator Environment

  Cab: low profile enclosed ROPS/FOPS (SAE J1040, J2311) with safety finted glass windows with wiper and washer

  Air conditioner (R134a)

  Console, adjustable with instrument panel monitoring system

  Mirrors: interior cab, right and left exterior mirrors

- monitoring system
  Mirrors: interior cab, right and left exterior
  mirrors
  Seat, deluxe adjustable cloth with
  retractable seat bet
  Sound suppression, cab and floor mat
  Wepers, front, doors, and rear
  12V (10A) power port
  Power Train
  Dual mode Transmission (8F-4R)
  power shift, direct drive and
  torque conventer with auto shift
  Akle, rear full fleating, planetary type
  Service brakes, fully hydraulic wet disc
  Brake, parking, spring applied, hydraulic
  release, disc, fully floor and
  Differential, lockutable
  Tires and rims: 1400-24 (G2)
  tubeless bias tires on 9° rims (6)

GD655-5

- Work Equipment and Hydraulics
  Circle, drawbar mounted, 360° rotation hydraulic blade lift and circle side shift
  Circle slip clutch
  Hydraulic system, closed center, load
- sensing

  Moldboard: 3710 mm x 645 mm x 19 mm 12'2" x 2'1" x 0.75" with replaceable end Molichoard: 3710 mm x 645 mm x 19 mm 122" x 2"1" x 0.75" with replaceable end bits, through-hardened cutting edges 152 mm x 16 mm 6" x 0.63", lydraulic bits deside shift and hydraulic tilt with anti-drift check valves. Maximum moldboard angle position 90" right 8 left
   Sleering, hill hydraulic with tilt steering wheel plus learing front wheels and frame articulation wall-drift check valves
   9 section hydraulic control valve
   Blade lift float detent style, LH and RH
   Other Standard Equipment
   Painting, Komatsu standard color scheme
   steps and handrails, rear, right, and left side
   Vandalism protection includes lockable access to fuel tank, battery cover, and

- access to fuel tank, battery cover, and engine side covers

  Tool box with lock
  Fuel tank, ground level access
  Battery disconnect switch



- Accumulators, anti-shock for blade lift
   10 section hydraulic control valve
   Cab mount work lamps (4)
   General toolk till
   Pre-cleaner, Turbo II
   Pusher plate, additional
   Additional heater
   Add/microla mx 454 mm x 25 mm 122" x 21" x 0.98"
   4220 mm x 454 mm x 25 mm 122" x 21" x 0.98"
   4220 mm x 454 mm x 25 mm 122" x 21" x 0.98"
   with replaceable end bits, through-hardened culting edges 152 mm x 16
   mm 6" x 0.83"
   Trees and rims: 17.5R25 tubeless radial tires on 13" rims (6)
   Front blade
   Ripper, assembly, rear mounted
   Ripper shanks and points, 2 additional
   Scarifier, sasembly, 1-shank type
   Scarifier, sasembly, 1



Standard equipment may vary for each country, and this specification sheet may contain attachments and optional equipment that are not available in your area. Please consult your Komatsu distributor for detailed information.