



HORSEPOWER

Net: **218 HP** 163 kW Gross: **221 HP** 165 kW

OPERATING WEIGHT

38,250 lb 17350 kg **42,946 lb** 19480 kg (with ripper)

BLADE LENGTH

14' 4.27 m



Photos may include optional equipment.

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THE ROAD TO SUCCESS STARTS WITH KOMATSU

The GD655-7 features a SAA6D107E-3 Tier 4 Final Compliant Engine and when coupled to Komatsu's Dual Mode Transmission, operators benefit from maximum control while reducing fuel consumption by up to 15% when compared to the GD655-5. Komatsu's Dual Mode Transmission utilizes both a torque converter and a direct drive clutch to achieve high tractive effort, inching ability, high ground speeds and low fuel consumption.

Performance Features

- Dual mode transmission takes advantage of the torque multiplication and inching characteristics of a torque converter as well as the low fuel consumption and increased travel speed of a direct drive.
- Automatic engine stall prevention disengages direct drive and utilizes a torque converter preventing engine stall
- · Economy and Power engine modes
- Spring applied, hydraulic-release parking brake with larger caliper diameter for increased capacity
- Long wheelbase optimizes fine grading performance and body stability while maintaining a 24.2 ft turning radius
- · 25 degree articulation angle
- Closed-center load sensing hydraulics system ensures predictable work equipment response, multi-functioning abilities, reduced noise, and reduced fuel consumption.
- New articulation stop-at-center feature automatically returns the machine to the articulation center line
- New shift lever and F-N-R switch to simplify operation
- New gearshift preset function allows for initial presets of forward/ reverse shuttle gears



New Larger Operator's Cab

- ROPS/FOPS Level II
- New high-capacity seat design with air suspension
- Auxiliary jack for MP3 device and 2 x 12V sockets
- New low-effort electronic proportional control levers
- · New steering wheel and steering lever
- · LCD monitor panel with enhanced capability
- Standard rearview monitoring system with separate color monitor
- Hexagonal cab design provides excellent visibility of the moldboard
- New fingertip control allows for more precise and natural feeling of controls
- · Operator presence monitoring system

Serviceability

- · Hydraulically driven, reversible cooling fan
- Monitor based diagnostics
- Dust boots installed on control valves prevent contamination
- · Ground level fueling with no obstruction from ripper
- Fuel pre-filter and water separator
- Battery box location provides protection from dust and debris
- · Battery disconnect switch can be locked for service

Standard Features

- Air conditioner/heater
- KOMTRAX Level 5
- · Blade-lift accumulators
- · Circle slip clutch
- · Cab mounted work lights
- Plug-and-Play for Topcon System including integrated fingertip control levers in the cab

Structural / Quality Features

- Komatsu Harmony all major components are designed and manufactured by Komatsu
- New reduced cab noise by fine tuning rigidity of driveline (72 dB(A) in cabin)
- Optimized lubrication circuit in transmission for increased durability
- · Larger drive shaft for increased durability
- · Strong front frame
- Steel backed, rubber clamps to keep hydraulic lines cleanly routed and reduce chafing

Komatsu Tier 4 Final Engine

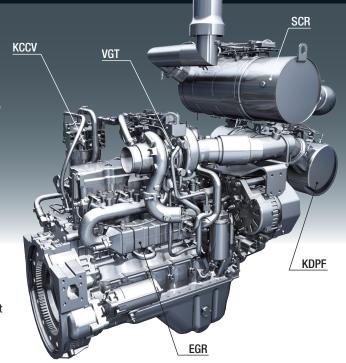
- The SAA6D107E-3 engine reduces fuel consumption by up to 15% compared to the GD655-5
- Selective catalytic reduction (SCR) system
- Komatsu Diesel Particulate Filter with automatic active regeneration
- Hydraulically actuated Variable Geometry Turbocharger
- . Hydraulically actuated Cooled EGR
- Komatsu auto idle shutdown reduces unnecessary idle time, reducing SMR, fuel consumption, and exhaust emissions
- SCR system includes a heated DEF tank, heated lines and a reversing pump to prevent DEF from freezing in the delivery lines.

PERFORMANCE FEATURES

KOMATSU NEW ENGINE TECHNOLOGIES

Tier 4 Final Engine

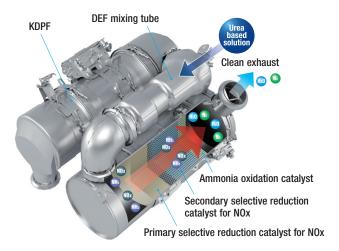
The Komatsu SAA6D107E-3 engine is EPA Tier 4 Final emissions certified and provides exceptional performance while reducing fuel consumption. Based on Komatsu proprietary technologies developed over many years, this diesel engine reduces nitrogen oxides (NOx) compared to the previous model.



Technologies Applied to New Engine

Heavy-duty aftertreatment system

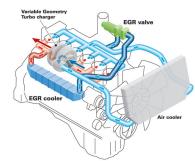
This new system combines a Komatsu Diesel Particulate Filter (KDPF) and Selective Catalytic Reduction (SCR). The SCR NOx reduction system injects the correct amount of Diesel Exhaust Fluid (DEF) at the proper rate, thereby decomposing NOx into non-toxic water vapor (H₂O) and nitrogen gas (N₂).



Heavy-duty cooled Exhaust Gas Recirculation (EGR) system

The system recirculates a portion of exhaust gas into the air intake and lowers combustion temperatures, thereby

reducing NOx emissions. EGR gas flow has been decreased for Tier 4 Final with the addition of SCR technology. The system dramatically reduces NOx, while helping cut fuel consumption below Tier 4 Interim levels.

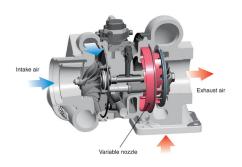


Advanced Electronic Control System

The electronic control system performs high-speed processing of all signals from sensors installed in the vehicle providing total control of equipment. Engine condition information is displayed on the monitor inside the cab, providing necessary information to the operator. Additionally, managing the information via KOMTRAX helps customers keep up with required maintenance.

Variable Geometry Turbocharger (VGT) system

The VGT system features proven Komatsu design hydraulic technology for variable control of air-flow and supplies optimal air according to load conditions. The upgraded version provides better exhaust temperature management.



Higher Productivity & Lower Fuel Consumption

A new variable displacement piston pump, improvements in the transmission and driveline components, and a sophisticated electronic control system for the engine and transmission all combine to achieve optimum and efficient operation. The new GD655-7 will consume up to 15% less fuel than the GD655-5. (The GD655-7 uses the same engine as the GD655-6)

Fuel consumption

up to 5% reduction (P mode) up to 15% reduction (E mode)

(Compared with GD655-5)

Hydraulically Driven Cooling Fan

The engine cooling fan rotation speed is electronically controlled. This system increases fuel efficiency, reduces the operating noise levels, and requires less horsepower than a belt driven fan. The fan is manually reversible by the operator for periodic cleaning.

Long Wheel base & Short Turning Radius

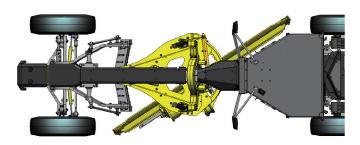
Longest wheelbase in class for exceptional fine grading performance. A 25 degree articulation angle allows the GD655-7 to maintain a tight turning radius of 24'3" making this grader very maneuverable for tight road work and cul-de-sac operation.

Komatsu Auto Idle Shutdown

Komatsu auto idle shutdown automatically shuts the engine down after idling for a set period of time to reduce unnecessary fuel consumption and exhaust emissions. Idle duration prior to shutdown can be easily programmed in the monitor.

Aggressive Moldboard Angles

A long wheelbase 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, clay or for snow and ice removal.



Selectable Working Modes

The operator can choose between two working modes, Economy Mode or Power Mode, depending on their work demand and conditions.



Power mode



Greater productivity can be achieved by taking full advantage of high output power. P mode is appropriate for heavy grading applications.

Economy mode



E mode can be selected for reduced fuel consumption. E mode is appropriate when performing light and finish grading.

Forward kW (HP)

	P mode E M		lode		
	AUTO	MANU	AUTO MANU		
F1	135	135			
F2	(180)				
F3	450	(180)	135	135	
F4	150	150			
F5	(200)	(200)	(180)	(180)	
F6		(=00)			
F7	163	163	163	163	
F8	(218)	(218)	(218)	(218)	

Reverse kW (HP)

	` ,				
	P mode		E Mode		
	AUTO	MANU	AUTO MANU		
R1	135	135			
R2	(180)	(180)	135	135	
R3	150	150	(180)	(180)	
R4	(200)	(200)			

DUAL-MODE TRANSMISSION

Komatsu Dual-mode Transmission

The dual-mode transmission is built specifically for Komatsu motor graders. The transmission provides full power shifting as well as inching capabilities and automatic shifting in the higher ranges.

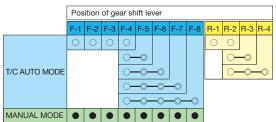
Transmission Mode Selection

Manual Mode

Transmission functions as a conventional direct drive with 8 forward speeds. Operators will benefit from consistent machine speed and reduced fuel consumption. When the control system senses an increase in load and determines that the engine is at risk of a stall condition, the direct drive clutch is automatically disengaged, allowing the power to be transferred through the torque converter, preventing engine stall.

Automatic Mode

When the gear is set to F1-F4, the transmission will remain in the desired speed range and utilizes the torque converter. The high tractive effort of the torque converter allows a start from stop in any range, F1-F4. Operators will enjoy the easy, 2 pedal (accelerator and brake) operation. In the higher ranges (F5-F8) the electronic control system will automatically shift the transmission from F4 to the selected speed range and automatically engage/disengage the lock-up torque converter as necessary.



Electronic over-speed protection

Helps prevent engine and transmission damage caused by premature downshifting and grade-induced over speeding.

Electronic Transmission Control

The electronic control produces smooth shifting, which enables the operator to maintain a uniform grade while shifting. Smooth shifts also extend the life of the transmission by reducing the shock loads in the transmission clutches. A new shift lever and easy to use forward-neutral-reverse switch is provided.

Low Effort Inching Pedal

The inching pedal provides the operator precise control of machine travel at low speeds. This feature benefits all operators, but especially those accustomed to conventional, direct drive motor graders.

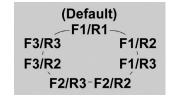


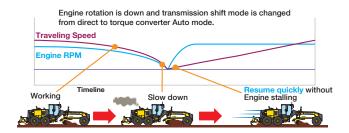
Shift Lever and F-N-R Switch

The GD655-7 offers finger control shift lever and F-N-R switch near the right control levers. The operator can easily shift the gear and set direction during work equipment control.

Gearshift preset function

F-N-R switch can set initial shift position to start, which reduces frequent shift lever operation during shuttle shifting.





Anti Stall Feature

Prevents engine stalling while in manual mode by automatically disengaging the lock up clutch and shifting to torque converter mode. The torque converter absorbs the load allowing the machine to keep moving and not stall or stop.

ADVANCED CONTROL FEATURES

Closed-center Load Sensing System (CLSS)

The variable displacement pump idles at low output. When it senses a load requirement, the pump supplies flow and pressure quickly to match the demand. The result is less hydraulic system heat, quick response and lower fuel consumption. The bottom line is greater efficiency with this Closed-center Load Sensing System (CLSS).

New Articulation Stop-At-Center

A new feature from the previous model, the articulation stop-at-center allows the operator to be more efficient and productive. The articulation automatic return brings the machine back to center with just a movement of the articulation lever. This eliminates the need to operate additional switches or levers, and removes repetitive articulation to center correction by the operator.

New Electronic Proportional 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.

Balanced Flow

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.

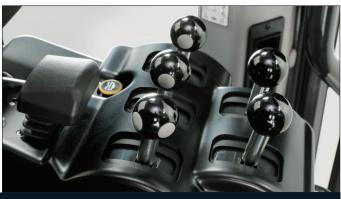
PLUG-AND-PLAY FOR TOPCON SYSTEM

The GD655-7 accepts TOPCON components without any additional modification to the hydraulic circuit. Just plug them in, and the machine control system provides complete control of the blade. The addition of the TOPCON system delivers higher productivity by generating more accurate results in less time, using less fuel and construction material.



Integrated control levers

Operating switches for the machine control system are integrated with the work equipment lever. It provides better operational feeling and reduces modification of the lever while installing the equipment.



OPERATOR ENVIRONMENT



New Steering Wheel and Steering Lever

By moving the control console forward and backward, entry and exit



Visibility

Excellent visibility from the hexangular cab and layout of the rear side pillars boost operator confidence and productivity in all grader applications. Well-positioned blade linkage provides an unobstructed view of the moldboard and front tires.



Less Effort

The new control system reduces operator arm movement, and relieves stress during operation.

Movement of arm

Reduce up to 92%

Stress during operation

Reduce up to 10%

Typical test data at Komatsu test center

Fingertip Control

Short lever throws and low effort in both directions allows the operator to use multiple controls with one hand.



Excellent Rear Visibility

The operator has an excellent view to the rear of the machine as well as the ripper.



ROPS/FOPS Cab

The low profile, enclosed cab offers a wide field of vision and roomy interior to reduce operator fatigue. The cab is ROPS/ FOPS Level II (ISO 3471/ISO 3449) certified.



Rear View Monitoring System

The operator can view the rear of the machine with a full color monitor that is located above the windshield. Visual guidelines can also be added for additional convenience.





Low Noise

New hydraulically driven fan and redesigned layout of the cooling system provide a low noise level.

Operator's ear dynamic noise level (ISO6396)

72 dB (A)

Circumference dynamic noise level (ISO6395)

106 dB (A)

(Typical test data at Komatsu test center)

New Suspension Seat

The air suspension, fabric covered seat which is adjustable to the operator's weight is provided as standard. The suspension seat dampens vibrations transmitted from the machine and reduces operator fatigue.

Seat Belt Warning Indicator

A warning indicator on the monitor appears when the seat belt is not fastened.

Auxiliary input jack

Connect operator's preferred digital device to the auxiliary jack to enjoy audio through the factory stereo system.



Electric Throttle Control

An RPM set switch allows the operator to perfectly match ground speed to working conditions. The switch has three positions, auto, off, and manual. When the engine speed is set and the switch is positioned in Auto, the brake or acceleration pedal will temporarily override the RPM set point.

Air Conditioner

Well-positioned air conditioning vents keep the cab temperature comfortable regardless of weather conditions.



Standard Equipment

Magazine box











MAINTENANCE & DURABILITY FEATURES

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.
- Circuits and fuse sizes are clearly identified in the fuse panel located in the cab.
- The tandem oil check point is conveniently located at the end of the tandem.
- Refueling from the ground is easy.
- Engine oil, hydraulic oil and coolant drains are positioned for easy maintenance.
- A tandem axle step is provided with a punched metal foot plate to ensure stable footing during maintenance and inspection.



Ground refueling



Easy Access DEF Tank

The DEF tank is located at the rear of the machine and accessible from ground level. A lockable, hinged door prevents the need to open the hood during refilling. An external sight gauge aids in preventing overflow and spillage while refilling.



Battery Disconnect Switch

For inspection and maintenance, the batteries can be disconnected with the master disconnect switch.





Battery Location

The battery box has been relocated to minimize dust accumulation.

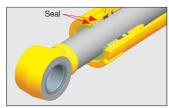
Metal Backed, Rubber Isolated Hose Clamps

Hydraulic hoses are routed and secured with metal backed, rubber isolating clamps to prevent vibrations, chafing, and damage.



Double Seal, Blade Side Shift Cylinder

A double seal design has been adopted on the blade side shift cylinder given its proximity to the ground, making it susceptible to contamination.



Reinforced Blade Circle

The cross-sectional area of the circle has been increased to improve strength and durability. Structural changes to the drawbar and front frame also improve structural integrity and rigidity.



Rugged Construction

The A-frame drawbar has a 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° of the circle. For maximum support, the circle is secured to the drawbar by six support shoes.

Protection System

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

KOMTRAX EQUIPMENT MONITORING



KOMTRAX is

on all Komatsu

- KOMTRAX is Komatsu's remote equipment monitoring and management system
- KOMTRAX continuously monitors and records machine health and operational data
- Information such as fuel consumption, utilization, and a detailed history lowering owning and operating cost



- Know when your machines are running or idling and make decisions that will improve your fleet utilization
- Detailed movement records ensure you know when and where your equipment is moved
- Up to date records allow you to know when maintenance is due and help you plan for future maintenance needs





- KOMTRAX data can be accessed virtually anywhere through your computer, the web or your smart phone
- Automatic alerts keep fleet managers up to date on the latest machine notifications



- Knowledge is power make informed decisions to manage your fleet better
- Knowing your idle time and fuel consumption will help maximize your machine efficiency
- Take control of your equipment - any time, anywhere









KOMATSU PARTS & SERVICE SUPPORT



KOMATSU CARE

Program Includes:

*The GD655-7 comes standard with complimentary factory scheduled maintenance for the first 3 Years or 2,000 Hours, whichever occurs first.

Planned Maintenance Intervals at:

500/1000/1500/2000 hour intervals. (250 hr. initial interval for some products) Complimentary Maintenance Interval includes: Replacement of Oils & Fluid Filters with genuine Komatsu Parts, 50-Point inspection, Komatsu Oil & Wear Analysis Sampling (KOWA) / Travel & Mileage (distance set by distributor; additional charges may apply)

Benefits of Using Komatsu CARE

- Assurance of Proper Maintenance with OEM Parts & Service
- Increased Uptime & Efficiency
- Factory Certified Technicians Performing Work
- Cost of Ownership Savings
- Transferable Upon Resale

Complimentary KDPF Exchanges

The GD655-7 comes standard with 2 Complimentary KDPF Exchange units for the first 5 Years or 9000 hours whichever occurs first. The suggested KDPF Exchange unit service intervals are 4500 hours & 9000 hours. End user must have authorized Komatsu distributor perform the removal & installation of the KDPF.

Complimentary SCR Maintenance

The GD655-7 also includes 2 factory recommended services of the Selective Catalytic Reduction (SCR) Diesel Exhaust Fluid (DEF) system during the first 5 Years or 9000 hours whichever occurs first. The service includes factory recommended DEF tank flush & strainer cleaning at the suggested service intervals of 4500 hours & 9000 hours.

Interval PM	i250	500	1000	1500	2000
KOWA SAMPLING – engine and hydraulic only	1				
CLEAN AC FRESH AND RECIRC AIR FILTERS	1				
CHANGE TRANSMISSION CASE OIL	1		✓		√
CLEAN TRANSMISSION STRAINER	1		√		√
CHANGE FINAL DRIVE CASE OIL	1		1		√
REPLACE FINAL DRIVE BREATHER	1		√		√
REPLACE HYDRAULIC OIL FILTER	1		√		√
CHECK CIRCLE ROTATION GEAR CASE OIL	1				√
CHANGE TANDEM CASE OIL	1				√
LUBRICATE LINKAGE, JOINTS, & CYLINDERS	1	1	√	✓	√
CHECK AND CLEAN AIR CLEANER	1	1	√	✓	√
DRAIN SEDIMENT FROM FUEL TANK	1	1	1	√	√
COMPLETE 50 POINT INSPECTION FORM;	1	1	1	1	1
LEAVE PINK COPY WITH CUSTOMER OR IN CAB	•	•	٧	•	v
RESET MONITOR PANEL MAINTENANCE COUNTER FOR APPROPRIATE ITEMS	1	1	1	1	1
KOWA SAMPLING – transmission, final drive,		1	1	1	1
tandem(I & r), engine and hydraulic			-		
CHANGE ENGINE OIL		1	1	√	✓
REPLACE ENGINE OIL FILTER		√	✓	✓	✓
REPLACE FUEL PREFILTER		1	1	√	✓
REPLACE AC FRESH & RECIRC FILTERS		✓	1	✓	✓
REPLACE FUEL MAIN FILTER			1		✓
REPLACE TRANSMISSION OIL FILTER			1		✓
REPLACE TRANSMISSION BREATHER			1		✓
REPLACE DEF BREATHER			1		✓
REPLACE HYDRAULIC TANK BREATHER			√		√
CHANGE HYDRAULIC OIL			√		√
CLEAN HYDRAULIC TANK STRAINER			√		√
REPLACE KCCV FILTER					√
REPLACE DEF PUMP FILTER					1
FACTORY TRAINED TECHNICIAN LABOR	1	✓	✓	✓	√
2 KDPF Exchanges suggested at 4,500 Hrs and 9	,000 F	lrs.			
2 SCR System Maintenance Services suggested a	at 4,50	00 Hrs	and	9000 I	Irs.

Komatsu CARE® - Extended Coverage

- Extended Coverage can provide peace of mind by protecting customers from unplanned expenses that effect cash flow
- Purchasing extended coverage locks-in the cost of covered parts and labor for the coverage period and helps turn these into fixed costs



Komatsu Parts Support

- 24/7/365 to fulfill your parts needs
- 9 parts Distribution Centers strategically located across the U.S. and Canada
- Distributor network of more than 300 locations across U.S. and Canada to serve you
- Online part ordering through Komatsu eParts
- Remanufactured components with same-as-new warranties at a significant cost reduction



Komatsu Oil and Wear Analysis (KOWA)

- KOWA detects fuel dilution, coolant leaks, and measures wear metals
- Proactively maintain your equipment
- Maximize availability and performance
- Can identify potential problems before they lead to major repairs
- Reduce life cycle cost by extending component life

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SPECIFICATIONS



ENGINE

Model
Type Water-cooled, 4-cycle, direct injection
AspirationTurbocharged, aftercooled, cooled EGR
Number of cylinders
Bore
Stroke
Piston displacement
Gross horsepower (Manual mode)
P-mode
Gear 1-3136 kW 183 HP / 2000 rpm
Gear 4-6
Gear 7-8
E-mode
Gear 1-6
Gear 7-8
Net horsepower (Manual mode)**
P-mode
Gear 1-3134 kW 180 HP / 2000 rpm
Gear 4-6
Gear 7-8
E-mode
Gear 1-6
Gear 7-8

** Net horsepower output for standard (SAE J1349) including air cleaner, alternator (not charging), water pump, lubricating oil, fuel pump, muffler and fan running at minimum speed.

Max. torque 941Nm 96.0 kgm **694 ft-lbs** / 1450 rpm

 Torque rise
 30 %

 Fan speed
 Max. 1450 rpm

 Air cleaner
 2-stage, dry-type



TRANSMISSION AND TORQUE CONVERTER

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

Speeds (at rated engine speed)

* EPA Tier 4 Final emissions certified.

Gear	Forward	Reverse
1st	3.8 km/h 2.4 mph	5.0 km/h 3.1 mph
2nd	5.5 km/h 3.4 mph	10.2 km/h 6.3 mph
3rd	7.7 km/h 4.8 mph	22.3 km/h 13.9 mph
4th	11.2 km/h 7.0 mph	44.4 km/h 27.6 mph
5th	16.9 km/h 10.5 mph	-
6th	24.5 km/h 15.2 mph	-
7th	33.7 km/h 20.9 mph	-
8th	48.5 km/h 30.1 mph	-
otti	40.0 KIII/II 30.1 Mpn	•



TANDEM DRIVE

Oscillating welded box section520 mm x 203 mm 1'8" x 8"
Side wall thickness: Inner 22 mm 0.87"
Outer
Wheel axle spacing 1525 mm 5'0"
Tandem oscillation
Tank



FRONT AXLE

Type S	olid bar construction welded steel sections
Ground clearance at	pivot 620 mm 2'0"
Wheel lean angle, rig	nt or left
Oscillation, total	



REAR AXLE

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



WHEELS, FRONT AND REAR

Bearings			.Tapered roller
Tires			17.5R25
Tire rims (demou	ntable)	13"	one-piece rims



STEERING



BRAKES

Service brake Foot operated, sealed oil disc brakes, hydraulically actuated on four tandem wheels.

Parking brake Manually actuated, spring applied, hydraulically released caliper.



FRAME

Front Frame Structure		
Height	300 mm	11.8"
Width	300 mm	11.8"
Upper, Lower	. 25 mm	1.0"



DRAWBAR

SPECIFICATIONS



CIRCLE

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



MOLDBOARD

Hydraulic power shift fabricated from high tensile steel. Includes replaceable metal wear inserts, cutting edge and end bits.

Cutting edge and end bits are hardened.



BLADE RANGE

 Moldboard side shift:
 Right
 625 mm 2'1"

 Left
 625 mm 2'1"

 Maximum shoulder reach outside rear tires (frame straight)
 Right
 2480 mm 8'2"

 Left
 2590 mm 8'6"

 Maximum lift above ground
 480 mm 1'7"

 Maximum cutting depth
 615 mm 2'0"

 Maximum blade angle, right or left
 90°

 Blade tip angle
 40° forward, 5° backward



HYDRAULICS

Load-sensing closed center hydraulics with variable displacement piston pump. Electronic proportional controlled 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 (at engine rated rpm). 203 L/min 53.6 U.S. gal/min Standby pressure 3.4 MPa 35 kg/cm² 500 psi Maximum system pressure . . 20.6 MPa 210 kg/cm² 3,000 psi



INSTRUMENT

Electric monitoring system with diagnostics: Gauges:

Standard: articulation, engine coolant temperature, fuel level, speed meter, transmission shift indicator, engine tachometer, torque converter oil temperature

Warning lights/Indicator:

Standard: battery charge, blade float, brake oil pressure, inching temperature, directional indicator, engine oil pressure, hydraulic oil temperature, heater signal, lift arm lock, parking brake, differential lock, torque converter oil, temperature, ecology, E-mode, fan reverse, rpm set, high beam, working lights



CAPACITIES (REFILLING)

Fuel tank	390 L 103.0 U.S. gal
Cooling system	30 L 7.9 U.S. gal
Crank case	23 L 6.1 U.S. gal
Transmission	45 L 11.9 U.S. gal
Final drive	16 L 4.2 U.S. gal
Tandem housing (each)	57 L 15.1 U.S. gal
Hydraulic system	69 L 18.2 U.S. gal
Circle reverse housing	7 L 1.8 U.S. gal
DEF Tank	36 L 9.5 U.S. gal



OPERATING WEIGHT (APPROXIMATE)



RIPPER

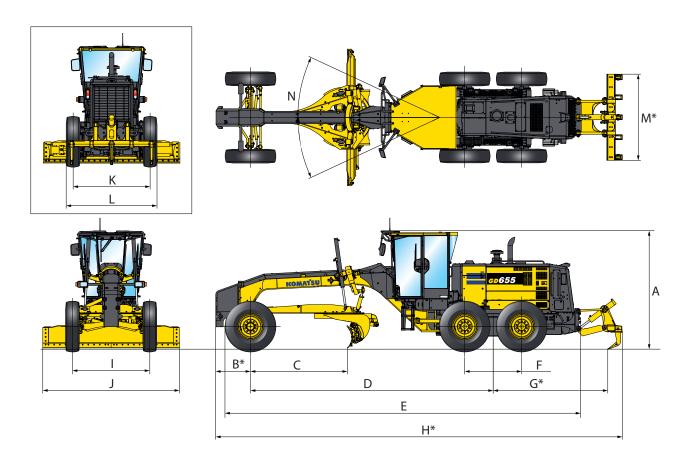
Ripping depth, maximum	42	5 mm	1'5"
Ripper shank holders			5
Ripper shank holder spacing	53	4 mm	1'9"
Penetration force 9650	kg	21,27	5 lbs
Pryout force	kg	36,59	7 lbs
Machine length increase, beam raised	69	0 mm	2'5"



SCARIFIER

Middle, V-type	
Working width	8"
Scarifying depth, maximum 190 mm 7.	5"
Scarifier shank holders	11
Scarifier shank holders spacing 138 mm 5.	4"
Rear	
Working width	2"
Scarifying depth, maximum 165 mm 6.	5"
Scarifier shank holders	9
Scarifier shank holders spacing 267 mm 10.	5"

DIMENSIONS



Height: Low profile cab	3200 mm	10'6"
Center of front axle to counterweight (Pusher)	930 mm	3'1"
Cutting edge to center of front axle	2580 mm	8'6"
Wheelbase to center of tandem	6495 mm	21'4"
Front tire to rear bumper	9510 mm	31'2"
Tandem wheelbase	1525 mm	5'0"
Center of tandem to back of ripper	3065 mm	10'1"
Overall length	10875 mm	35'8"
Tread (front)	2170 mm	7'1"
Width of standard moldboard	4270 mm	14'0"
Tread (rear)	2160 mm	7'1"
Width over tires	2680 mm	8'9"
Ripper beam width	2305 mm	7'7"
Articulation, left or right	25°	
	Center of front axle to counterweight (Pusher) Cutting edge to center of front axle Wheelbase to center of tandem Front tire to rear bumper Tandem wheelbase Center of tandem to back of ripper Overall length Tread (front) Width of standard moldboard Tread (rear) Width over tires Ripper beam width	Center of front axle to counterweight (Pusher) Qutting edge to center of front axle Wheelbase to center of tandem Front tire to rear bumper Tandem wheelbase 1525 mm Center of tandem to back of ripper Overall length Tread (front) Width of standard moldboard Tread (rear) Width over tires 2305 mm Ripper beam width

^{*:} optional



STANDARD EQUIPMENT FOR BASE MACHINE

Engine and its related items:

- Accelerator and electric throttle control
- Air cleaner, double element with dust indicator
- Air intake extension
- Antifreeze -22 F(-30C)
- Auto-idle Shutdown
- Hydraulic driven, reversing, cooling fan, blower type, plastic blade, with fan guard
- Engine, Komatsu SAA6D107E-3, 145 to 218 VHP EPA Tier 4 Final certified, turbocharged and air-air after cooled
- Fuel line pre-filter
- KDPF After-Treatment Assembly Consisting of KDOC and KCSF
- Pre-cleaner
- Secondary Engine Shutdown Switch
- Selective Catalytic Reduction (SCR) System

Electrical system:

- Alarm, backup
- Alternator, 140 Ampere, (24V)
- Batteries, Extreme duty, 2 x 12V, 1146 cca each
- Battery, disconnect switch
- Dome light cab
- Headlights,(2) halogen type, front bar mounted
- Horn, electric
- Indicator lights:
- Battery charge
- Blade float
- Brake oil pressure
- Cooling fan reverse mode
- Differential lock
- Differential oil temperature
- Dual power mode, economy and power
- Engine oil pressure
- Engine RPM set
- Lift arm lock
- Lights, high beam

- Parking brake
- Transmission system electrical circuit
- Lights: backup, stop, directional, tail
- Operator presence monitoring system
- Starter 5.5kW
- Working light, front(4) and rear(2)
- Working light ,(4)cab mounted flood type

Operator environment:

- 12V (10A) power port
- Adjustable air suspension seat
- Adjustable tilt/telescopic steering wheel
- Air conditioner (R134a) with heater
- AM/FM radio with Aux input
- Cab: low profile with ROPS/FOPS Level II (SAE J1040, J2311)
- Console, adjustable with instrument panel monitoring system
- Electric defroster rear window
- Electronic height adjustable LH and RH consoles
- Mirrors: interior cab, right and left exterior mirrors
- Multi-monitor with 7" LCD Display
- Rearview Camera and Monitor
- Sound suppression,72 Dba at operators ear with floor mat with tinted windows, front, rear and door intermittent wiper/washers

Power train:

- Dual mode transmission (8F-4R) power shift direct drive and torque converter with auto shift
- Electronic gear shift lever
- Axle, rear full floating, planetary type reduction
- Service brakes, fully hydraulic wet disc
- Parking brake, spring apply, hydraulic release dry disc
- Differential, manual lock/unlock
- Tires and rims: 17.5R25 radials on one-piece 13" rims (6)

Transmission underguard

Work equipment and hydraulics:

- Articulation stop-at-center
- Blade accumulators
- Blade lift float, detent type, LH and RH
- Circle, drawbar mounted, 360° rotation with blade lift and circle side shift with anti-drift check valves
- Circle slip clutch
- Low-effort electronic proportional control levers (joysticks)
- Greaseless circle wear plates
- Hydraulic control valve, 2-5 valve sections
- Hydraulic system, closed center, load sensing
- Steering, full hydraulic with tilt steering wheel plus leaning front wheels and frame articulation with anti-drift check valves. Steering lever/ joystick provided

Other standard equipment:

- Anchor point for tie offs
- Komtrax Level 5
- Precleaner, Turbo II
- Provision for Grade Control, TOPCON
- Rear hitch
- Ripper, provision for battery cover and engine side covers
- Steps and handrails, right, left and rear
- Toolbox with lock
- Vandalism protection, lockable fuel tank, hydraulic tank, battery cover, engine side covers



OPTIONAL EQUIPMENT

- 610 mm 2' LH/RH moldboard extensions
- Amber colored warning light
- Moldboard: 3710 mm x 660 mm x 22 mm
 12' x 26" x 0.87" with replaceable end bits,
 152 mm x 16 mm 6" x 0.63" through-hardened cutting edges and 5/8" hardware
- Pusher plate (for use with rear mounted ripper/scarifier assembly)
- Moldboard extensions
- Mid-mounted scarifier assembly (includes 11 shanks and replaceable points)
- Rear-mounted ripper/scarifier assembly includes (3) shanks or (9) scarifier shanks can be inserted into the available slots
- Winter tires with three piece rims



Scarifier



Ripper

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AD06(1.5M)OSP

06/19 (EV-2)



Note: All comparisons and claims of improved performance made herein are made with respect to the GD655-6 unless otherwise specifically stated. The GD655-6 & -7 share the same engine, transmission, frame, and other components.

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