KOMATSU[®] GD825A-2



HORSEPOWER Gross: 223 kW 298 HP / 2100 min⁻¹ Net: 209 kW 280 HP / 2100 min⁻¹

> **OPERATING WEIGHT** 31655 kg

BLADE LENGTH 4.88 m



WALK-AROUND



GD825A

PERFORMANCE

Blade Stability

Long Wheelbase & Short Turning Radius

EASY OPERATION

Optimized Hydraulic System

Rear Frame-mounted Cabin

RELIABILITY

Increase Uptime, Reduce Downtime

SERVICEABILITY

- Electronic Display and Monitoring System
- Easy Maintenance Design
- Elevating Cab

COMFORT

- Excellent Visibility
- Spacious Interior

		GD825A-2
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BLADE LENGTH	1	4.88 m

PERFORMANCE



Blade Stability

Weight distribution on the front and rear wheels is well balanced, particularly the large weight on the front reduces side slipping and keeps stability while carrying materials. The GD825A-2 also features a large blade down pressure thanks to optimal weight distribution, that enables the operator to easily penetrate compacted haul roads, ensuring efficient grading operation with fewer passes.

Long Wheelbase & Short Turning Radius

The long wheelbase enables high leveling performance with a long blade and easier to set the blade position.

Long wheelbase also contributes to expanding blade reach in combination with large articulation angle.

Additionally the minimum turning radius still short with wide steering angle, serves high maneuverability.



EASY OPERATION



Optimized Hydraulic System

Control valve

Komatsu Multifunctional Control Valve with Closed Load Sensing System (CLSS) Hydraulic System enable the constant cylinder speed, excellent multifunctional operation ability and fine control.

1) 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.

Rear Frame-mounted Cabin

This design enables the operator to watch the blade control easily. This cabin keeps facing to the traveling direction even during offset operation, giving the operator a natural feeling.

2) Balanced flow

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

3) Constant implement speed

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



RELIABILITY



Increase Uptime, Reduce Downtime

Slip clutch circle drive

Protects the work equipment from shock load when the blade hits an obstruction. Return of the blade position, it is easily done by lever.

Wet multiple-disc brake

This brake system is completely sealed and adjustmentfree. The large braking surface provides dependable braking capability and extends life before an overhaul.

Double seal cylinder (Blade side shift cylinder)

A double-seal design is used for the blade side shift cylinder, which is installed near the ground and possibly gets damage by dirt.

Sealed connectors

Main harnesses and controller are connected by sealed connectors providing high reliability, water resistance, and dust resistance.





SERVICEABILITY

Electronic Display and Monitoring System

The electronic display and monitoring system, located directly on the steering post for excellent visibility, continuously tracks the performance of all critical operating systems and alerts the operator in the event of a system malfunction before costly damage occurs.

Easy Maintenance Design

Accessibility to service areas

- Easy and more safety refueling from the ground
- Large hinged service door serves wide inspection area
- Service meter is integrated with the machine monitor
- Ditinguishable fuse panel in the cab
- Tandem oil check points is easy to access
- Spin-on filters for quick replacing
- Oil drains located near ground

Power train components

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

Elevating Cab

Elevating the cab facilitates quick and easy maintenance of the hydraulic piping and control linkage under the cab. The cab can be raised 710 mm without disconnecting any hydraulic piping and linkage.







COMFORT



Excellent visibility from the cab

Excellent Visibility

Exceptional visibility by quadrangle cab with front pillar and rear layout side pillar 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.



Spacious Interior

Suspension seat (Optional)

The suspension, fabric covered seat which is adjustable to the operator's weight is provided as optional.

The suspension seat dampens vibrations transmitted from the machine and reduces operator fatigue.

The seat features fold-up armrests and a retractable seat belt.



Electric shift control

The electronically controlled transmission ensures smooth, light touch speed and directional changes.



Air conditioner

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

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.

Adopted DC 12 V electrical outlet (Optional)

DC 12 V outlets is included in the operator's cab.

Storage space

The cab includes built-in storage space for personal items.



ROPS Cab

High and low profile cab is designed to ensure ROPS/FOPS (ISO 3471/ISO 3449) certification.



WORK EQUIPMENTS



Komatu Genuine Work Equipment

Moldboard

4.88 m (16 ft) moldboard is standard for GD825A-2. Optional 2 ft blade extensions for each sides are available for boosting up haul road maintenance especially for soft rock mine sites.

Ripper

Digs up hard material cannot be removed by the moldboard. This ripper can accommodates up to 7 shanks.



KOMATSU TOTAL SUPPORT





Komatsu Total Support

To keep your machine available and minimize operation cost when you need it, Komatsu Distributor is ready to provide variety of support before and after procuring the machine.

Fleet recommendation

Komatsu Distributor can study the customer's job site and provide the most optimum fleet recommendation with detailed information to meet all of your application needs when you are considering to buy new machines or replace the existing ones from Komatsu.



Product support

Komatsu Distributor gives the proactive support and secures the quality of the machinery that will be delivered.

Parts availability

Komatsu Distributor is available for emergency inquiry by the customers for genuine, quality guaranteed Komatsu parts.

Technical support

Komatsu product support service (Technical support) are designed to help customer. Komatsu Distributor offers a variety of effective services how much Komatsu is dedicated to the maintenance and support of Komatsu machine.

- Preventive Maintenance (PM) clinic
- Oil & Wear analysis program

Repair & maintenance service

Komatsu Distributor offers quality repair and maintenance service to the customer, utilizing and promoting Komatsu developed programs.

Komatsu Reman (Remanufactured) components

Komatsu Reman products are the result of the implementation of the Komatsu global policy which establishes and agrees to reduce the owning, operating and total Life Cycle Costs (LCC)

to Komatsu's customer through high quality, prompt delivery and competitively priced in own remanufactured products (QDC).



SPECIFICATIONS



ENGINE



The Komatsu HYDROSHIFT® Transmission utilizes planetary gears and hydraulically actuated, force-lubricated multipledisc clutches. A single lever completes both speed shifting and direction changes. Inching pedal allows precise finishing operation and smooth machine starts. Eight forward and reverse speeds match all job requirements. Gearshift lock device prevents accidental machine starts. Engine starts only when the shift lever is set in the park position.

Travel speeds (at rated engine speed)

Gear	Forward	Reverse
1st	4.0 km/h	4.3 km/h
2nd	5.4 km/h	5.8 km/h
3rd	8.0 km/h	8.5 km/h
4th	11.5 km/h	12.2 km/h
5th	15.8 km/h	16.9 km/h
6th	21.4 km/h	22.8 km/h
7th	31.3 km/h	33.4 km/h
8th	44.9 km/h	47.9 km/h



Oscillating welded box section	nm
Side wall thickness: Inner	۱m
Outer	۱m
Wheel axle spacing 1840 m	۱m
Tandem oscillation	rse



Type Reverse Eliot type with hydraulic leaning
Ground clearance at pivot 680 mm
Wheel lean angle, right or left 14.5°
Oscillation, total



Alloy steel, heat treated, full floating axle.



Full hydraulic orbit rool type steering control system with two
steering cylinders are directly actuated on the knuckle arm.
Minimum turning radius
Maximum steering range, right or left
Articulation



Service brakes .	. Air-actuated, wet, multiple disc brakes on
	four rear wheels. Sealed for adjustment-free
	operation.
	Two, crossed brake lines.
Parking brake	. Mechanical, dry, disc-type, mounted on
	transmission output shaft. Spring-applied and
	air-released.



Front Frame Structure

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Height	 00 mm
Width	 350 mm
Side	 16 mm
Upper, Lower	 32 mm





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



Dimensions	878 mm x 850 mm x 25 mm
Arc radius	
Cutting edge	
Blade pull	18300 kgf
Blade down pressure	15420 kgf



Circle center shift: Right	1350 mm
Left	
Moldboard side shift:	
Right	1790 mm
Left	1790 mm
Maximum shoulder reach	
Right	2500 mm
Left	2400 mm
Maximum lift	. 540 mm
Maximum cutting depth	1200 mm
Maximum blade angle, right or left	
Blade tip angle	backward



One variable-capacity piston pump powers the work equipment and steering system.

 Output
 .276 L/min

 Standby pressure
 1.0 MPa 10 kgf/cm²

 Maximum system pressure
 .24.5 MPa 250 kgf/cm²



Gauges: Service meter, air pressure, coolant temperature, fuel level, speedometer.

Warning lights/indicator: Dust indicator, blade bank pin retract indicator, final-drive oil temperature, engine oil pressure, coolant level, coolant temperature, air pressure, alternator changing, engine oil level, hydraulic oil level, engine preheating.



Fuel tank														. 5	500) L
Cooling system														7	8.5	۶L
Crank case															38	3 L
Transmission															35	۶L
Final drive															63	3 L
Tandem housing													• •	. 1	190) L
Hydraulic system																
Circle reverse housing															16	βL



Operating weight includes full fuel tank, lubricants, coolant, hydraulic equipment, operator, 4878 mm blade, 23.50-25-12pr (L-3) tires, ROPS cab, Ripper, Push plate.

Total	31655 kg
On rear wheels	22875 kg
On front wheels	. 8780 kg



RIPPER (OPTIONAL)

Ripping depth, maximum	480 mm
Ripper shank holders	7
Ripper shank holder spacing	475 mm
Penetration force	6000 kgf
Machine length increase, beam raised.	894 mm







Tire	Rim size	Rim structure
23.5-25	19.5"	Multi-piece
23.5R25	19.5"	Multi-piece



Engine and Related Items

- Air compressor (with air drier)
- Corrosion resistor
- · Double element air cleaner and dust indicator
- Engine : Komatsu S6D140E, turbocharged and water cooled, 280 HP net horsepower
- Hand throttle
- Hood-sides for engine compartment
- Precleaner

Electrical Systems

- Alarm, back-up
- Alternator, 50 A/24 V
- Horn, electric
- Indicators, blade bank pin retract indicator, final-drive oil temperature, engine oil pressure, coolant level, coolant temperature, air pressure, alternator changing, engine oil level, hydraulic oil level, engine preheating
- · Lights, back-up and headlights
- Speed meter
- Work lamps, front (4), rear (2)
- 2 x 12 V/200 Ah batteries

Operator Environment

- Console, adjustable with instrument panel
- Dome light, cab
- Floor mat, low noise
- Mirrors: interior cab, right and left exterior mirrors
- Seat, vinyl with seat belt

- Power Train
- Axle, rear full floating, planetary type
- Brake, parking, spring applied, air release, disc type
- Differential lock/unlock
- Hydroshift transmission
- Service brakes, air actuated wet disk

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
- Maximum moldboard angle position 90° right & left
- Moldboard: 4878 mm x 850 mm x 25 mm with replaceable side edges, through hardened cutting edges 254 mm x 25 mm, hydraulic blade shift and hydraulic tilt with anti-drift check valves.

- · Steering, full hydraulic with tilt steering wheel plus leaning front wheels and frame articulation with anti-drift check valves
- ٠ 9 section hydraulic control valve

Other Standard Equipment

- · Front weight
- Fuel tank, ground level access
- Painting, Komatsu standard color scheme
- Steps and handrails, rear, right and left side
- Vandalism protection includes lockable access to fuel tank and engine side covers

OPTIONAL EQUIPMENT

- 203 mm x 19 mm curved cutting edge
- 2 x 12 V/220 Ah batteries
- Accumulators, anti-shock for blade lift
- Air conditioner (R134a)
- AM/FM radio
- Alternator 75 A/24 V
- Auxiliary steering
- Blade extension, 2", LH and RH ٠
- Blade lift float detent style, LH and RH
- Cab: low or high profile enclosed ROPS/ FOPS (ISO 3471/ISO 3449) with safety tinted glass windows, front wiper and washer
- Cab mount work lamps (4)
- Cab pressurizer
- Cold area arrangement (-30°C)
- DC 12 V power port
- Engine oil pan and coolant heater
- Fire extinguisher
- General toolkit
- Heater and defrosters
- High altitude arrangement
- Lights, stop, tail and directional
- Provision for fast fuel system
- Pusher plate

- · Ripper assembly, rear mounted
- Transmission underguard
- Vandalism protection, lockable access to hydraulic oil filler cap and radiator cap
- · Washer, rear
- · Wipers, doors and rear

Standard equipment may vary for each country, and this specification sheet may contain attachments and optional equipment that are not available in your area. Up to 20% blended biodiesel fuel and paraffine fuel can be used. Please consult your Komatsu distributor for detailed information.

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