

KOMATSU®

SKID STEER LOADER

SK820-5E0
EPA TIER III
EU STAGE 3A

GROSS POWER

· 36.2 kW / 48.5 hp. @ 2,600 rpm.

OPERATING WEIGHT

· 3,080 kg.

OPERATING CAPACITY

· 900 kg.



The equipment photos are only a reference and may include optional equipment.

SK820-5E0

WALK AROUND

ENGINE
POWER
48.5 hp.



*Photos may include optional equipment.

» **The SK820-5E0 Skid Steer Loader is highly versatile and compact** and the result of the technology that Komatsu has acquired. The model has been developed with special attention to the needs of customers all over the world. The final product is a user-friendly equipment with top class performances.

CHARACTERISTICS



OUTSTANDING PERFORMANCE

- » PPC Hydraulic servo-controls.
- » Closed Load Sensing System (CLSS).
- » 2-speed transmission.
- » Bucket self-levelling.
- » Automatic power control device.



FULL VERSATILITY

- » Vertical lift design.



TOP-CLASS OPERATOR COMFORT

- » Spacious cab.
- » Central monitor.
- » Accelerator pedal.



HIGHEST SAFETY STANDARDS

- » ROPS – FOPS cab.
- » Safety sensors.
- » Excellent all-around visibility.
- » Negative action hydraulic brakes.



EASY MAINTENANCE

- » Easy access to all daily inspection points.
- » Tilting cab for full maintenance.
- » Long 250-hour service interval.

KOMTRAX

- » Komatsu satellite monitoring system.

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OPERATING WEIGHT:	3,080 kg.
OPERATING CAPACITY:	900 kg.

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OUTSTANDING PERFORMANCES



» Automatic power control device (APC).

» Thanks to the APC device, the operator can always use the engine's full capacity with no waste of power or overloads. It gives priority to the work equipment, optimizes residual power by sending it to the travel motors and prevents the engine from stalling, even during the toughest operations.

» PPC Servo-Controls

» The PPC Servo-controls make the SK820-5E0 model easy to use. Natural movements and higher precision guarantee unique efficiency and contribute to a great extent in reducing operator fatigue. The right joystick controls the movements of the arm and bucket. The left one controls translation.



TOP CLASS OPERATOR COMFORT

» Spacious cab

» A spacious cab, with a wide entrance and comfortable seat, provides unmatched comfort level in this kind of equipment. Ergonomic controls and excellent 360° visibility, make the operator's work much easier and safer anywhere. On request (*) the SK820-5E0 model can be equipped with an exclusive front door which can be lifted and slid onto the roof and with side windows and heating or air conditioning for maximum comfort in all seasons.

» Central monitor

» The panel situated in the safety bar allows to closely monitor all the main functions of the machine, from fuel level to water temperature, air filter condition, engine oil pressure, etc.

» Acceleration pedal

» The accelerator pedal allows to adjust the engine rpm without removing the hand from the joystick. This facility optimizes the use of the engine, reduces fuel consumption and offers improved acoustic comfort.



(*) Optional: close cab

HIGHEST SAFETY STANDARDS



Safety sensors

In case of unauthorized maneuvers, a sophisticated sensor system situated on the safety bar and seat, prevents all machine movements by automatically braking on the transmission and deactivating the PPC Controls. The ROPS/FOPS cab, the excellent dynamic stability of the machine and the 360° visibility, make the operator feel completely confident.



Brakes

The service and parking brakes are incorporated into the travel motors. These are hydraulic negative-action brakes and can be set "on" or "off" with a button on the board to the left of the operator. When the engine is not running, brakes are always "on".

TOTAL VERSATILITY



» Vertical lift

» The design of the vertical lift arm makes this model especially suitable for loading and unloading operations, particularly with a lifting fork. Due to this special design, the SK820-5E0 keeps the bucket permanently within reach throughout the whole travel. This allows greater tipping loads than for the conventional models and improved ease-of-use and safety when working at maximum height.

» Highly efficient

» The self-levelling bucket, one of the multiple standard features of this Komatsu skid steer loader, makes this machine highly efficient for all applications. The acceleration pedal and the two-speed transmission increase the operator's productivity even more.



EASY MAINTENANCE

» Easy access to inspection points

» Routine maintenance and inspections, can take place by simply opening the rear bonnet. As well, the user can also clean the tilting radiators. In case of special maintenance operations, the tilting cab offers full access to the transmission and to the main components of the hydraulic system. The special self-lubricating bushings extend the greasing intervals for all pins up to 250 hours.



Bonnet: quick
engine inspection

Hatchback:
Simple inspection and
cleaning of the radiator

SKID STEER LOADER ATTACHMENTS

» State-of-the-art design and engineering are used to develop the Komatsu attachments. Therefore, the SK-series skid steer loaders are versatile and applicable to multiple functions. The result is a machine that is more than just an off-highway.

EXCAVATOR ARM

SIMPLIFYING THE EXCAVATION

This attachment converts the skid steer loader into a real excavator suitable to reach hard-to-access places. Its unmatched 180° cushioned turn functions, two equal-power cylinders and long horizontal outreach, reduce movement of the machine during the excavation and loading cycle.

MODEL	VERSION	NUMBER OF PART	BUCKET WIDTH (mm.)	CHARACTERISTICS
20250/A0	E30-2	482120250	No	- Controls can be operated from and outside the cab. - Control of hydraulic lock. - Set of hydraulic hoses. - Versatile and quick coupling system.
20256/A0	E30-2	482120256	300 mm.	
20257/A0	E30-2	482120257	400 mm.	
20258/A0	E30-2	482120258	500 mm.	
20259/A0	E30-2	482120259	600 mm.	

Note: bucket 600 mm. only for lightweight materials.

*To achieve the best performance from the Komatsu attachments, the manufacturer recommends the use of counterweight of 126 kg. (Code 20110 / PN 482120110)

FORKLIFTS

EASY MOVEMENTS

Engineering applied to this Komatsu attachment, provides the skid steer loader with exceptional functionality to lift and haul any load of 48 inches or 1,200 mm. maximum width from the pallet or other similar structure.

MODEL	VERSION	NUMBER OF PART	BUCKET WIDTH (mm.)	CHARACTERISTICS
20122/A0	PF80	482120122	800 mm.	Forks of manual settings for different sizes with a maximum of 1,200 mm. wide.

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***For further information on the SK820-5E0 skid steer loader's attachments, please request a catalog or visit www.komatsulatioamerica.com**

SWEEPERS WITH AND WITHOUT COLLECTING BOX

EFFICIENT CONFIGURATION

Due to its different options, this attachment converts the skid steer loader into a multifunctional equipment.

- Surface cleaning sweeper.
- Surface cleaning sweeper with collecting box.
- Surface cleaning sweeper with waterer.
- Surface cleaning sweeper with collecting box and waterer.

The mentioned configurations allow the watering, sweeping and cleaning tasks get done more efficiently, faster and deeper into hard-to-reach places.

MODEL	VERSION	PART NUMBER	LENGTH BRUSH DIAMETER (mm.)	CHARACTERISTICS
20283/AO	PS15	482120283	1,550 mm.	Collection box
20285/AO	PS15	482120285	1,550 / 580 mm.	Side brushes collection box
20287/AO	PS18	482120287	1,800 mm.	Collection box
20295/AO	AB18	482120295	1,700 mm.	Angular sweep without box collection
20242/AO	PS15	482120242	--	Sprinkler kit
20243/AO	PS18	482120243	--	Sprinkler kit

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INCREASED LOAD CAPACITY BUCKETS

GREATER MATERIAL MOVEMENT

Due to their increased load capacity, these buckets make the different applications highly efficient in areas where the space is limited. The buckets designed for the SK series can be used in the standard and "Super Over Flow" versions. As well, 10-16.5" narrow tires can be used.

MODEL	VERSION	PART NUMBER	DIMENSION (mm.)	CHARACTERISTICS
LBKT20173/AO	4B15	482120173	1,550 mm.	Front bucket
LBKT20175/AO	4B17	482120175	1,730 mm.	Front bucket
LBKT20177/AO	4B15	482120177	1,550 mm.	Front bucket with teeth
LBKT20180/AO	4B17	482120180	1,730 mm.	Front bucket with teeth

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DRILL BITS

LEGENDARY PRECISION

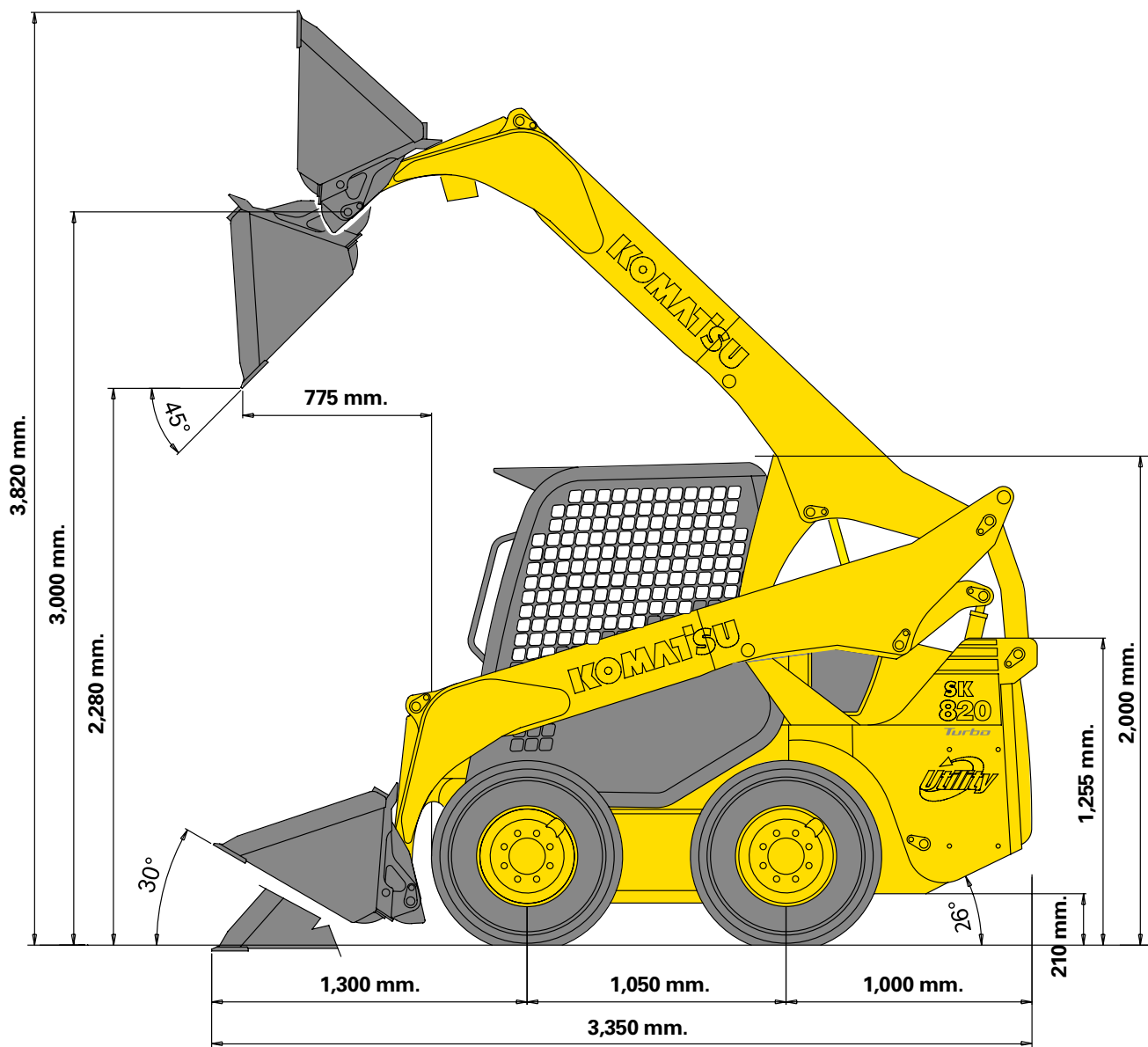
Whenever tasks like drilling, installation of posts, pillars and trees require pinpoint precision, Komatsu has developed a range of drill bits of high quality, ultimate design and state-of-the-art technology. These implements provide greater efficiency and effectiveness regardless of the ground conditions: hard terrain, rocky or even thin layers of pavement.

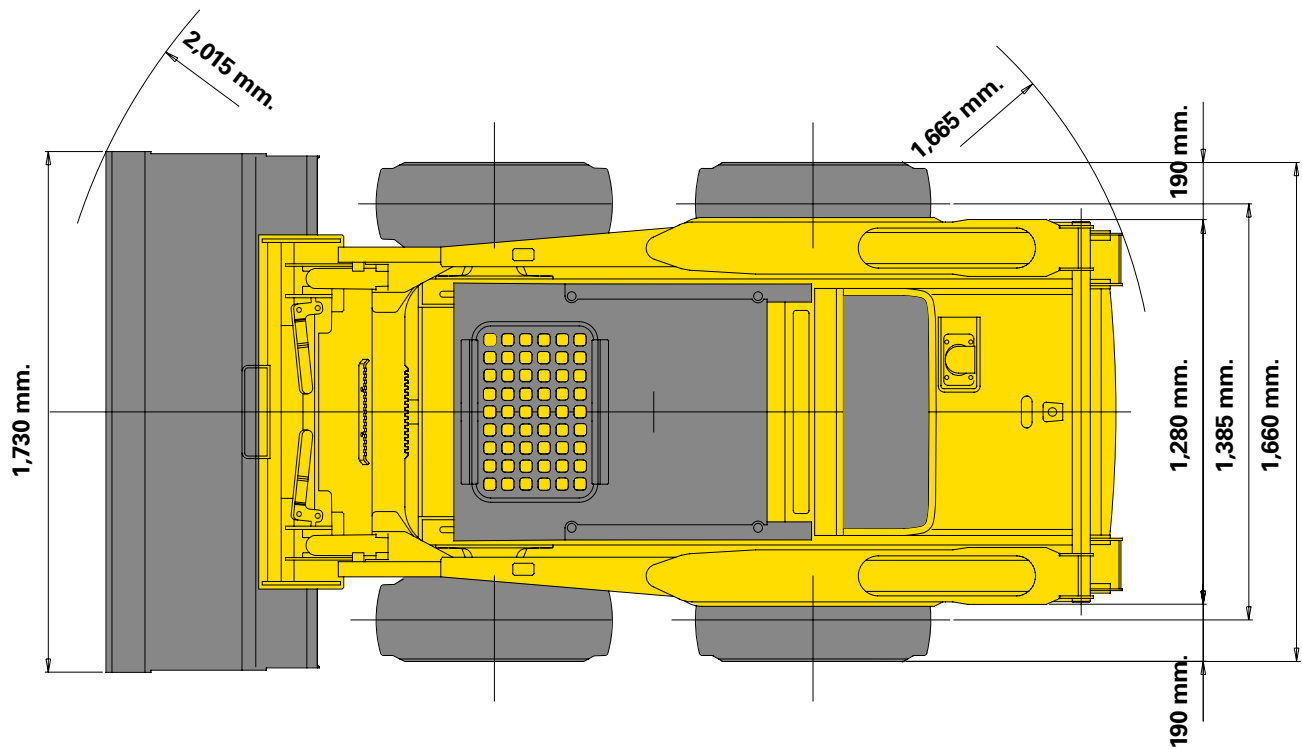
MODEL	VERSION	PART NUMBER	DIMENSION (mm.)	CHARACTERISTICS
20324/A0	AU20	482120324	200 mm.	Helical drill bit
20325/A0	AU20	482120325	250 mm.	Helical drill bit
20326/A0	AU20	482120326	300 mm.	Helical drill bit
20327/A0	AU20	482120327	350 mm.	Helical drill bit
20328/A0	AU20	482120328	400 mm.	Helical drill bit
20329/A0	AU20	482120329	200 mm.	"Heavy Duty" Drill bit
20330/A0	AU20	482120330	250 mm.	"Heavy Duty" Drill bit
20331/A0	AU20	482120331	300 mm.	"Heavy Duty" Drill bit
20332/A0	AU20	482120332	350 mm.	"Heavy Duty" Drill bit
20333/A0	AU20	482120333	400 mm.	"Heavy Duty" Drill bit
20334/A0	AU20	482120334	--	Extension of drilling of 500 mm.
20318/A0	AU20	482120318	--	"Quick Coupler" Transfer case

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SPECIFICATIONS





BASIC EQUIPMENT

- Komatsu turbocharged diesel engine S4D84E-6BMFD EU Stage IIIA / EPA Tier III compliant.
- Alternator 55 A.
- Battery 80 Ah.
- Two-speed transmission.
- Auxiliary hydraulic circuit for attachments.
- Universal quick coupler.
- Bucket floating function.
- 10-16.5 standard tires.
- Automatic parking and service brakes.
- KOMTRAX® - Komatsu satellite monitoring system.
- Tilting cab with ROPS / FOPS.
- Adjustable seat with safety belt.
- Safety bars with display.
- The instruments panel includes:
 - » Hour meter.
 - » Fuel indicator.
 - » Engine water temperature indicator.
 - » Warning lights: operator on board, safety bars lowered.
 - » Other pilot lamps: air filter clogging, engine oil pressure, generator, hydraulic oil filter, engine pre-heating, parking brake, working lights, direction indicators, flotation.
- Acceleration pedal.
- Back-up alarm.
- Horn.
- Battery main switch.
- Two front working lights.
- Two rear working lights.
- Bucket self-levelling.
- Bucket of 1,730 mm. with blade.

SPECIFICATIONS



ENGINE

The new generation engine has been developed to comply with the strictest gas emission controls.

MODEL	Komatsu S4D84E-6BMFD
TYPE	4-cycle water-cooled, direct injection
ASPIRATION	Turbo
CYLINDERS	Four
BORE & STROKE	84 x 90 mm.
POWER	ISO 14396 36.2 kW / 48.5 hp. ISO 9249 (Net Engine Power) 47.2 hp. (35.2 kW) RATED RPM 2,600 rpm.
COOLING SYSTEM	Water.
AIR FILTER	Dry with safety element.
START SYSTEM	Electric motor with pre-heating air system.
Complies with EPA Tier III and emission regulations UE Stage 3A.	



OPERATING WEIGHT (Approximate)

Operating weight including standard bucket, fully serviced, 75 kg. operator (ISO 6016): 3,080 kg.



HYDRAULIC SYSTEM

TYPE	Komatsu CLSS.
HYDRAULIC PUMP	Gear pump.
PUMP MAXIMUM FLOW	62 ltr/min.
MAXIMUM OPERATING PRESSURE	206 bar.
CONTROL VALVE	3 elements fully servo controlled.



TIRES

ESTANDAR 10-16.5



CONTROLS

Proportional servo controls (PPC). The left lever controls the machine movements, the right one controls the working equipment. The pedal controls the auxiliary circuit for attachments. The safety system neutralizes all operations when the safety bars are risen or the operator is not seated.



TRANSMISSION

TYPE	Hydrostatic.
PUMPS	Two x 2-stage variable displacement.
HYDRAULIC MOTORS	Two x final transmission axial pistons by gear contact with heavy-duty roller chains immersed in oil bath.
DISPLACEMENT SPEEDS	2
MAXIMUM DISPLACEMENT SPEED	16 km/h.
Oil immersed discs for both, parking and service brakes, with negative action and automatic insertion.	



ELECTRIC SYSTEM

VOLTAGE	12 V.
BATTERY	80 Ah
ALTERNATOR	55 A



CAPACITY

HYDRAULIC DEPOSIT	38 liters
FUEL TANK	68 liters
HYDRAULIC TRANSMISSION (CHAINS)	15.5 + 15.5 liters
ENGINE OIL	8 liters



CHARGER

OPERATING CHARGE (ISO 14397)	900 kg.
TIPPING LOAD (ISO 14397)	1,800 kg.
BUCKET STANDARD CAPACITY (ISO 7546)	0,4 m ³ .
BUCKET BREAKOUT FORCE (ISO 14397)	1,867 daN (1,950 kg.)
OPERATING CAPACITY WITH FORLIFTS	600 kg.



ENVIRONMENT

VIBRATION LEVELS (EN 12096:1997)*	
HAND/ARM	≤ 2,5 m/s ² (desviación K = 1,2 m/s ²)
BODY	≤ 0,5 m/s ² (desviación K = 0,2 m/s ²)

*For risk assessment purposes in accordance with the 2002/44/EC guideline, please see standard ISO/TR 25398:2006.



SATELLITE MONITORING SYSTEM

KOMTRAX is a revolutionary tracking system designed to save time and money. Nowadays, the equipment can be tracked anytime and anywhere. This valuable data, received via the KOMTRAX website, can be used to optimize planning of the movements and performance of the equipment.

CHARACTERISTICS

» LOCATION

KOMTRAX uses a satellite positioning network to inform the location of the equipment.

» GEOFENCE

In partnership with your Komatsu Distributor, owners can create virtual fences (Geo) to receive alerts when teams enter or leave the designated range for operations.

» METER READING SERVICE

Daily report of the working hours of the work's team, which allows to project maintenance and replacement of components.

» OPERATIONAL MAPS KOMTRAX

In the operations maps you can check the times of day when the equipment is in operation and if the workers are performing their duties in the stipulated times.

» LOOKING THE ANTI-THEFT ENGINE

KOMTRAX has a system of locking and unlocking the motor of the equipment, which will allow them to only operate in the days, hours and areas assigned.

Check with your Komatsu dealer for the information available for your model and service availability in your country.



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