

# KOMATSU

## WA320-8

EU Stage IV Engine

WHEEL LOADER

PRELIMINARY



# WA320

**ENGINE POWER**

127 kW / 170 HP @ 2.100 rpm

**OPERATING WEIGHT**

15.480 - 15.600 kg

**BUCKET CAPACITY**

2,7 - 3,2 m<sup>3</sup>

## INCREASED FUEL EFFICIENCY AND ENVIRONMENTAL PERFORMANCE

### *Powerful and Environmentally Friendly*

- NEW** • EU Stage IV engine
- Highly efficient hydrostatic drive line
- NEW** • High efficiency buckets
- Komatsu SmartLoader Logic
- Eco-gauge & adjustable idle shutdown

### *First-Class Comfort*

- NEW** • New, air-suspended operator seat with integrated multifunction lever console
- Large multifunctional monitor
- Low-noise design
- Rear-view camera system
- NEW** • Finger joystick steering system (option)



**PZ-linkage**

- Combines advantages of Z-bar linkage with parallel lift
- Fast pallet handling
- Excellent break-out force and easy bucket fill
- High tilt forces give perfect control of heavy attachments
- Auto bucket tilt-in avoids material spillage when lifting

**Responsive hydrostatic drive line (HST)**

- Instant response for fast loading cycles
- Easy control in confined areas
- Advanced traction control system for best traction and minimized tyre wear (K-TCS)
- Top speed selection for increased safety

**Easy maintenance**

- Wide core radiator with auto reversible fan speeds up cleaning
- Factory fitted automatic lubrication system
- Large gull-wing doors for easy access to service points

**KOMTRAX™**

- Komatsu Wireless Monitoring System

**NEW**

- 3G mobile communications

**NEW**

- Integrated communication antenna
- Increased operational data and fuel savings



*New, low consumption EU Stage IV Komatsu SAA6D107E-3 engine.*




*New, high efficiency buckets with new shape for easier and more efficient material handling.*



*New operator seat with and optional new joystick steering for maximum operator comfort.*



*New full rear fenders are standard.*

Complimentary maintenance program for customers

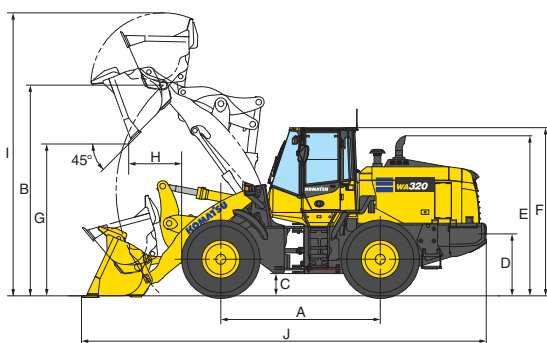
## ENGINE

Model	Komatsu SAA6D107E-3
Type	Common rail direct injection, water-cooled, emissionised, turbocharged, after-cooled diesel
Engine power	
at rated engine speed	2.100 rpm
ISO 14396	127 kW/170 HP
ISO 9249 (net engine power)	123 kW/165 HP
No. of cylinders	6
Bore × stroke	107 × 124 mm
Displacement	6,69 l
Fan drive type	Hydraulic, reversible
Battery	2 × 110 Ah
Alternator	90 A

## TRANSMISSION

Drive system	Electronically controlled hydrostatic transmission, switchable in all directions under full power
Hydrostatic pump	1 variable piston pump
Hydrostatic motor	2 variable piston motors
Speed ranges (forwards/backwards)	4/4
Max. travel speeds (forwards/backwards) (Tyres 20.5 R25)	
1. speed range	1-13 km/h
2. speed range	13 km/h
3. speed range	19 km/h
4. speed range	38 km/h

## DIMENSIONS



### Dimensions

	Tread	2.050 mm
	Wide over tires	2.590 mm
A	Wheelbase	3.030 mm
B	Hinge pin height, maximum height	4.005 mm
C	Ground clearance	425 mm
D	Hitch height	1.085 mm
E	Overall height, top of stack	3.040 mm
F	Overall height, ROPS cab	3.200 mm

### with 2,8 m³ stockpile bucket

G	Max. dumping height	2.880 mm
H	Reach at max. height	1.000 mm
I	Operating height, fully raised	5.375 mm
J	Overall length, bucket on ground	7.690 mm

## HYDRAULIC SYSTEM

Type	Komatsu CLSS (Closed Centre Load Sensing System)
Hydraulic pump	Variable piston pump
Working pressure	310 kg/cm²
Maximum pump flow	180 l/min
No. of hydraulic/bucket cylinders	2/1
Type	Double-action
Bore diameter × stroke	
Boom cylinder	120 × 729 mm
Bucket cylinder	150 × 558 mm
Hydraulic cycle with rated load bucket filling	
Raise time	6,3 s
Lowering time (empty)	3,5 s
Dumping time	1,9 s

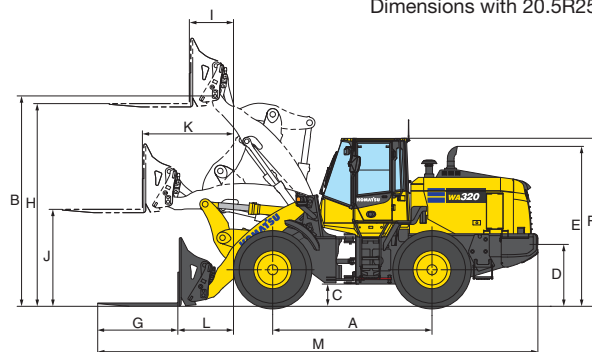
## CHASSIS AND TYRES

System	4-wheel drive
Front axle	Komatsu HD axle, semi-floating, (LSD-differential optional)
Rear axle	Komatsu HD axle, semi-floating, 26° swing angle (LSD-differential optional)
Tyres	20.5 R25

## ENVIRONMENT

Engine emissions	Fully complies with EU Stage IV exhaust emission regulations
Noise levels	
LwA external	105 dB(A) (2000/14/EC Stage II)
LpA operator ear	68 dB(A) (ISO 6396 dynamic test)

Dimensions with 20.5R25 tyres



### with fork tines

G	Fork tine length	1.524 mm
H	Ground to top of tine at maximum lift	3.855 mm
I	Reach at maximum lift	840 mm
J	Ground to top of tine	1.845 mm
K	Reach	1.730 mm
L	Reach on ground	1.060 mm
M	Overall length	8.375 mm
	Operating load	3.700 kg