

WHEELED LOADER WA270PT-3 ACTIVE PLUS

KOMATSU

Engine output: 103 kW/141 HP/2.200 rpm

Bucket sizes: 2.0–2.4 m³

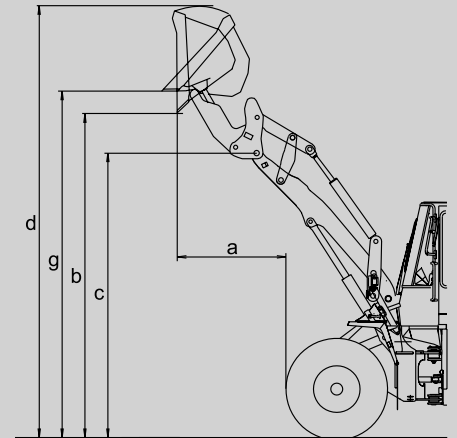
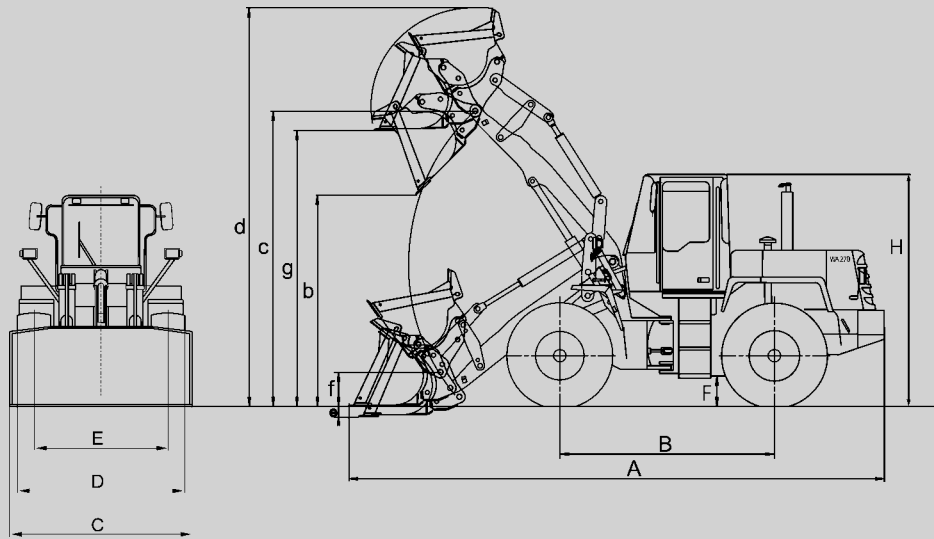
Operating weight: 12.7 ton



WA270PT-3 *active* *plus*

- Low emission and powerful Komatsu S6D102E1 engine provides an environmentally friendly and fuel efficient operation
- Large bucket capacity and dumping clearance enhance overall productivity and working efficiency
- Easy change of front attachment with hydraulic quick coupler (standard)
- Perfect parallelism provides wider application and easy loading
- The new, fully automatic "High Efficiency" four-gearshift transmission provides optimum speed, resulting in greater manoeuvrability and noiseless driving
- Kick-down switch on the loader control lever improves pile-penetration and scooping operations
- Limited slip differentials with reduced locking value ensure a smoother, positive ride on rough terrain for longer tyre life
- Reduced outside noise level of 106 dB(A) meets 95/27/EC
- Rubber-mounted floor frame reduces vibration and noise. Noise level in the cab is 75 dB(A) by 95/27/EC
- Durable and ergonomically designed steps and handrails guarantee safety and comfort
- Adjustment-free service brakes provide greater account for higher performance and reduced downtime
- Gull-wing engine side covers facilitate easy engine access and easy checking/replacement of engine oil or filters
- Rust-resistant high-quality paint assures good appearance and longer service life

Dimensions and Operating Data.



- B: Wheel base 2900 mm
- D: Width over tires 2440 mm
- E: Tread 1880 mm
- F: Ground clearance 460 mm
- H: Height of cab 3250 mm
- c: Hinge pin height 3838 mm
- Tyre 20.5 R 25

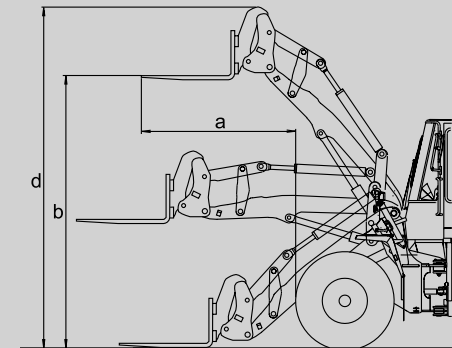
| | Standard | Loading | High dump bucket |
|--|----------------------------|------------------------|------------------------|
| Bucket SAE heaped | 2.0 m ³ | 2.15 m ³ | 4.0 m ³ |
| Density | 1.75 ton/m ³ | 1.6 ton/m ³ | 0.6 ton/m ³ |
| Payload | 3500 kg | 3400 kg | 2400 kg |
| C Bucket width | 2500 mm | 2500 mm | 2550 mm |
| Bucket weight | 860 kg (teeth) | 930 kg (BOC) | 1630 kg (BOC) |
| Static tipping load straight | 8200 kg | 8100 kg | 6600 kg |
| Static tipping load articulated | 7400 kg | 7320 kg | 5700 kg |
| Breakout force | 96 kN | 91 kN | 79 kN |
| Lift capacity (on ground) | 99 kN | 98 kN | 86 kN |
| Turning radius at corner of bucket teeth | 5995 mm | - | - |
| Turning radius at corner of bucket | 5950 mm | 5990 mm | 6005 mm |
| A Overall length | 7250 mm (teeth) 7060 mm | - | - |
| a Dumping reach | 1324 mm (teeth) 1188 mm | - | - |
| b Dumping clearance | 2525 mm (teeth) 2726 mm | - | - |
| d Total height | 5385 mm | 5380 mm | 6040 mm |
| e Digging depth | 126 mm | 90 mm | 120 mm |
| g Clearance at bucket horizontal | 3608 mm | 3573 mm | - |
| Operating weight | 12600 kg | 12670 kg | 13370 kg |

* All data shown with mounted quick coupler

Engine emissions ISO 8178

- HC = 0,70 (1,3)
- CO = 0,74 (5,0)
- NOx = 8,47 (9,2)
- PM = 0,31 (0,7)

Figures in () show the limit of new EC regulation of the year 2001.



Fork

- b Dumping clearance (fork clearance) 3606 mm
- a Dumping reach (fork reach) 2037 mm
- d Total height 4672 mm
- Static tipping load, 0° (ISO 8313) 6625 kg
- Static tipping load, 40° 5905 kg
- Max. pay load EN 474, 80 % 4500 kg
- Lift capacity 91 kN

| Bucket type | Capacity in m ³ | |
|------------------|----------------------------|---|
| Bucket | 2.0 | |
| Bucket | 2.15 | |
| Loading bucket | 2.4 | |
| Material density | in (t/m ³) | 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0 |


In most cases, the actual volume ranges higher than the ISO/SAE classification. The table specifies the optimum bucket with reference to the material.


| Material | Bucket filling % | Density t/m ³ |
|----------|------------------|--------------------------|
| Earth | 100-115 | 1.5-1.6 |
| Clay | 110-120 | 1.5-1.7 |
| Sand | 100-110 | 1.4-1.8 |
| Gravel | 85-110 | 1.5-2.0 |
| Rock | 75-100 | 1.6-2.0 |


- not economical
- recommended
- fully utilised


The specifications at a glance.


The actual standard equipment varies according to the sales territory. Please contact your KOMATSU distributor for any further information.


|  Engine | |
|--|--|
| Make | KOMATSU |
| Model | S6D102 E1 |
| Type | Diesel |
| Power at engine speed | 103 kW/141 hp (DIN 70020/ISO 9249) 2,200 rpm |
| Max. torque | 566 Nm (DIN 70020) |
| Number of cylinders | 6 |
| Bore/stroke | 102/120 mm |
| Displacement | 5,900 cm ³ |
| Compression ratio | 17.3 : 1 |
| Combustion principal | Direct injection, turbocharged Two-circuit liquid cooling, with thermostat control |
| Electrical system | 24 volt |
| Battery | 2 x 12 volt, 105 Ah |
| Three-phase alternator | 50 A |
| Air filter type | HD dry air filter |


|  Transmission | |
|--|--|
| Type | Fully automatic Full Powershift transmission with optimized efficiency and "kick down" |
| Converter type | W300 02G0 4075 |
| Conversion ratio | 2.549 : 1 |


|  Travel speeds | |
|---|---|
| Forward | 1st gear 0 - 7,1 km/h 2nd gear 0 - 13,8 km/h 3rd gear 0 - 25,2 km/h 4th gear 0 - 40,2 km/h |
| Reverse | 1st gear 0 - 8,0 km/h 2nd gear 0 - 14,9 km/h 3rd gear 0 - 26,0 km/h |

|  Filling capacities | |
|--|--------|
| Fuel | 185 l |
| Engine oil | 16 l |
| Cooling system | 56 l |
| Torque converter/ transmission power shift | 21 l |
| Front axle | 25.5 l |
| Rear axle | 25.5 l |
| Operating hydraulics/brake system | 120 l |

|  Hydraulic system | |
|--|-----------|
| Operating pressure | 210 bar |
| Delivery capacity | 175 l/min |
| Loading times | |
| lifting (full load) | 5.0 sec. |
| dumping | 1.5 sec. |
| lowering | 2.7 sec. |
| Automatic bucket lift kickout, automatic digging angle adjustment for bucket and fork changeable in cab. | |

|  Chassis | |
|---|--|
| System | All-wheel drive, planetary reduction gear in the wheel hubs |
| Front axle | HD axle with multi-disc self-locking differential, 25 % locking value |
| Rear axle | HD axle with multi-disc self-locking differential, oscillating suspension, 25 % locking value |
| Oscillating Tyres | 12° per side 20.5 R 25 / L-2, L-3 20.5 - 25 / L-2, L-3 555/70 R 25 / L-2, L-3 17.5 R 25 / L-4, L-5 |

|  Steering system | |
|---|----------------------|
| Type | Hydrostatic |
| System | Articulated steering |
| Centre pivot | adjustment free |
| Steering angle | 40° per side |
| Steering pump | |
| operating pressure | 190 bar |
| delivery capacity | 110 l/min |
| Min. turning radius | |
| outer edge, wheel | 5.240 mm |
| outer edge, standard bucket | 5.950 mm |
| Emergency steering system | Via additional pump |

|  Brakes | |
|--|---|
| Operating brake | Hydraulic pump energy storage brake system, oil-bath multi-disc brake in the wheel hubs (all-wheel brake) |
| Hand brake | Disk brake at transmission output |

Standard equipment

Sound-insulated high-comfort driver's cab with integrated (ROPS/FOPS) • air-conditioning (cfc free) • openable windows • 2 halogen front headlights • 2 halogen working lights each at front and rear • vandalism protection • AM/FM cassette player • fully automatic transmission with additional kick down device • 2-lever hydraulic actuation • service brake wet disc type • Torque proportioning differentials in front and rear axle • emergency steering system • electronic checking system (EDIMOS II) • Hydraulic quick-coupler attachment • 3 spool valve • automatic digging angle adjustment (return to dig) 2-stage adjustable • bucket lift kickout • 20.5 x 25 tyres (radial) • loader linkage parallel design with 2 lift- and 2 dump cylinder- sealed bearing points • integrated sound insulation • registered according to StVZO • fully adjustable air suspension seat with head rest • batteries 2 x 12 V 105 Ah alternator 50 A starting motor 24 V 4.5 kW.

The WA270PT-3 is equipped in accordance with safety regulations and its emission values correspond to the regulations of the international standard ISO 6393 and the EC directive 95/27/EC, noise levels: L_{WA} = 106 dB(A), L_{pA} = 75 dB(A).

Options

load stabilisor (ALS) • back-up alarm • central lubricating system • special buckets • special tyres (e.g. rock, recycling, sand, clay etc.) • tyre protecting chains • catalytic converter • exhaust filter • speed limit (20 km/h) • TURBO II pre-filter • multi-function lever for hydraulic system + transmission (MFL) • heatable seat • single-lever hydraulic actuation • Fire extinguisher • additional working lights • bio hydraulic oil • anti-theft lock • anti-corrosion kit • roof protection grid • trailer coupling with 7 pin socket .

WA270PT-3 *active plus* The advantages at a glance.



6 cylinder KOMATSU low emission engine. Already conforms to the future EU standard tomorrow.

Exterior parts are treated with rust resistant undercoat and strong top coat. High quality paint assures good appearance.

The 4-cylinder configuration assures excellent visibility of the front attachment.

Hydraulically activated quickhitch as standard assures high versatility and quick attachment change.

The parallel lift assure high lifting force and perfect parallelism. 2-mode (slow/fast mode) dumping speed is available and provide easy operation.

The ALS electronic system: reduces vibrations and protects driver and machine depending on the actual speed (option).

A kick down switch on the boom lever shifts from forward 2nd to 1st gear at a touch and provides larger rim pull.

Compact dimensions and small turning radius permits working in confined spaces.

Low noise, fully automatic "High Efficiency" transmission with electric kick down device: floating rubber suspension – thus almost eliminating sound impact.

Gull wing engine side covers including rear fender and rear radiator grill open fully at a touch. These afford clean, easy and light maintenance.

- Air conditioning system assures always clean and the most comfort in the cab.
- ALS reduces vibrations and protects driver and machine.
- Wide selection of front attachments allows the machine to adapt to various applications.

KOMATSU HANOMAG: The best of both worlds.

The wheel loaders are the WA-3 series of the first integrated products which have been jointly produced by KOMATSU and

KOMATSU HANOMAG in Hanover. Besides the production of wheel loaders, the factory in Hanover is also specialised in the construction and design of axles and transmissions.



All data are non-binding and subject to changes. The figures may deviate from the standard design. Printed in Germany.

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