## WA180 PT-3 — The advantages at a glance.



#### **Options**

- High quality, modern and fully automatic air conditioning system assures always clean and the most comfort in the cab.
- ECSS reduces vibrations and protects driver and machine.
- Wide variety front attachments apply the machine 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.

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

VESS090000 PT

4.99

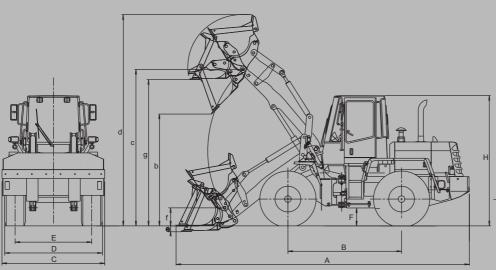
#### WHEELED LOADER WA180 PT-3 ACTIVE

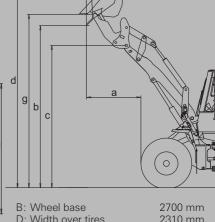


# WA180 PT-3

- Low emission and powerful Komatsu S6D102E 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
- Full automatic four-gearshift transmission provides optimum speed, resulting in greater maneuverability
- Kick-down switch on the loader control lever improves pile-penetration and scooping operations
- Torgue proportioning differentials ensure a smoother, positive ride on rough terrain for longer tire 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 and parking brakes acount 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.**





D: Width over tires E: Tread F: Ground clearance H: Height of cab c: Hinge pin hight

Tire 17.5 R 25

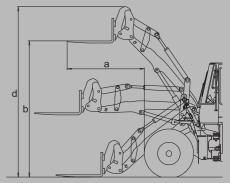
2310 mm 1820 mm 425 mm 3095 mm 3760 mm

	Standard	Loading	Light Material	High dump		
Bucket Part Nr	417-70-H2200	417-70-H2300	417-70-H2650	417-70-H2900		
Bucket SAE heaped	1.6 m <sup>3</sup>	1.7 m <sup>3</sup>	2.2 m <sup>3</sup>	1.9 m <sup>3</sup>		
Density	1.8 ton/m <sup>3</sup>	1.8 ton/m <sup>3</sup> 1.7 ton/m <sup>3</sup> 1.3 ton		1.2 ton/m <sup>3</sup>		
Payload	2900 kg	2900 kg 2900 kg		2900 kg		
C Bucket width	2500 mm	2500 mm 2500 mm 2700 mm		2700 mm		
Bucket weight	770 kg (teeth)	840 kg (BOC)	790 kg	1100 kg		
Static tipping load straight	6880 kg	6790 kg	6865 kg	5300 kg		
Static tipping load articulated	5985 kg	5910 kg	5970 kg	4610 kg		
Breakout force	88.0 kN	98.5 kN	90.6 kN	64.3 kN		
Lift capacity (on ground)	77.4 kN	82.5 kN	79.8 kN	57.5 kN		
Turning radius at corner of bucket teeth	5570 mm	-	-	_		
Turning radius at corner of bucket	5525 mm	5550 mm	5655 mm	5770 mm		
A Overall lenght	7070 mm (teeth) 6880 mm	- 6930 mm	- 7030 mm	- 7480 mm		
a Dumping reach	1205 mm (teeth) 1070 mm	- 1090 mm	- 1180 mm	_ 1600 mm		
b Dumping clearance	2620 mm (teeth) 2745 mm	_ 2700 mm	_ 2640 mm	- 4500 mm		
d Total height	5060 mm	5060 mm	5200 mm	5720 mm		
e Digging depth	75 mm	95 mm	75 mm	75 mm		
g Clearance at bucket horizontal	3395 mm	3575 mm	3595 mm	4690 mm		

Engine emissions ISO 8178

HC = 0,61 g/kWh (1,3) CO = 0,98 g/kWh (5,0) Nox = 8,16 g/kWh (9,2) PM = 0,34 g/kWh (0,7)

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



- b Dumping clearance (Fork clearance) 3640 mm a Dumping reach (Fork reach) 2100 mm
- d Total height Static tipping load, 0° (ISO 8313) Static tipping load, 40° Max. pay load EN 474, 80 % Lift capacity

4540 mm 5200 kg 4525 kg 3620 kg 65,5 kN

Bucket type	Capacity in m <sup>3</sup>												
Bucket	1.6												
Bucket	1.7												
Light-mat. bucket	2.2												
Material density	in (t/m³)	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0

10315 kg

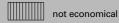
10265 kg

10575 kg

10245 kg

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/m³			
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			



Operating weight





## 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**

**KOMATSU** Model S6D102 E1 Diesel, Turbo Type

82 kW/112 hp (ISO 9249)

at engine speed 2,400 rpm

417 Nm (ISO 9249) Max. torque

Number of cylinders

Bore/stroke 102/120 mm 5,900 cm<sup>3</sup> Displacement 17.3:1 Compression ratio

Combustion principal Direct injection, turbocharged Two-circuit liquid cooling, Cooling system with thermostat control

Electrical system 24 volt

2 x 12 volt, 110 Ah Battery

Three-phase alternator 50 A

Air filter type HD dry air filter



#### **Transmission**

Fully automatic Full Powershift Type transmission with "kick down"

system

#### **Chassis**

All-wheel drive, planetary reduction System gear in the differential housing Front axle HD axle with torque proportioning

differential

HD axle with torque proportioning Rear axle differential, oscillating suspension

Oscillating 12° per side 17.5 R 25 **Tvres** 

17 5-25 445/80 R25



#### **Steering system**

Hydrostatic System Centre pivot adjustment free Steering angle 40° per side Steering pump operating pressure

delivery capacity Min. turning radius

outer edge, standard bucket

Emergency steering system

Articulated steering

190 bar 106 l/min

5570 mm

Via additional pump



#### Travel speeds

7.2 km/h Forward 1st gear 0 2nd gear 0 12.0 km/h 3rd gear 0 22.0 km/h 4th gear 0 34.5 km/h 1st gear 0 - 2nd gear 0 -Reverse 7.7 km/h 12.6 km/h 3rd gear 0 -4th gear 0 -22.9 km/h 35.0 km/h



#### Filling capacities

Fuel 170 I Engine oil 195 I Cooling system 21.5 I Torque converter/ transmission power shift 23.51 1401 Front axle 14.0 I Rear axle Operating hydraulics system 41 I



#### **Hydraulic system**

Operating pressure Relief valve setting 210 bar Delivery capacity 144 I/min Loading times

lifting (full load) 5.0 sec. dumping lowering 2.5 sec.

Automatic bucket lift kickout, automatic digging angle adjustment for Bucket and Fork changeable in cab.



Hand brake

#### **Brakes**

Operating brake Hydraulically actuated, wet disc

brakes on four wheels

(all-wheel brake) Wet disc brake in transmission

#### Standard equipment

Sound-insulated high-comfort driver's cab with integrated (ROPS/FOPS) • 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

single-lever hydraulic actuation • service brake wet disc type

• Torque proportioning differentials in front and rear axle • emergency steering system • automotive type instrument panel • Hydraulic quickcoupler attachment • 3 spool valve • automatic digging angle adjustment (return to dig) • bucket lift kickout 17.5 R25 tyres (radial) • loader linkage parallel design with 2 lift- and 2 dump cylinder- sealed bearing points • integrated sound insulation • registered according to StVZO • fully reclining seat with head rest • batteries 2 x 12 V 110 Ah alternator 50 A starting motor 24 V 4.5 kW.

The WA180 PT-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:  $L_{WA} = 106 \text{ dB(A)}, L_{pA} = 75 \text{ dB(A)}.$ 



#### **Options**

load stabilisor (ECSS System) • back-up alarm • central lubricating system • special buckets • special tyres (e.g. rock, recycling, sand, clay etc.) • tyre protecting chains • catalytic converter • air-conditioning (cfc free) • speed limit (20 km/h) • TURBO II pre-filter • multi-function lever for hydraulic system + transmission (MFL) • Fire extinguisher.