

Canopy is optionally available.

Model shown may include other optional equipment.

# KOMATSU VANGUARD SERIES

- Komatsu-built 3D95S engine delivers high output for powerful excavation even at partial throttle.
- The 90° boom offset mechanism, the first in this class, is ideal for side digging.
- Extra small min. swing radius makes the PC40 an efficient machine in tight quarters.
  - A wide working range makes excavation easy and efficient.
  - High travel speed and powerful traction for boosted working efficiency.
  - Low noise operation is assured by Komatsu 3D95S engine and noise absorbing materials inside the machine cab for minimized operator's fatigue.
    - The control valve operated swing hydraulic system assures smooth swing starts and stops.
    - All controls are easily made by manipulating the long control levers.
    - A newly designed wide operator's cab (optional) offers comfortable controls.
    - Maintenance is facilitated by a full-open machine cover.
    - Colored, low-profile machine design is newly employed.

# **SPECIFICATIONS**



#### **ENGINE**

Komatsu 3D95S, 4-cycle, water-cooled, overhead-valve, diesel engine. 3 cylinders, 95 mm (3.74") bore  $\times$  95 mm (3.74") stroke and 2.02 ltr. (123 cu.in) piston displacement. Flywheel horsepower:

38 HP (28.7 kW) at 2600 RPM (SAE J1349) 39 PS (28.7 kW) at 2600 RPM (DIN 6270 NET)

Swirl combustion chamber system. All-speed mechanical governor. Force-lubrication driven by gear pump. Full-flow filter for lube purification. Dry-type air cleaner. 12 V/2 kW electrical starter motor. 12 V/35 A alternator. 12 V/70 Ah battery.



## **HYDRAULIC SYSTEM**

#### Hydraulic pumps

 Three-tandem gear pumps power the boom, arm, bucket, travel, swing, blade and boom offset circuits.
 Capacity (discharge flow) at engine 2600 RPM . . 36 ltr.

(9.6 U.S. gal)/min. × 2+26 ltr. (6.7 U.S. gal)/min. ×1

#### **Hydraulic motors**

Travel . Two axial piston motors with counter balance valve Swing . . . . . . One axial piston motor with brake valve

#### Reflief valve setting

#### Control valves

2-spool, 3-spool and 4-spool control valves.

#### Hydraulic cylinders

Cylinder	Numbers	Bore
Boom	1	90 mm (3.5")
Arm	1	80 mm (3.1")
Bucket	1	80 mm (3.1")
Boom offset	1	90 mm (3.5")
Blade	1	90 mm (3.5")



## **STEERING**

Steering/traveling controls are activated with hand levers. Pushing both levers moves machine forward. Pulling them back makes machine go into reverse. Setting one lever in neutral and the other in forward enables machine to make a pivot turn. Pushing one forward while pulling the other backward makes machine counterrotate on the spot.



#### **DRIVES**

Fully hydrostatic type. Each track is independently driven by an axial-piston motor. Power goes through spur eccentric single-reduction gear to track. Travel motors are neatly installed within track shoe's width (in-shoe design).

Max. drawbar pull	
Max. travel speed: Low	2.1 km/h (1.3 MPH)
High	3.6 km/h (2.2 MPH)



#### **BRAKES**

Hydraulic lock type travel motors equipped with brake valve. When travel/steering levers are positioned in neutral, brakes automatically lock. Brake valve limits travel speed during descent.



## **SWING SYSTEM**

Hydraulic motor-driven through spur reduction gears. Singlerow shear type ball bearings with induction-hardened internal gears are built into swing circle. Grease bathed swing pinion. Pin-lock type swing lock is provided. Swing speed is propor-

tional to swing control lever stroke.	
Swing speed	1
Tail swing radius	1
Min. swing radius	)

(work equipment, fully retracted)

**Boom swing:** Boom can be swung 50° to left and 90° to right by boom offset cylinder independent of upper structure swinging.



### **BLADE**

Welded, unitized construction of blade and frame.
Blade width $\times$ height 1840 mm (6') $\times$ 350 mm (1'2")
Blade cutting angle
Max. lift above ground
Max. drop below ground



#### **UNDERCARRIAGE**



# COOLANT & LUBRICANT CAPACITY (refilling)

Liter	U.S. gallon
45	11.9
6	1.6
4.0	1.1
0.5	0.1
1.7	0.4
45	11.9
	45 6 4.0 0.5 1.7



# **OPERATING WEIGHT (approximate)**

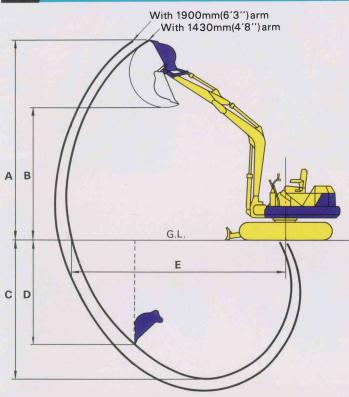
Operating weight including 2650 mm (8 $^{\prime}8^{\prime\prime}$ ) one-piece boom, 1430 mm (4 $^{\prime}8^{\prime\prime}$ ) arm, heaped 0.22 m³ (0.29 cu.yd) backhoe bucket, operator, lubricant, coolant and full fuel tank: 3910 kg (8,620 lb)

(\*Heaped capacity=struck capacity × 2)

#### STANDARD EQUIPMENT

12 V/2 kW electric starting motor, 35 A alternator, dry type air cleaner, muffler, counterweight, 400 mm triple grouser shoes, lubricant track rollers and idlers, hydraulic track adjusters, shock absorbing recoil springs, fully hydraulic drive, dozer blade, suction fan, 12 V/70 Ah battery, working light, track guard (end section), operator's seat, engine water temperature gauge, caution lamp for engine oil pressure, service meter, alternator charging lamp, electric fuel gauge, hydraulic oil level sight gauge.

# WORKING RANGE



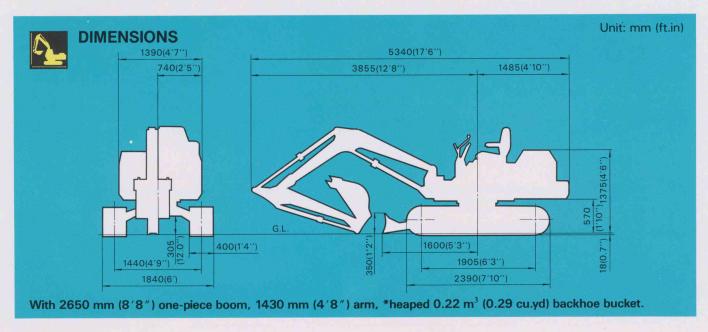
	Arm length	with 1430 mm (4′8″) arm	with 1900 mm (6'3") arm
A	Max. digging height	5.05 m (16'7")	5.05 m (16′7″)
В	Max. dumping height	3.34 m (11′)	3.40 m (11'2")
С	Max. digging depth	3.50 m (11′6″)	4.00 m (13′1″)
D	Max. vertical wall digging depth	2.75 m (9')	3.10 m (10′2″)
E	Max. digging reach at ground level	5.45 m (17′11″)	5.85 m (19'2")
	Bucket digging force	3150 kg (6,940 lb/30.9 kN)	3150 kg (6,940 lb/30.9 kN

**Track shoes:** Choose the ideal shoes depending on your job requirements.

Type of shoes	Ground pressure kg/cm² (PSI/kPa)
400 mm (15.7") flat shoes	0.23 (3.27/23)
400 mm (15.7") triple grouser shoes (holed)	0.24 (3.41/24)
480 mm (18.9") triple grouser shoes	0.20 (2.84/20)
550 mm (21.7") triple grouser shoes	0.18 (2.56/18)
400 mm (15.7") rubber pad shoes	0.89 (12.7/87)
550 mm (21.7") circular arc shoes	0.17 (2.41/17)

### **BACKHOE BUCKETS**

Bucket type	Narrow bucket	Std. bucket	Light-duty bucket
No. of bucket teeth	3	4	5
with side cutters		630 (24.8")	
Bucket width: mm (in) without side cutters	300 (11.8″)	600 (23.6")	700 (27.6")
Struck	0.04 (0.05)	0.11 (0.14)	0.13 (0.17)
SAE, PCSA heaped	0.06 (0.08)	0.15 (0.20)	0.19 (0.25)
JIS, CECE heaped	0.05 (0.07)	0.13 (0.17)	0.16 (0.21)
Heaped (struck × 2)	0.08 (0.10)	0.22 (0.29)	0.26 (0.34)
Capacity: m3 (cu.yd)			





### **CONTROLS**

Human-engineered layout of controls, meters and gauges. Two long control levers, which are employed in the larger class models, ensure quick response and fine controlling of the work equipment. Travel/steering levers positioned alongside each other. Operator's fatigue is greatly minimized thanks to the quiet Komatsu-built 3-cylinder engine and noise absorbing materials attached inside the machine cab.



## PRODUCTIVE FEATURES



Komatsu-built 3D95S engine provides a tenacious power of 38 HP (28.7 kW) at 2600 RPM, and assures powerful excavation even at partial throttle, without the fear of stalling.



Convenient boom offset: The boom itself can be swung 90° to right side. As a result, PC40-5 is excellent in side digging in adjacent to the wall. In addition, it also can be swung 50° to left side. This means that PC40-5 can complete quick dig/load operation in extra tight quarters without swinging the upper structure.



Wide working range: Equipped with the long boom and arm, the PC40-5 attains a wide working range. This, plus large breakout force make it easy to conduct any type of excavation work.



Extra small min. swing radius makes the PC40 an efficient machine in tight quarters.



Comfortable cab is optionally available. This wide cab isolates the operator from the external elements such as dust, rain, noise and others. It also offers an ample workspace for relaxed controls and assures a panoramic view.



Full-open machine cover allows quick access to internal components such as engine, hydraulic equipment, etc. for both quick checking and repairing.

This specification sheet may contain attachments and optional equipment that are not available in your area. Please consult your local Komatsu distributor for those items you may require. Materials and specifications are subject to change without notice.

# **H** KOMATSU

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