

PC10-5

HYDRAULIC EXCAVATOR



Steel canopy is optionally available.
Photo shown may include other optional equipment.

KOMATSU VANGUARD SERIES

- The Komatsu 3D75 engine with a large piston displacement assures powerful excavation even at partial throttle.
- A large boom offset is ideal for trench excavation, etc. in confined areas.
- A wide working range makes excavation easy and efficient.
- In-shoe design of travel motors not only refines the undercarriages but also gives excellent maneuverability in rough terrain.
- All operations are easily made with the long control levers.
- Low noise operation is assured by the rubber-pad-mounted engine.
- A newly designed wide cab (optional) offers easy and comfortable controls.
- Maintenance is facilitated by a full-open machine cover.
- Colored, low-profile machine design is newly employed.

SPECIFICATIONS



ENGINE

Komatsu 3D75-2C 4-cycle, water-cooled, overhead valve diesel engine. 3 cylinders, 75 mm (2.95") bore x 75 mm (2.95") stroke and 0.994 ltr. (61 cu.in) piston displacement.

Flywheel horsepower:

17.8 HP (14 kW) at 2600 RPM (SAE J1349)

19 PS (14 kW) at 2600 RPM (DIN 6270 NET)

Direct-injection fuel system. All-speed mechanical governor. Force-lubrication driven by trochoid pump. Full-flow filter for lube purification. Dry-type air cleaner. 12 V/1.4 kW electrical starter motor. 12 V/20 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
 20.3 ltr. (5.4 U.S. gal)/min. x 2 +
 15.3 ltr. (4.0 U.S. gal)/min. x 2

Hydraulic motors

Travel Two axial piston motors with brake valve

Swing One gear motor

Relief valve setting

Implement circuits 175 kg/cm² (2,500 PSI/17.2 MPa)

Travel circuits 175 kg/cm² (2,500 PSI/17.2 MPa)

Swing circuit 175 kg/cm² (2,500 PSI/17.2 MPa)

Control valves

6-spool and 2-spool control valves.

Hydraulic cylinders

Cylinder	Numbers	Bore
Boom	1	70 mm (2.8")
Arm	1	70 mm (2.8")
Bucket	1	60 mm (2.4")
Boom offset	1	60 mm (2.4")
Blade	1	70 mm (2.8")



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 planetary eccentric single-reduction gear to track. Travel motors are neatly installed within track shoe's width (in-shoe design).

Max. drawbar pull 1660 kg (3,527 lb/15.7 kN)

Max. travel speed 2.0 km/h (1.3 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. Single-row 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 proportional to swing control lever stroke.

Swing speed 10 RPM

Tail swing radius 1280 mm (4'2")

Min. swing radius 1825 mm (6')
 (work equipment, fully retracted)

Boom swing: Boom can be swung 57.5° to left and right by boom offset cylinder independent of upper structure swinging.

Boom offset distance: Left 465 mm (1'6")
 Right 465 mm (1'6")



BLADE

Welded, unitized construction of blade and frame.

Blade width x height . . . 1400 mm (4'7") x 300 mm (11.8")

Blade cutting angle 70°

Max. lift above ground 295 mm (11.6")

Max. drop below ground 285 mm (11.2")



UNDERCARRIAGE

Box-section track frames. Sealed track. Lubricated rollers and idlers. Hydraulic track adjusters with shock absorbing springs. Welded track-type tractor shoes with double grousers.

Shoe width 250 mm (9.8")

Grouser height 16.5 mm (0.6")

Number of shoes 38 each side

Number of track rollers 3 each side

Ground pressure 0.29 kg/cm² (4.1 PSI/28.4 kPa)



COOLANT & LUBRICANT CAPACITY (refilling)

	Liter	U.S. gallon
Fuel tank	30	7.9
Radiator	4.7	1.2
Engine	3.1	0.8
Final drive, each side	0.8	0.2
Hydraulic tank	30	7.9



OPERATING WEIGHT (approximate)

Operating weight including 2085 mm (6'10") one-piece boom, 1150 mm (3'9") arm, heaped 0.10 m³ (0.13 cu.yd) backhoe bucket, operator, lubricant, coolant and full fuel tank:

2100 kg (4,630 lb)

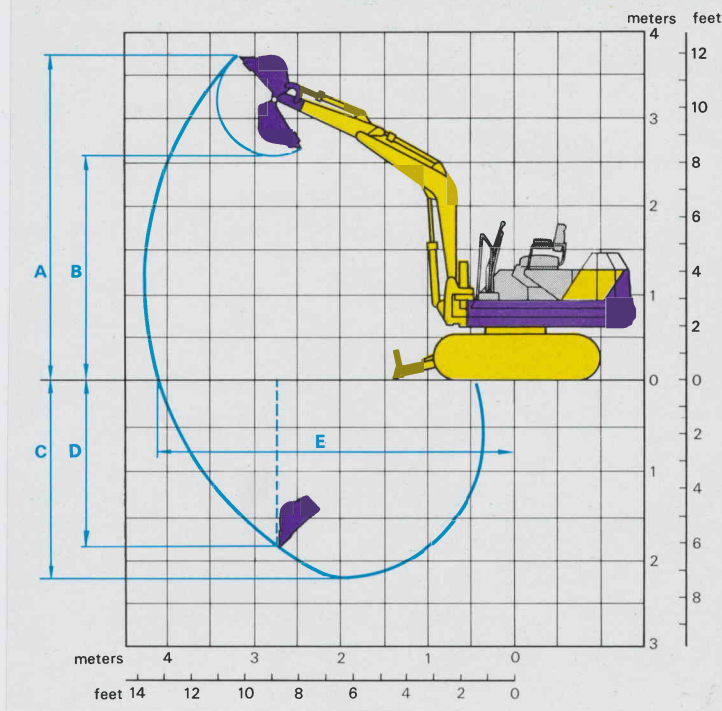
(*Heaped capacity = struck capacity x 2)

STANDARD EQUIPMENT

12 V/1.4 kW electric starting motor. 12 V/20 A alternator. Dry-type air cleaner. Electric horn. Operator's seat. 250 mm (9.8") double-grouser shoes. Hydraulic track adjusters. Full hydrostatic drive. 12 V/70 Ah battery. Front light. Engine water temperature gauge. Warning lamp for engine oil pressure. Alternator charge lamp. Service meter. Lubricated rollers and idlers. Sealed track. Fuel level gauge. Dozer blade. Tool kit and ordinary spare parts.



WORKING RANGE



Arm length		with 1150 mm (3'9") arm
A	Max. digging height	3.81 m (12'6")
B	Max. dumping height	2.62 m (8.7")
C	Max. digging depth	2.31 m (7'7")
D	Max. vertical wall digging depth	1.82 m (6')
E	Max. digging reach at ground level	4.12 m (13'6")
Bucket digging force		1700 kg (3,750 lb/16.7 kN)

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

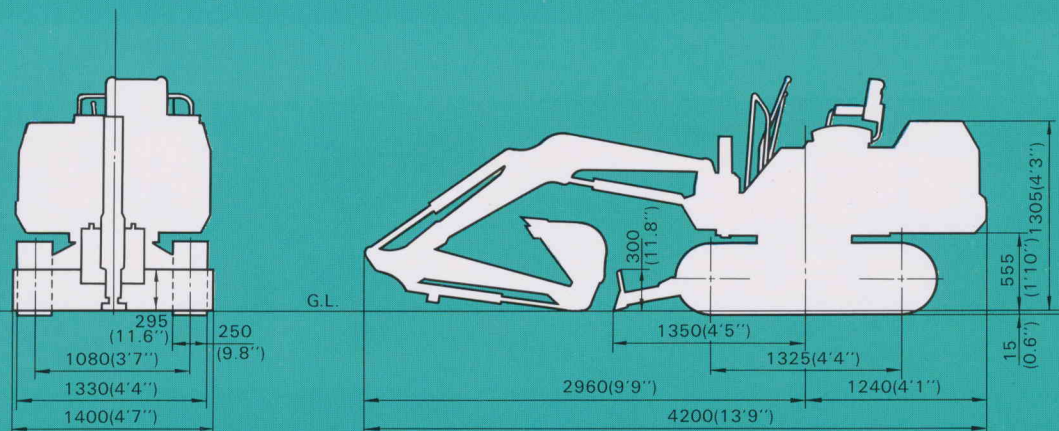
Type of shoes	Ground pressure kg/cm ² (PSI/kPa)
250 mm (9.8") flat shoes	0.28 (4.0/27.5)
300 mm (11.8") double-grouser shoes	0.24 (3.4/23.5)
300 mm (11.8") swamp shoes	0.25 (3.6/24.5)
260 mm (10.2") rubber shoes	0.26 (3.7/25.5)
300 mm (11.8") rubber-pad shoes	0.25 (3.6/24.5)

Capacity : m³ (cu.yd)				
Heaped (struck x 2)	0.10 (0.13)	0.12 (0.16)	0.07 (0.09)	0.05 (0.07)
JIS, CECE heaped	0.06 (0.08)	0.07 (0.09)	0.04 (0.05)	0.03 (0.04)
SAE, PCSA heaped	0.07 (0.09)	0.085 (0.11)	0.05 (0.07)	0.03 (0.04)
Struck	0.05 (0.07)	0.06 (0.08)	0.035 (0.046)	0.025 (0.03)
Bucket width : mm (in)				
without side cutters	450 (17.7)	550 (21.7)	350 (13.8)	250 (9.8)
with side cutters	480 (18.9)	580 (22.8)	380 (15.0)	280 (11.0)
No. of bucket teeth	4	4	3	3
Bucket type	Standard bucket	Light-duty bucket	Narrow bucket	Narrow bucket



DIMENSIONS

Unit : mm (ft.in)

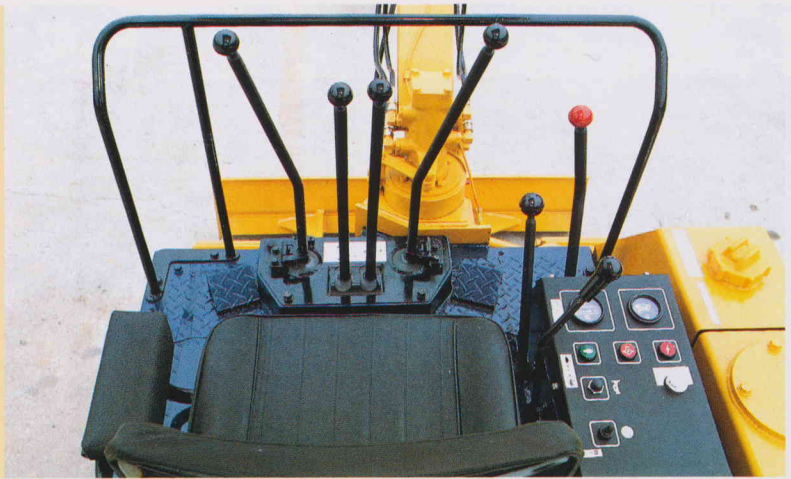


With 2085 mm (6'10") One-piece boom, 1150 mm (3'9") arm, *heaped 0.10 m³ (0.13 cu.yd) backhoe bucket.

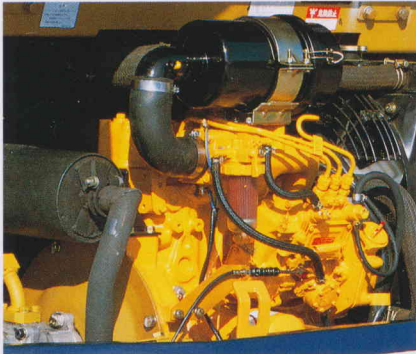


CONTROLS

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 rubber-pad-mounted engine.



PRODUCTIVE FEATURES



Komatsu-built 3D75 engine provides a tenacious power of 17.8 HP (14 kW) at 2600 RPM. Its large piston displacement assures powerful excavation even at partial throttle, without fear of stalling.



Convenient boom offset: The boom itself can be swung 57.5° to left and right. This means that the PC10-5 can complete quick dig/load operations in extra tight quarters without swinging the upper structure of which the tail end may hit obstacles such as walls, poles, etc. (Steel cab is optionally available.)



Wide working range: Equipped with the long boom and arm, the PC10-5 attains a wide working range. This, plus large breakout force make it easy to conduct any type of excavation work. (Steel canopy is optionally available.)



Comfortable cab is optionally available. This wide cab isolates the operator from 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.



Dozer blade: This toughly constructed blade is ideal for refilling and leveling. Due to the advanced control valve mechanism, simultaneous blade actions and machine travel are smooth.

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.



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CASE POSTALE 1447, SUCC. ST-LAURENT
ST-LAURENT, QC H4L 4Z1
VENTES - PIÈCES - SERVICE
(514) 341-4590 ou sans frais 1-800-361-1412

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