Trencher 560

ENGINE

Model ..... Kubota V2203-DI-B
Type .... 4-stroke, naturally aspirated
Cylinders 4
Fuel injection ..... Direct
Bore/Stroke..... 3.43" x 3.64"
Displacement ..... 134 in^3
Horsepower
  Gross..... 51 @ 2800 rpm
  Net ..... 46 @ 2800 rpm
Maximum torque
  Gross..... 116 lb·ft @ 1600 rpm
  Net ..... 108 lb·ft @ 1600 rpm

DRIVELINE

Hydrostatic 4WD with 4-wheel steering. Limited-slip differential and outboard planetaries on both front and rear axles. Modular powertrain.

Hydrostatic drive ..... Variable displacement axial-piston pump 0-33.9 gpm
Axle ratio..... 12.5:1

TRAVEL/WORK SPEEDS

1st..... 0 to 1.5 mph
2nd ..... 0 to 5.7 mph

NOTE: Rated speeds in forward and reverse.

TIRES

31 x 15.5 - 15, 8PR

OPERATOR ENVIRONMENT

Left and right entry/exit. Swivel seat. Key start. Hand and foot throttles.

GAUGES AND WARNING LIGHTS

Engine coolant temperature – Hydraulic oil temperature – Fuel – Voltage – Engine oil pressure – Tachometer/hourmeter – Hydraulic and air filter restriction – Alternator

HYDRAULIC SYSTEM

Ground drive pump ..... 33.9 gpm
Attachment drive pump ..... 33.9 gpm
Steering pump ..... 7.2 gpm
Accessory pump ..... 7.2 gpm

FILTRATION

Full-flow spin-on cartridges
Accessory return..... 2 micron
Charge pump flow ..... 2 micron

NOTE: Pump capacity rated @ 2800 engine rpm.

SERVICE CAPACITIES

Fuel tank..... 13.0 gal
Cooling system..... 3.5 gal
Engine with oil filter ..... 8.0 qt
Hydraulic reservoir..... 8.0 gal
Total hydraulic..... 14.0 gal
Transmission ..... 3.5 pt
Axle center (each) ..... 1.0 gal
Planetaries (each)..... 1.0 pt
Trencher planetary drive ..... 1.5 qt
Hydra-Borer® System..... 1.0 qt

ELECTRICAL SYSTEM

Battery..... 12 volt, 525 CCA
Alternator ..... 12 volt, 45 amp
Starter ..... 12 volt, 2.0 kW

TRENCHER

Dig depth ..... to 72.0"
Digging width..... 6.0" to 16.0"
Chain line speed
  Direct drive ..... 647 fpm
  Planetary drive ..... 657 fpm
Chain tensile strength..... 50,000 psi
75,000 psi
110,000 psi
Drive ..... Hydrostatic/Reversible
Boom angle from horizontal
  Direct drive ..... Up 60°/Down 60°
  Planetary drive ... Up 55°/Down 60°
Angle of departure
  Direct drive ..... 25°
  Planetary drive ..... 33°

QUAD ATTACHMENT

Offset from centerline of machine to center of:
  Plow left..... 9.4"
  Trencher right..... 28.5"
Weight ..... 8,200 lb

NOTE: 560 equipped with quad-attach, P75 plow, direct-drive trencher, 4' rock boom, 75K chain, large cup teeth, restraint bar, D100 backhoe and 16" bucket.

6-WAY BACKFILL BLADE

Width..... 72.0"
Height ..... 14.3"
Lift clearance..... 14.4"
Angle of approach..... 20°
Ground clearance ..... 11.0"
Depth of cut ..... 9.0"
Offset outside of tire..... 10.4"
Angle left or right each direction. 40°
Tilt each direction ..... 8°

VIBRATORY PLOW

P75 VIBRATORY PLOW

Vibration .. Counter-rotating weights
Frequency - maximum..... 2,000 vpm
Drive ..... Hydrostatic
Angle of depression ..... 17°
Weight - no blade ..... 650 lb

P85 VIBRATORY PLOW

Vibration .. Counter-rotating weights
Frequency - maximum..... 2,000 vpm
Drive ..... Hydrostatic
Blade steer angle..... 30°
Minimum turning radius @ blade..... 18.0"
Angle of depression ..... 14°
Offset from centerline ..... 32.0"
Weight - no blade ..... 1,775 lb

REEL CARRIER

Maximum reel width..... 42.1"
Maximum reel diameter
  w/backfill blade ..... 48.0"
  w/o backfill blade ..... 60.0"
Angle of approach w/o backfill blade
  w/48" reel..... 27°
  w/60" m reel ..... 23°
Center of reel - hydraulic lift
  Pickup height ..... 12.0"
  Maximum height ..... 59.5"
Reel shaft diameter ..... 1.9"
Capacity ..... 1,000 lb

HYDRA-BORER® SYSTEM

Drive ..... Hydraulic
Torque..... 268 lb·ft
Rotation ..... Bi-directional
Rod length..... 10'0"
Drive shaft height ..... 24.2"
Maximum rpm 276

ROCKWHEEL

Cutting widths..... 3.0"
or 4.0"
or 5.0"
or 6.0"
Cutting depth ..... Up to 24.0"
Weight ..... 1,870 lb
Teeth ..... Replaceable carbide tips
Drive ..... Hydrostatic
Lift ..... Hydraulic

BACKHOE BUCKETS

D100 GENERAL PURPOSE

Bucket Width	Struck Capacity	Heaped Capacity
12.0"	1.0 ft³	1.3 ft³
16.0"	1.6 ft³	2.0 ft³
18.0"	1.6 ft³	2.1 ft³
20.0"	2.2 ft³	2.9 ft³
24.0"	2.8 ft³	3.5 ft³

D100 BELLHOLE BUCKETS

12.0"	1.0 ft³	1.3 ft³
18.0"	1.4 ft³	1.8 ft³

D125 GENERAL PURPOSE

13.0"	1.1 ft³	1.4 ft³
18.0"	1.6 ft³	2.1 ft³
24.0"	2.2 ft³	3.1 ft³

BACKHOE LIFT CAPACITIES

HEIGHT ABOVE & BELOW GROUND LEVEL

D100 BACKHOE

BOOM LIFT

+8'	770 lb
+6'	745 lb
+4'	710 lb
+2'	670 lb
Ground Level	645 lb
-2'	635 lb

DIPPER LIFT

+8'	730 lb
+6'	710 lb

D125 BACKHOE

BOOM LIFT

+10'	870 lb
+8'	900 lb
+6'	880 lb
+4'	880 lb
+2'	830 lb
Ground Level	810 lb
-2'	810 lb
-4'	790 lb

DIPPER LIFT

+10'	2,000 lb
+8'	1,840 lb
+6'	1,980 lb

NOTE: Equipped with 24" general purpose trenching bucket.

BACKHOE OPERATIONAL DATA

	D100	D125
Digging depth		
Maximum	65.9"	87.3"
2' flat bottom	64.6"	84.8"
8' flat bottom	36.9"	79.8"
Bucket digging force	5,380 lbf	6,670 lbf
Dipper digging force	2,380 lbf	3,230 lbf
Reach from swing pivot	103.9"	135.6"
Bucket rotation	132°	174°
Swing arc	176°	175°
Loading height	72.6"	88.2"
Operating height - fully raised	126.5"	166.2"
Transport height	92.5"	112.0"
Stabilizer spread		
Working	91.2"	90.0"
Transport	64.4"	64.3"
Leveling angle	4°	4°
Backhoe weight w/o bucket	1,450 lb	1,604 lb

DIMENSIONS/OPERATING WEIGHT

Overall height prime mover to top of ROPS	93.0"
Overall length prime mover	93.0"
Overall transport length w/backhoe and trencher w/4' boom	D100 - 246.2" D125 - 242.3"
Overall transport length w/plow and reel carrier - no reel	219.1"
Angle of approach - prime mover	65°
Angle of departure - prime mover	90°
Minimum ground clearance - w/o backfill blade	12.0"
Minimum ground clearance w/backfill blade	11.0"
Wheelbase	57.1"
Trencher headshaft height	27.9"
Angle of departure with trencher attachment: direct/planetary	25°/33°
Trencher boom angle down from horizontal: direct/planetary	60°/60°
Trencher boom angle up from horizontal: direct/planetary	60°/55°
Overall transport height w/backhoe	D100 - 92.5" D125 - 112.0"
Backfill blade height	14.3"
Backfill blade lift height	14.4"
Backfill blade depth of cut below grade	9.0"
Transport height, plow frame base tractor	100.0"
Plow swing angle	25° from center
Plow offset from centerline	32.0"
Angle of departure base tractor/plow attachment raised:	
w/mounted blade (30" blade)	26°
w/o mounted blade	27°
Plow blade tip ground clearance base tractor (30" blade)	24.9"
Overall width base tractor	69.5"
Tread width (centerlines) base tractor	53.7"
Turning radius (outside) base tractor - 2-wheel steer	183"
Turning radius (outside) base tractor - 4-wheel steer	116"
Operating weight	7,000 lb

Operating weight: Equipped with rear trencher, 4' rock boom, 75K chain, weight rack with weights and backfill blade.

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