



Trencher 460

ENGINE

Model..... Kubota V1505-B
 Type 4-stroke, naturally aspirated
 Cylinders 4
 Fuel injection Indirect
 Bore/Stroke..... 3.07" x 3.09"
 Displacement 91.4 in³
 Horsepower
 Gross..... 37 @ 3000 rpm
 Net 33.5 @ 3000 rpm
 Maximum torque
 Gross 73 lb·ft @ 2000 rpm
 Net 67 lb·ft @ 2000 rpm

DRIVELINE

Hydrostatic 4WD with optional 4-wheel steering. Limited-slip differential and outboard planetaries on both front and rear axles. Full-floating axle design. Modular powertrain.
 Hydrostatic drive Variable displacement axial-piston pump
 0-27.3 gpm
 Axle ratio 5.38:1

TRAVEL/WORK SPEEDS

26 x 12.0 - 12 0 to 3.6 mph
 29 x 12.5 - 15 0 to 4.1 mph

NOTE: Rated speeds in forward and reverse.

TIRES

26 x 12.0 - 12, 8PR
 29 x 12.5 - 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 27.3 gpm
 Attachment drive pump 27.3 gpm
 Steering pump 6.5 gpm
 Accessory pump 8.2 gpm

FILTRATION

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

NOTE: Pump capacity rated @ 3000 engine rpm.

SERVICE CAPACITIES

Fuel tank 13.0 gal
 Cooling system 3.0 gal
 Engine with oil filter 7.0 qt
 Hydraulic reservoir 6.0 qt
 Total hydraulic 11.0 gal
 Transmission 1.0 qt
 Axle center (each) 1.0 qt
 Trencher planetary drive 1.5 qt
 Hydra-Borer® System 1.0 qt

ELECTRICAL SYSTEM

Battery..... 12 volt, 585 CCA
 Alternator 12 volt, 30 amp
 Starter 12 volt, 1.4 kW

TRENCHER

Dig depth to 60.0"
 Digging width..... 6.0" to 16.0"
 Chain line speed 647 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 22°
 Planetary-drive 33°

BACKFILL BLADE

Width..... 62.0"
 Height 14.3"
 Lift clearance 15.5"
 Angle of approach 21°
 Ground clearance 8.3"
 Depth of cut 11.9"
 Offset outside of tire 10.4"
 Angle left or right each direction
 4-way blade 35°
 6-way blade 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

REEL CARRIER

Maximum reel width..... 24.0"
 Maximum reel diameter
 w/backfill blade 36.0"
 w/o backfill blade 36.0"
 Angle of approach w/o backfill blade
 w/914 mm reel..... 28°
 Reel shaft diameter 1.66"
 Capacity 300 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

GENERAL PURPOSE

Bucket Width	Struck Capacity	Heaped Capacity
12.0"	1.0 ft ³	1.3 ft ³
16.0"	1.6 ft ³	2.0 ft ³
18.0"	1.6 ft ³	2.1 ft ³
20.0"	2.2 ft ³	2.9 ft ³
24.0"	2.8 ft ³	3.5 ft ³

BELLHOLE BUCKETS

12.0"	1.0 ft ³	1.3 ft ³
18.0"	1.4 ft ³	1.8 ft ³

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

NOTE:

Equipped with 24" general purpose trenching bucket.

D100 BACKHOE OPERATIONAL DATA

Digging depth

Maximum	69.1"
2' flat bottom	68.4"
8' flat bottom	39.4"
Bucket digging force	5,380 lbf
Dipper digging force	2,380 lbf
Reach from swing pivot	104.1"
Bucket rotation	132°
Swing arc	176°
Loading height	70.1"
Operating height - fully raised	124.0"
Transport height	90.0"
Stabilizer spread	
Working	91.2"
Transport	64.4"
Leveling angle	4°
Backhoe weight w/o bucket	1,450 lb

DIMENSIONS/OPERATING WEIGHT

Overall height prime mover to top of ROPS	88.9"
Overall length prime mover	84.2"
Overall transport length w/backhoe and trencher w/48" boom	246.2"
Overall transport length w/plow and reel carrier - no reel	182.0"
Angle of approach - prime mover	43°
Angle of departure - prime mover	90°
Minimum ground clearance - w/o backfill blade	12.0"
Minimum ground clearance w/backfill blade	8.3"
Wheelbase	53.2"
Trencher headshaft height	27.9"
Angle of departure with trencher attachment: direct/planetary	22°/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	90.0"
Backfill blade height	14.3"
Backfill blade lift height	15.5"
Backfill blade depth of cut below grade	11.9"
Transport height, plow frame base tractor	49.0"
Plow swing angle	30° from center
Angle of departure base tractor/plow attachment raised:	
w/mounted blade (24" blade)	11°
w/o mounted blade	34°
Plow blade tip ground clearance base tractor (24" mm blade)	12.2"
Overall width base tractor	62.0"
Tread width (centerlines) base tractor	48.0"
Turning radius (outside) base tractor	150"
Operating weight	5,660 lb

NOTE: Dimensions based on 26 x 12.0 - 12 tires.

Operating weight: Equipped with direct-drive trencher, 4' rock boom, 50,000 psi chain, weight rack with

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