



OLIVER

SPECIFICATIONS
MODEL 1650
4-WHEEL DRIVE
LOADER-CARRIER-HOE
(DETACHABLE BACKHOE)



- TORQUE CONVERTER WITH FOOT-OPERATED POWER-SHIFT FORWARD AND REVERSE CLUTCHES
- LIFT CAPACITY OF LOADER TO FULL HEIGHT—5000 LBS.
- MAXIMUM DUMP HEIGHT OF BUCKET AT FULL DUMP, 9 FT.
- DIGGING DEPTH OF BACKHOE 15 FT.
- STEP-IN DESIGN OPERATOR'S COMPARTMENT

INDUSTRIAL MANUAL
SECTION - BACKHOES
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S P E C I F I C A T I O N S

CARRIER

Horsepower (2200 RPM)	Gasoline	Diesel
Corrected to Standard Sea Level (29.92 inches Hg. and 60° F.)		
Net Engine (Mfr's. Est.).....	78	78
Drawbar Max.....	58	57

Engine	Gasoline	Diesel
Make.....	Oliver	
Number of cylinders.....	6	6
Bore & Stroke (in.).....	3 3/4 x 4	3 3/8 x 4
Governed RPM.....	2200	2200
Piston Displ. (in.).....	265	283
Valve arrangement.....	Valve in head	
Pistons.....	Aluminum	
Cylinder Sleeves.....	Removable Wet	
Oil Filter.....	Full Flow	
Air Cleaner.....	Dry w/replaceable element	
Compression Ratio.....	8.5:1	16:1

Transmission

Type.....	Constant mesh, helical gears
Speeds.....	.6 forward, 6 reverse**
Brakes.....	Differential, double-disc
(Optional Transmission—6 Forward—2 Rev. Reg.)	

Wheels, Tires, Tread	Gasoline	Diesel
Tread, front in inches.....	65 or 72	
Tread, rear in inches.....	71 1/2	
Tires, front (steel wheels).....	8.25 x 20—10 ply (Grader)	
Tires, rear (steel wheels).....	16.9 x 28-6 ply (R-4)	

Regular Equipment

- Single, upholstered seat for tractor, loader and backhoe operation
- Lights—Two headlights, tail light, rear floodlight
- Power steering (Hydrostatic)
- Torque converter with power shift forward and reverse clutches
- Foot-operated accelerators (3) (forward, reverse, engine speed)
- Cast iron grille guard.
- Mounting step on left for easy access to operator's compartment and two hand holds

LOADER

Std. Bucket (84") SAE rated (cu. yd.).....	1 1/2
Lift cap. to full height (lbs.).....	5000
Lift cap. to carry height (3') (lbs.).....	6500
Breakout force (lbs.).....	10000
Height to bucket hinge pin.....	11' 2"
Reach at full dump, max. height.....	35°
Clearance, full dump.....	9'
Bucket rollback (ground level).....	35°
Dumping angle.....	45°
Digging depth below ground (in.) bucket level.....	1'
Raise time to full height (sec.).....	5.2
Dump time (sec.).....	2.7

Hydraulics

Hydraulic pump (gear type).....	27 GPM
Valve-Lift spool has hydraulic self-leveling, up, down, hold, float	
Lift cylinders (double-acting).....	3" x 36 1/2"
Bucket cylinder (double-acting).....	3" x 20"
Oil filter (2) 60 mesh screen and 10 micron replaceable cartridge	
Optional bucket—96"—(2 cu. yd.) light material	

BACKHOE

Max. digging depth.....	15'
Max. swing arc.....	180°
Loading height.....	9' 3"
Reach from center of swing post.....	17' 1"
Reach from center line of rear axle.....	20' 6"
Transport height.....	10' 6"
Lifting capacity, fully extended (lbs.).....	1800
Stabilizer spread (working).....	10' 2"
Swing cylinder.....	Rotary
Boom, dipper stick, bucket and stabilizer cylinders.....	4"—Double Acting
Overall length—loader-carrier-hoe.....	24' 3"

Shipping Weight of Unit

Gas (pounds).....	12,780
Diesel (pounds).....	12,880
Weight includes 84" loader bucket & 24" backhoe bucket, 8.25 x 20 front tires & 16.9 x 28 rear tires on steel wheels.	

**With torque converter & power shift (forward & reverse clutches)

Wherever applicable, specifications are in accordance with I.E.M.C. standards.

OLIVER CORPORATION, INDUSTRIAL DIVISION
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 400 WEST MADISON STREET, CHICAGO, ILLINOIS 60606

The manufacturer reserves the right to change specifications without notice and without incurring obligation. Information contained herein is from data available at time of printing.

WS-2017B

15M-1-65

Printed in U.S.A.