



OLIVER

SPECIFICATIONS
MODEL 1600
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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MODEL 1600 4-WHEEL DRIVE LOADER-CARRIER-HOE

* SPECIFICATIONS

CARRIER

Horsepower (1900 RPM)	Gasoline	Diesel
Corrected to Standard Sea Level (29.92 inches Hg. and 60° F.)		
Net Engine (Mfr's. Est.).....	68.5	65.0
Drawbar Max.....	51.5*	52.85*
Drawbar Pounds Pull (Mfr's. Est.).....	11,000 lbs.	

*Observed in official tests

Engine	Gasoline	Diesel
Make.....	Oliver	
Number of cylinders.....	6	6
Bore & Stroke (in.).....	3 3/8 x 4	3 3/4 x 4
Governed RPM.....	1900	1900
Piston Displ. (in.).....	248	265
Valve arrangement.....	Valve in head	
Pistons.....	Aluminum	
Cylinder Sleeves.....	Removable-Wet	
Oil Filter.....	Full Flow	
Air Cleaner.....	Oil Bath	Oil Bath with Pre-cleaner
Compression Ratio.....	8.5:1	16 1/4:1

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	
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—Dual 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

LOADER †

Std. Bucket (84") SAE rated (cu. yd.).....	1 1/8
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 stabilize 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.	

†Manufacturer's estimate

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

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

OLIVER CORPORATION, INDUSTRIAL DIVISION
SUBSIDIARY OF THE WHITE MOTOR COMPANY

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.

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