



## OLIVER

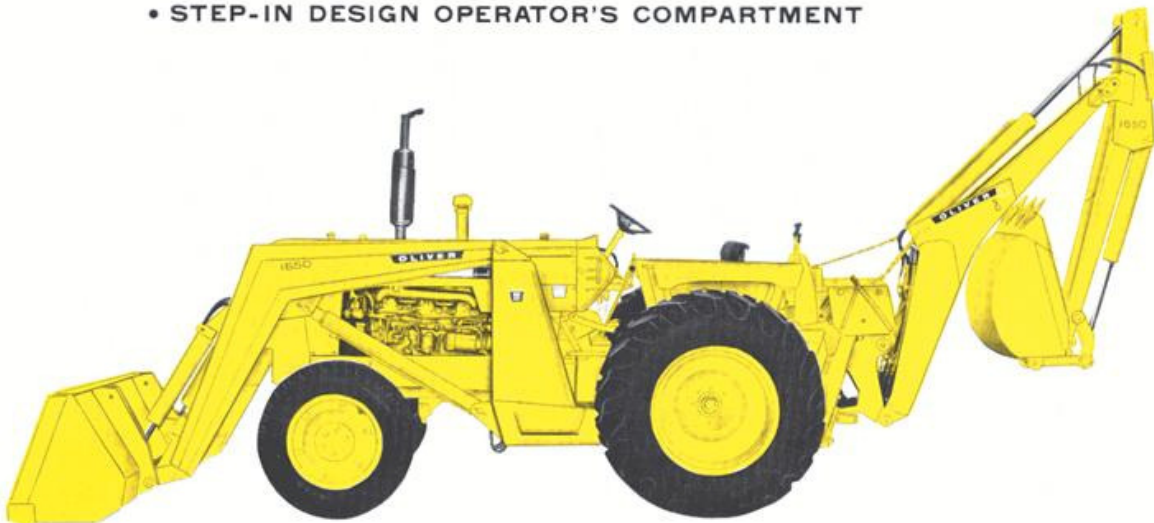
### SPECIFICATIONS

MODEL 1650

LOADER-CARRIER-HOE

(DETACHABLE BACKHOE)

- TORQUE CONVERTER WITH FOOT-OPERATED POWER-SHIFT FORWARD AND REVERSE CLUTCHES
- ENGINE HORSEPOWER—GAS 78.0—DIESEL 78.0
- LIFT CAPACITY OF LOADER TO FULL HEIGHT—5000 LBS.
- MAXIMUM HEIGHT OF BUCKET AT FULL DUMP, APPROX. 9 FT.
- DIGGING DEPTH OF BACKHOE 15 FT.
- STEP-IN DESIGN OPERATOR'S COMPARTMENT



INDUSTRIAL MANUAL  
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## OLIVER

## MODEL 1650 LOADER-CARRIER-HOE

\* SPECIFICATIONS

### CARRIER

Horsepower	Gasoline	Diesel
Engine, Net-Corrected to 29.92 inches HG and 60°F.....	78*	78*
Drawbar.....	58	57
<small>*Manufacturer's estimate</small>		
Engine	Gasoline	Diesel
Make.....	Oliver	
Number of cylinders.....	6	6
Bore & Stroke (in.).....	3¼ x 4	3⅞ x 4
Governed RPM.....	2200	2200
Piston Displ. (inches).....	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

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

### Wheels, Tires, Tread

	Gasoline	Diesel
Tread, front in inches.....	60	60
Tread, rear in inches.....	59 to 73½	
Tires, front (cast iron wheels).....	8.25 x 20—10 ply	
Tires, rear (with steel wheels).....	16.9 x 28—6 ply	

**Note:** Optional tires available.  
 Cast iron or steel wheels optional for front & rear with various tires.

### 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  
 Mounting step on left for easy access to operator's compartment  
 Two hand holds on left side for mounting

### LOADER

Std. Bucket (76" SAE rated (cu. yd.).....	1
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.....	6"
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 36½"  
 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).....	11580
Diesel (pounds).....	11680

Weight includes 76" loader bucket & 24" backhoe bucket, 8.25 x 20 front tires on cast wheels & 16.9 x 28 rear tires on steel wheels.

**OLIVER CORPORATION, INDUSTRIAL DIVISION**  
**SUBSIDIARY OF THE WHITE MOTOR COMPANY**  
 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.*

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