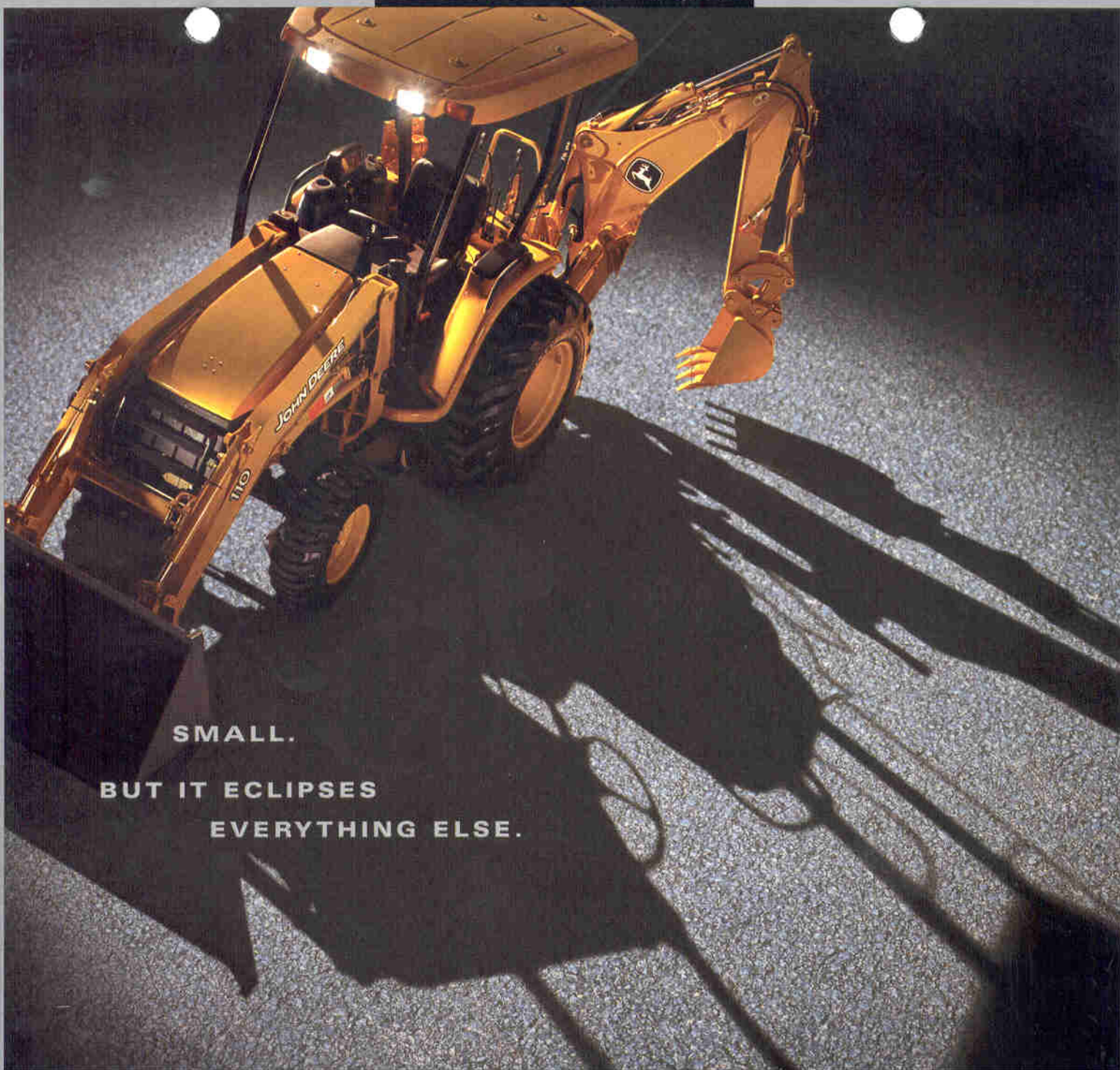


JOHN DEERE



SMALL.
BUT IT ECLIPSES
EVERYTHING ELSE.

110 TRACTOR LOADER BACKHOE

43 ENGINE HP - 33 PTO HP - 31 HYDRAULIC HP



JOHN DEERE

DESIGNED TO FILL A HOLE IN THE INDUSTRY.



Easily transported with an appropriate heavy-duty pickup and a trailer rated 10,000 lb. GVWR.[†]



Puts in the same full day as a full-size machine.

The New 110 Tractor Loader Backhoe

Ever wanted a high-performance backhoe without the hassle of moving a large piece of equipment? A compact excavator's digging abilities with more flexibility? The turf-friendliness of a tractor, combined with a skid steer's hydraulic capabilities?

The 110 is all this and more.

Three years in development, created through the combined technical expertise of all three John Deere equipment divisions, its sophisticated design survived rigorous computer analysis and construction testing. Not to mention, the toughest scrutiny of all: Two years of intensive customer evaluation.

All of which it passed with flying colors. (Yellow, that is.)



Delivers a full 33 PTO hp to drive rotary cutters, trenchers, generators, pumps and other implements.

Heads or tails, you win. With wide-open layout and flip-over seat, comfort and visibility are equally good in both positions.



[†]Refer to state and local regulations.

AT BOTH ENDS, A NEW BEGINNING.

True construction loader: Continuous low-angle boom arms. High-strength, low-alloy steel. Bucket anti-spill. Loader masts of ductile cast iron that absorb even extreme shock loads.



Standard skid steer mounting plates. Unique rotating pawl design sheds mud and debris. Quickly hooks to a variety of front implements.

Everything you'd expect from a construction backhoe, only smaller. Made from high-strength steel, with a curved main boom, custom-designed control valves and John Deere Series 120 cylinders. Modeled directly from the full-size Deere 310 Backhoe Loader.



Remove backhoe and activate a true Category 1, 3-point hitch. Available implements include an 84-inch Worksite Pro™ box blade.

Optional quick-coupler lets you change buckets in a snap. Optional seventh function auxiliary hydraulics power popular attachments like breakers and more. A hydraulic "thumb" is also available.



A unique creep-to-reposition feature (patent pending) allows the machine to be moved backwards or forwards along a trench from the backhoe position.



TRUE STRENGTH COMES FROM WITHIN.

The 110 is not your typical compact tractor. All major components have been designed to take full-time, not part-time, backhoe and loader work. (Even the tires are special heavy-duty Galaxy brand, for long wear.)

Why put so much extra effort into the 110? If you had a 45-year legend of construction excellence to live up to, wouldn't you?

The fully closed backhoe booms have been designed much like a suspension bridge, capable of carrying large amounts of weight, but weighing very little.

Cast-iron front axle is substantially thicker and stronger than a standard compact axle. Power is delivered through a heavy four-pinion differential.



Protective subframe runs the full length of the 110 (from grille guard to backhoe mount), and the whole frame rests on top of axle (instead of below as on some competitive designs).



Engine

Type	Diesel, direct injection
Gross HP (kW)	43.0 (32.1)
Net HP (kW)	41.0 (30.6)
PTO HP (kW)	33.0 (24.6)
Hydraulic HP (kW)	30.92 (23.1)*
No. of Cylinders	4
Total Displacement, cu. in. (L)	121.7 (2.0)

Transmission

Type	Hydrostatic w/ load sensing system
Range Speeds	3
Max Travelling Speed, mph (kph)	16.1 (26.1)

Power Train

Front Axle	Mechanical, bevel gear
Front Differential	Cast, four pinion gears
Steering	Power, hydrostatic, 58° turn
Final Drives	Planetary, inboard
Brakes	Wet disc, mechanical
Rear Power Take Off	540, fully independent
Front Tires (R4 or R3 tread pattern)	10x16.5 8PR
Rear Tires (R4 or R3 tread pattern)	17.5Lx24 8PR

Hydraulic System

Pumps	3, Open center systems
Total Flow, gpm (lpm)	23.6 (89.2)
System Operating Pressure, psi (kPa)	3000 (20,684)
Oil Cooler	Steel, thick core, 190 sq. in.

Capacities

Fuel Tank, U.S. gal. (L)	15.3 (58)
Cooling System, U.S. gal. (L)	2.4 (9)
Transmission & Hydraulics, U.S. gal. (L)	15.0 (57)

Loader (ASAE S301.3)

Lift Height to Pivot Pin, ft. (mm)	9.6 (2917)
Reach at Maximum Lift Height, ft. (mm)	2.1 (635)
Maximum Dump and Rollback Angle	45°
Lift Capacity to Max Height, Pivot Pin, lb. (kg)	2,727 (1237)
Lift Capacity to Max Height, lb. (kg)	2,042 (926)
Breakout Force at Pivot Pins, lb./ft. (N)	3,965 (17,635)
Loader Raise Time, sec.	3.44
Loader Lowering Time, sec.	2.31

Backhoe

Maximum Digging Depth, ft. (mm)	10.1 (3073)
Digging Depth, 2ft. Flat Bottom, ft. (mm)	9.9 (3021)
Truck Loading Height, ft. (mm)	8.4 (2567)
Reach from Swing Pivot, ft. (mm)	13.2 (4016)
Stabilizer Spread, Operating, ft. (mm)	8.2 (2489)
Stabilizer Arm Leveling Angle	12°
Boom Swing Arc	180°
Bucket Rotation	190°
Angle of Departure	21°
Digging Force, Bucket Cylinder, lb. (N)	5,235 (23,287)
Digging Force, Crowd Cylinder, lb. (N)	3,764 (16,743)

Certifications

ROPS	SAE J1040 to 9,000 lb.
FOPS	ISO 3449 level 1

Transport Data

Weight with Loader and Backhoe, lb. (kg)	7,600 (3447)
Overall Height, Backhoe Folded, ft. (mm)	8.8 (2725)
Overall Length, Backhoe Folded, ft. (mm)	20.7 (6599)

*Theoretical, excludes steering pump horsepower and wet PTO clutch

See dealer for available options and accessories.

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NOTHING RUNS LIKE A DEERE®