

L O A D E R

244H





Planetary final drives are mounted inboard. Larger, more durable components can be used in their design and manufacture, since gear size isn't limited by wheel hub diameter. The final drives evenly

distribute shock loads over three gears, and run in a cooling oil bath for long life and trouble-free service. The rear axle oscillates 22 degrees to give you a firm footing when going over rough terrain.



One low-effort lever controls all loader functions, with a direct position for boom float and another for the return-to-dig function. The auxiliary lever located behind the main lever is included for adding hydraulic attachments.



The electronic dash monitor keeps tabs on vital machine functions, with warnings you can both hear and see.

The isolation-mounted cab includes a 16,000-lb/hr. (4.7 AER) heater, slip-resistant steps, and ergonomically located handholds.

The 244H's Z-bar linkage design gives you higher breakout force, faster dump cycles, and better retention of material in the bucket.





Visibility on the 244N is second to none. You'll be amazed that a loader this compact can give you such a clear, unobstructed view to the bucket, to either side, or out the back.



The hydrostatic drive is coupled with a two-speed power shift transmission. One convenient lever, to the left of the steering wheel, lets you easily change direction and shift gears.

Hydrostatic drive provides infinitely variable speed control, while maintaining the engine rpm needed for peak hydraulic response from attachments such as brooms and sweepers.

High-torque steering cylinder geometry allows full power steering at all speeds through the entire 90-degree steering arc. Dynamic braking brings the 244N to a full stop as soon as the operator's foot is taken off the accelerator.



Service is easy on the 244N. The sight glass (above) provides a quick check of the hydraulic fluid level.

Headlights and turn signals are well placed, and well protected by heavy-duty sheet metal cowls. Halogen lamps keep you productive working at night or indoors.



This full-width, fill-up hood gives you easy access to the engine compartment for daily servicing. Grease fittings are easy to get to.

Remove the front shield (above) to reach the main hydraulic hose bundle. The wide-open articulation area (top photo) gives you easy access to steering cylinder and other components.



| ENGINE | |
|---------------------------|---|
| Type | 3048 Isuamar 4TN1298 - Naturally Aspirated Direct Injection Diesel, (meets EPA emissions regulations) |
| Rated power | 58 SAE gross hp (43 kW) 55 SAE net hp (41 kW) @ 2,200 rpm |
| Cylinders | 4 |
| Displacement | 202 cu. in. (3,318 L) |
| Maximum net torque | 166 lb.-ft. (225 Nm) @ 1,200 rpm |
| Lubrication | positive system with full-flow spin-on filter |
| Fuel consumption, typical | 1.0 to 2.0 gal./hr. (3.8 to 7.6 L/hr) |
| Cooling fan | blower |
| Electrical system | 24 volt with 35-amp alternator |
| Batteries (two 12 volt) | reserve capacity: 312 min., 520 CCA |
| Air cleaner | dual safety element dry type; restriction indicator for service |

| TRANSMISSION | |
|---------------------|--|
| Type | Hydrostatic (HST) with infinitely-variable speed control; two-speed power-shift transmission coupled with the HST to provide full range of operating speeds and direction reversal |
| Controls | low-effort electric shift, single lever for direction and speed changes; HST inching pedal |
| Travel speeds | Forward and Reverse |
| Gear 1 | 4.0 mph (6.6 km/hr) |
| Gear 2 | 30.0 mph (48.2 km/hr) |

| AXLES/HAWS | |
|---|--|
| Final drives | heavy-duty planetary, mounted inboard |
| Differentials | conventional front and rear |
| Rear axle oscillation | 32 degrees, stop to stop |
| Maximum rise and fall, single wheel | 11.2 in. (284 mm) |
| Brakes (conform to SAE J11471, ISO3450) | |
| Service brakes | inboard-mounted hydraulic wet disc, bathed in cooling oil, long life self-adjusting |
| Parking brake | automatically spring applied, hydraulically released, disc and caliper type, attached to transmission output shaft |

| HYDRAULIC SYSTEM/STEERING | |
|--|--|
| Pump (loader and steering) | gear-type, open-center system |
| Maximum flow | 21.2 gpm (80 L/min.) @ 2,990 psi (20 615 kPa) and @ 2,200 engine rpm |
| Pressure | loader relief 2,990 psi (20 615 kPa) steering relief 1,990 psi (13 720 kPa) |
| Loader controls | two-function valve with single lever and control lever lockout optional three-function valve with auxiliary lever |
| Hydraulic cycle times | |
| Raise | 4.3 sec. |
| Dump | 0.8 sec. |
| Lower | 3.8 sec. (float down) / 2.9 sec. (power down) |
| Maximum lift capacity | with 1.8 cu. yd. (1.0 m ³) light-material bucket |
| Lift at ground level | 9,580 lb. (4336 kg) |
| Lift at maximum height | 4,409 lb. (2000 kg) |
| Steering (conforms to SAE J1551) | |
| Type | power, fully hydraulic |
| Relief valve setting | 1,990 psi (13 720 kPa) |
| Articulation angle | 80-degree arc (40 degrees each direction) |
| Turning radius (measured to center-line of outside tire) | 12 ft. 3 in. (3.79 m) |

| TIRES | |
|----------------|-----------------------|
| Standard | 17.5R25-20, 70 PR 1.2 |
| Tread width | 58 in. (1470 mm) |
| Width over fms | 76 in. (1930 mm) |

| CAPACITIES (U.S.) | |
|---|---------------------|
| Fuel tank with ground level fueling | 38.5 gal. (145.9 L) |
| Cooling system | 11.5 qt. (10.9 L) |
| Engine lubrication, including full-flow spin-on filter | 12.2 qt. (11.5 L) |
| Power shift transmission, including vertical cartridge filter | 30.6 qt. (29.0 L) |
| Front or rear differential (each) | 33.0 qt. (31.3 L) |
| Loader-hydrostatic reservoir | 79.5 gal. (73.5 L) |
| Brake oil reservoir | 6.3 qt. (6.0 L) |

ENGINE**7040**

| | |
|---------------------------|---|
| Type | Isuzu 475DE8 - Naturally Aspirated Direct Injection Diesel. (meets EPA emissions regulations) |
| Rated power | 58 SAE gross hp (43 kW) 55 SAE net hp (41 kW) @ 2,200 rpm |
| Cylinders | 4 |
| Displacement | 292 cu. in. (3,118 L) |
| Maximum net torque | 166 lb.-ft. (225 Nm) @ 1,800 rpm |
| Lubrication | pressure system with full-flow spin-on filter |
| Fuel consumption, typical | 1.8 to 2.0 gal./hr. (3.8 to 7.6 L/hr) |
| Cooling fan | blower |
| Electrical system | 24 volt with 15-amp alternator |
| Batteries (no. 12 volt) | reserve capacity: 332 min., 520 CCA |
| Air cleaner | dual safety element dry type; restriction indicator for service |

TRANSMISSION

| | |
|---------------|--|
| Type | hydrostatic (HST) with infinitely-variable speed control; two-speed power-shift transmission coupled with the HST to provide full range of operating speeds and direction reversal |
| Controls | low-effort electric shift, single lever for direction and speed change; HST inching pedal |
| Travel speeds | Forward and Reverse |
| Gear 1 | 6.0 mph (9.6 km/hr) |
| Gear 2 | 20.0 mph (32.2 km/hr) |

AXLES/BRAKES

| | |
|---|--|
| Rinal drives | heavy-duty planetary, mounted inboard |
| Differentials | conventional front and rear |
| Rear axle oscillation | 22 degrees, stop to stop |
| Maximum rise and fall, single wheel | 11.2 in. (284 mm) |
| Brakes (conform to SAE J1478, ISO14850) | |
| Service brakes | inboard-mounted hydraulic wet disc, bathed in cooling oil, long life self-adjusting |
| Parking brake | automatically spring applied, hydraulically released, disc and caliper type, attached to transmission output shaft |

HYDRAULIC SYSTEM/STEERING

| | |
|--|--|
| Pump (loader and steering) | gear-type, open-center system |
| Maximum flow | 21.2 gpm (80 L/min.) @ 2,990 psi (20 615 kPa) and @ 2,200 engine rpm |
| Pressure | loader relief 2,990 psi (20 615 kPa) steering relief 1,890 psi (13 720 kPa) |
| Loader controls | two-function valve with single lever and control lever lockout optional three-function valve with auxiliary lever |
| Hydraulic cycle times | |
| Raise | 4.3 sec. |
| Dump | 0.8 sec. |
| Lower | 3.8 sec. (float down) / 2.9 sec. (power down) |
| Maximum lift capacity | with 1.3 cu. yd. (1.0 m ³) light-material bucket |
| Lift at ground level | 2,560 lb. (4535 kg) |
| Lift at maximum height | 4,400 lb. (2000 kg) |
| Steering (conforms to SAE J1511) | |
| Type | power, fully hydraulic |
| Relief valve setting | 1,990 psi (13 720 kPa) |
| Articulation angle | 80-degree arc (40-degree each direction) |
| Turning radius (measured to center-line of outside tire) | 12 ft. 5 in. (3.79 m) |

TIRES

| | |
|------------------|---------------------|
| Standard | 17-545-20, 10 PR 12 |
| Tread width | 58 in. (1470 mm) |
| Width over tires | 76 in. (1930 mm) |

CAPACITIES (U.S.)

| | |
|---|---------------------|
| Fuel tank with ground level fueling | 38.5 gal. (146.0 L) |
| Cooling system | 11.5 qt. (10.9 L) |
| Engine lubrication, including full-flow spin-on filter | 12.2 qt. (11.5 L) |
| Power shift transmission, including vertical cartridge filter | 33.6 qt. (30.0 L) |
| Front or rear differential (each) | 9.0 qt. (8.5 L) |
| Loader-hydraulic reservoir | 79.3 gal. (73.0 L) |
| Brake oil reservoir | 6.1 qt. (5.7 L) |

