HYDROSTATIC DRIVE
Delivers smooth constant power with infinitely variable speeds from 0 to 4.8 mph (0 to 7.7 km/h).

HAND CONTROL LEVERS
Two levers provide full control of power, speed, direction, plus all loader functions.

16 (11.9 kW) NET HORSEPOWER
Onan two cylinder 43.3 in³ (710 cm³) air-cooled gas engine.

830 LBS (377 kg) BREAKOUT FORCE
Plenty of hydraulic power to pry out tough materials; fill bucket quickly.

Unit shown is equipped with non-standard items.

J I Case
A Tenneco Company
700 State Street  Racine, WI 53404  U.S.A.
1816C UNI-LOADER SPECIFICATIONS

ENGINE
Make and model ............................................. Onan, B43M - GA016/3902A
Maximum rated horsepower .................................. 16 @ 3600 rpm
(11.9 kW @ 3600 r/min)
Bore and stroke .............................................. 3.25" x 2.625"
(83mm x 67mm)
Displacement .................................................. 43.3 in³ (710 cm³)
Number of cylinders ......................................... Two
Cooling ............................................................ Air
Type of fuel ..................................................... Unleaded gasoline
Fuel supply ..................................................... Electric fuel pump and carburetor
Air cleaner ..................................................... Dry type, replaceable cartridge
Oil filter .......................................................... Full flow, replaceable spin-on cartridge
Lubrication ...................................................... Positive pressure

(1) Per SAE J607 definition.

ELECTRICAL
System voltage .................................................. 12 volts, negative ground
Battery ........................................................... 20 amp, fly wheel type
Alternator .......................................................... Battery ignition with points
Ignition ............................................................ Battery ignition with points

POWER TRAIN
Type ............................................................ Hydrostatic with chain drive to wheels
Transmission ................................................... Two variable displacement pumps and two fixed displacement motors
Brakes parking (optional) ..................................... Mechanical parking brake locks both front drive sprockets

STEERING
Type ............................................................. Independent — 360° counter-rotation, Steering, braking, forward and reverse movement controlled by operation of two hand levers

HYDRAULIC SYSTEM
Main relief setting ............................................. 1150 ± 50 psi @ 3600 rpm
(7929 ± 345 kPa @ 3600 r/min)
Lift cylinders (2) .............................................. 2" dia x 27" stroke, 1" rod
(51 mm dia x 686 mm stroke, 25 mm rod)
Tilt cylinders (2) ............................................... 2" dia x 13.1" stroke, 1" rod
(51 mm dia x 333 mm stroke, 25 mm rod)
Pump capacity .................................................. 8 gpm @ 3600 rpm @ 1100 psi
(30.3 L/min @ 3600 r/min @ 7584 kPa)

LOADING OPERATIONAL DATA
Tipping Load —
SAE rated ...................................................... 1035 lbs (469 kg)
Rated lift capacity
Manufacturer’s rating ...................................... 700 lbs (318 kg)
Raising time with rated load in bucket ...................... 5.4 sec
Lowering time, bucket empty ................................ 3.7 sec
Rollback time from full dump to full rollback .............. 2 sec
Breakout force
Lift cylinders ................................................... 1050 lbs (476 kg)
Tilt cylinders .................................................. 830 lbs (377 kg)

SERVICE CAPACITIES
Fuel tank .......................................................... 8.5 gal 32.2 U.S. Lites
Engine oil w/filter ............................................. 2.3 qt 2.18
w/o filter ...................................................... 1.75 qt 1.66
Hydraulic reservoir w/filter ................................... 15 qt 14.2
w/o filter ...................................................... 14 qt 13.2

WEIGHTS
Shipping weight: Includes 2 gal. (7.6 litres) fuel, no operator, no bucket, with 5.90 x 15 tires, ROPS and standard equipment: 1740 lbs (789 kg).
Operating weight: Includes full fuel, 175 lbs (79 kg) operator, 35" (889 mm) bucket, 5.90 x 15 tires, ROPS and standard equipment: 2065 lbs (937 kg).

STANDARD EQUIPMENT
700 lbs (318 kg) loader lift capacity rating, with two double acting lift cylinders, less attachments, with controls and hydraulics • 16 horse-
power (11.9 kW) Onan gasoline engine with electric fuel pump and battery ignition system • Key switch type starting • Enclosed flywheel alternator • 12 volt battery • Industrial dry-type air cleaner • Muffler • 8.0 gpm (30.3 L/min) hydraulic pump • Hydraulic oil filter with condition indicator and replaceable element • Ammeter • Hourmeter • Hand throttle • Hand choke • Hydrostatic transmission with chain drive to all wheels • Independent steering controls • Mechanical transmission disconnect • Operator’s compartment heat shield • Seat belt • ROPS • Engine oil filter with replaceable element • Engine low oil pressure warning buzzer • Non-directional lug tires

NOTE: Specifications taken with full fuel, 175 lbs (79 kg) operator, 35" (889 mm) dirt bucket, 5.90 x 15 APR tires, ROPS and standard equipment, unless otherwise specified.
### Bucket Type Capacities

| Bucket Type   | Width (in) | Width (mm) | Struck Capacities | SAE Heaped Capacities | Weight (lbs) | Weight (kg) | Dump Height (in) | Dump Height (mm) | Dump Reach (in) | Dump Reach (mm) | Dump Angle (deg) | Overall Length (in) | Overall Length (mm) |
|---------------|------------|------------|-------------------|-----------------------|--------------|-------------|------------------|------------------|----------------|----------------|----------------|------------------|---------------------|---------------------|
| Dirt          | 35         | 899        | 0.11              | 4.93                  | 0.14         | 115         | 74.5             | 1920             | 23             | 584            | 38°               | 91.5               | 2324                 |
| Dirt          | 44         | 1118       | 0.14              | 6.34                  | 0.18         | 130         | 74.5             | 1920             | 23             | 584            | 38°               | 91.5               | 2324                 |
| Light Material| 48         | 1219       | 0.25              | 11.35                 | 0.32         | 172         | 69.5             | 1765             | 29             | 737            | 38°               | 99.5               | 2527                 |

### MANURE FORK

- Number of tines: 1
- Width between each tine: 5.5" (140 mm)
- Overall width of tines: 34.5" (876 mm)
- Overall width of attachment: 35.5" (902 mm)
- Length of tine: 19.75" (502 mm)
- Hydraulic grapple available for manure fork.

### PALLET FORK

- Maximum width of forks: 29" (737 mm)
- Minimum width of forks: 7.5" (191 mm)
- Length of fork: 30" (762 mm)
- Overall width of attachment: 34" (864 mm)
OPTIONAL EQUIPMENT (on basic machine)
5.70 x 15, 4PR Chevron tread tires • 27 x 8.50 x 15, 4PR Terra extra traction tread tires • 27 x 8.50 x 15, 4PR Lug type tires • Mechanical parking brake • Rear counterweights • Auxiliary hydraulics

OPTIONAL EQUIPMENT (attachments)
35" (889 mm), 44" (1118 mm) and 48" (1219 mm) buckets • Pallet fork • Manure fork • Manure fork grapple • Tool tach for front mounted equipment

NOTE: All specifications are stated in accordance with ICED definitions or SAE standards or recommended practices, where applicable.

Important:
J I Case Company reserves the right to change these specifications without notice and without incurring any obligation relating to such changes.

Sold and serviced by: