

# 9010B Excavator



## ENGINE

Model..... Case 4TA-390  
Type ..... 4-stroke, turbocharged  
and aftercooled  
Cylinders..... 4  
Bore / Stroke ..... 4.02" x 4.72"  
(102 x 120 mm)  
Displacement ..... 239 in<sup>3</sup> (3.9 L)  
Fuel injection..... Direct  
Fuel..... Diesel  
Fuel filter..... In-line strainer  
Air intake ..... Cross-flow  
Cooling ..... Liquid  
Horsepower per SAE J1349  
Net .... 106 hp (79 kW) @ 2200 rpm  
Maximum torque @ 1600 rpm  
Net ..... 290 lb·ft (393 N·m)

## BOOM/ARM

### Boom

Length..... 15'5" (4.7 m)  
Boom w/arm cylinder  
& plumbing .... 2,202 lb (1001 kg)  
Hoist cylinders.. 255 lb (116 kg) ea  
Total boom ..... 2,712 lb (1230 kg)

### 9'10" Arm (3.0 m)

Length..... 9'10" (3.0 m)  
Bare arm ..... 924 lb (420 kg)  
Bucket cylinder linkage  
& plumbing ..... 469 lb (213 kg)  
Total arm weight.. 1,393 lb (633 kg)

### 8'2" Arm (2.5 m)

Length..... 8'2" (2.5 m)  
Bare arm ..... 768 lb (349 kg)  
Bucket cylinder linkage  
& plumbing ..... 469 lb (213 kg)  
Total arm weight.. 1,237 lb (561 kg)

## UNDERCARRIAGE

Number of top rollers  
Top, each track..... 2  
Bottom, each track..... 6  
Number of shoes  
Triple grouser – each track ..... 44  
Link pitch ..... 6.75" (171 mm)

## HYDRAULICS

Pumps (2)..... Variable displacement  
axial-piston design

### Capacity –

Maximum..... 2 x 32 gpm  
(121 L/min)  
Minimum ..... 2 x 20 gpm  
(76 L/min)

### System relief pressure –

Standard ..... 4550 psi  
(31 400 kPa)  
Power Boost..... 4975 psi  
(34 300 kPa)

### Control valves –

4-spool section for right track  
travel, auxiliary, swing and arm  
3-spool section for left track  
travel, boom and bucket  
Boom holding valve

### Pilot control hydraulic system –

Pump (1)..... Gear design  
Maximum capacity ..... 5.3 gpm  
(20 L/min)  
Relief pressure... 566 psi (3900 kPa)

### Swing –

Motor (1) ..... Fixed displacement  
axial-piston design  
Speed..... 0-13.4 rpm  
Brake..... Spring-applied  
mechanical disc  
Tail swing radius ..... 6'9" (2.05 m)

### Travel –

Motor (2)..... Three-speed  
axial-piston design  
Final drive..... Planetary gear  
reduction  
Drawbar pull..... 22,260 lb (99 kN)

### Travel Speeds –

Forward / Reverse  
Low ..... 1.4 mph (2.2 km/h)  
Medium..... 2.4 mph (3.8 km/h)  
High..... 3.4 mph (5.5 km/h)

### Travel control valve –

Dual stage relief and counter-  
balance design with disc-type brakes

## HYDRAULIC CYLINDERS

### Boom cylinders (2) –

Bore diameter..... 3.9" (100 mm)  
Rod diameter ..... 3.0" (75 mm)  
Stroke..... 42.6" (1.08 m)

### Arm cylinder (1) –

Bore diameter..... 4.5" (115 mm)  
Rod diameter ..... 3.1" (80 mm)  
Stroke..... 47.4" (1.2 m)

### Bucket cylinder (1) –

Bore diameter..... 3.7" (95 mm)  
Rod diameter ..... 2.8" (70 mm)  
Stroke ..... 36.4" (924 mm)

## ELECTRICAL

Voltage ..... 24 volts,  
negative ground

Alternator..... 45 amp

Batteries (2) ..... Low-maintenance  
120 Ah (20 hr rate)

## SERVICE CAPACITIES

### Hydraulic tank

Refill capacity..... 19.3 gal (73 L)  
Total system ..... 32.8 gal (124 L)

Final drive (per side)..... 3.2 qt (3 L)

Swing drive..... 2.3 qt (2.2 L)

### Engine

w/filter change ..... 11 qt (10.4 L)

Fuel..... 63.4 gal (240 L)

Radiator..... 16.6 qt (15.7 L)

## OPERATING WEIGHT

With 8'2" (2.5 m) arm, 23.6"  
(600 mm) track shoes, 902 lb  
(410 kg) bucket, 175 lb (79 kg)  
operator, full fuel and standard  
equipment ..... 28,000 lb (12 700 kg)

# LIFT CAPACITIES

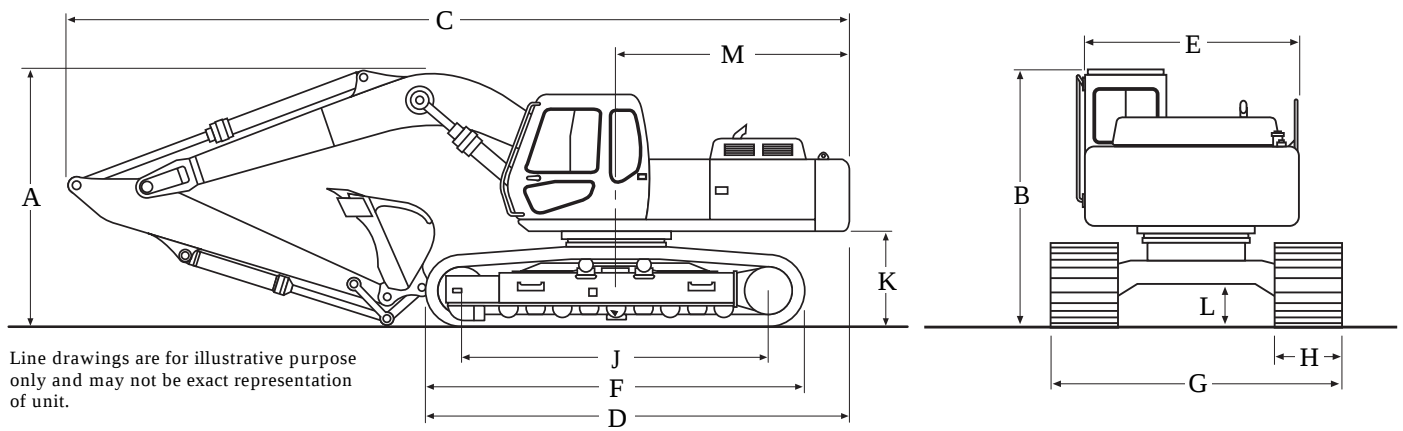
**9'10" (3.0 m) Arm** *Lift capacities are calculated using a 759 lb (345 kg) bucket and 5,578 lb (2535 kg) counterweight in "Fine" Mode*

| Load<br>(Lift<br>Point)<br>Height | 5'<br>(1.52 m)            |                           | 10'<br>(3.05 m)         |                         | 15'<br>(4.57 m)        |                        | 20'<br>(6.1 m)         |                       | 25'<br>(7.62 m)       |                       | MAXIMUM REACH |                        |                        |
|-----------------------------------|---------------------------|---------------------------|-------------------------|-------------------------|------------------------|------------------------|------------------------|-----------------------|-----------------------|-----------------------|---------------|------------------------|------------------------|
|                                   | END                       | SIDE                      | END                     | SIDE                    | END                    | SIDE                   | END                    | SIDE                  | END                   | SIDE                  | @             | END                    | SIDE                   |
| +20'<br>(6.1 m)                   |                           |                           |                         |                         |                        |                        | 4,150 lb<br>(1886 kg)  | 4,150 lb<br>(1886 kg) |                       |                       | 23'10"        | 3,050 lb*<br>(1383 kg) | 3,050 lb*<br>(1383 kg) |
| +15'<br>(4.57 m)                  |                           |                           |                         |                         | 4,950 lb*<br>(2245 kg) | 4,950 lb*<br>(2245 kg) | 5,350 lb*<br>(2427 kg) | 4,600 lb<br>(2087 kg) |                       |                       | 26'5"         | 2,900 lb*<br>(1315 kg) | 2,700 lb<br>(1225 kg)  |
| +10'<br>(3.05)                    |                           |                           | 7,850 lb*<br>(3561 kg)  | 7,850 lb*<br>(3561 kg)  | 6,600 lb*<br>(2994 kg) | 6,600 lb<br>(2994 kg)  | 6,000 lb<br>(2722 kg)  | 4,400 lb<br>(1996 kg) | 4,100 lb<br>(1860 kg) | 2,900 lb<br>(1315 kg) | 27'9"         | 2,900 lb*<br>(1315 kg) | 2,400 lb<br>(1089 kg)  |
| +5'<br>(1.52 m)                   |                           |                           | 13,550 lb*<br>(6146 kg) | 12,600 lb*<br>(5715 kg) | 8,850 lb*<br>(4014 kg) | 6,600 lb<br>(2994 kg)  | 5,850 lb<br>(2654 kg)  | 4,150 lb<br>(1882 kg) | 4,000 lb<br>(1814 kg) | 2,800 lb<br>(1270 kg) | 28'0"         | 3,050 lb*<br>(1383 kg) | 2,250 lb<br>(1021 kg)  |
| Ground-line                       | 6,100 lb*<br>(2767 kg)    | 6,100 lb*<br>(2767 kg)    | 17,200 lb*<br>(7802 kg) | 11,300 lb<br>(5126 kg)  | 8,800 lb*<br>(3992 kg) | 6,100 lb<br>(2767 kg)  | 5,600 lb<br>(2540 kg)  | 3,900 lb<br>(1769 kg) | 3,900 lb<br>(1769 kg) | 2,700 lb<br>(1225 kg) | 27'2"         | 3,400 lb*<br>(1542 kg) | 2,350 lb<br>(1066 kg)  |
| -5'<br>(-1.52 m)                  | 9,900 lb*<br>(4491 kg)    | 9,900 lb*<br>(4491 kg)    | 17,100 lb<br>(7756 kg)  | 11,000 lb<br>(4990 kg)  | 8,500 lb<br>(3856 kg)  | 5,800 lb<br>(2631 kg)  | 5,400 lb<br>(2440 kg)  | 3,750 lb<br>(1701 kg) |                       |                       | 25'3"         | 3,800 lb<br>(1724 kg)  | 2,650 lb<br>(1202 kg)  |
| -10'<br>(-3.05 m)                 | 15,050 lb*<br>(6826 kg)   | 15,050 lb*<br>(6826 kg)   | 17,250 lb*<br>(7824 kg) | 11,100 lb<br>(5035 kg)  | 8,450 lb<br>(3833 kg)  | 5,800 lb<br>(2631 kg)  | 5,400 lb<br>(2449 kg)  | 3,750 lb<br>(1701 kg) |                       |                       | 21'10"        | 4,850 lb<br>(2200 kg)  | 3,400 lb<br>(1542 kg)  |
| -15'<br>(-4.57 m)                 | 23,950 lb*<br>(10 864 kg) | 23,950 lb*<br>(10 864 kg) | 15,100 lb*<br>(6849 kg) | 11,450 lb<br>(5194 kg)  | 8,700 lb<br>(3946 kg)  | 6,000 lb<br>(2722 kg)  |                        |                       |                       |                       |               |                        |                        |

**8'2" (2.5 m) Arm** *Lift capacities are calculated using a 896 lb (407 kg) bucket and 5,578 lb (2535 kg) counterweight in "Fine" Mode*

| Load<br>(Lift<br>Point)<br>Height | 5'<br>(1.52 m)          |                         | 10'<br>(3.05 m)         |                         | 15'<br>(4.57 m)        |                        | 20'<br>(6.1 m)         |                       |  |  | MAXIMUM REACH |                        |                        |
|-----------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|------------------------|------------------------|------------------------|-----------------------|--|--|---------------|------------------------|------------------------|
|                                   | END                     | SIDE                    | END                     | SIDE                    | END                    | SIDE                   | END                    | SIDE                  |  |  | @             | END                    | SIDE                   |
| +20'<br>(6.1 m)                   |                         |                         |                         |                         | 5,400 lb*<br>(2440 kg) | 5,400 lb*<br>(2440 kg) |                        |                       |  |  | 22'0"         | 3,050 lb*<br>(1383 kg) | 3,050 lb*<br>(1383 kg) |
| +15'<br>(4.57 m)                  |                         |                         |                         |                         | 5,900 lb*<br>(2676 kg) | 5,900 lb*<br>(2676 kg) | 6,000 lb*<br>(2722 kg) | 4,450 lb<br>(2020 kg) |  |  | 24'10"        | 2,900 lb*<br>(1315 kg) | 2,900 lb*<br>(1315 kg) |
| +10'<br>(3.05)                    | 13,450 lb*<br>(6101 kg) | 13,450 lb*<br>(6101 kg) | 9,800 lb*<br>(4445 kg)  | 9,800 lb*<br>(4445 kg)  | 7,500 lb*<br>(3402 kg) | 7,000 lb<br>(3175 kg)  | 6,000 lb<br>(2722 kg)  | 4,300 lb<br>(1950 kg) |  |  | 26'3"         | 2,900 lb*<br>(1315 kg) | 2,600 lb<br>(1179 kg)  |
| +5'<br>(1.52 m)                   |                         |                         | 15,300 lb*<br>(6940 kg) | 12,100 lb<br>(5488 kg)  | 9,200 lb*<br>(4173 kg) | 6,450 lb<br>(2925 kg)  | 5,750 lb<br>(2608 kg)  | 4,050 lb<br>(1837 kg) |  |  | 26'6"         | 3,050 lb*<br>(1383 kg) | 2,450 lb<br>(1111 kg)  |
| Ground-line                       | 5,850 lb*<br>(2654 kg)  | 5,850 lb*<br>(2654 kg)  | 17,250 lb*<br>(7824 kg) | 11,150 lb<br>(5058 kg)  | 8,700 lb<br>(3946 kg)  | 6,000 lb<br>(2722 kg)  | 5,500 lb<br>(2495 kg)  | 3,850 lb<br>(1746 kg) |  |  | 25'8"         | 3,400 lb*<br>(1542 kg) | 2,550 lb<br>(1157 kg)  |
| -5'<br>(-1.52 m)                  | 10,950 lb*<br>(4967 kg) | 10,950 lb*<br>(4967 kg) | 17,200 lb<br>(7802 kg)  | 11,100 lb<br>(5035 kg)  | 8,500 lb<br>(3856 kg)  | 5,800 lb<br>(2631 kg)  | 5,400 lb<br>(2449 kg)  | 3,750 lb<br>(1701 kg) |  |  | 23'7"         | 4,050 lb*<br>(1837 kg) | 2,950 lb<br>(1338 kg)  |
| -10'<br>(-3.05 m)                 | 17,450 lb*<br>(7915 kg) | 17,450 lb*<br>(7915 kg) | 17,200 lb*<br>(7802 kg) | 11,300 lb<br>(5126 kg)  | 8,500 lb<br>(3856 kg)  | 5,850 lb<br>(2654 kg)  | 5,450 lb<br>(2472 kg)  | 3,800 lb<br>(1724 kg) |  |  | 19'9"         | 5,450 lb*<br>(2472 kg) | 4,000 lb<br>(1814 kg)  |
| -15'<br>(-4.57 m)                 |                         |                         | 13,350 lb*<br>(6055 kg) | 11,750 lb*<br>(5330 kg) | 8,200 lb*<br>(3719 kg) | 6,150 lb<br>(2790 kg)  |                        |                       |  |  |               |                        |                        |

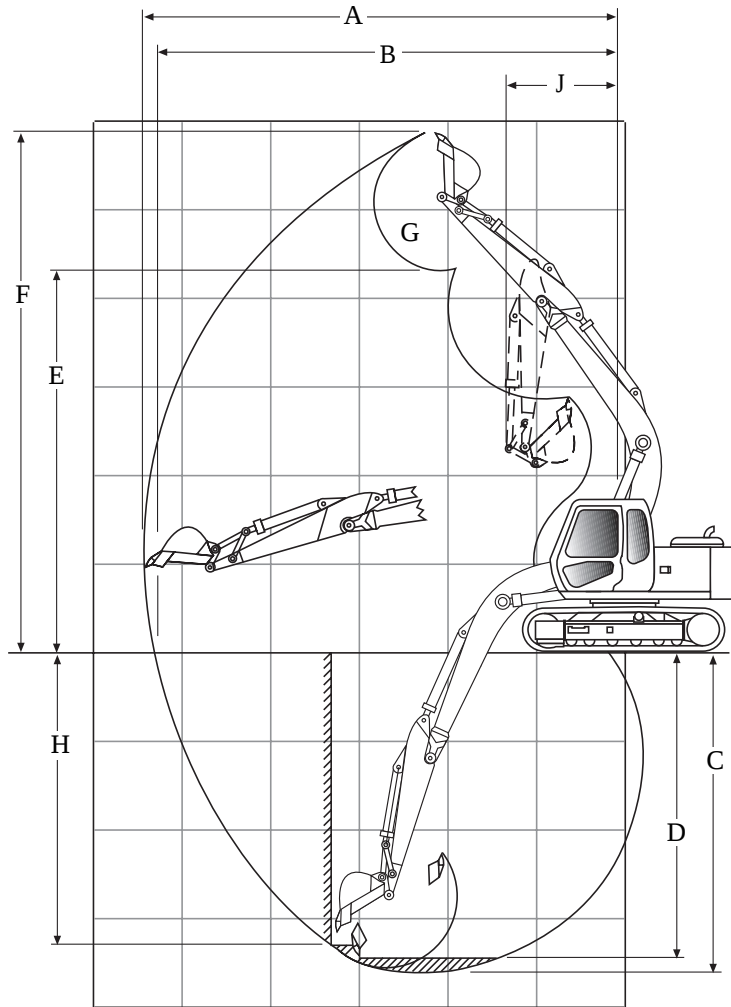
NOTE: \*Lift capacities do not exceed 75% of the minimum tipping load or 87% of the hydraulic lift capacity.  
Capacities that are marked with an asterisk are hydraulic limited.



## DIMENSIONS

|                                                      | 9'10" (3.0 m) Arm     | 8'2" (2.5 m) Arm      |
|------------------------------------------------------|-----------------------|-----------------------|
| <b>A.</b> Overall height                             | 9'1" (2.77 m)         | 9'1" (2.77 m)         |
| <b>B.</b> Cab height                                 | 9'1" (2.77 m)         | 9'1" (2.77 m)         |
| <b>C.</b> Overall length                             | 25'0" (7.63 m)        | 24'11" (7.6 m)        |
| <b>D.</b> w/o attachment                             | 12'7" (3.83 m)        | 12'7" (3.83 m)        |
| <b>E.</b> Width of upperstructure                    | 7'11" (2.41 m)        | 7'11" (2.41 m)        |
| <b>F.</b> Track overall length                       | 11'8" (3.55 m)        | 11'8" (3.55 m)        |
| <b>G.</b> Track overall width w/23.6" (600 mm) shoes | 8'6" (2.59 m)         | 8'6" (2.59 m)         |
| <b>H.</b> Track shoe width                           | 23.6" (600 mm)        | 23.6" (600 mm)        |
| <b>J.</b> Center to center (idler to sprocket)       | 9'1" (2.78 m)         | 9'1" (2.78 m)         |
| <b>K.</b> Upperstructure ground clearance            | 2'11" (0.89 m)        | 2'11" (0.89 m)        |
| <b>L.</b> Minimum ground clearance                   | 1'5" (440 mm)         | 1'5" (440 mm)         |
| <b>M.</b> Tail swing radius                          | 6'9" (2.05 m)         | 6'9" (2.05 m)         |
| Working weight*                                      | 28,157 lb (12 772 kg) | 28,000 lb (12 700 kg) |
| Ground pressure                                      | 4.9 psi (34 kPa)      | 4.9 psi (34 kPa)      |

\*With 23.6" (600 mm) track shoe, 902 lb (410 kg) bucket, 175 lb (79 kg) operator, full fuel and standard equipment.



## PERFORMANCE SPECS

|                                                  | 9'10" (3.0 m) Arm   | 8'2" (2.5 m) Arm    |
|--------------------------------------------------|---------------------|---------------------|
| <b>A.</b> Maximum dig radius                     | 28'10" (8.79 m)     | 27'4" (8.34 m)      |
| <b>B.</b> Dig radius at groundline               | 28'5" (8.66 m)      | 26'11" (8.2 m)      |
| <b>C.</b> Maximum dig depth                      | 19'10" (6.05 m)     | 18'3" (5.55 m)      |
| <b>D.</b> Dig depth – 8'0" (2.44 m) level bottom | 19'3" (5.87 m)      | 17'6" (5.34 m)      |
| <b>E.</b> Dump height                            | 23'0" (7.02 m)      | 22'0" (6.7 m)       |
| <b>F.</b> Overall reach height                   | 30'10" (9.41 m)     | 29'10" (9.09 m)     |
| <b>G.</b> Bucket rotation                        | 182°                | 182°                |
| <b>H.</b> Vertical straight wall dig depth       | 17'10" (5.44 m)     | 16'4" (4.98 m)      |
| <b>J.</b> Minimum swing radius                   | 7'11" (2.41 m)      | 6'9" (2.05 m)       |
| Arm digging force                                |                     |                     |
| Standard                                         | 12,130 lb (54 kN)   | 13,450 lb (59.8 kN) |
| Power Boost                                      | 13,230 lb (58.8 kN) | 14,550 lb (64.7 kN) |
| Bucket digging force                             |                     |                     |
| Standard                                         | 17,420 lb (77.5 kN) | 17,420 lb (77.5 kN) |
| Power Boost                                      | 19,180 lb (85.3 kN) | 19,180 lb (85.3 kN) |

## STANDARD EQUIPMENT

### OPERATOR'S COMPARTMENT

Cab with Isomount® system  
Adjustable deluxe seat with  
3" (76 mm) retractable seat belt  
Oscillating fan  
Vandal cover  
Front window safety glass  
Heater: 13,500 BTU  
AM / FM Radio  
Roof hatch, skylight  
Sliding Lexan™ windows  
Windshield wiper w / washer

### ENGINE

Case 4TA-390 turbocharged diesel  
Federal emission certified  
Ether cold start  
Warm up mode  
Selectable one touch or auto  
accelerator/decelerator

### ELECTRICAL

Batteries (2)  
Electronic Systems Monitor

### HYDRAULICS

ISO pattern pilot controls  
4 Position mode selector:  
H, S, L & F  
Power boost  
2 Variable flow piston pumps  
Auxiliary attachment mode  
Auto pump destroke  
Auxiliary hydraulic valve  
Boom holding valve  
Selectable cushion control  
for boom and arm  
Controlled free swing  
Ultra clean filtration system

### UNDERCARRIAGE

Shoes: 23.6" (600 mm) 3-bar,  
44 per side  
Track length: 11'8" (3.55 m)  
Track gauge: 6'6" (1.98 m)

### TRACK DRIVE

3 speed hydrostatic travel  
Disc type parking brakes

### UPPERSTRUCTURE

Boom: 15'5" (4.7 m) one piece  
Free swing control  
Hammer adaptable, no reinforcing  
required  
Swing brake

### OTHER

Counterweight: 5,578 lb (2535 kg)  
Single key vandal lockup

## OPTIONAL EQUIPMENT

### OPERATOR'S COMPARTMENT

Air conditioner (includes  
16,700 BTU heater)

### UPPERSTRUCTURE

Arm: 9'10" or 8'2"  
(3.0 m or 2.5 m)

### HYDRAULICS

Auxiliary hydraulics  
Single acting, one pump  
Double acting, single or dual pump  
(includes heavy duty bucket  
linkage)  
Double acting general purpose  
for use with thumb kit

### OTHER

8'6" (2.59 m) wide dozer blade  
Load holding control devices  
Cylinder mounted  
Case / JRB Slide-Loc® Coupler  
Hydraulic or mechanical

### BUCKETS

#### Application

#### Width

#### SAE Heaped Capacity

|                       |                                         |                                                                                                 |
|-----------------------|-----------------------------------------|-------------------------------------------------------------------------------------------------|
| General Purpose ..... | 24" thru 42" (0.61 m thru 1.07 m) ..... | 0.50 yd <sup>3</sup> thru 0.92 yd <sup>3</sup> (10.38 m <sup>3</sup> thru 0.70 m <sup>3</sup> ) |
| Heavy-duty .....      | 24" thru 36" (0.61 m thru 0.91 m) ..... | 0.50 yd <sup>3</sup> thru 0.78 yd <sup>3</sup> (0.38 m <sup>3</sup> thru 0.60 m <sup>3</sup> )  |
| Ditch.....            | 48" or 60" (.22 m or 1.52 m) .....      | 0.67 yd <sup>3</sup> thru 0.90 yd <sup>3</sup> (0.51 m <sup>3</sup> thru 0.69 m <sup>3</sup> )  |

NOTE: All specifications are stated in accordance with SAE Standards or Recommended Practices, where applicable.

Form No. - CE 228-07-99  
Replaces Form No. - None



IMPORTANT: Case Corporation reserves the right to change these specifications without notice and without incurring any obligation relating to such change. Case Corporation does not warrant the safety or reliability of attachments from other manufacturers.

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