

## 790D EXCAVATOR SPECIFICATIONS

Specifications and design subject to change without notice. Wherever applicable, specifications are in accordance with PCSA and SAE Standards. Except where otherwise noted, these specifications are based on a unit with long undercarriage, 31-in. (800 mm) triple grouser shoes, counterweight, 11 ft. 10 in. (3.61 m) arm, 1-3/8 cu. yd. (1.0 m³) 51-in. (1295 mm) bucket, full fuel tank, 175-lb. (80 kg) operator.

| Rated Power @ 2100 rpm: | SAE             | DIN 6270B |
|-------------------------|-----------------|-----------|
| Net                     | 155 hp (116 kW) | 116 kW    |
| Gross                   | 165 hp (123 kW) |           |

Net engine power is with standard equipment including air cleaner, exhaust system, alternator, and cooling fan, at standard conditions per SAE J1349 and DIN 6270B using No. 2-D fuel @ 35 API gravity. No derating is required up to 10,000 ft. (3050 m) altitude. Gross power is without cooling fan.

### Engine: John Deere 6466A

|                               |                                              |
|-------------------------------|----------------------------------------------|
| Type                          | Four-cycle, turbocharged, aftercooled diesel |
| Bore and stroke               | 4.56 x 4.75 in. (116 x 121 mm)               |
| No. of cylinders              | 6                                            |
| Displacement                  | 466 cu. in. (7.638 L)                        |
| Maximum net torque @ 1300 rpm | 510 lb-ft (692 Nm) (71 kg-m)                 |
| Cooling fan                   | Suction                                      |
| Compression ratio             | 14.9 to 1                                    |
| Lubrication                   | Pressure system w/full-flow filter           |
| Electrical system             | 24 volt                                      |
| Batteries (2) 12 volt         | Reserve capacity: 300 minutes                |

### Hydraulic System: Open Center

Two variable-displacement axial-piston pumps and two control valves (5- and 4-spool) provide independent and combined operation of all functions. The 5-spool control valve has one spool for an auxiliary attachment function.

|                                                |                                      |
|------------------------------------------------|--------------------------------------|
| Main pumps                                     | 2 variable-displacement axial-piston |
| Pressure setting                               | 4620 psi (31 860 kPa) (325 kg/cm²)   |
| Max. oil flow                                  | 2 x 62.4 gpm (2 x 236 L/min)         |
| Pilot pump                                     |                                      |
| Pressure setting                               | 570 psi (3930 kPa) (40 kg/cm²)       |
| Max. oil flow                                  | 9.5 gpm (35 L/min)                   |
| Operating pressure:                            |                                      |
| System relief valves                           |                                      |
| Travel                                         | 4980 psi (34 425 kPa) (350 kg/cm²)   |
| Front end                                      | 4050 psi (27 930 kPa) (285 kg/cm²)   |
| Circuit relief valves:                         |                                      |
| Boom                                           | 4270 psi (29 440 kPa) (300 kg/cm²)   |
| Arm                                            | 4270 psi (29 440 kPa) (300 kg/cm²)   |
| Bucket                                         | 4270 psi (29 440 kPa) (300 kg/cm²)   |
| Cross-over relief valves:                      |                                      |
| Travel                                         | 5050 psi (34 810 kPa) (355 kg/cm²)   |
| Swing                                          | 3700 psi (25 500 kPa) (260 kg/cm²)   |
| Oil filtration:                                |                                      |
| One suction                                    |                                      |
| One 10-micron full-flow return filter w/bypass |                                      |

| Cylinders: | Bore                | Rod Diameter        | Stroke                |
|------------|---------------------|---------------------|-----------------------|
| Boom (2)   | 5.3 in.<br>(135 mm) | 3.5 in.<br>(90 mm)  | 53.1 in.<br>(1350 mm) |
| Arm        | 5.7 in.<br>(145 mm) | 3.9 in.<br>(100 mm) | 66.1 in.<br>(1680 mm) |
| Bucket (1) | 5.3 in.<br>(135 mm) | 3.5 in.<br>(90 mm)  | 42.3 in.<br>(1075 mm) |

Boom and bucket cylinders have built-in hydraulic cushions on the extension side only. The arm cylinder has a built-in hydraulic cushion at each end of the stroke. All cylinder rods are ground, heat-treated, chrome plated and polished.

### Swing Mechanism:

|                   |                                                                                                                           |
|-------------------|---------------------------------------------------------------------------------------------------------------------------|
| Swing speed       | 0-12 rpm                                                                                                                  |
| Swing brake       | Automatic, hydraulic lock                                                                                                 |
| Turntable bearing | Single-row, shear-type ball bearing with induction-hardened, lubricated internal gear and pinion. 500-hour lube interval. |

### Undercarriage: (Standard and Optional Long)

Propel motors (one for each track) . . . . . Axial-piston, hydraulic motors with planetary drives. Multiple-disk brakes automatically release while propelling and apply when stationary. Independent drive to each track permits counterrotation. Excavator track-type undercarriage with heavy-duty frame and all-welded and stress-relieved structure. Side frames welded to track frame. Permanently lubricated track rollers and idlers with metal face seals.

### Tracks:

|                  |                                                |
|------------------|------------------------------------------------|
| Track chain      | Sealed                                         |
| Track adjustment | Hydraulic, with shock-absorbing recoil springs |

### Track Rollers and Shoes (each side):

|                             |                                                                                                        |
|-----------------------------|--------------------------------------------------------------------------------------------------------|
| Standard undercarriage      | Two upper rollers, eight lower rollers, 47 track shoes.                                                |
| Optional long undercarriage | Two upper rollers, nine lower rollers, 51 track shoes.                                                 |
| Track shoes                 | Induction-hardened rolled alloy. Heat-treated connecting pins. A single lower track guide is provided. |

| Track Shoes:                | Average Ground Contact | Average Ground Pressure           |
|-----------------------------|------------------------|-----------------------------------|
| Width                       | Shoes                  |                                   |
| Standard undercarriage      |                        |                                   |
| 24 in. (600 mm)             | Triple                 | 6932 sq. in. (44 723 cm²)         |
| (standard)                  | grousers               | 7.27 psi (50.1 kPa) (0.51 kg/cm²) |
| 31 in. (800 mm)             | Triple                 | 9243 sq. in. (59 632 cm²)         |
| (optional)                  | grousers               | 5.58 psi (38.5 kPa) (0.39 kg/cm²) |
| Optional long undercarriage |                        |                                   |
| 24 in. (600 mm)             | Triple                 | 7641 sq. in. (49 297 cm²)         |
| (standard)                  | grousers               | 6.78 psi (46.8 kPa) (0.48 kg/cm²) |
| 31 in. (800 mm)             | Triple                 | 10,188 sq. in. (65 733 cm²)       |
| (optional)                  | grousers               | 5.22 psi (36.0 kPa) (0.37 kg/cm²) |

### Cab:

Steel, independent, shock mounted and soundproofed. Tinted glass windows. Front window can be stored. Side windows slide open for better ventilation. Front window wiper. Hydraulic system lockout for safety during operator entry and exit from the cab. Centralized monitoring with alarm system.

### Seat:

Fully adjustable deluxe reclining seat with armrests.

### Controls:

All hydraulic functions are controlled by low-effort hydraulic pilot controls. Two short levers control swing, boom, arm and bucket functions. Right and left pedals control forward, reverse and counterrotation movements.

### Boom and Arm:

Welded, low-stress, full box-section design. Centralized lubrication system.

### Servicing and Vandal Protection:

Non-slip steps and handrails allow easier servicing and maintenance. Easily accessible engine and hydraulic system covers. Machine covers, fuel cap, and cab door are lockable.

### Additional Standard Equipment:

|                                                         |  |
|---------------------------------------------------------|--|
| Cab:                                                    |  |
| Automatic idle mode selection:                          |  |
| Digging mode selection—three modes                      |  |
| Travel mode selection—two modes                         |  |
| Front windshield wiper                                  |  |
| Horn                                                    |  |
| Travel alarm with cancel switch                         |  |
| Interior light                                          |  |
| Positive position hand throttle                         |  |
| Monitor package with alarm system:                      |  |
| Air cleaner restriction warning light                   |  |
| Alternator charge indicator light                       |  |
| Automatic idle indicator light                          |  |
| Engine coolant level light                              |  |
| Engine coolant temperature gauge                        |  |
| Engine coolant temperature warning light w/alarm buzzer |  |
| Engine oil pressure warning light w/alarm buzzer        |  |
| Fuel gauge                                              |  |
| Hydraulic oil level light                               |  |
| Low fuel level indicator light                          |  |
| Quartz hourmeter                                        |  |
| Work lights on indicator                                |  |
| Heater, 13,500 Btu/hr (4.1 kW)                          |  |

### Engine:

|                                            |
|--------------------------------------------|
| Dual dry-type air filters                  |
| Dual heavy-duty fuel filters               |
| Electric cold weather (ether) starting aid |
| Full-flow oil filter w/bypass              |
| Isolation-mounted engine                   |
| Oil cooler                                 |

### Frame:

|                                                              |
|--------------------------------------------------------------|
| 10,430-lb. (4730 kg) counterweight                           |
| Fully enclosed swing gears                                   |
| Vandal protection—lockable service doors and fuel filler cap |

### Front attachment:

|                                      |
|--------------------------------------|
| Bucket clearance adjusting mechanism |
| Centralized lubrication system       |
| Dirt seals on all bucket pins        |

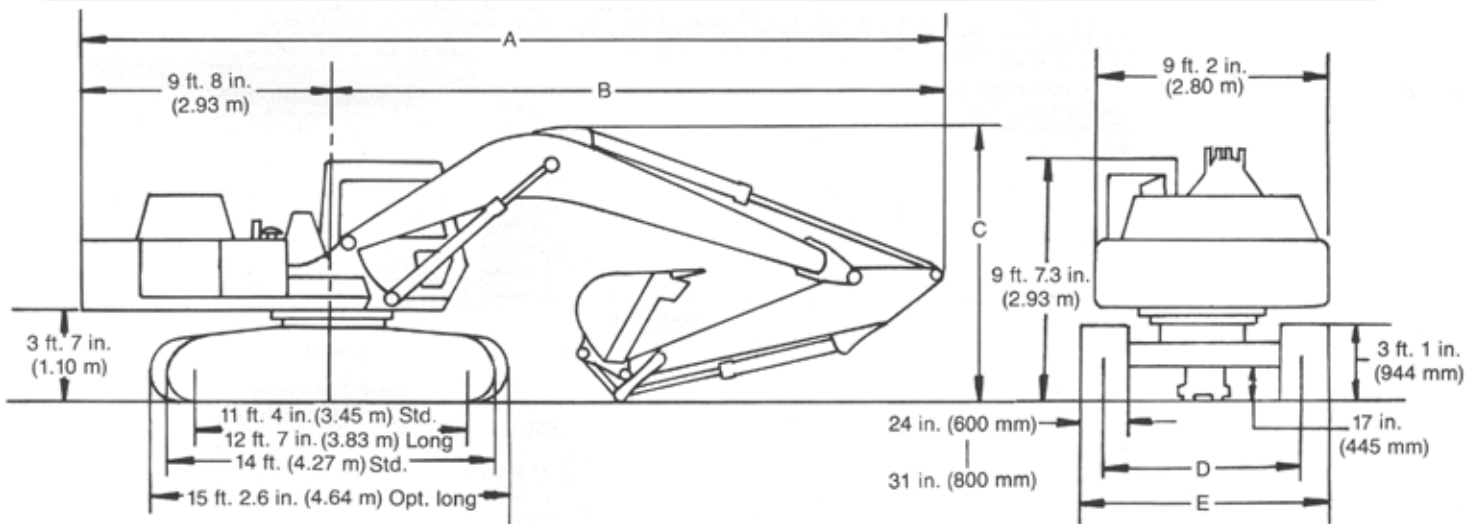
### Undercarriage:

|                                              |
|----------------------------------------------|
| Propel motor and hydraulic line shields      |
| Single flange lower track rollers with guide |

### Work lights:

|                      |
|----------------------|
| One mounted on frame |
| One mounted on boom  |

# 790D EXCAVATOR SPECIFICATIONS



- A. W/short arm—33 ft. 7 in. (10.24 m)  
W/standard arm—33 ft. 2 in. (10.11 m)  
W/long arm—33 ft. 4.4 in. (10.17 m)
- B. W/short arm—23 ft. 11.6 in. (7.30 m)  
W/standard arm—23 ft. 6.5 in. (7.17 m)  
W/long arm—23 ft. 8.8 in. (7.23 m)
- C. W/short arm—10 ft. 6 in. (3.22 m)  
W/standard arm—9 ft. 10 in. (3.00 m)  
W/long arm—10 ft. 4.4 in. (3.16 m)
- D. Std. 7 ft. 10 in. (2.39 m)  
Opt. long 8 ft. 6 in. (2.59 m)
- E. W/24-in. (600 mm) shoes: 9 ft. 10 in. (2.99 m) Std.  
10 ft. 6 in. (3.19 m) Opt. long  
W/31-in. (800 mm) shoes: 10 ft. 6 in. (3.19 m) Std.  
11 ft. 1 in. (3.39 m) Opt. long

## Operating Information:

|                                                       |                       |
|-------------------------------------------------------|-----------------------|
| Drawbar pull                                          | 37,250 lb. (165.7 kN) |
| Tractive gradability                                  | 100% (45 deg.)        |
| Off-level operating limit for oil sumps               | 100% (45 deg.)        |
| Swing speed                                           | 12 rpm                |
| Tail swing clearance                                  | 115 in. (2.92 m)      |
| Infinitely variable travel speed, forward and reverse | 2.8 mph (4.5 km/h)    |

## Capacities:

|                                   | U.S.    | Liters |
|-----------------------------------|---------|--------|
| Fuel tank                         | 82 gal. | 310    |
| Cooling system                    | 34 qt.  | 32     |
| Engine lubrication w/filter       | 25 qt.  | 24     |
| Hydraulic system                  | 71 gal. | 270    |
| Hydraulic reservoir               | 40 gal. | 150    |
| Planetary propel drive (ea. side) | 9 qt.   | 8.5    |
| Swing drive                       | 8 qt.   | 7.5    |
| Hydraulic pump drive              | 1.3 qt. | 1.2    |

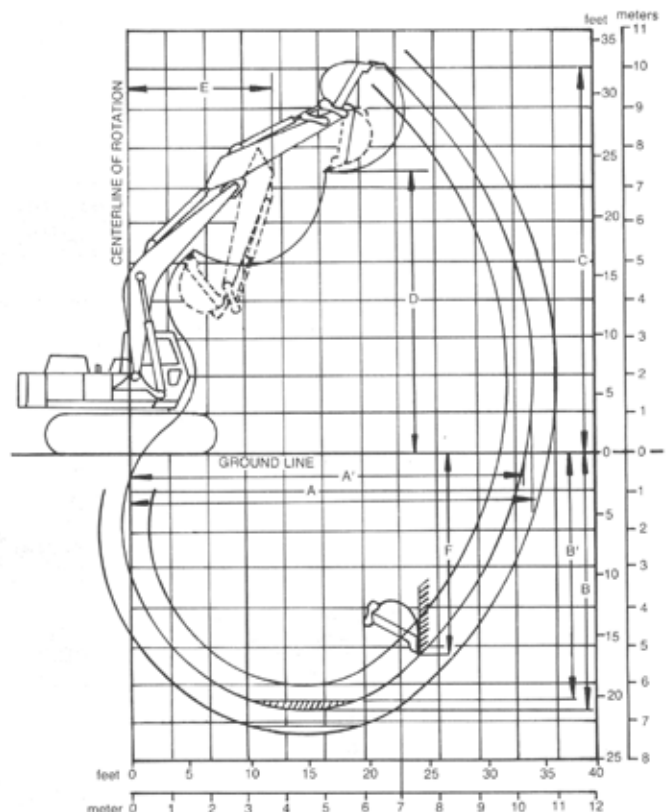
|                                                    | Opt. Short                      | Standard                        | Opt. Long                    |
|----------------------------------------------------|---------------------------------|---------------------------------|------------------------------|
| Arm length                                         | 7 ft. 7 in. (2.3 m)             | 9 ft. 8 in. (2.96 m)            | 11 ft. 10 in. (3.61 m)       |
| Arm force                                          | 28,660 lb. (127 kN) (13 000 kg) | 22,710 lb. (101 kN) (10 300 kg) | 19,840 lb. (88 kN) (9000 kg) |
| Lifting capacity over front or rear @ ground level |                                 |                                 |                              |
| 20 ft. (6.1 m) reach                               | *16,146 lb. (7324 kg)           | *16,144 lb. (7323 kg)           | *15,264 lb. (6924 kg)        |
| A Max. digging reach                               | 31 ft. 11 in. (9.72 m)          | 33 ft. 10 in. (10.31 m)         | 35 ft. 9 in. (10.90 m)       |
| A' Max. digging reach @ ground level               | 31 ft. 3 in. (9.52 m)           | 33 ft. 3 in. (10.13 m)          | 35 ft. 2 in. (10.73 m)       |
| B Max. digging depth                               | 20 ft. 5 in. (6.21 m)           | 22 ft. 7 in. (6.88 m)           | 24 ft. 8 in. (7.52 m)        |
| B' Max. digging depth @ 8 ft. (2.44 m) flat bottom | 19 ft. 9 in. (6.01 m)           | 22 ft. 0 in. (6.71 m)           | 24 ft. 3 in. (7.39 m)        |
| C Max. cutting height                              | 30 ft. 2 in. (9.20 m)           | 31 ft. 1 in. (9.47 m)           | 31 ft. 8 in. (9.70 m)        |
| D Max. dumping height                              | 20 ft. 10 in. (6.35 m)          | 21 ft. 7 in. (6.59 m)           | 22 ft. 4 in. (6.82 m)        |
| E Min. swing radius                                | 13 ft. 9 in. (4.20 m)           | 13 ft. 5 in. (4.08 m)           | 13 ft. 4 in. (4.07 m)        |
| F Max. vertical wall                               | 17 ft. 1 in. (5.21 m)           | 19 ft. 9 in. (6.01 m)           | 21 ft. 10 in. (6.66 m)       |

\*W/Optional long undercarriage

## Bucket Digging Force (Tangential Penetrating Force) (SAE Heaped)

|                                |                                 |
|--------------------------------|---------------------------------|
| Regular duty                   | 28,880 lb. (128 kN) (13 100 kg) |
| 1 cu. yd. (.8 m <sup>3</sup> ) | 28,880 lb. (128 kN) (13 100 kg) |

## Digging Depth and Reach



# 790D EXCAVATOR LIFTING CAPACITIES W/STANDARD UNDERCARRIAGE

## 7 ft. 7 in. (2.3 m) OPTIONAL SHORT ARM

Ratings at bucket lift hook, machine equipped with 24-in. (600 mm) shoes, 1-1/4 cu. yd. (1.0 m³) PCSA heaped bucket weighing 1790 lb. (810 kg) and standard counterweight situated on firm, uniform supporting surface. **Boldface** type indicates hydraulic-limited capacities, **lightface** type indicates stability-limited capacities, in lb. (kg). Figures do not exceed 87 percent of hydraulic capacities or 75 percent of weight needed to tip machine. Lift capacity is increased by approximately 3 percent if machine is equipped with optional 31-in. (800 mm) triple grouser shoes.

### LIFTING, OVER FRONT OR REAR

| Horizontal distance from centerline of rotation | 5 ft.<br>(1.52 m) | 10 ft.<br>(3.05 m)   | 15 ft.<br>(4.57 m)   | 20 ft.<br>(6.10 m)   | 25 ft.<br>(7.62 m)   | 30 ft.<br>(9.14 m) |
|-------------------------------------------------|-------------------|----------------------|----------------------|----------------------|----------------------|--------------------|
| 20 ft. (6.10 m)                                 |                   |                      |                      |                      |                      |                    |
| 15 ft. (4.57 m)                                 |                   |                      |                      | <b>10,560 (4790)</b> | <b>9693 (4397)</b>   |                    |
| 10 ft. (3.05 m)                                 |                   |                      |                      | <b>12,979 (5887)</b> | <b>10,059 (4563)</b> |                    |
| 5 ft. (1.52 m)                                  |                   |                      |                      | 13,772 (6247)        | 9667 (4385)          |                    |
| Ground level                                    |                   |                      |                      | 13,326 (6045)        | 9390 (4259)          |                    |
| - 5 ft. (- 1.52 m)                              |                   |                      | <b>15,113 (6855)</b> | 13,205 (5990)        | 9299 (4218)          |                    |
| - 10 ft. (- 3.05 m)                             |                   | <b>19,921 (9036)</b> | <b>19,565 (8875)</b> | 13,351 (6056)        |                      |                    |
| - 15 ft. (- 4.57 m)                             |                   |                      | <b>16,970 (7698)</b> |                      |                      |                    |
| - 20 ft. (- 6.10 m)                             |                   |                      |                      |                      |                      |                    |

### LIFTING OVER SIDE OR 360°

| Horizontal distance from centerline of rotation | 5 ft.<br>(1.52 m) | 10 ft.<br>(3.05 m)   | 15 ft.<br>(4.57 m) | 20 ft.<br>(6.10 m)   | 25 ft.<br>(7.62 m) | 30 ft.<br>(9.14 m) |
|-------------------------------------------------|-------------------|----------------------|--------------------|----------------------|--------------------|--------------------|
| 20 ft. (6.10 m)                                 |                   |                      |                    |                      |                    |                    |
| 15 ft. (4.57 m)                                 |                   |                      |                    | <b>10,560 (4790)</b> | 7270 (3298)        |                    |
| 10 ft. (3.05 m)                                 |                   |                      |                    | 10,011 (4541)        | 6921 (3139)        |                    |
| 5 ft. (1.52 m)                                  |                   |                      |                    | 9299 (4218)          | 6556 (2974)        |                    |
| Ground level                                    |                   |                      |                    | 8894 (4021)          | 6299 (2857)        |                    |
| - 5 ft. (- 1.52 m)                              |                   |                      | 13,918 (6313)      | 8784 (3984)          | 6214 (2819)        |                    |
| - 10 ft. (- 3.05 m)                             |                   | <b>19,921 (9036)</b> | 14,184 (6434)      | 8917 (4045)          |                    |                    |
| - 15 ft. (- 4.57 m)                             |                   |                      | 14,731 (6682)      |                      |                    |                    |
| - 20 ft. (- 6.10 m)                             |                   |                      |                    |                      |                    |                    |

## With 9 ft. 8 in. (2.96 m) STANDARD ARM

| Horizontal distance from centerline of rotation | 5 ft.<br>(1.52 m) | 10 ft.<br>(3.05 m)   | 15 ft.<br>(4.57 m)   | 20 ft.<br>(6.10 m)   | 25 ft.<br>(7.62 m) | 30 ft.<br>(9.14 m) |
|-------------------------------------------------|-------------------|----------------------|----------------------|----------------------|--------------------|--------------------|
| 20 ft. (6.10 m)                                 |                   |                      |                      |                      | <b>8000 (3629)</b> |                    |
| 15 ft. (4.57 m)                                 |                   |                      |                      |                      | <b>8605 (3903)</b> |                    |
| 10 ft. (3.05 m)                                 |                   |                      | <b>16,055 (7283)</b> | <b>11,672 (5294)</b> | <b>9828 (4458)</b> | 7324 (3322)        |
| 5 ft. (1.52 m)                                  |                   |                      | <b>21,344 (9682)</b> | 14,007 (6354)        | 9757 (4426)        | 7124 (3231)        |
| Ground level                                    |                   |                      | <b>16,680 (7566)</b> | 13,394 (6076)        | 9401 (4264)        | 6956 (3155)        |
| - 5 ft. (- 1.52 m)                              |                   | <b>12,603 (5717)</b> | <b>18,205 (8258)</b> | 13,135 (5958)        | 9217 (4181)        |                    |
| - 10 ft. (- 3.05 m)                             |                   | <b>16,221 (7358)</b> | 21,476 (9742)        | 13,169 (5974)        | 9253 (4197)        |                    |
| - 15 ft. (- 4.57 m)                             |                   | <b>18,643 (8457)</b> | <b>19,227 (8721)</b> | 13,512 (6129)        |                    |                    |
| - 20 ft. (- 6.10 m)                             |                   |                      |                      |                      |                    |                    |

### LIFTING OVER SIDE OR 360°

| Horizontal distance from centerline of rotation | 5 ft.<br>(1.52 m) | 10 ft.<br>(3.05 m)   | 15 ft.<br>(4.57 m)   | 20 ft.<br>(6.10 m) | 25 ft.<br>(7.62 m) | 30 ft.<br>(9.14 m) |
|-------------------------------------------------|-------------------|----------------------|----------------------|--------------------|--------------------|--------------------|
| 20 ft. (6.10 m)                                 |                   |                      |                      |                    | 7640 (3466)        |                    |
| 15 ft. (4.57 m)                                 |                   |                      |                      |                    | 7432 (3371)        |                    |
| 10 ft. (3.05 m)                                 |                   |                      | <b>16,055 (7283)</b> | 10,317 (4680)      | 7047 (3197)        | 4938 (2240)        |
| 5 ft. (1.52 m)                                  |                   |                      | 14,424 (6543)        | 9495 (4307)        | 6627 (3006)        | 4749 (2200)        |
| Ground level                                    |                   |                      | 13,760 (6242)        | 8939 (4055)        | 6295 (2855)        | 4590 (2082)        |
| - 5 ft. (- 1.52 m)                              |                   | <b>12,603 (5717)</b> | 13,678 (6204)        | 8703 (3948)        | 6125 (2778)        |                    |
| - 10 ft. (- 3.05 m)                             |                   | <b>16,221 (7358)</b> | 13,868 (6291)        | 8734 (3962)        | 6158 (2793)        |                    |
| - 15 ft. (- 4.57 m)                             |                   | <b>18,643 (8457)</b> | 14,327 (6499)        | 9045 (4103)        |                    |                    |
| - 20 ft. (- 6.10 m)                             |                   |                      |                      |                    |                    |                    |

## With 11 ft. 10 in. (3.61 m) OPTIONAL LONG ARM

| Horizontal distance from centerline of rotation | 5 ft.<br>(1.52 m)    | 10 ft.<br>(3.05 m)   | 15 ft.<br>(4.57 m)   | 20 ft.<br>(6.10 m)   | 25 ft.<br>(7.62 m) | 30 ft.<br>(9.14 m) |
|-------------------------------------------------|----------------------|----------------------|----------------------|----------------------|--------------------|--------------------|
| 20 ft. (6.10 m)                                 |                      |                      |                      |                      |                    |                    |
| 15 ft. (4.57 m)                                 |                      |                      |                      |                      | <b>7487 (3396)</b> | <b>6983 (3168)</b> |
| 10 ft. (3.05 m)                                 |                      |                      | <b>13,223 (5998)</b> | <b>10,190 (4622)</b> | <b>8806 (3994)</b> | 7372 (3344)        |
| 5 ft. (1.52 m)                                  |                      |                      | <b>18,987 (8613)</b> | <b>13,002 (5898)</b> | 9792 (4442)        | 7110 (3225)        |
| Ground level                                    |                      |                      | 21,479 (9743)        | 13,424 (6089)        | 9361 (4246)        | 6878 (3120)        |
| - 5 ft. (- 1.52 m)                              |                      | <b>13,188 (5982)</b> | 21,087 (9565)        | 13,024 (5908)        | 9093 (4125)        | 6744 (3059)        |
| - 10 ft. (- 3.05 m)                             | <b>15,480 (7022)</b> | <b>14,639 (6640)</b> | 21,133 (9586)        | 12,934 (5867)        | 9025 (4094)        |                    |
| - 15 ft. (- 4.57 m)                             |                      | <b>18,992 (8615)</b> | <b>20,761 (9417)</b> | 13,128 (5955)        | 9228 (4186)        |                    |
| - 20 ft. (- 6.10 m)                             |                      |                      | <b>15,952 (7236)</b> |                      |                    |                    |

### LIFTING OVER SIDE OR 360°

| Horizontal distance from centerline of rotation | 5 ft.<br>(1.52 m)    | 10 ft.<br>(3.05 m)   | 15 ft.<br>(4.57 m)   | 20 ft.<br>(6.10 m)   | 25 ft.<br>(7.62 m) | 30 ft.<br>(9.14 m) |
|-------------------------------------------------|----------------------|----------------------|----------------------|----------------------|--------------------|--------------------|
| 20 ft. (6.10 m)                                 |                      |                      |                      |                      |                    |                    |
| 15 ft. (4.57 m)                                 |                      |                      |                      |                      | <b>7487 (3396)</b> | 5175 (2347)        |
| 10 ft. (3.05 m)                                 |                      |                      | <b>13,223 (5998)</b> | <b>10,190 (4622)</b> | 7126 (3232)        | 4976 (2257)        |
| 5 ft. (1.52 m)                                  |                      |                      | 14,932 (6773)        | 9637 (4371)          | 6650 (3016)        | 4728 (2145)        |
| Ground level                                    |                      |                      | 13,852 (6283)        | 8953 (4061)          | 6249 (2835)        | 4509 (2045)        |
| - 5 ft. (- 1.52 m)                              |                      | <b>13,188 (5982)</b> | 13,512 (6129)        | 8589 (3896)          | 5999 (2721)        | 4383 (1988)        |
| - 10 ft. (- 3.05 m)                             | <b>15,480 (7022)</b> | <b>14,639 (6640)</b> | 13,522 (6147)        | 8508 (3859)          | 5936 (2693)        |                    |
| - 15 ft. (- 4.57 m)                             |                      | <b>18,992 (8615)</b> | 13,874 (6293)        | 8684 (3939)          | 6126 (2779)        |                    |
| - 20 ft. (- 6.10 m)                             |                      |                      | 14,568 (6608)        |                      |                    |                    |

# 790D EXCAVATOR LIFT CAPACITIES W/OPTIONAL LONG UNDERCARRIAGE

## 7 ft. 7 in. (2.3 m) OPTIONAL SHORT ARM

Ratings at bucket lift hook, machine equipped with 24-in. (600 mm) shoes, 1-1/4 cu. yd. (1.0 m³) PCSA heaped bucket weighing 1790 lb. (810 kg) and standard counterweight situated on firm, uniform supporting surface. **Boldface** type indicates hydraulic-limited capacities, lightface type indicates stability-limited capacities, in lb. (kg). Figures do not exceed 87 percent of hydraulic capacities or 75 percent of weight needed to tip machine. Lift capacity is increased by approximately 3 percent if machine is equipped with optional 31-in. (800 mm) triple grouser shoes.

### LIFTING OVER FRONT OR REAR

| Horizontal distance from centerline of rotation | 5 ft.<br>(1.52 m) | 10 ft.<br>(3.05 m)   | 15 ft.<br>(4.57 m)   | 20 ft.<br>(6.10 m)   | 25 ft.<br>(7.62 m)   | 30 ft.<br>(9.14 m) |
|-------------------------------------------------|-------------------|----------------------|----------------------|----------------------|----------------------|--------------------|
| 20 ft. (6.10 m)                                 |                   |                      |                      |                      |                      |                    |
| 15 ft. (4.57 m)                                 |                   |                      |                      | <b>10,560 (4790)</b> | <b>9693 (4397)</b>   |                    |
| 10 ft. (3.05 m)                                 |                   |                      |                      | <b>12,979 (5887)</b> | <b>10,745 (4874)</b> |                    |
| 5 ft. (1.52 m)                                  |                   |                      |                      | <b>15,346 (6961)</b> | 11,611 (5267)        |                    |
| Ground level                                    |                   |                      |                      | 16,146 (7324)        | 11,325 (5137)        |                    |
| - 5 ft. (- 1.52 m)                              |                   |                      | <b>15,113 (6855)</b> | 16,019 (7266)        | 11,321 (5094)        |                    |
| - 10 ft. (- 3.05 m)                             |                   | <b>19,921 (9036)</b> | <b>19,565 (8875)</b> | <b>15,986 (7251)</b> |                      |                    |
| - 15 ft. (- 4.57 m)                             |                   |                      | <b>16,970 (7698)</b> |                      |                      |                    |
| - 20 ft. (- 6.10 m)                             |                   |                      |                      |                      |                      |                    |

### LIFTING OVER SIDE OR 360°

| Horizontal distance from centerline of rotation | 5 ft.<br>(1.52 m) | 10 ft.<br>(3.05 m)   | 15 ft.<br>(4.57 m)   | 20 ft.<br>(6.10 m)   | 25 ft.<br>(7.62 m) | 30 ft.<br>(9.14 m) |
|-------------------------------------------------|-------------------|----------------------|----------------------|----------------------|--------------------|--------------------|
| 20 ft. (6.10 m)                                 |                   |                      |                      |                      |                    |                    |
| 15 ft. (4.57 m)                                 |                   |                      |                      | <b>10,560 (4790)</b> | 8262 (3748)        |                    |
| 10 ft. (3.05 m)                                 |                   |                      |                      | 11,382 (5163)        | 7907 (3587)        |                    |
| 5 ft. (1.52 m)                                  |                   |                      |                      | 10,654 (4833)        | 7537 (3419)        |                    |
| Ground level                                    |                   |                      |                      | 10,241 (4645)        | 7275 (3300)        |                    |
| - 5 ft. (- 1.52 m)                              |                   |                      | <b>15,113 (6855)</b> | 10,128 (4594)        | 7189 (3261)        |                    |
| - 10 ft. (- 3.05 m)                             |                   | <b>19,921 (9036)</b> | 16,341 (7412)        | 10,264 (4656)        |                    |                    |
| - 15 ft. (- 4.57 m)                             |                   |                      | 16,905 (7668)        |                      |                    |                    |
| - 20 ft. (- 6.10 m)                             |                   |                      |                      |                      |                    |                    |

## With 9 ft. 8 in. (2.96 m) STANDARD ARM

### LIFTING OVER FRONT OR REAR

| Horizontal distance from centerline of rotation | 5 ft.<br>(1.52 m) | 10 ft.<br>(3.05 m)   | 15 ft.<br>(4.57 m)     | 20 ft.<br>(6.10 m)   | 25 ft.<br>(7.62 m)   | 30 ft.<br>(9.14 m) |
|-------------------------------------------------|-------------------|----------------------|------------------------|----------------------|----------------------|--------------------|
| 20 ft. (6.10 m)                                 |                   |                      |                        |                      | <b>8000 (3639)</b>   |                    |
| 15 ft. (4.57 m)                                 |                   |                      |                        |                      | <b>8605 (3903)</b>   |                    |
| 10 ft. (3.05 m)                                 |                   |                      | 16,055 (7283)          | 11,672 (5294)        | <b>9828 (4458)</b>   | <b>8393 (3807)</b> |
| 5 ft. (1.52 m)                                  |                   |                      | <b>21,344 (9682)</b>   | <b>14,277 (6477)</b> | <b>11,228 (5093)</b> | 8596 (3899)        |
| Ground level                                    |                   |                      | <b>16,680 (7566)</b>   | <b>16,144 (7323)</b> | 11,342 (5145)        | 8424 (3821)        |
| - 5 ft. (- 1.52 m)                              |                   | <b>12,603 (5717)</b> | <b>18,205 (8528)</b>   | 15,954 (7237)        | 11,153 (5059)        |                    |
| - 10 ft. (- 3.05 m)                             |                   | <b>16,221 (7358)</b> | <b>22,213 (10 076)</b> | 15,990 (7253)        | 11,190 (5076)        |                    |
| - 15 ft. (- 4.57 m)                             |                   | <b>18,643 (8457)</b> | <b>19,227 (8721)</b>   | <b>14,376 (6521)</b> |                      |                    |
| - 20 ft. (- 6.10 m)                             |                   |                      |                        |                      |                      |                    |

### LIFTING OVER SIDE OR 360°

| Horizontal distance from centerline of rotation | 5 ft.<br>(1.52 m) | 10 ft.<br>(3.05 m)   | 15 ft.<br>(4.57 m) | 20 ft.<br>(6.10 m) | 25 ft.<br>(7.62 m) | 30 ft.<br>(9.14 m) |
|-------------------------------------------------|-------------------|----------------------|--------------------|--------------------|--------------------|--------------------|
| 20 ft. (6.10 m)                                 |                   |                      |                    |                    | <b>8000 (3629)</b> |                    |
| 15 ft. (4.57 m)                                 |                   |                      |                    |                    | 8429 (3823)        |                    |
| 10 ft. (3.05 m)                                 |                   |                      | 16,055 (7283)      | 11,672 (5294)      | 8038 (3646)        | 5707 (2589)        |
| 5 ft. (1.52 m)                                  |                   |                      | 16,595 (7527)      | 10,858 (4925)      | 7611 (3452)        | 5515 (2502)        |
| Ground level                                    |                   |                      | 15,910 (7217)      | 10,291 (4668)      | 7274 (3300)        | 5355 (2429)        |
| - 5 ft. (- 1.52 m)                              |                   | <b>12,603 (5717)</b> | 15,825 (7178)      | 10,050 (4559)      | 7101 (3221)        |                    |
| - 10 ft. (- 3.05 m)                             |                   | <b>16,221 (7358)</b> | 16,021 (7267)      | 10,081 (4573)      | 7135 (3236)        |                    |
| - 15 ft. (- 4.57 m)                             |                   | <b>18,643 (8457)</b> | 16,494 (7482)      | 10,399 (4717)      |                    |                    |
| - 20 ft. (- 6.10 m)                             |                   |                      |                    |                    |                    |                    |

## With 11 ft. 10 in. (3.61 m) OPTIONAL LONG ARM

### LIFTING OVER FRONT OR REAR

| Horizontal distance from centerline of rotation | 5 ft.<br>(1.52 m)    | 10 ft.<br>(3.05 m)   | 15 ft.<br>(4.57 m)   | 20 ft.<br>(6.10 m) | 25 ft.<br>(7.62 m)   | 30 ft.<br>(9.14 m) |
|-------------------------------------------------|----------------------|----------------------|----------------------|--------------------|----------------------|--------------------|
| 20 ft. (6.10 m)                                 |                      |                      |                      |                    |                      |                    |
| 15 ft. (4.57 m)                                 |                      |                      |                      |                    | <b>7487 (3396)</b>   | <b>6983 (3168)</b> |
| 10 ft. (3.05 m)                                 |                      |                      | 13,223 (5998)        | 10,190 (4622)      | <b>8806 (3994)</b>   | <b>8152 (3698)</b> |
| 5 ft. (1.52 m)                                  |                      |                      | 18,987 (8613)        | 13,002 (5898)      | <b>10,346 (4693)</b> | 8585 (3894)        |
| Ground level                                    |                      |                      | 22,405 (10 163)      | 15,264 (6924)      | 11,305 (5128)        | 8348 (3787)        |
| - 5 ft. (- 1.52 m)                              |                      | <b>13,188 (5982)</b> | 21,706 (9846)        | 15,844 (7187)      | 11,029 (5003)        | 8210 (3724)        |
| - 10 ft. (- 3.05 m)                             | <b>15,480 (7022)</b> | <b>14,639 (6640)</b> | 22,893 (10 384)      | 15,750 (7144)      | 10,959 (4971)        |                    |
| - 15 ft. (- 4.57 m)                             |                      | <b>18,992 (8615)</b> | 20,761 (9417)        | 15,380 (6976)      | 11,169 (5066)        |                    |
| - 20 ft. (- 6.10 m)                             |                      |                      | <b>15,952 (7236)</b> |                    |                      |                    |

### LIFTING OVER SIDE OR 360°

| Horizontal distance from centerline of rotation | 5 ft.<br>(1.52 m)    | 10 ft.<br>(3.05 m)   | 15 ft.<br>(4.57 m)   | 20 ft.<br>(6.10 m) | 25 ft.<br>(7.62 m) | 30 ft.<br>(9.14 m) |
|-------------------------------------------------|----------------------|----------------------|----------------------|--------------------|--------------------|--------------------|
| 20 ft. (6.10 m)                                 |                      |                      |                      |                    |                    |                    |
| 15 ft. (4.57 m)                                 |                      |                      |                      |                    | <b>7487 (3396)</b> | 5949 (2699)        |
| 10 ft. (3.05 m)                                 |                      |                      | 13,223 (5998)        | 10,190 (4622)      | 8120 (3683)        | 5747 (2607)        |
| 5 ft. (1.52 m)                                  |                      |                      | 17,123 (7767)        | 11,007 (4993)      | 7637 (3464)        | 5496 (2493)        |
| Ground level                                    |                      |                      | 16,009 (7262)        | 10,308 (4676)      | 7229 (3279)        | 5275 (2393)        |
| - 5 ft. (- 1.52 m)                              |                      | <b>13,188 (5982)</b> | 15,658 (7103)        | 9937 (4507)        | 6976 (3164)        | 5146 (2334)        |
| - 10 ft. (- 3.05 m)                             | <b>15,480 (7022)</b> | <b>14,639 (6640)</b> | 15,700 (7122)        | 9853 (4469)        | 6912 (3135)        |                    |
| - 15 ft. (- 4.57 m)                             |                      | <b>18,992 (8615)</b> | 16,031 (7272)        | 10,034 (4551)      | 7104 (3222)        |                    |
| - 20 ft. (- 6.10 m)                             |                      |                      | <b>15,952 (7236)</b> |                    |                    |                    |

## 790D EXCAVATOR BUCKETS

|                     | Bite Width              |                                          | SAE<br>(Heaped)                        | CECE<br>(Heaped)     | Weight                | Recommendation w/Standard<br>Undercarriage |                                |                                  | Recommendation w/Optional<br>Long Undercarriage |                                |                                  |
|---------------------|-------------------------|------------------------------------------|----------------------------------------|----------------------|-----------------------|--------------------------------------------|--------------------------------|----------------------------------|-------------------------------------------------|--------------------------------|----------------------------------|
|                     | Without Side<br>Cutters | With Side<br>Cutters<br>or Wear Shrouds* |                                        |                      |                       | 7 ft. 7 in.<br>(2.3 m)<br>ARM              | 9 ft. 8 in.<br>(2.96 m)<br>ARM | 11 ft. 10 in.<br>(3.62 m)<br>ARM | 7 ft. 7 in.<br>(2.3 m)<br>ARM                   | 9 ft. 8 in.<br>(2.96 m)<br>ARM | 11 ft. 10 in.<br>(3.61 m)<br>ARM |
| Regular duty        |                         |                                          |                                        |                      |                       |                                            |                                |                                  |                                                 |                                |                                  |
| 37 in.<br>(940 mm)  |                         | 42 in.<br>(1070 mm)                      | 1 cu. yd.<br>(.8 m <sup>3</sup> )      | (.7 m <sup>3</sup> ) | 1521 lb.<br>(690 kg)  | ○                                          | ○                              | ○                                | ○                                               | ○                              | ○                                |
| 46 in.<br>(1160 mm) |                         | 51 in.<br>(1295 mm)                      | 1 3/8 cu. yd.<br>(1.0 m <sup>3</sup> ) | (.9 m <sup>3</sup> ) | 1786 lb.<br>(810 kg)  | ○                                          | ○                              | □                                | ○                                               | ○                              | ○                                |
| Heavy duty          |                         |                                          |                                        |                      |                       |                                            |                                |                                  |                                                 |                                |                                  |
| 31 in.<br>(787 mm)  |                         | 31 in.*<br>(787 mm)                      | .75 cu. yd.<br>(.6 m <sup>3</sup> )    |                      | 1845 lb.<br>(837 kg)  |                                            |                                |                                  |                                                 |                                |                                  |
| 42 in.<br>(1070 mm) |                         | 42 in.*<br>(1070 mm)                     | 1.12 cu. yd.<br>(.9 m <sup>3</sup> )   |                      | 2255 lb.<br>(1023 kg) |                                            |                                |                                  |                                                 |                                |                                  |
| 48 in.<br>(1219 mm) |                         | 48 in.*<br>(1219 mm)                     | 1.38 cu. yd.<br>(1.0 m <sup>3</sup> )  |                      | 2392 lb.<br>(1085 kg) |                                            |                                |                                  |                                                 |                                |                                  |

○: Suitable for material with density of 3370 lb/cu. yd. (2000 kg/m<sup>3</sup>) or less

□: Suitable for material with density of 2700 lb/cu. yd. (1600 kg/m<sup>3</sup>) or less

| BUCKET SELECTION CHART<br>Recommended Bucket Size* |                   |                       |                                                |                                        |                                                |                                        |                                                |                                       |
|----------------------------------------------------|-------------------|-----------------------|------------------------------------------------|----------------------------------------|------------------------------------------------|----------------------------------------|------------------------------------------------|---------------------------------------|
| lb/yd <sup>3</sup>                                 | kg/m <sup>3</sup> | Material              | 7 ft. 7 in. (2.3 m) Arm**                      |                                        | 9 ft. 8 in. (2.96 m) Arm                       |                                        | 11 ft. 10 in. (3.61 m) Arm**                   |                                       |
|                                                    |                   |                       | Regular Duty                                   | Heavy Duty                             | Regular Duty                                   | Heavy Duty                             | Regular Duty                                   | Heavy Duty                            |
| 700                                                | 420               | Wood chips            | 6 3/8 cu. yd.<br>(4.9 m <sup>3</sup> )         | —                                      | 5 3/4 cu. yd.<br>(4.3 m <sup>3</sup> )         | —                                      | 5 1/4 cu. yd.<br>(3.9 m <sup>3</sup> )         | —                                     |
| 800                                                | 470               | Peat, dry             | 5 1/2 cu. yd.<br>(4.2 m <sup>3</sup> )         | —                                      | 5.0 cu. yd.<br>(3.8 m <sup>3</sup> )           | —                                      | 4 1/2 cu. yd.<br>(3.4 m <sup>3</sup> )         | —                                     |
| 1250                                               | 740               | Peat, wet             | 3 3/8 cu. yd.<br>(2.8 m <sup>3</sup> )         | —                                      | 3 1/8 cu. yd.<br>(2.4 m <sup>3</sup> )         | —                                      | 3 1/8 cu. yd.<br>(2.3 m <sup>3</sup> )         | —                                     |
| 1450                                               | 860               | Cinders               | 3 1/8 cu. yd.<br>(2.4 m <sup>3</sup> )         | —                                      | 2 3/4 cu. yd.<br>(2.1 m <sup>3</sup> )         | —                                      | 2 1/2 cu. yd.<br>(1.9 m <sup>3</sup> )         | —                                     |
| 1600                                               | 950               | Topsoil, loose        | 2 3/4 yd <sup>3</sup><br>(2.2 m <sup>3</sup> ) | —                                      | 2 1/2 yd <sup>3</sup><br>(2.0 m <sup>3</sup> ) | —                                      | 2 1/6 yd <sup>3</sup><br>(1.8 m <sup>3</sup> ) | —                                     |
| 2300                                               | 1360              | Topsoil, heavy packed | 2.0 cu. yd.<br>(1.5 m <sup>3</sup> )           | —                                      | 1 3/4 cu. yd.<br>(1.3 m <sup>3</sup> )         | —                                      | 1 1/2 cu. yd.<br>(1.2 m <sup>3</sup> )         | —                                     |
| 2300                                               | 1360              | Coal, natural bed     | 2.0 cu. yd.<br>(1.5 m <sup>3</sup> )           | 1 5/8 cu. yd.<br>(1.2 m <sup>3</sup> ) | 1 3/4 cu. yd.<br>(1.3 m <sup>3</sup> )         | 1 3/8 cu. yd.<br>(1.0 m <sup>3</sup> ) | 1 1/2 cu. yd.<br>(1.2 m <sup>3</sup> )         | 1 1/4 cu. yd.<br>(.9 m <sup>3</sup> ) |
| 2600                                               | 1540              | Earth, dry loam       | 1.62 cu. yd.<br>(1.2 m <sup>3</sup> )          | 1 3/8 cu. yd.<br>(1.0 m <sup>3</sup> ) | 1 1/2 cu. yd.<br>(1.2 m <sup>3</sup> )         | 1 1/4 cu. yd.<br>(.9 m <sup>3</sup> )  | 1 3/8 cu. yd.<br>(1.0 m <sup>3</sup> )         | 1 1/8 cu. yd.<br>(.8 m <sup>3</sup> ) |
| 2700                                               | 1600              | Sand, dry             | 1.62 cu. yd.<br>(1.2 m <sup>3</sup> )          | 1 3/8 cu. yd.<br>(1.0 m <sup>3</sup> ) | 1 1/2 cu. yd.<br>(1.2 m <sup>3</sup> )         | 1 1/8 cu. yd.<br>(.8 m <sup>3</sup> )  | 1 3/8 cu. yd.<br>(1.0 m <sup>3</sup> )         | 1.0 cu. yd.<br>(.8 m <sup>3</sup> )   |
| 3200                                               | 1900              | Earth, moist loam     | 1 3/8 cu. yd.<br>(1.10 m <sup>3</sup> )        | 1 1/8 cu. yd.<br>(.8 m <sup>3</sup> )  | 1 3/8 cu. yd.<br>(1.0 m <sup>3</sup> )         | 1.0 cu. yd.<br>(.8 m <sup>3</sup> )    | 1.0 cu. yd.<br>(.8 m <sup>3</sup> )            | 3/8 cu. yd.<br>(.6 m <sup>3</sup> )   |
| 3250                                               | 1930              | Sand, gravel, dry     | 1 3/8 cu. yd.<br>(1.0 m <sup>3</sup> )         | 1 1/8 cu. yd.<br>(.8 m <sup>3</sup> )  | 1 1/4 cu. yd.<br>(.9 m <sup>3</sup> )          | 1.0 cu. yd.<br>(.8 m <sup>3</sup> )    | 1.0 cu. yd.<br>(.8 m <sup>3</sup> )            | 3/8 cu. yd.<br>(.6 m <sup>3</sup> )   |
| 3300                                               | 1960              | Sand, moist           | 1 3/8 cu. yd.<br>(1.0 m <sup>3</sup> )         | 1 1/8 cu. yd.<br>(.8 m <sup>3</sup> )  | 1 1/4 cu. yd.<br>(.9 m <sup>3</sup> )          | 3/8 cu. yd.<br>(.6 m <sup>3</sup> )    | 1.0 cu. yd.<br>(.8 m <sup>3</sup> )            | 3/8 cu. yd.<br>(.6 m <sup>3</sup> )   |
| 3500                                               | 2080              | Sand, wet             | 1 1/4 cu. yd.<br>(.9 m <sup>3</sup> )          | 1.0 cu. yd.<br>(.8 m <sup>3</sup> )    | 1 1/8 cu. yd.<br>(.8 m <sup>3</sup> )          | 3/8 cu. yd.<br>(.6 m <sup>3</sup> )    | 1.0 cu. yd.<br>(.8 m <sup>3</sup> )            | 3/4 cu. yd.<br>(.5 m <sup>3</sup> )   |
| 3500                                               | 2080              | Shale                 | 1 1/4 cu. yd.<br>(.9 m <sup>3</sup> )          | 1.0 cu. yd.<br>(.8 m <sup>3</sup> )    | 1 1/8 cu. yd.<br>(.8 m <sup>3</sup> )          | 3/8 cu. yd.<br>(.6 m <sup>3</sup> )    | 1.0 cu. yd.<br>(.8 m <sup>3</sup> )            | 3/4 cu. yd.<br>(.5 m <sup>3</sup> )   |
| 3600                                               | 2100              | Clay, wet             | 1 1/4 cu. yd.<br>(.9 m <sup>3</sup> )          | 1.0 cu. yd.<br>(.8 m <sup>3</sup> )    | 1 1/8 cu. yd.<br>(.8 m <sup>3</sup> )          | 3/8 cu. yd.<br>(.6 m <sup>3</sup> )    | 3/4 cu. yd.<br>(.5 m <sup>3</sup> )            | 3/4 cu. yd.<br>(.5 m <sup>3</sup> )   |
| 4200                                               | 2490              | Limestone, broken     | —                                              | 3/8 cu. yd.<br>(.6 m <sup>3</sup> )    | —                                              | 3/4 cu. yd.<br>(.5 m <sup>3</sup> )    | —                                              | 5/8 cu. yd.<br>(.4 m <sup>3</sup> )   |
| 4600                                               | 2730              | Rock granite, blasted | —                                              | 3/4 cu. yd.<br>(.5 m <sup>3</sup> )    | —                                              | 5/8 cu. yd.<br>(.4 m <sup>3</sup> )    | —                                              | 5/8 cu. yd.<br>(.4 m <sup>3</sup> )   |

\* Contact your John Deere dealer for optimum bucket and attachment selection. The selection of arms and the use of larger than recommended buckets in heavy materials and tough digging conditions should be thoroughly analyzed for digging force and load capacity. Bucket capacity indicated is SAE heaped.

\*\* Select 7 ft. 7-in. (2.3 m) arm for maximum digging force and/or truck loading.  
Select 11 ft. 10-in. (3.61 m) arm for maximum digging depth and reach.

## 790D EXCAVATOR SPECIFICATIONS

| Weights:                                                                                                                                                                                                                                                                 | lb.    | kg     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------|
| Operating weight with full fuel tank,<br>175-lb. (80 kg) operator, long<br>undercarriage, optional 31-in. (800 mm)<br>triple grouser shoes, counterweight,<br>11 ft. 10 in. (3.61 m) arm, 1 $\frac{3}{4}$ cu. yd. (1.0 m <sup>3</sup> )<br>51-in. (1295 mm) bucket ..... | 53,143 | 24 105 |
| Upperstructure with counterweight<br>and full fuel tank, less all<br>front attachments .....                                                                                                                                                                             | 23,030 | 10 446 |
| Undercarriage—standard with:                                                                                                                                                                                                                                             |        |        |
| 24-in. (600 mm) shoes .....                                                                                                                                                                                                                                              | 16,910 | 7 670  |
| 32-in. (800 mm) shoes .....                                                                                                                                                                                                                                              | 18,100 | 8 210  |
| Undercarriage—long with:                                                                                                                                                                                                                                                 |        |        |
| 24-in. (600 mm) shoes .....                                                                                                                                                                                                                                              | 18,342 | 8 320  |
| 32-in. (800 mm) shoes .....                                                                                                                                                                                                                                              | 19,665 | 8 920  |
| Boom, one piece with two boom<br>cylinders and arm cylinder .....                                                                                                                                                                                                        | 5,487  | 2 489  |
| Boom lift cylinders (2)<br>without pins .....                                                                                                                                                                                                                            | 1,036  | 470    |
| Arm, standard 9 ft. 8 in. (2.96 m)<br>w/bucket cylinder and linkage .....                                                                                                                                                                                                | 2,755  | 1 250  |
| Arm, optional short 7 ft. 7 in. (2.3 m)<br>w/bucket cylinder and linkage .....                                                                                                                                                                                           | 2,580  | 1 170  |
| Arm, optional long 11 ft. 10 in. (3.61 m)<br>w/bucket cylinder and linkage .....                                                                                                                                                                                         | 2,998  | 1 360  |
| Arm cylinder without pins .....                                                                                                                                                                                                                                          | 728    | 330    |
| Bucket cylinder without pins and linkage .....                                                                                                                                                                                                                           | 474    | 215    |
| Counterweight .....                                                                                                                                                                                                                                                      | 10,428 | 4 730  |

### Optional or Special Equipment:

|                                                                              |  |
|------------------------------------------------------------------------------|--|
| Cab:                                                                         |  |
| Air conditioner, 7500 Btu/hr (2.2 kW) w/13,500 Btu/hr (4.0 kW)<br>heater     |  |
| Air conditioner, 20,000 Btu/hr (11.7 kW) w/40,000 Btu/hr (11.7 kW)<br>heater |  |
| Heater, 19,000 Btu/hr (5.6 kW)                                               |  |
| Heater, 40,000 Btu/hr (11.7 kW)                                              |  |
| Alternate control pattern                                                    |  |
| Window vandal protection                                                     |  |
| Front Attachment:                                                            |  |
| No-arm option                                                                |  |
| No-boom option                                                               |  |
| No-bucket option                                                             |  |
| One-piece boom                                                               |  |
| 7 ft. 7 in. (2.3 m) short arm                                                |  |
| 9 ft. 8 in. (2.96 m) standard arm                                            |  |
| 11 ft. 10 in. (3.61 m) long arm                                              |  |
| Long reach front attachment                                                  |  |
| Undercarriage:                                                               |  |
| No-undercarriage option                                                      |  |
| Long-track length, 12 ft. 7 in. (3.83 m)                                     |  |
| 24-in. (600 mm) triple grouser shoes                                         |  |
| 32-in. (800 mm) triple grouser shoes                                         |  |