

## 992D-LC 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 61-in. (1560 mm) bucket, full fuel tank, 175-lb. (80 kg) operator and standard equipment.

| Rated Power @ 2100 rpm: | SAE             | DIN 6270B |
|-------------------------|-----------------|-----------|
| Net .....               | 265 hp (198 kW) | 198       |
| Gross .....             | 275 hp (205 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 6619A

|                                     |                                              |
|-------------------------------------|----------------------------------------------|
| Type .....                          | Four-cycle, turbocharged, aftercooled diesel |
| Bore and stroke .....               | 5.12 x 5.00 in. (130 x 127 mm)               |
| No. of cylinders .....              | 6                                            |
| Displacement .....                  | 619 cu. in. (10.145 L)                       |
| Maximum net torque @ 1300 rpm ..... | 862 lb-ft (1169 Nm) (119.2 kg-m)             |
| Cooling fan .....                   | Suction                                      |
| Compression ratio .....             | 15.2 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 with speed sensing controls 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            |
| Minimum flow .....                                     | 2 x 21 gpm (2 x 80 L/min)                       |
| Max. oil flow .....                                    | 2 x 103 gpm (2 x 390 L/min)                     |
| Pilot pump .....                                       |                                                 |
| Pressure setting .....                                 | 570 psi (3930 kPa) (40 kg/cm <sup>2</sup> )     |
| Max. oil flow .....                                    | 8.9 gpm (33.6 L/min)                            |
| System relief valves .....                             |                                                 |
| Travel: Low .....                                      | 4050 psi (27 920 kPa) (285 kg/cm <sup>2</sup> ) |
| High .....                                             | 4410 psi (30 405 kPa) (310 kg/cm <sup>2</sup> ) |
| Front end .....                                        | 4050 psi (27 920 kPa) (285 kg/cm <sup>2</sup> ) |
| Boom—heavy lift .....                                  | 4410 psi (30 405 kPa) (310 kg/cm <sup>2</sup> ) |
| Circuit relief valves .....                            |                                                 |
| Boom .....                                             | 4270 psi (29 420 kPa) (300 kg/cm <sup>2</sup> ) |
| Arm .....                                              | 4270 psi (29 420 kPa) (300 kg/cm <sup>2</sup> ) |
| Bucket .....                                           | 4270 psi (29 420 kPa) (300 kg/cm <sup>2</sup> ) |
| Swing .....                                            | 3840 psi (26 500 kPa) (270 kg/cm <sup>2</sup> ) |
| Cross-over relief valves .....                         |                                                 |
| Propel .....                                           | 4550 psi (31 370 kPa) (320 kg/cm <sup>2</sup> ) |
| Swing .....                                            | 3560 psi (24 550 kPa) (250 kg/cm <sup>2</sup> ) |
| Oil filtration: .....                                  |                                                 |
| One suction filter .....                               |                                                 |
| Two 10-micron full-flow filter with bypass .....       |                                                 |
| One 10-micron full-flow pilot filter with bypass ..... |                                                 |

| Cylinders:       | Bore                 | Rod Diameter         | Stroke                 |
|------------------|----------------------|----------------------|------------------------|
| Boom (2) .....   | 6.69 in.<br>(170 mm) | 4.53 in.<br>(115 mm) | 62.60 in.<br>(1590 mm) |
| Arm (1) .....    | 7.48 in.<br>(190 mm) | 5.12 in.<br>(130 mm) | 76.38 in.<br>(1940 mm) |
| Bucket (1) ..... | 6.69 in.<br>(170 mm) | 4.53 in.<br>(115 mm) | 52.17 in.<br>(1325 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 .....       | 0-10.2 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: Long

Propel motors (one for each track) Axial-piston, 2-speed 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 bolted to track frame to allow for 2-position undercarriage width extend for operating, retract for transport position. 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):

Long undercarriage has three upper rollers, 10 lower rollers and 53 track shoes. Track shoes are induction-hardened rolled alloy with heat-treated connecting pins. Two lower track guides are provided.

| Track Shoes:     |                    | Average<br>Ground<br>Contact                | Average<br>Ground<br>Pressure                   |
|------------------|--------------------|---------------------------------------------|-------------------------------------------------|
| Width            | Shoes              |                                             |                                                 |
| 30 in. (750 mm)  | Triple<br>grousers | 11,172 sq. in.<br>(72 077 cm <sup>2</sup> ) | 8.7 psi (60.0 kPa)<br>(.61 kg/cm <sup>2</sup> ) |
| 36 in. (900 mm)* | Triple<br>grousers | 13,384 sq. in.<br>(84 395 cm <sup>2</sup> ) | 7.3 psi (50.3 kPa)<br>(.51 kg/cm <sup>2</sup> ) |

\*Not recommended for rock, hard surface or forestry application.

### Cab:

Steel, independent, shock mounted and soundproofed. Tinted safety glass windows. Front window can be stored. Side windows slide open for ventilation. Front window wiper. Pilot hydraulic system lockout for safety during operator entry and exit from the cab. Centralized monitoring with alarm system. 24-volt AM radio with speaker.

### Seat:

Fully adjustable deluxe reclining seat with armrests.

### Controls:

All hydraulic functions are controlled by low-effort hydraulic pilot controllers. Two short levers control swing, boom, arm and bucket functions. Right and left pedals control forward, reverse and counterrotation movements. A switch on the right-hand control panel selects the 2-speed propel mode.

### Boom and Arm:

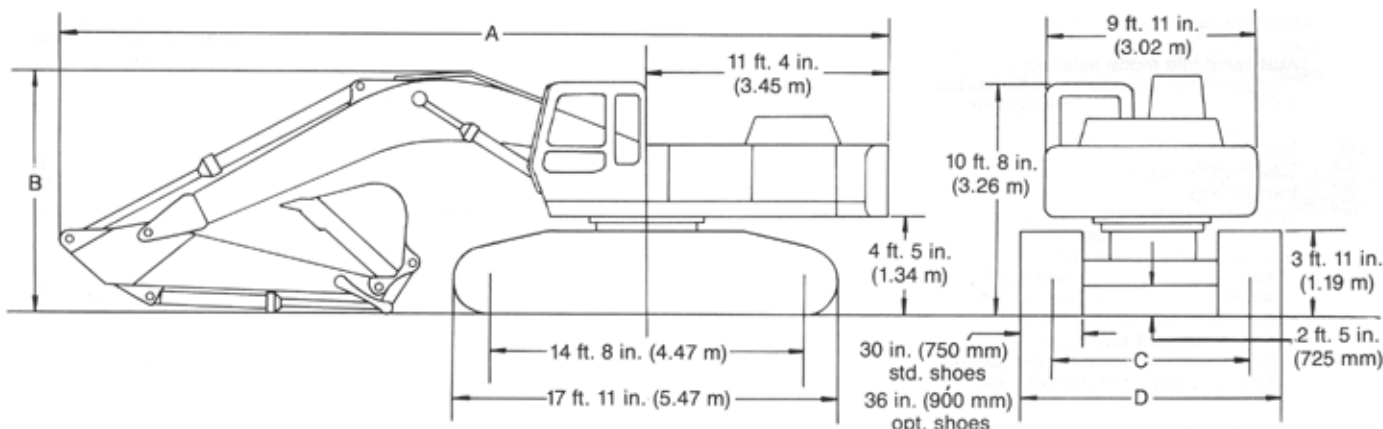
Welded, low-stress, full box-section design. Centralized lubrication system.

### 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.

| Capacities:                             | U.S.     | Liters |
|-----------------------------------------|----------|--------|
| Fuel tank .....                         | 145 gal. | 550    |
| Cooling system .....                    | 36 qt.   | 34     |
| Engine lubrication w/filter .....       | 36 qt.   | 34     |
| Hydraulic system .....                  | 132 gal. | 500    |
| Hydraulic reservoir .....               | 55 gal.  | 208    |
| Planetary propel drive (ea. side) ..... | 9 qt.    | 8.5    |
| Swing drive .....                       | 5.6 qt.  | 5.3    |
| Hydraulic pump drive .....              | 4.8 qt.  | 4.5    |

# 992D-LC EXCAVATOR SPECIFICATIONS AND DIMENSIONS



A. W/short arm—38 ft. 11 in. (11.87 m)  
W/standard arm—38 ft. 7 in. (11.76 m)  
W/long arm—38 ft. 7 in. (11.76 m)

C. Operate position—9 ft. 6 in. (2.89 m)  
Transport position—7 ft. 10 in. (2.39 m)

D. W/30-in. (750 mm) shoes  
Operate position—11 ft. 11 in. (3.64 m)  
Transport position—10 ft. 4 in. (3.14 m)  
W/36-in. (900 mm) shoes  
Operate position—12 ft. 5 in. (3.79 m)  
Transport position—10 ft. 10 in. (3.29 m)

B. W/short arm—11 ft. 8 in. (3.56 m)  
W/standard arm—11 ft. 3 in. (3.44 m)  
W/long arm—14 ft. 11 in. (4.54 m)

## Weights:

|                                                                                                                                                                                                  | lb.    | kg     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------|
| Operating weight with full fuel tank, 175-lb. (80 kg) operator, long undercarriage, 30-in. (750 mm) triple grouser shoes, 12 ft. 10 in. (3.9 m) arm, 2-3/8 cu. yd. (1.82 m <sup>3</sup> ) bucket | 97,530 | 44 240 |
| Upperstructure with counterweight and full fuel tank, less all front attachments                                                                                                                 | 38,620 | 17 520 |
| Undercarriage with:                                                                                                                                                                              |        |        |
| 30-in. (750 mm) shoes                                                                                                                                                                            | 39,900 | 18 100 |
| 36-in. (900 mm) shoes                                                                                                                                                                            | 40,345 | 18 300 |
| Boom, one piece, with two boom cylinders and arm cylinder                                                                                                                                        | 10,340 | 4690   |
| Boom lift cylinders (2) without pins                                                                                                                                                             | 1,960  | 890    |
| Arm, short, 9 ft. 6 in. (2.9 m) w/bucket cylinder and linkage                                                                                                                                    | 4,920  | 2230   |
| Arm, standard, 12 ft. 10 in. (3.9 m) w/bucket cylinder and linkage                                                                                                                               | 5,270  | 2390   |
| Arm, long, 16 ft. 1 in. (4.9 m) w/bucket cylinder and linkage                                                                                                                                    | 5,000  | 2270   |
| Arm cylinder without pins                                                                                                                                                                        | 1,410  | 640    |
| Bucket cylinder without pins and linkage                                                                                                                                                         | 900    | 410    |
| Counterweight                                                                                                                                                                                    | 18,740 | 8500   |

## Operating Information:

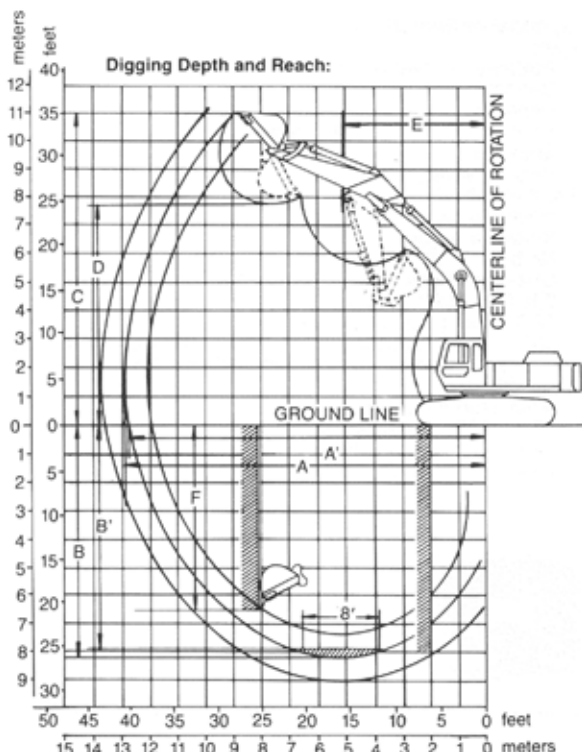
|                                     |                        |
|-------------------------------------|------------------------|
| Gradability                         | 100% (45°)*            |
| Drawbar pull                        | 70,550 lb. (314 kN)    |
| Tail swing clearance                | 137 in. (3.47 m)       |
| Swing speed                         | 10.2 rpm               |
| Travel speed, (forward and reverse) |                        |
| —High                               | 0-3.1 mph (0-5.0 km/h) |
| —Low                                | 0-2.1 mph (0-3.4 km/h) |

\* Limited by the off-level capability of the engine

|            | ARM                                |                                    |                                    |
|------------|------------------------------------|------------------------------------|------------------------------------|
|            | Opt. Short                         | Standard                           | Opt. Long                          |
| Arm length | 9 ft. 6 in. (2.90 m)               | 12 ft. 10 in. (3.9 m)              | 16 ft. 1 in. (4.9 m)               |
| Arm force  | 45,200 lb. (201 kN)<br>(20 500 kg) | 35,300 lb. (157 kN)<br>(16 000 kg) | 30,900 lb. (137 kN)<br>(14 000 kg) |

|                                                                         |                        |                        |                        |
|-------------------------------------------------------------------------|------------------------|------------------------|------------------------|
| Lifting capacity over front or rear @ ground level 20 ft. (6.1 m) reach | 34,800 lb. (15 800 kg) | 33,800 lb. (15 300 kg) | 32,000 lb. (14 500 kg) |
|-------------------------------------------------------------------------|------------------------|------------------------|------------------------|

|                                                    | ARM                     |                        |                         |
|----------------------------------------------------|-------------------------|------------------------|-------------------------|
|                                                    | Opt. Short              | Standard               | Opt. Long               |
| A Max. reach                                       | 37 ft. 4 in. (11.39 m)  | 40 ft. 9 in. (12.43 m) | 43 ft. 10 in. (13.35 m) |
| A' Max. reach @ ground level                       | 36 ft. 7 in. (11.14 m)  | 40 ft. 0 in. (12.20 m) | 43 ft. 1 in. (13.14 m)  |
| B Max. digging depth                               | 23 ft. 10 in. (7.27 m)  | 26 ft. 10 in. (8.19 m) | 29 ft. 10 in. (9.09 m)  |
| B' Max. digging depth @ 8 ft. (2.44 m) flat bottom | 23 ft. 2 in. (7.06 m)   | 26 ft. 5 in. (8.05 m)  | 29 ft. 6 in. (8.98 m)   |
| C Max. cutting height                              | 32 ft. 11 in. (10.04 m) | 36 ft. 3 in. (11.06 m) | 38 ft. 5 in. (11.72 m)  |
| D Max. dumping height                              | 22 ft. 7 in. (6.89 m)   | 25 ft. 6 in. (7.76 m)  | 28 ft. 3 in. (8.6 m)    |
| E Min. swing radius                                | 16 ft. 7 in. (5.06 m)   | 16 ft. 2 in. (4.92 m)  | 16 ft. 4 in. (4.98 m)   |
| F Max. vertical wall                               | 14 ft. 3 in. (4.35 m)   | 22 ft. 11 in. (6.98 m) | 27 ft. 6 in. (8.37 m)   |



## 992D-LC EXCAVATOR LIFT CAPACITIES

Ratings at bucket lift hook, machine equipped with 30-in. (750 mm) shoes, 2.75 cu. yd. (2.07 m³) SAE heaped bucket and standard counterweight, situated on firm, level, 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. All lift capacities are with heavy lifting system. Lift capacity is increased 2 percent if machine is equipped with optional 36-in. (900 mm) triple grouser shoes.

Note: Upper No.: Without heavy-lift system activated  
Lower No.: With heavy-lift system activated

OVER SIDE  
OVER END

Equipped with 9 ft. 6 in. (2.9 m) arm and 2.75 cu. yd. (2.07 m³) SAE heaped bucket

| Load Point Height  | 10 ft. (3.05 m)                                | 15 ft. (4.57 m)                                | 20 ft. (6.10 m)                                | 25 ft. (7.62 m)                                | 30 ft. (9.14 m)                                | 35 ft. (10.7 m)                                |
|--------------------|------------------------------------------------|------------------------------------------------|------------------------------------------------|------------------------------------------------|------------------------------------------------|------------------------------------------------|
| 25 ft. (7.62 m)    |                                                |                                                |                                                | <b>14600 (6620)</b><br><b>16500 (7480)</b>     | <b>14600 (6620)</b><br><b>16500 (7480)</b>     |                                                |
| 20 ft. (6.10 m)    |                                                |                                                |                                                | <b>15100 (6850)</b><br><b>17100 (7760)</b>     | <b>15100 (6850)</b><br><b>17100 (7760)</b>     |                                                |
| 15 ft. (4.57 m)    |                                                | <b>27200 (12 300)</b><br><b>30500 (13 800)</b> | <b>27200 (12 300)</b><br><b>30500 (13 800)</b> | <b>20100 (9120)</b><br><b>22600 (10 300)</b>   | <b>16900 (7670)</b><br><b>18100 (8210)</b>     | <b>13000 (5900)</b><br><b>15400 (6990)</b>     |
| 10 ft. (3.05 m)    |                                                |                                                | <b>24500 (11 100)</b><br><b>24500 (11 100)</b> | <b>24800 (11 200)</b><br><b>27900 (12 700)</b> | <b>17200 (7800)</b><br><b>19300 (8750)</b>     | <b>12500 (5670)</b><br><b>16500 (7480)</b>     |
| 5 ft. (1.52 m)     |                                                |                                                | <b>22900 (10 400)</b><br><b>22900 (10 400)</b> | <b>28900 (13 100)</b><br><b>32500 (14 700)</b> | <b>16300 (7390)</b><br><b>24500 (11 100)</b>   | <b>12100 (5490)</b><br><b>20200 (9160)</b>     |
| Ground Line        |                                                |                                                | <b>22100 (10 000)</b><br><b>22100 (10 000)</b> | <b>31000 (14 100)</b><br><b>34800 (15 800)</b> | <b>15700 (7120)</b><br><b>26300 (11 900)</b>   | <b>11700 (5310)</b><br><b>20700 (9390)</b>     |
| - 5 ft. (-1.52 m)  |                                                | <b>35400 (16 100)</b><br><b>35400 (16 100)</b> | <b>41900 (19 000)</b><br><b>46600 (21 100)</b> | <b>21900 (9930)</b><br><b>21900 (9930)</b>     | <b>15400 (6990)</b><br><b>15400 (6990)</b>     | <b>11600 (5260)</b><br><b>11600 (5260)</b>     |
| - 10 ft. (-3.05 m) | <b>41700 (18 900)</b><br><b>44200 (20 000)</b> | <b>41700 (18 900)</b><br><b>44200 (20 000)</b> | <b>35900 (16 300)</b><br><b>35900 (16 300)</b> | <b>38800 (17 600)</b><br><b>43400 (19 700)</b> | <b>29900 (13 600)</b><br><b>33600 (15 200)</b> | <b>23100 (10 500)</b><br><b>26100 (11 800)</b> |
| - 15 ft. (-4.57 m) |                                                | <b>33700 (15 300)</b><br><b>36700 (16 600)</b> | <b>33700 (15 300)</b><br><b>37900 (17 200)</b> | <b>22700 (10 300)</b><br><b>22700 (10 300)</b> | <b>26400 (12 000)</b><br><b>29700 (13 500)</b> |                                                |

Equipped with 12 ft. 10 in. (3.9 m) standard arm and 2.38 cu. yd. (1.82 m³) SAE heaped bucket

| Load Point Height  | 10 ft. (3.05 m)                                | 15 ft. (4.57 m)                                | 20 ft. (6.10 m)                                | 25 ft. (7.62 m)                                | 30 ft. (9.14 m)                                | 35 ft. (10.7 m)                                |
|--------------------|------------------------------------------------|------------------------------------------------|------------------------------------------------|------------------------------------------------|------------------------------------------------|------------------------------------------------|
| 25 ft. (7.62 m)    |                                                |                                                |                                                |                                                | <b>9800 (4450)</b><br><b>11000 (4990)</b>      | <b>9800 (4450)</b><br><b>11000 (4990)</b>      |
| 20 ft. (6.10 m)    |                                                |                                                |                                                |                                                | <b>13100 (5940)</b><br><b>14300 (6490)</b>     | <b>13100 (5940)</b><br><b>14900 (6760)</b>     |
| 15 ft. (4.57 m)    |                                                |                                                |                                                | <b>15100 (6850)</b><br><b>17100 (7760)</b>     | <b>15100 (6850)</b><br><b>17100 (7760)</b>     | <b>14000 (6350)</b><br><b>15900 (7210)</b>     |
| 10 ft. (3.05 m)    |                                                | <b>31300 (14 200)</b><br><b>34900 (15 800)</b> | <b>31300 (14 200)</b><br><b>34900 (15 800)</b> | <b>22000 (9980)</b><br><b>24700 (11 200)</b>   | <b>17800 (8070)</b><br><b>18300 (8300)</b>     | <b>13400 (6080)</b><br><b>15500 (7030)</b>     |
| 5 ft. (1.52 m)     |                                                | <b>30600 (13 900)</b><br><b>32400 (14 700)</b> | <b>30600 (13 900)</b><br><b>32400 (14 700)</b> | <b>26800 (12 200)</b><br><b>30000 (13 600)</b> | <b>20500 (9300)</b><br><b>23100 (10 500)</b>   | <b>12800 (5810)</b><br><b>19400 (8800)</b>     |
| Ground Line        |                                                | <b>28000 (12 700)</b><br><b>29800 (13 500)</b> | <b>28000 (12 700)</b><br><b>29800 (13 500)</b> | <b>30100 (13 700)</b><br><b>33800 (15 300)</b> | <b>16400 (7440)</b><br><b>25600 (11 600)</b>   | <b>12300 (5580)</b><br><b>20900 (9480)</b>     |
| - 5 ft. (-1.52 m)  | <b>17000 (7710)</b><br><b>18100 (8210)</b>     | <b>17000 (7710)</b><br><b>18100 (8210)</b>     | <b>35500 (16 100)</b><br><b>35500 (16 100)</b> | <b>38200 (17 300)</b><br><b>40500 (18 400)</b> | <b>22500 (10 200)</b><br><b>22500 (10 200)</b> | <b>16000 (7260)</b><br><b>16000 (7260)</b>     |
| - 10 ft. (-3.05 m) | <b>32200 (14 600)</b><br><b>34100 (15 500)</b> | <b>32200 (14 600)</b><br><b>34100 (15 500)</b> | <b>35700 (16 200)</b><br><b>35700 (16 200)</b> | <b>42800 (19 400)</b><br><b>47800 (21 700)</b> | <b>22300 (10 100)</b><br><b>22300 (10 100)</b> | <b>31600 (14 300)</b><br><b>35400 (16 100)</b> |
| - 15 ft. (-4.57 m) | <b>49600 (22 500)</b><br><b>52500 (23 800)</b> | <b>49600 (22 500)</b><br><b>52500 (23 800)</b> | <b>36300 (16 500)</b><br><b>36300 (16 500)</b> | <b>39200 (17 800)</b><br><b>43900 (19 900)</b> | <b>22600 (10 300)</b><br><b>22600 (10 300)</b> | <b>29600 (13 400)</b><br><b>33200 (15 100)</b> |
| - 20 ft. (-6.10 m) |                                                | <b>32700 (14 800)</b><br><b>36800 (16 700)</b> | <b>32700 (14 800)</b><br><b>36800 (16 700)</b> | <b>23300 (10 600)</b><br><b>23300 (10 600)</b> | <b>25000 (11 300)</b><br><b>28100 (12 700)</b> | <b>16700 (7580)</b><br><b>16700 (7580)</b>     |

Equipped with 16 ft. 1 in. (4.9 m) long arm and 1.78 cu. yd. (1.36 m³) SAE heaped bucket

| Load Point Height  | 10 ft. (3.05 m)                                | 15 ft. (4.57 m)                                | 20 ft. (6.10 m)                                | 25 ft. (7.62 m)                                | 30 ft. (9.14 m)                                | 35 ft. (10.7 m)                                |
|--------------------|------------------------------------------------|------------------------------------------------|------------------------------------------------|------------------------------------------------|------------------------------------------------|------------------------------------------------|
| 25 ft. (7.62 m)    |                                                |                                                |                                                |                                                |                                                | <b>7870 (3570)</b><br><b>8870 (4020)</b>       |
| 20 ft. (6.10 m)    |                                                |                                                |                                                |                                                |                                                | <b>11500 (5220)</b><br><b>11500 (5220)</b>     |
| 15 ft. (4.57 m)    |                                                |                                                |                                                |                                                | <b>12700 (5760)</b><br><b>14400 (6530)</b>     | <b>12700 (5760)</b><br><b>14400 (6530)</b>     |
| 10 ft. (3.05 m)    |                                                |                                                |                                                | <b>16100 (7300)</b><br><b>18100 (8210)</b>     | <b>16100 (7300)</b><br><b>18100 (8210)</b>     | <b>14400 (6530)</b><br><b>16300 (7390)</b>     |
| 5 ft. (1.52 m)     |                                                | <b>35100 (15 900)</b><br><b>39200 (17 800)</b> | <b>35100 (15 900)</b><br><b>39200 (17 800)</b> | <b>24300 (11 000)</b><br><b>27200 (12 300)</b> | <b>18400 (8350)</b><br><b>18400 (8350)</b>     | <b>13700 (6210)</b><br><b>16300 (7390)</b>     |
| Ground Line        |                                                | <b>36100 (16 400)</b><br><b>37300 (16 900)</b> | <b>36100 (16 400)</b><br><b>37300 (16 900)</b> | <b>24200 (11 000)</b><br><b>24200 (11 000)</b> | <b>28600 (13 000)</b><br><b>32000 (14 500)</b> | <b>17400 (7890)</b><br><b>21900 (9930)</b>     |
| - 5 ft. (-1.52 m)  | <b>16500 (7480)</b><br><b>17600 (7980)</b>     | <b>16500 (7480)</b><br><b>17600 (7980)</b>     | <b>36100 (16 400)</b><br><b>36100 (16 400)</b> | <b>37400 (17 000)</b><br><b>39600 (18 000)</b> | <b>23200 (10 500)</b><br><b>23200 (10 500)</b> | <b>31300 (14 200)</b><br><b>35000 (15 900)</b> |
| - 10 ft. (-3.05 m) | <b>26200 (11 900)</b><br><b>27800 (12 600)</b> | <b>26200 (11 900)</b><br><b>27800 (12 600)</b> | <b>35900 (16 300)</b><br><b>35900 (16 300)</b> | <b>44800 (20 300)</b><br><b>49900 (22 600)</b> | <b>22800 (10 300)</b><br><b>22800 (10 300)</b> | <b>32300 (14 700)</b><br><b>36200 (16 400)</b> |
| - 15 ft. (-4.57 m) | <b>38500 (17 500)</b><br><b>40700 (18 500)</b> | <b>38500 (17 500)</b><br><b>40700 (18 500)</b> | <b>36100 (16 400)</b><br><b>36100 (16 400)</b> | <b>42900 (19 500)</b><br><b>47800 (21 700)</b> | <b>22800 (10 300)</b><br><b>22800 (10 300)</b> | <b>31700 (14 400)</b><br><b>35400 (16 100)</b> |
| - 20 ft. (-6.10 m) | <b>54600 (24 800)</b><br><b>58900 (26 700)</b> | <b>54600 (24 800)</b><br><b>58900 (26 700)</b> | <b>39600 (16 700)</b><br><b>39600 (16 700)</b> | <b>38400 (17 400)</b><br><b>43000 (19 500)</b> | <b>23200 (10 500)</b><br><b>23200 (10 500)</b> | <b>28900 (13 100)</b><br><b>32400 (14 700)</b> |
| - 25 ft. (-7.62 m) |                                                | <b>30200 (13 700)</b><br><b>33900 (15 400)</b> | <b>30200 (13 700)</b><br><b>33900 (15 400)</b> | <b>22600 (10 300)</b><br><b>24200 (11 000)</b> | <b>22600 (10 300)</b><br><b>25500 (11 600)</b> |                                                |

## 992D-LC EXCAVATOR LIFT CAPACITIES

Rated at bucket lift hook, machine equipped with 30-in. (750 mm) shoes, 2.75 cu. yd. (2.07 m<sup>3</sup>) SAE heaped bucket and standard counterweight, situated on firm, level, 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. All lift capacities are with heavy lifting system. Lift capacity is increased 2 percent if machine is equipped with optional 36-in. (900 mm) triple grouser shoes.

Note: Upper No.: Without heavy-lift system activated

Lower No.: With heavy-lift system activated

OVER SIDE

OVER END

### Equipped with 9 ft. 6 in. (2.9 m) arm and 2.75 cu. yd. (2.07 m<sup>3</sup>) SAE heaped bucket

| Load Point Height   | 10 ft. (3.05 m)                  | 15 ft. (4.57 m)                  | 20 ft. (6.10 m)                  | 25 ft. (7.62 m)                  | 30 ft. (9.14 m)                  | 35 ft. (10.7 m)                  |
|---------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| 25 ft. (7.62 m)     |                                  |                                  |                                  | 14600 (6620)<br>16500 (7480)     | 14600 (6620)<br>16500 (7480)     |                                  |
| 20 ft. (6.10 m)     |                                  |                                  |                                  | 15100 (6850)<br>17100 (7760)     | 15100 (6850)<br>17100 (7760)     |                                  |
| 15 ft. (4.57 m)     | 27200 (12 300)<br>30500 (13 800) | 27200 (12 300)<br>30500 (13 800) | 20100 (9120)<br>22600 (10 300)   | 16900 (7670)<br>19100 (8660)     | 13000 (5900)<br>15400 (6990)     | 15400 (6990)<br>17500 (7940)     |
| 10 ft. (3.05 m)     |                                  |                                  | 24500 (11 100)<br>24500 (11 100) | 17200 (7800)<br>17200 (7800)     | 12500 (5670)<br>12500 (5670)     | 16500 (7480)<br>18800 (8530)     |
| 5 ft. (1.52 m)      |                                  |                                  | 22900 (10 400)<br>22900 (10 400) | 16300 (7390)<br>16300 (7390)     | 12100 (5490)<br>12100 (5490)     | 17800 (8070)<br>20200 (9160)     |
| Ground Line         |                                  |                                  | 22100 (10 000)<br>22100 (10 000) | 15700 (7120)<br>15700 (7120)     | 11700 (5310)<br>11700 (5310)     | 18800 (8530)<br>20700 (9390)     |
| - 5 ft. (- 1.52 m)  |                                  | 35400 (16 100)<br>35400 (16 100) | 41900 (19 000)<br>46600 (21 100) | 31300 (14 200)<br>35100 (15 900) | 15400 (6990)<br>15400 (6990)     | 23900 (10 800)<br>27000 (12 200) |
| - 10 ft. (- 3.05 m) | 41700 (18 900)<br>44200 (20 000) | 41700 (18 900)<br>44200 (20 000) | 35900 (16 300)<br>35900 (16 300) | 22100 (10 000)<br>22100 (10 000) | 15500 (7030)<br>15500 (7030)     | 23100 (10 500)<br>26100 (11 800) |
| - 15 ft. (- 4.57 m) |                                  | 33700 (15 300)<br>36700 (16 600) | 33700 (15 300)<br>37900 (17 200) | 22700 (10 300)<br>22700 (10 300) | 26400 (12 000)<br>29700 (13 500) |                                  |

### Equipped with 12 ft. 10 in. (3.9 m) standard arm and 2.38 cu. yd. (1.82 m<sup>3</sup>) SAE heaped bucket

| Load Point Height   | 10 ft. (3.05 m)                  | 15 ft. (4.57 m)                  | 20 ft. (6.10 m)                  | 25 ft. (7.62 m)                  | 30 ft. (9.14 m)                  | 35 ft. (10.7 m)                  |
|---------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| 25 ft. (7.62 m)     |                                  |                                  |                                  |                                  | 9800 (4450)<br>11000 (4990)      | 9800 (4450)<br>11000 (4990)      |
| 20 ft. (6.10 m)     |                                  |                                  |                                  |                                  | 13100 (5940)<br>14300 (6490)     | 13100 (5940)<br>14900 (6760)     |
| 15 ft. (4.57 m)     |                                  |                                  |                                  | 15100 (6850)<br>17100 (7760)     | 15100 (6850)<br>17100 (7760)     | 13900 (6310)<br>14000 (6350)     |
| 10 ft. (3.05 m)     | 31300 (14 200)<br>34900 (15 800) | 31300 (14 200)<br>34900 (15 800) | 22000 (9980)<br>24700 (11 200)   | 17800 (8070)<br>18300 (8300)     | 17800 (8070)<br>20100 (9120)     | 15500 (7030)<br>17600 (7980)     |
| 5 ft. (1.52 m)      | 30600 (13 900)<br>32400 (14 700) | 30600 (13 900)<br>32400 (14 700) | 24300 (11 000)<br>24300 (11 000) | 17200 (7800)<br>17200 (7800)     | 20500 (9300)<br>23100 (10 500)   | 12800 (5810)<br>12800 (5810)     |
| Ground Line         | 28000 (12 700)<br>29800 (13 500) | 28000 (12 700)<br>29800 (13 500) | 23100 (10 500)<br>23100 (10 500) | 30100 (13 700)<br>33800 (15 300) | 16400 (7440)<br>16400 (7440)     | 22800 (10 300)<br>25600 (11 600) |
| - 5 ft. (- 1.52 m)  | 17000 (7710)<br>18100 (8210)     | 17000 (7710)<br>18100 (8210)     | 35500 (16 100)<br>35500 (16 100) | 38200 (17 300)<br>40500 (18 400) | 22500 (10 200)<br>22500 (10 200) | 31700 (14 400)<br>35500 (16 100) |
| - 10 ft. (- 3.05 m) | 32200 (14 600)<br>34100 (15 500) | 32200 (14 600)<br>34100 (15 500) | 35700 (16 200)<br>35700 (16 200) | 42800 (19 400)<br>47800 (21 700) | 22300 (10 100)<br>22300 (10 100) | 31600 (14 300)<br>35400 (16 100) |
| - 15 ft. (- 4.57 m) | 49600 (22 500)<br>52500 (23 800) | 49600 (22 500)<br>52500 (23 800) | 36300 (16 500)<br>36300 (16 500) | 39200 (17 800)<br>43900 (19 900) | 22600 (10 300)<br>22600 (10 300) | 29600 (13 400)<br>33200 (15 100) |
| - 20 ft. (- 6.10 m) |                                  | 32700 (14 800)<br>36800 (16 700) | 32700 (14 800)<br>36800 (16 700) | 23300 (10 600)<br>23300 (10 600) | 25000 (11 300)<br>28100 (12 700) | 16700 (7580)<br>16700 (7580)     |

### Equipped with 16 ft. 1 in. (4.9 m) long arm and 1.78 cu. yd. (1.36 m<sup>3</sup>) SAE heaped bucket

| Load Point Height   | 10 ft. (3.05 m)                  | 15 ft. (4.57 m)                  | 20 ft. (6.10 m)                  | 25 ft. (7.62 m)                  | 30 ft. (9.14 m)                  | 35 ft. (10.7 m)                  |
|---------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| 25 ft. (7.62 m)     |                                  |                                  |                                  |                                  |                                  | 7870 (3570)<br>8870 (4020)       |
| 20 ft. (6.10 m)     |                                  |                                  |                                  |                                  |                                  | 11500 (5220)<br>11500 (5220)     |
| 15 ft. (4.57 m)     |                                  |                                  |                                  |                                  | 12700 (5760)<br>14400 (6530)     | 12700 (5760)<br>14400 (6530)     |
| 10 ft. (3.05 m)     |                                  |                                  |                                  | 16100 (7300)<br>18100 (8210)     | 16100 (7300)<br>18100 (8210)     | 14400 (6530)<br>16300 (7390)     |
| 5 ft. (1.52 m)      |                                  | 35100 (15 900)<br>39200 (17 800) | 35100 (15 900)<br>39200 (17 800) | 24300 (11 000)<br>25900 (11 700) | 24300 (11 000)<br>27200 (12 300) | 18400 (8350)<br>18400 (8350)     |
| Ground Line         |                                  | 36100 (16 400)<br>37300 (16 900) | 36100 (16 400)<br>37300 (16 900) | 24200 (11 000)<br>24200 (11 000) | 28600 (13 000)<br>32000 (14 500) | 17400 (7890)<br>17400 (7890)     |
| - 5 ft. (- 1.52 m)  | 16500 (7480)<br>17600 (7980)     | 16500 (7480)<br>17600 (7980)     | 36100 (16 400)<br>36100 (16 400) | 37400 (17 000)<br>39600 (18 000) | 23200 (10 500)<br>23200 (10 500) | 31300 (14 200)<br>35000 (15 900) |
| - 10 ft. (- 3.05 m) | 26200 (11 900)<br>27800 (12 600) | 26200 (11 900)<br>27800 (12 600) | 35900 (16 300)<br>35900 (16 300) | 44800 (20 300)<br>49900 (22 600) | 22800 (10 300)<br>22800 (10 300) | 32300 (14 700)<br>36200 (16 400) |
| - 15 ft. (- 4.57 m) | 38500 (17 500)<br>40700 (18 500) | 38500 (17 500)<br>40700 (18 500) | 36100 (16 400)<br>36100 (16 400) | 42900 (19 500)<br>47800 (21 700) | 22800 (10 300)<br>22800 (10 300) | 31700 (14 400)<br>35400 (16 100) |
| - 20 ft. (- 6.10 m) | 54600 (24 800)<br>58900 (26 700) | 54600 (24 800)<br>58900 (26 700) | 39600 (16 700)<br>39600 (16 700) | 38400 (17 400)<br>43000 (19 500) | 23200 (10 500)<br>23200 (10 500) | 28900 (13 100)<br>32400 (14 700) |
| - 25 ft. (- 7.62 m) |                                  | 30200 (13 700)<br>33900 (15 400) | 30200 (13 700)<br>33900 (15 400) | 22600 (10 300)<br>22600 (10 300) | 25000 (11 300)<br>25000 (11 300) | 16600 (7530)<br>16600 (7530)     |

## ENGINE

It's John Deere-engineered and manufactured. Replaceable wet-type cylinder liners are spun cast and machined for uniform wall thickness to assure even heat dissipation. Piston spray cooling contributes to long component life. A dynamically-balanced crankshaft assures smooth operation. Turbocharged for maximum performance.

**Engine:** John Deere 6101A - Turbocharged and Aftercooled  
 Rated power at 2000 rpm.....285 SAE net hp (213 kW)  
 .....296 SAE gross hp (221 kW)  
 Cylinders .....6  
 Displacement .....619 cu. in. (10.145 L)  
 Maximum net torque at 1300 rpm .....955 lb.-ft. (1295 Nm)  
 Fuel consumption, typical .....6 to 10 gal./hr. (23 to 38 L/h)  
 Cooling fan .....suction type  
 Electrical system .....24-volt with 45-amp alternator  
 Batteries (two 12 volt).....reserve capacity: 180 min.

## HYDRAULIC SYSTEM

Sophisticated, yet simple; state-of-the-art, yet easy to operate. You get the best of both worlds with the 992E LC's hydraulic system. This open center system uses two axial piston pumps. A microprocessor ties the system with the engine to allow the operator to tailor hydraulic performance to particular job situations. A soft touch keypad control to the operator's right allows the desired performance to be tuned in with the touch of a button or two. This variable-flow system delivers smooth response even when the operator uses more than one function at the same time. The operator is in complete control at all times and can override any of the preset modes or engine settings with the simple touch of a button.

Main pumps .....2 variable-displacement axial pistons  
 Maximum rated flow .....2 x 95 gpm (2 x 360 L/min.)  
 Pilot pump .....one gear  
 Maximum rated flow .....9.3 gpm (35 L/min.)  
 Pressure setting .....655 psi (4510 kPa)  
 System operating pressure  
 Implement circuits .....4270 psi (29 440 kPa)  
 Travel circuits .....5050 psi (34 820 kPa)  
 Swing circuits .....3840 psi (26 480 kPa)  
 Power boost .....4480 psi (30 890 kPa)  
 Oil filtration  
 One 10-micron full-flow return filter with bypass  
 One pilot oil filter  
 One suction filter

| Cylinders       | Bore                 | Rod Diameter         | Stroke                |
|-----------------|----------------------|----------------------|-----------------------|
| Boom (2).....   | 6.69 in.<br>(170 mm) | 4.53 in.<br>(115 mm) | 62.6 in.<br>(1590 mm) |
| Arm (1).....    | 7.48 in.<br>(190 mm) | 5.12 in.<br>(130 mm) | 76.4 in.<br>(1940 mm) |
| Bucket (1)..... | 6.69 in.<br>(170 mm) | 4.53 in.<br>(115 mm) | 52.2 in.<br>(1325 mm) |

## SWING MECHANISM

Multiple planetary gearing is driven by two axial-piston, high-torque hydraulic motors. Ring and pinion gears are induction hardened for long life. The multiple, wet-disk swing brake is spring applied, hydraulically released. The single 90-ball swing bearing is sealed top and bottom.

Swing speed.....0-9 rpm

## UNDERCARRIAGE

Heavy-duty rollers and chain are designed to stand up to the side-to-side stress of excavator work. The strong box-section track frame comes with three track guides.

|                                             |                         |
|---------------------------------------------|-------------------------|
| Carrier rollers (per side) .....            | 3                       |
| Track rollers (per side) .....              | 9                       |
| Idlers (per side).....                      | 1                       |
| Shoes, triple semigrouser (per side).....   | 53                      |
| Track guides .....                          | 3                       |
| Track adjustment.....                       | hydraulic               |
| Travel speed .....                          | Low Medium High         |
| mph                                         | 0-1.6 0-2.1 0-3.4       |
| km/h                                        | (0-2.5) (0-3.4) (0-5.5) |
| Drawbar pull.....                           | 79,590 lb. (354 kN)     |
| Tractive gradability .....                  | 140% (54 deg.)          |
| Off-level operating limit for oil sump..... | 100% (45 deg.)          |

### Ground Pressure Data

| Shoe Width/<br>Grouser    | Average Ground<br>Pressure | Recommended<br>Application  |
|---------------------------|----------------------------|-----------------------------|
| 30 in./triple<br>(750 mm) | 8.69 psi<br>(59.9 kPa)     | Rocky terrain and<br>stumps |
| 36 in./triple<br>(900 mm) | 7.26 psi<br>(50.1 kPa)     | General/soft<br>terrain     |

## CAPACITIES

|                                      |                  |
|--------------------------------------|------------------|
| Fuel tank .....                      | 156 gal. (590 L) |
| Cooling system.....                  | 40 qt. (38 L)    |
| Engine lubrication with filter ..... | 36 qt. (34 L)    |
| Hydraulic system .....               | 137 gal. (520 L) |
| Hydraulic tank .....                 | 62 gal. (235 L)  |
| Propel gearbox (each side).....      | 9 qt. (8.5 L)    |
| Swing gear reduction (each).....     | 6 qt. (5.7 L)    |
| Pump drive gearbox.....              | 2 qt. (1.9 L)    |

## OPERATING WEIGHTS

| Weights                                                                                                                                                                           | lb.    | kg     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------|
| Operating weight with full fuel tank, 175-lb. (79 kg) operator, 36-in. (900 mm) triple grouser shoes, 12 ft. 10 in. (3.9 m) arm, 2.45 cu. yd. (1.87 m <sup>3</sup> ) bucket ..... | 97,600 | 44 270 |
| Undercarriage:                                                                                                                                                                    |        |        |
| 30-in. (750 mm) shoes.....                                                                                                                                                        | 39,242 | 17 800 |
| 36-in. (900 mm) shoes.....                                                                                                                                                        | 39,462 | 17 900 |
| <b>Component Weights:</b>                                                                                                                                                         |        |        |
| Upperstructure with full fuel tank (less front attachments and 18,100 lb. [8200 kg] counterweight).....                                                                           | 20,062 | 9100   |
| One-piece boom (with arm cylinder).....                                                                                                                                           | 9,017  | 4090   |
| Arm, 9 ft. 6 in. (2.9 m) with bucket cylinder and linkage.....                                                                                                                    | 5,082  | 2305   |
| Arm, 12 ft. 10 in. (3.9 m) with bucket cylinder and linkage.....                                                                                                                  | 5,357  | 2430   |
| Arm, 16 ft. 1 in. (4.9 m) with bucket cylinder and linkage.....                                                                                                                   | 5,137  | 2330   |
| Boom lift cylinders (2) total weight.....                                                                                                                                         | 1,856  | 842    |
| 2.45 cu. yd. (1.87 m <sup>3</sup> ), 54-in. (1370 mm) bucket.....                                                                                                                 | 3,578  | 1623   |
| Counterweight.....                                                                                                                                                                | 18,100 | 8200   |