### SPECIFICATIONS

#### 280 Skid Steer

**Engine:**
- **Make:** John Deere
- **Model:** 4045T
- **Type:** Diesel
- **Cylinders:** 4
- **Bore:** 106 mm (4.17-in.)
- **Stroke:** 127 mm (5-in.)
- **Displacement:** 4.5 L (276 cu. in.)
- **Gross horsepower (SAE J1940):** 67.1 kW (90 hp) @ 2400 rpm
- **Net horsepower (SAE J1940):** 63.4 kW (85 hp) @ 2400 rpm
- **Torque rise:** 25%
- **RPM, rated:** 2400
- **RPM, slow (no load):** 1000
- **RPM, fast (no load):** 2525
- **Lubrication:** Full pressure
- **Crankcase capacity (with filter):** 12 L (12.7 qt.)
- **Cooling system:** Liquid
- **Coolant capacity radiator and block:** 13.4 L (14.2 qt.)
- **Air filter type:** Dry paper with primary and secondary elements

#### Electrical:
- **Type of starter:** 4.2 kW Valeo
- **Battery voltage:** 12 V
- **Battery reserve capacity at 27°C (80°F):** 180 minutes
- **Battery cold cranking amps at -18°C (0°F):** 950
- **Charging system:** 55 amp alternator

#### Fuel System:
- **Fuel:** Diesel #2
- **Capacity:** 91 L (24 gal.)
- **Fuel delivery:** Rotary injection
- **Fuel shut-off:** Fuel shutoff solenoid in injection pump

#### Powertrain:
- **Type:** Variable displacement
- **Brakes:** Wet disk on hydrostatic motorshaft—SAHR (spring-applied/hydraulic-release)

#### Steering:
- **Type:** Servo-controlled hydrostatic

#### Hydraulics:
- **Main system relief pressure:** 21374 kPa (3100 psi)
- **Hydraulic pump (standard flow):** 106 lpm (21.3 gpm)
- **Hydraulic pump (high flow):** 157 lpm (41.5 gpm)
- **Hydraulic valve:** 3-spool open center
- **Hydraulic system capacity:** 34.1 L (9 gal.)
- **Built-in boom locks:** Yes
- **Self-leveling:** Optional - hydraulic
- **Cushioned down boom and raise cylinders:** Standard

#### Performance:
- **SAE rated operating capacity:** 1451 kg (3200 lb.)
- **SAE rated operating capacity with counterweights:** 1591 kg (3500 lb.)
- **SAE breakout force (bucket):** 5262 kg (11,600 lb.)
- **SAE breakout force (boom):** 3016 kg (6650 lb.)
- **Ground speed:**
  - **Single speed:** 11.3 km/h (7.0 mph)
  - **Low range (dual speed):** 11.3 km/h (7.0 mph)
  - **High range (dual speed):** 19.3 km/h (12.0 mph)
- **Axle torque:** 9038 Nm (6666 lb-ft)
- **SAE operating weight:** 4173 kg (9200 lb.)
- **SAE tipping load:** 3175 kg (7000 lb.)
DIMENSIONS

A. Overall Operating Height - mm (in.) ........ 4000 (157.5)
B. Height to Hinge Pin - mm (in.) ........... 3226 (127)
C. Dump Height - mm (in.) .................. 2591 (102)
D. Dump Angle - degrees .................... 45
E. Bucket Rollback - degrees ............... 35
F. Dump Reach - mm (in.) ................. 813 (32)
G. Height to ROPS - mm (in.) ............. 2105 (82.9)
H. Angle of Departure - degrees ........... 27
I. Ground Clearance - mm (in.) .......... 241 (9.5)
J. Wheelbase - mm (in.) .................. 1235 (48.6)
K. Overall Length less Bucket - mm (in.) 2921 (115)
L. Overall Length with Bucket - mm (in.) 3504 (138)
M. Overall Width with Bucket - mm (in.) 1981 (78)
N. Turning Radius (Front) - mm (in.) .. 2126 (83.7)
O. Wheel Tread - mm (in.) .............. 1589 (62.6)
P. Overall Width less Bucket - mm (in.) 1961 (77.2)
Q. Turning Radius (Rear) - mm (in.) .... 1752 (69)
R. Height to Axle Center Point - mm (in.) 447 (17.6)

Notes:
1) Performance based on skid steer equipped with 14.00 x 17.5 SKS Hauler (280) tires, auxiliary boom hydraulics, 78-in. heavy-duty foundry bucket, full fuel tank, and 75 kg (165 lb.) operator per SAE Standard J732.
2) Various dimensions for skid steers equipped with non-standard buckets or tires can be found in the chart at the end of this section.