

PRODUCT SPECIFICATIONS FOR 301.6

ENGINE

| | |
|--|---|
| Net Power | 21 HP 15.7 kW |
| Engine Model | C1.1 C1.1 |
| Bore | 3 in 77 mm |
| Note (2) | Net power advertised is the power available at the flywheel when the engine is at rated speed and rated power when the engine is installed with the factory configured fan, air intake system, exhaust system, and alternator with a minimum alternator load. Net power advertised is the power available at the flywheel when the engine is at rated speed and rated power when the engine is installed with the factory configured fan, air intake system, exhaust system, and alternator with a minimum alternator load. |
| Stroke | 3.2 in 81 mm |
| Displacement | 69 in ³ 1.1 l |
| Note (1) | Engine power is tested per ISO 14396:2002. Engine power is tested per ISO 14396:2002. |
| Emissions | Meets U.S. EPA Tier 4 Final and EU Stage V emission standards. Meets U.S. EPA Tier 4 Final and EU Stage V emission standards. |
| Note | Net power is tested per ISO 9249:2007 and 80/1269/EEC. Net power is tested per ISO 9249:2007 and 80/1269/EEC. |
| Net Power - 2,400 rpm - ISO 9249, 80/1269/EEC | 21 HP 15.7 kW |
| Gross Power - SAE J1995:2014 | 21.6 HP 16.1 kW |

WEIGHTS

Operating Weight 4317 lb 1958 kg

Note (2) **Maximum Weight is based on steel tracks, operator, expandable undercarriage and full fuel tank. **Maximum Weight is based on steel tracks, operator, expandable undercarriage and full fuel tank.

Maximum Operating Weight with Cab** 4317 lb 1958 kg

Minimum Operating Weight with Cab* 3891 lb 1765 kg

Note (1) *Minimum Weight is based on rubber tracks, operator, fixed undercarriage and full fuel tank. *Minimum Weight is based on rubber tracks, operator, fixed undercarriage and full fuel tank.

EU: CE Plate Weight*** 4244 lb 1925 kg

Note (3) ***CE Plate Weight is based on the most common EU configuration. Includes 75 kg (165 lb) operator and full fuel tank and excludes bucket. ***CE Plate Weight is based on the most common EU configuration. Includes 75 kg (165 lb) operator and full fuel tank and excludes bucket.

DIMENSIONS - LONG STICK

Dig Depth 100 in 2540 mm

Boom Swing - Left 65 ° 65 °

Boom Height - Shipping Position 40.9 in 1040 mm

Maximum Blade Depth 10.2 in 260 mm

| | |
|---|------------------|
| Stick Length | 45.7 in 1160 mm |
| Track Belt/Shoe Width | 9.1 in 230 mm |
| Tail Swing | 39.2 in 995 mm |
| Track Width - Expanded | 51.18 in 1300 mm |
| Maximum Blade Height | 10.8 in 275 mm |
| Boom Swing - Right | 50 ° 50 ° |
| Vertical Wall | 74.4 in 1890 mm |
| Maximum Reach | 155.9 in 3960 mm |
| Maximum Dump Clearance | 98.8 in 2510 mm |
| Maximum Reach - Ground Level | 153.1 in 3890 mm |
| Track Width - Retracted | 39 in 990 mm |
| Boom In Reach | 57.1 in 1450 mm |
| Overall Shipping Length* | 152 in 3860 mm |
| Maximum Dig Height | 137.4 in 3490 mm |
| O/A Shipping Height | 90.9 in 2310 mm |
| Swing Bearing - Height | 17.5 in 445 mm |
| Minimum Ground Clearance Below Undercarriage | 6.1 in 155 mm |

| | |
|---------------------------------|-----------------|
| O/A Undercarriage Length | 57.5 in 1460 mm |
|---------------------------------|-----------------|

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|-------------|--|
| Note | *Overall Shipping Length depends on blade position during shipment. *Overall Shipping Length depends on blade position during shipment. |
|-------------|--|

BLADE

| | |
|---------------|---------------|
| Height | 8.9 in 225 mm |
|---------------|---------------|

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|---------------|--------------|
| Width* | 39 in 990 mm |
|---------------|--------------|

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|-------------|---|
| Note | *Expanded – 1300 mm (51 in) *Expanded – 1300 mm (51 in) |
|-------------|---|

DIMENSIONS - STANDARD STICK

| | |
|---------------------------|-----------|
| Boom Swing - Right | 50 ° 50 ° |
|---------------------------|-----------|

| | |
|---|---------------|
| Minimum Ground Clearance Below Undercarriage | 6.1 in 155 mm |
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|-------------------------------------|------------------|
| Maximum Reach - Ground Level | 146.9 in 3730 mm |
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|-------------------------------|-----------------|
| Maximum Dump Clearance | 96.5 in 2450 mm |
|-------------------------------|-----------------|

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|------------------|-----------------|
| Dig Depth | 92.1 in 2340 mm |
|------------------|-----------------|

| | |
|---------------------------------|-----------------|
| O/A Undercarriage Length | 57.5 in 1460 mm |
|---------------------------------|-----------------|

| | |
|-------------------------------|------------------|
| Track Width - Expanded | 51.18 in 1300 mm |
|-------------------------------|------------------|

| | |
|-------------------|----------------|
| Tail Swing | 39.2 in 995 mm |
|-------------------|----------------|

| | |
|---------------------------------|------------------|
| Overall Shipping Length* | 142.5 in 3620 mm |
|---------------------------------|------------------|

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|--|--|
| Maximum Blade Depth | 10.2 in 260 mm |
| Swing Bearing - Height | 17.5 in 445 mm |
| Maximum Reach | 149.6 in 3800 mm |
| O/A Shipping Height | 90.9 in 2310 mm |
| Track Belt/Shoe Width | 9.1 in 230 mm |
| Note | *Overall Shipping Length depends on blade position during shipment. *Overall Shipping Length depends on blade position during shipment. |
| Track Width - Retracted | 39 in 990 mm |
| Stick Length | 37.8 in 960 mm |
| Boom Height - Shipping Position | 42.9 in 1090 mm |
| Maximum Dig Height | 135 in 3430 mm |
| Vertical Wall | 70.9 in 1800 mm |
| Boom Swing - Left | 65 ° 65 ° |
| Boom In Reach | 57.5 in 1460 mm |
| Maximum Blade Height | 10.8 in 275 mm |

SERVICE REFILL CAPACITIES

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|-------------------------|-------------------|
| Cooling System | 1 gal (US) 3.9 l |
| Hydraulic Tank | 4.8 gal (US) 18 l |
| Hydraulic System | 6.9 gal (US) 26 l |

Engine Oil

1.2 gal (US) 4.4 l

Fuel Tank

5.8 gal (US) 22 l

CERTIFICATION - CAB

Roll Over Protective Structure (ROPS)

ISO 12117-2:2008 ISO 12117-2:2008

Tip Over Protective Structure (TOPS)

ISO 12117:1997 ISO 12117:1997

Top Guard

ISO 10262:1998 (Level I) ISO 10262:1998 (Level I)

HYDRAULIC SYSTEM

**Auxiliary Circuit -
Primary - Flow**

8.7 gal/min 33 l/min

**Auxiliary Circuit -
Secondary - Pressure**

3089.3 psi 213 bar

**Auxiliary Circuit -
Primary - Pressure**

3089.3 psi 213 bar

**Auxiliary Circuit -
Secondary - Flow**

3.7 gal/min 14 l/min

**Digging Force - Stick -
Long**

1616.4 lbf 7.2 kN

Type

Load Sensing Hydraulics with Variable Displacement Piston Pump Load
Sensing Hydraulics with Variable Displacement Piston Pump

**Operating Pressure -
Travel**

3089.3 psi 213 bar

**Operating Pressure -
Equipment**

3089.3 psi 213 bar

Operating Pressure - Swing 1493.9 psi 103 bar

Digging Force - Stick - Standard 1843.4 lbf 8.2 kN

Digging Force - Bucket 3169.8 lbf 14.1 kN

Pump Flow at 2,400 rpm 17.4 gal/min 66 l/min

TRAVEL SYSTEM

Travel Speed - Low 1.8 mile/h 2.9 km/h

Maximum Traction Force - Low Speed 3574.5 lbf 15.9 kN

Maximum Traction Force - High Speed 2293.1 lbf 10.2 kN

Travel Speed - High 2.7 mile/h 4.4 km/h

Gradeability - Maximum 30 degrees 30 degrees

Ground Pressure - Minimum Weight 4.4 psi 30.5 kPa

Ground Pressure - Maximum Weight 4.9 psi 34 kPa

WEIGHT INCREASE FROM MINIMUM CONFIGURATION

Steel Tracks 126 lb 57 kg

Long Stick 18 lb 8 kg

Expandable Undercarriage 282 lb 128 kg

SOUND

Note

European Union Directive “2000/14/EC” European Union Directive “2000/14/EC”

Average Exterior Sound Pressure (ISO 6395:2008)

93 dB(A) 93 dB(A)

Operator Sound Pressure (ISO 6396:2008)

73 dB(A) 73 dB(A)

SWING SYSTEM**Machine Swing Speed**

9.8 r/min 9.8 r/min

301.6 STANDARD EQUIPMENT

ENGINE

Cat C1.1 Engine (U.S. EPA Tier 4 Final/EU Stage V)
Automatic Engine Idle
Automatic Engine Shutdown
Automatic Two Speed Travel
Fuel Water Separator
Power on Demand (not available in all regions)
Variable Displacement Piston Pump
Load Sensing/Flow Sharing Hydraulics

HYDRAULICS

Smart Tech Electronic Pump
Accumulator
Automatic Swing Brake
Auxiliary Hydraulic Lines
One and Two Way Auxiliary Flow
Continuous Auxiliary Flow
Auxiliary Line Quick Disconnects

OPERATOR ENVIRONMENT

Tilt-up Canopy or Tilt-Up Cab
Top Guard ISO 10262:1998 Level I
ROPS – ISO 12117-2:2008
TOPS – ISO 12117:1997
Machine 2-Point Lifting
Stick Steer Mode
Travel Cruise Control
Control Pattern Changer (optional in some regions)
Adjustable Wrist Rests
Washable Floor Mat

Travel Pedals and Hand Levers
Machine Security
Machine Security – Standard Key with Pass Code
Fabric Suspension Seat (Cab only)
Hydraulic Lockout – All Controls
Retractable High Visibility Seat Belt (75 mm/3 in)
Coat Hook
Cup Holder
Storage Pocket
Skylight
Mounting Bosses for Front
Signaling/Warning Horn
Interior Light (Cab only)
Boom Light, Halogen
Utility Space for Mobile Phone
Next Generation Color LCD Monitor (IP66)
Gauges

UNDERCARRIAGE

Expandable Undercarriage
Rubber Belt (230 mm/9 in wide)
Dozer Blade
Dozer Blade Float
Hydraulic Track Adjusters
Tie Downs on Track Frame

BOOM, STICK AND LINKAGES

One Piece Boom (1850 mm/73 in)
Standard Stick (960 mm/37.8 in)
Front Shovel Capable
Front Shovel Capable – Pin-On
Thumb Ready (not available in all regions)
Certified Lifting Eye (optional in some regions)

ELECTRICAL

12 Volt Battery
Software (machine and monitor)
Maintenance Free Battery
Signaling/Warning Horn
12 Volt Power Socket

301.6 OPTIONAL EQUIPMENT

OPERATOR ENVIRONMENT

Cab with Air Conditioning

Cab with Heater

Control Pattern Changer (optional in some regions)

No Travel Pedals and Hand Levers

Machine Security – Push to Start with Key Fob/Pass Code

LED Front Lights

LED Front and Rear Lights

LED Boom Light

Mirrors Left and Right

Radio – Bluetooth®, Auxiliary, Microphone, USB (charging only) (Cab only)

UNDERCARRIAGE

Steel Track (230 mm/9 in wide)

BOOM, STICK AND LINKAGES

Long Stick (1160 mm/45.7 in)

Front Shovel Capable – Dual Lock Manual Coupler

Attachments including Couplers, Thumbs, Buckets, Augers and Hammers

2nd Auxiliary Hydraulic Lines

Boom Lowering Check Valve

Stick Lowering Check Valve

Hydraulic Quick Coupler Lines (not available in all regions)

ELECTRICAL

Battery Disconnect

Product Link PL243 (regulations apply)

Product Link PLE643 (regulations apply)

Travel Alarm (standard in some regions)

GUARDING

Guard, Canopy

Guard, Mesh

OTHER

Bio Oil Capable

Eco Drain

Water Jacket Heater