<table>
<thead>
<tr>
<th>NET POWER</th>
<th>LT/XLT</th>
<th>LGP</th>
</tr>
</thead>
<tbody>
<tr>
<td>145 kW/194 hp</td>
<td>157 kW/211 hp</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MAX OPERATING WEIGHT:</th>
<th>LT</th>
<th>XLT</th>
<th>LGP</th>
</tr>
</thead>
<tbody>
<tr>
<td>- STEERING CLUTCH VERSION</td>
<td>Kg 20 200</td>
<td>21 300</td>
<td>-</td>
</tr>
<tr>
<td>- POWER STEERING VERSION</td>
<td>Kg 20 530</td>
<td>21 750</td>
<td>22 730</td>
</tr>
</tbody>
</table>
THE CAB
Ample glass area for all-round visibility to the blade cutting edge and rear to the ripper. Integral ROPS (ISO3471 / EN13510) and FOPS (EN ISO 3449) to grant maximum operator safety in a roomy and comfortable interior.

TRANSMISSION CONTROLS
All controls are fingertip type. Steering control with electro proportional levers, speed control with push buttons and forward/reverse selection with a rotating switch. Two standard automatic controls for gear selection: Auto Shift for forward/reverse selection and Auto Kick down for automatic downshifting when engine rpm drops below a set threshold.

BLADE CONTROL
Implement controls are electro-hydraulic piloted to minimise operating effort and ensure outstanding controllability. Blade control is with a single lever. Automatic blade control systems (Laser & GPS) can be easily adapted by the electro-hydraulic control.
ACCESSIBILITY TO THE OPERATOR COMPARTMENT

Easy access to operator compartment from both sides, with wide access doors.

THE INSTRUMENT PANEL

The easy-to-read instrument panel features immediate vital machine function monitoring. It includes diagnostic functions.

ADJUSTABLE ARMRESTS

For operator comfort, the left transmission/steering armrest has three-way adjustment: vertical, longitudinal and angular, whilst the right armrest has two: vertical and angular.

HEATING/CONDITIONING SYSTEM

The air conditioning system is supplied on request directly from the plant. Powerful multi-outlet adjustable vents ensure excellent cab ventilation and conditioning.

OPERATOR SEAT

The cloth covered seat is adjustable to operator weight. Length and backrest position can also be adjusted. Air suspended seat available as optional.

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The cloth covered seat is adjustable to operator weight. Length and backrest position can also be adjusted. Air suspended seat available as optional.
The steering brakes and clutches are oil bath disc type, virtually maintenance-free. Steering brakes and clutches are modular, for independent and easier serviceability.

In the Power Steering version a hydraulic powered motor is actuating epicycloidal reduction gears that replace the steering clutches. The reduction gears on both sides generate different speeds in the output gear of each track, to enable machine turning. At any time during a turn 100% of the engine power is transmitted to the tracks enabling smooth and powerful turns. Possible counter-rotation minimises the turning radius. Excellent manoeuvrability and Shock-free steering minimises operator fatigue and reduces machine down time.

The D180 respects the European "reduced noise level" as per directive 2000/14/EC.

THE CHOICE BETWEEN TWO STEERING SYSTEMS

STEERING/BRAKE CLUTCHES

HYDROSTATIC DIFFERENTIAL "POWER STEERING"
**PRODUCTIVITY**

**GROUND CLEARANCE**
Undercarriage hinging is independent from the final gear shaft, thereby eliminating the need for diagonal booms below the final drive and increasing ground clearance.

**STABILITY**
Some design decisions made during product development have boosted the D180 pushability and levelling performance.
- The centre of gravity at only 78 cm height from the ground and 157 cm from the sprocket axis ensures outstanding stability.
- Push beam to undercarriage and undercarriage to frame hinging are differentiated to guarantee optimum balance between machine weight and beam push. This prevents the undercarriage front from sinking into the ground, as would occur with coincident fulcrums, and the tendency to lift, which would happen if they were too far apart.

**AUTOMATIC TRANSMISSION**
Speed selection and forward/reverse control are actuated by the operator without moving his hands and wrists. Two electro proportional levers control brakes and steering clutches or Power Steering.
A rotating switch selects forward and reverse direction. Two push buttons control up and down shifting.
Two automatic control modes are available:
- Auto Kick Down, for automatic downshifting when engine rpm decreases below a set value.
- Auto shift, to 1st gear when selecting forward and to 2nd gear when selecting reverse.
Easy and intuitive controls mean the operator's attention can concentrate on the implement increasing efficiency and productivity.

**IMPLEMENT CONTROL**
Implement control is electro - hydraulic piloted for precise movements with low actuating effort and short strokes. Operating ergonomics and comfort translate into better performance.

**VISIBILITY**
Excellent night visibility is granted by two front and two rear flood lights. Four front lights are available as optional.
D180

POWER STEERING

A hydraulic motor increases the speed of one track and decreases the speed of the opposite one to generate power steering.

- The same productivity when digging on a curve or straight ahead.
- Better direction control on slopes.
- Straight-ahead travel when corner digging and on rough terrain.
- Less stress to the transmission, reduction gears and chains.
- Progressive steering without jerks or power loss to the tracks.
- Improved operating comfort.

IMPLEMENTS

LT and XLT versions feature three types of blades: Semi-U, Angle and Straight offering to the customer the best possible choice for his job. The LGP version features a straight blade. In addition, all New Holland models offer two sizes of PAT blades, which feature increased levelling accuracy.

EQUISTATIC

New Holland HSU blades have the exclusive Equistatic device: it features a better distribution of linear and torsional stresses to both push beams for a better balance and components reliability.

FLOTATION

The outstanding length of track on ground for all models ensures excellent flotation. The large diameter idler prevents vibrations caused by wide link pitch and ensures precise levelling jobs. It also relieves carrier rollers from traction stress.

BLADE VISIBILITY

New Holland machine is designed to assure the best visibility of the cutting edge thanks to the shape of the cab, with its wide glass areas to the front right and left hand sides and to the tapered engine hood.
ACCESSIBILITY

The cab is tilted with an hydraulic cylinder and features exceptional accessibility to the hydraulic pumps and transmission components, for easy field maintenance. The hinged side panels of the engine compartment and those on the side of the cab ensure quick checks of many vital components for long, trouble-free machine life.

HINGED ENGINE SUMP GUARD

The engine sump guard is a rugged hinged plate that is easily opened without having to handle heavy weights in uncomfortable positions.

BELT TENSIONING

Alternator control belt tensioning is automatic.

FUSES BOX

Fuses are provided with system identification decals and are contained in an easily accessible box inside the cab.
**SPECIFICATIONS**

### ENGINE TIER 3A

- **Net power at 2000 rpm**
  - LT/XLT version (ISO 14396/ECE R120)..................145 kW/194 hp
  - LGP version (ISO 14396/ECE R120)..................157 kW/211 hp

- **Make and model**:
  - CNH 667TA

- **Type**:
  - Diesel, Common rail, 4 valves, turbo, aftercooled, electronic injection

- **Number of cylinders**.................6
- **Bore x stroke**..............................104 x 132 mm
- **Displacement**..............................6.7 l
- **Maximum torque at 1400 rpm**......86 daNm (LGP = 95 daNm)

- **Engine emission** in accordance with directive 97/68/EC TIER 3A

- **The engine conforms to European requirements for “low exhaust emission” in accordance with directive 97/68/EC TIER 3A**

### ELECTRICAL SYSTEM

- **Voltage**..........................................................24 V
- **Battery**............................................................2
- **Rating (total)**.......................................................160 Ah
- **Starter**..............................................................7.8 kW
- **Alternator**...........................................................65 A

### TORQUE CONVERTER

- **Type**..............................................................single stage, rotating housing
- **Torque multiplication**.................................2.28 : 1

### TRANSMISSION

- **Type**..............................................................full PowerShift, countershaft, constant mesh
- **Control modulation**...........................................5 modulation valves (2 for direction +3 for shifting)

- **Control**.............................................................Touch-shift buttons for upshift and downshift rotational direction control for forward, neutral and reverse.
- **Automatic shifting**.............................................Auto Shift allows the operator to pre-select the 1st speed forward and 2nd speed reverse at directional change.

### FINAL DRIVES

- **Type**..............................................................double reduction, modular assembly
- **Ratio**.................................................................1 to 12.286

### STEERING (STEERING CLUTCH VERSION)

- **Hydraulically applied, spring released multi-disc oil bath steering clutches.**
- **Spring applied, hydraulically released multi-disc oil bath brakes.**

### SERVICE BRAKES

- **Spring applied, hydraulically released multi-disc oil bath brakes.**

### TRACK

- **Box section track frames. Oscillating type.**
- **Hydraulic track adjusters. Sprockets with bolt-on segments, anti-packing tooth profile.**
- **Track bushings with greater diameter at the rolling area.**
- **Sealed and lubricated track with split master link.**

### BRAKES

- **Spring applied, hydraulically released multi-disc oil bath brakes.**

### STEERING (POWER STEERING VERSION)

- **Hydraulic motor and epicyclic unit control hydrostatic steering system.**
- **Epicyclical reduction gears on both sides replace steering clutches. A hydraulic motor makes the epicyclidal reduction gear solars rotate in the opposite direction to generate different speeds in the output gear carriers and therefore steering. Counter-rotation is obtained if the hydraulic motor is actuated with the machine motionless.**

### SAFETY DEVICE

- **Safety device: either of the two levers in the lock position inhibits transmission and automatically engages parking brakes.**

### TRACK SHOE SPECIFICATIONS

- **LT**
  - **Fwd: 1st** km/h 4.3, KN 290, 2nd km/h 6.7, KN 165, 3rd km/h 10.9, KN 93
  - **Rev: 1st** km/h 5.2, KN 228, 2nd km/h 8.4, KN 129, 3rd km/h 13.0, KN 72
- **XLT**
  - **Fwd: 1st** km/h 4.3, KN 290, 2nd km/h 6.7, KN 165, 3rd km/h 10.9, KN 93
  - **Rev: 1st** km/h 5.2, KN 228, 2nd km/h 8.4, KN 129, 3rd km/h 13.0, KN 72
- **LGP**
  - **Fwd: 1st** km/h 4.3, KN 290, 2nd km/h 6.7, KN 165, 3rd km/h 10.9, KN 93
  - **Rev: 1st** km/h 5.2, KN 228, 2nd km/h 8.4, KN 129, 3rd km/h 13.0, KN 72

*Ground pressure may vary according to machine configuration.
HYDRAULIC SYSTEM

Closed-centre load sensing system designed for precise and responsive control, and for efficient simultaneous operations. It utilises a feedback loop from the implement valve to the pump to monitor the hydraulic power. The pump flow is regulated to only what is needed, thus reducing the engine power requirement for the hydraulics and fuel consumption and increasing the machine production.

Control system.......................... electro proportional
Pump........................................ variable displacement piston pump
Capacity at rated speed...................... 250 l/min
Relief valve pressure...................... 190 bar
Standard control valve ....................... four spools with safetylock device
 Optional (for Pat blade)....................... five spools with safety lock device
Actuation (HA, HS, HSU blade).............. single lever
Actuation (for Pat blade).................... single lever with twist function
Dozer circuit .................................. raise, hold, lower, float
Tilt circuit .................................. left, hold, right
PAT circuit .................................. left angle, right angle
Auxiliary circuit........................... for ripper or other attachments

Double acting cylinder control
- Blade, with quick drop and travel limit valves ................................. 2
- Rod x Bore x stroke ........................................ 60 x 95 x 1250 mm
- Tilt (HSU) ........................................................ 70 x 140 x 126 mm
- Tilt (HA) .......................................................... 63 x 110 x 124 mm

Hydraulic oil level sight gauge reservoir.

CAPACITIES

Lubricating oil .................................. 19
Coolant................................................. 25
Fuel tank.............................................. 400

RIPPER

Transmission, oil........................................ 38
Torque converter and transmission........... 38
Steering and braking............................ 70
Final drive (each)................................. 33
Hydraulic system
- Steering clutch version..................... 110
- Power Steering Version...................... 130

BLADES

Semi U (HSU) X X -
Angle (HA) X X -
Straight (HS) X X X
PAT 3.6 meter wide X X -
PAT 4.0 meter wide X X X

MACHINE DIMENSIONS

<table>
<thead>
<tr>
<th>MACHINE MODEL</th>
<th>LT</th>
<th>XLT</th>
<th>LGP</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Height over cab</td>
<td>mm</td>
<td>3235</td>
<td>3235</td>
</tr>
<tr>
<td>B Height over muffler</td>
<td>mm</td>
<td>3170</td>
<td>3170</td>
</tr>
<tr>
<td>C Tractor length</td>
<td>mm</td>
<td>4210</td>
<td>4210</td>
</tr>
<tr>
<td>D Length of track on ground</td>
<td>mm</td>
<td>2700</td>
<td>3205</td>
</tr>
<tr>
<td>E Gauge</td>
<td>mm</td>
<td>1900</td>
<td>1900</td>
</tr>
<tr>
<td>F Track shoes width</td>
<td>mm</td>
<td>560-610</td>
<td>560-610</td>
</tr>
<tr>
<td>G Shoe grouser height</td>
<td>mm</td>
<td>71.5</td>
<td>71.5</td>
</tr>
<tr>
<td>H Ground clearance</td>
<td>mm</td>
<td>390</td>
<td>390</td>
</tr>
<tr>
<td>I Overall width with shoes 560</td>
<td>mm</td>
<td>2460</td>
<td>2460</td>
</tr>
<tr>
<td></td>
<td>Overall width with shoes 610</td>
<td>mm</td>
<td>2510 (required for PAT)</td>
</tr>
<tr>
<td></td>
<td>Overall width with shoes 760</td>
<td>mm</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Overall width with shoes 915</td>
<td>mm</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Shipping weight w/o blade*</td>
<td>kg</td>
<td>17290</td>
</tr>
</tbody>
</table>

* Includes ROPS Cab (with ROPS canopy deduct 300 kg) 610 mm shoes, 10% fuel, blade lift cylinders, lubricants, coolant (for steering clutch version deduct 330 kg).
**BLADES DIMENSIONS**

<table>
<thead>
<tr>
<th></th>
<th>LT</th>
<th>XLT</th>
<th>LGP</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Semi-U (HSU)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Blade capacity SAE J1265 m³</td>
<td>5.6</td>
<td>5.0</td>
<td>3.2</td>
</tr>
<tr>
<td>L Width of blade mm</td>
<td>3460</td>
<td>2990</td>
<td>000</td>
</tr>
<tr>
<td>Width of angled blade mm</td>
<td>-</td>
<td>-</td>
<td>3650</td>
</tr>
<tr>
<td>M Height of blade mm</td>
<td>1425</td>
<td>1425</td>
<td>30</td>
</tr>
<tr>
<td>N Max. tilt mm</td>
<td>850</td>
<td>600</td>
<td>550</td>
</tr>
<tr>
<td>Q Blade pitch °</td>
<td>+/- 5</td>
<td>+/- 5</td>
<td>+/- 5</td>
</tr>
<tr>
<td>P Digging depth mm</td>
<td>480</td>
<td>550</td>
<td>450</td>
</tr>
<tr>
<td>Q Max. lift above ground mm</td>
<td>1100</td>
<td>1190</td>
<td>1148</td>
</tr>
<tr>
<td>R Overall length with blade mm</td>
<td>5485</td>
<td>5485</td>
<td>315</td>
</tr>
<tr>
<td>Operating weight with blade* kg</td>
<td>20530</td>
<td>20430</td>
<td>20140</td>
</tr>
</tbody>
</table>

* Includes ROPS Cab (with ROPS canopy deduct 300 kg), 610 mm shoes, (915 mm for LGP), fuel, oil and operator (for steering clutch version deduct 330 kg).

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**D180 WITH POWER STEERING AND PAT BLADE**

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**PAT BLADES DIMENSIONS**

<table>
<thead>
<tr>
<th></th>
<th>LT</th>
<th>XLT</th>
<th>LGP</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LT</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Blade capacity m³</td>
<td>4.8</td>
<td>5.4</td>
<td>5.4</td>
</tr>
<tr>
<td>D Blade width mm</td>
<td>3610</td>
<td>4067</td>
<td>4067</td>
</tr>
<tr>
<td>E Blade height mm</td>
<td>1124</td>
<td>1324</td>
<td>1324</td>
</tr>
<tr>
<td>F Max. lift above ground mm</td>
<td>1133</td>
<td>1133</td>
<td>1324</td>
</tr>
<tr>
<td>G Blade digging depth mm</td>
<td>765</td>
<td>765</td>
<td>765</td>
</tr>
<tr>
<td>H Blade max tilt mm</td>
<td>480</td>
<td>570</td>
<td>570</td>
</tr>
<tr>
<td>K Blade angle °</td>
<td>+/- 25</td>
<td>+/- 25</td>
<td>+/- 25</td>
</tr>
<tr>
<td>J Width of angled blade mm</td>
<td>3325</td>
<td>3740</td>
<td>3740</td>
</tr>
<tr>
<td>O Pitch °</td>
<td>33.5</td>
<td>33.5</td>
<td>33.5</td>
</tr>
<tr>
<td>I Overall length with blade mm</td>
<td>5615</td>
<td>5615</td>
<td>5615</td>
</tr>
<tr>
<td>Q Gauge mm</td>
<td>1900</td>
<td>1900</td>
<td>1900</td>
</tr>
<tr>
<td>P Max. width of shoes mm</td>
<td>610</td>
<td>610</td>
<td>610</td>
</tr>
<tr>
<td>M Width over track mm</td>
<td>2510</td>
<td>2510</td>
<td>2510</td>
</tr>
<tr>
<td>R Length of track on ground mm</td>
<td>2700</td>
<td>2700</td>
<td>2700</td>
</tr>
<tr>
<td>Operating weight with Pat blade* kg</td>
<td>20380</td>
<td>20520</td>
<td>20140</td>
</tr>
</tbody>
</table>

* Includes ROPS Cab (with ROPS canopy deduct 300 kg), 610 mm shoes, (760 mm for LGP) fuel oil and operator.
**EQUIPMENT**

**D180 POWER STEERING AND STEERING CLUTCH VERSION**

**LT**
- Track frame 7 rollers
- Sealed and lubricated chains, 560 mm shoes or sealed and lubricated chains, 610 mm shoes

**XLT**
- Track frame 8 rollers
- Sealed and lubricated chains, 560 mm shoes or sealed and lubricated chains, 610 mm shoes

**LGP**
- Track frame 8 rollers LGP
- Sealed and lubricated chains, 915 mm shoes

**BASIC MACHINE**
- Alternator, 65 A
- Horn
- Back-up alarm
- Maintenance-free batteries
- Tool kit
- Blade lift cylinders
- Single lever hydraulic system control
- Foot pedal decelerator
- Diagnostics
- Hinged engine side panels
- Air filter + pre-filter
- Front pull hook
- Electrical system, 24 V
- Protections: engine sump and drive wheel gearbox, sprocket, front and rear on track carriages
- Power Steering system for LGP
- Track tension hydraulic adjustment

**MANDATORY VARIANTS**
- Exhaust pipe muffler
- Integral 3+3 Power Shift Transmission (with automatic control)

**OPTIONAL EQUIPMENT**
- Air conditioning
- Fire extinguisher
- (HSU) Semi-U blade with Equistatic device, push beams and tilt cylinder (LT and XLT)
- (HS) Straight blade with push beams and tilt cylinder (LT, XLT and LGP)
- (HA) Angle blade with C frame and 1 tilt cylinder (LT and XLT)
- PAT blade with internal push beams (LT, XLT in power steering version and LGP)
- Parallelogram 3-teeth PD180 Ripper (LT and XLT)
- Parallelogram 3-teeth RP14F Ripper (LGP)
- Radio
- Rear implement control and piping
- Roller protection (long) for XLT and LGP
- Roller protection (short) for LT
- Service lights: 2 additional front lights

* PAT blade is available from the parts organization only

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**NEW HOLLAND. THE POWER OF A GLOBAL BRAND**

New Holland is a global brand with a key position in the Construction Equipment business. It supplies a complete range of 12 product lines and 80 basic models split into Compact line and Heavy line.

It operates in all the main markets, such as Europe, North and Latin America, Africa, Asia and Middle East with the same technology and under the same logo and brand.

It manufactures durable, safe and productive machines aimed at supporting customers in developing their own business.

Dealers are company partners. They play an important role to support the brand in their territories through intense professional relationship with Customers.

New Holland is reinforced by its global alliance with Kobelco: world leader in hydraulic excavator technology.
The New Holland dealer network is, in itself, the best guarantee of continued productivity for the machines it delivers to its customers. New Holland service technicians are fully equipped to resolve all maintenance and repair issues, with each and every service point providing the high standards they are obliged to observe under New Holland’s stringent quality guidelines. The New Holland global parts network ensures fast, reliable, replacement parts for less downtime, increased productivity and, of course, profitable operation for its customers.

AT YOUR OWN DEALERSHIP

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