

	LT/XLT	I	LGP .
NET POWER	145 kW/194	hp 157 kV	W/211 hp
MAX OPERATING WEIGHT:	LT	XLT	LGP
- STEERING CLUTCH VERSION - Power Steering Version	Kg 20 200 Kg 20 530	21 300 21 750	- 22 730



180 QUALITY FOR COMFORT

THE CAB

Imple 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

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.

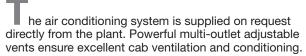
BLADE CONTROL

mplement 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 easly adapted by the electro-hydraulic control.

THE INSTRUMENT PANEL

HEATING/CONDITIONING SYSTEM

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







ADJUSTABLE ARMRESTS

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











he cab is attached to the machine frame with four rugged dampers.

ACCESSIBILITY TO THE OPERATOR COMPARTMENT

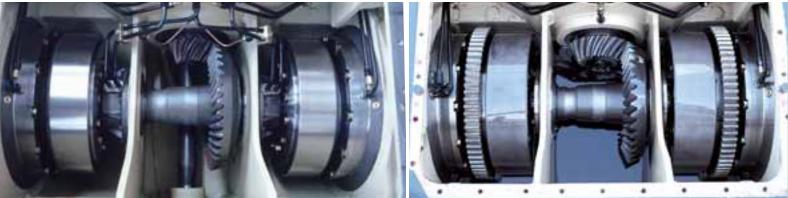
asy access to operator compartment from both sides, with wide access doors.

OPERATOR SEAT

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

180 QUALITY FOR





THE CHOICE BETWEEN TWO STEERING SYSTEMS

STEERING/BRAKE CLUTCHES

he steering brakes and clutches are oil bath disc type, virtually maintenance-free. Steering brakes and clutches are modular, for independent and easier serviceability.

HYDROSTATIC DIFFERENTIAL "POWER STEERING"

n 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.

PRODUCTIVITY

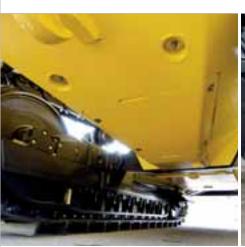
GROUND CLEARANCE

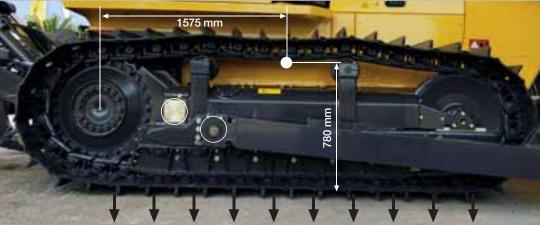
ndercarriage hinging is independent from the final gear shaft, thereby eliminating the need for diagonal booms below the final drive and increasing ground clearance.

STABILITY

Ome 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

peed 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 efficency 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.

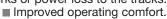
VISIBILITY

xcellent night visibility is granted by two front and two rear flood lights. Four front lights are available as optional.

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.





BLADE

ew 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.









IMPLEMENTS

T 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

ew 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

he 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.

EASY MAINTENANCE AND SERVICE

ACCESSIBILITY

he 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

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

BELT TENSIONING

Itemator control belt tensioning is automatic.

uses are provided with system identification decals and are contained in an easily accessible box inside the

FUSES BOX

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 modelCNH 667TA
TypeDiesel, Common rail, 4 valves, turbo,
aftercooled, electronic injection
Number of cylinders6
Bore x stroke
Displacement6.7 I
Maximum torque at 1400 rpm86 daNm (LGP = 95 daNm)
Lubrificationfull pressure by gear pump
The machine may be operated up to 3000 m altitude without derating
the engine.

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



ELECTRICAL SYSTEM

Voltage	24 \/
Battery	
Rating (total)	160 Ah
Type	maintenance free
Starter	7.8 kW
Alternator	65 A
Master switch for electrical system	



TORQUE CONVERTER

Type	single stage,	rotating housing
Torque multiplication		2.28 : 1



TRANSMISSION

Type:full PowerShift, countershaft, constant me	esh
Control modulation5 modulation valv	es/
(2 for direction +3 for shifti	ng)
ControlTouch-shift buttons for upshift and downsl	nift
rotational direction control for forward, neutral and rever	se.
Automatic shiftingAuto Shift allows the operation	ator
to pre-select the 1st speed forw	ard
and 2nd speed reverse at directional chan	ge.
Auto kickdown automatically downshifts the transmiss	ion
when the engine slows down to a predetermined RPM le	
Both automatic features can be selected through specific butto	ons.
Clutchesmultiple disc, hydra	ulic
Lubricationfull press	ure

Speeds and drawbar pull*

LT/XLT		LGP		
Fwd	km/h	KN	km/h	KN
1 st	4.3	290	4.3	305
2^{nd}	6.7	165	6.7	174
3^{rd}	10.9	93	10.9	99
Rev	km/h	KN	km/h	KN
1 st	5.2	228	5.2	240
2^{nd}	8.4	129	8.4	136
3^{rd}	13.0	72	13.0	76

*Drawbar tractive effort depends on adhesion coefficient, rolling resistance and machine operating weight.

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



STEERING (STEERING CLUTCH VERSION)

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

Control: All controls are fingertip type and are integrated in the left armrest. Steering control with electro-proportional levers.

Forward and Reverse selection with a rotating switch.

Standard for LT and XLT version. Not available for LGP version



STEERING (POWER STEERING VERSION)

Hydraulic motor and epicycloidal unit controll hydrostatic steering system. Epicyclical reduction gears on both sides replace steering clutches. A hydraulic motor makes the epicyclical 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.

Control: All controls are actuated and positioned as in the steering

clutch version.

Standard for LGP version; optional for LT and XLT version



SERVICE BRAKES

Spring applied hydraulically released multi-disc oil bath brakes. Foot pedal piloted control.

The steering brakes also act as service and parking brakes. PARKING BRAKES

Service brakes are locked automatically when the transmission safety lever is actuated or when the engine is cut off.



FINAL DRIVES

Туре	double reduction, modular assembly
Ratio	1 to 12.286
Lubrication	splash



TRACK

Box section track frames. Oscillating type.

Hydraulic track adjusters. Sprockets with bolt-on segments, anti-packing teeth profile.

Track bushings with greater diameter at the rolling area.

Outer sprocket guards, front and rear track guards, full track roller guards Disc idlers, track rollers, carrier rollers are permanently lubricated and sealed Sealed and lubricated track with split master link.

	LI	XLI	LGP
Track rollers (per track)	7	8	8
Carrier rollers (per track)	2	2	2
Number of shoes	40	45	45
Length of track on groundmm	2700	3205	3205
Gaugemm	1900	1900	2085
Track shoes widthmm	560	560	915
Shoe grouser heightmm	71.5	71.5	71.5
Carriage oscillationmm	255	317	317

Track shoes	Ground contact area	Ground pressure*
560 mm LT	30240 cm ²	0.679 kg/cm ²
610 mm LT	32940 cm ²	0.623 kg/cm ²
560 mm XLT	35896 cm ²	0.603 kg/cm ²
610 mm XLT	39100 cm ²	0.553 kg/cm ²
760 mm LGP	48716 cm ²	0.467 kg/cm ²
915 mm I GP	58652 cm ²	0.388 kg/cm ²

^{*}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 requierement for the hydraulics and fuel consumption and increasing the machine production.

CAPACITIES	
	L

	LILEIS
Lube oil	19
Coolant	25
Fuel tank	400

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

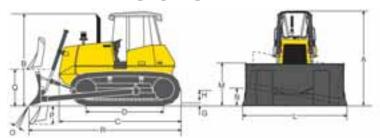


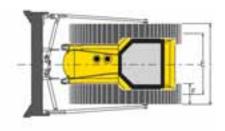
	LT/XLT	LGP
MODEL	PD180	RP14F
Type	Parallelogramm	Parallelogramm
Ripping depth (mm)	540	430
Ripping width (mm)	1900	1800
Shanks	3	3
Shank holders	3	3
Clearance, under tooth		
with ripper raised (mm)	500	490
Clearance, under tool beam		
with ripper lowered (mm)	390	235
Hydraulic cylinders	2	2
Rod x bore x stroke (mm)	100x56x480	140x70x380
Overall width (mm)	2130	2030
Weight (with three shanks) (kg)	2010	1430



MACHINE MODEL BLADE TYPE	LT	XLT	LGP
Semi U (HSU)	Χ	Χ	-
Angle (HA)	Χ	Χ	-
Straight (HS)	Χ	Χ	X
PAT 3.6 meter wide	Х	Х	-
PAT 4.0 meter wide	Х	Х	Х

MACHINE DIMENSIONS





MACHINE MODEL		LT	XLT	LGP
A Height over cab	mm	3235	3235	3235
B Height over muffler	mm	3170	3170	3170
C Tractor length	mm	4210	4210	4210
D Length of track on ground	mm	2700	3205	3205
E Gauge	mm	1900	1900	2085
F Track shoes width	mm	560-610	560-610	760-915
G Shoe grouser height	mm	71.5	71.5	71.5
H Ground clearance	mm	390	390	390
I Overall width with shoes 560	mm	2460	2460	-
Overall width with shoes 610	mm	2510 (required for PAT)	2510 (required for PAT)	-
Overall width with shoes 760	mm	-	-	2845 (required for PAT)
Overall width with shoes 915	mm	-	-	2995
Shipping weight w/o blade*	kg	17290	18390	19400

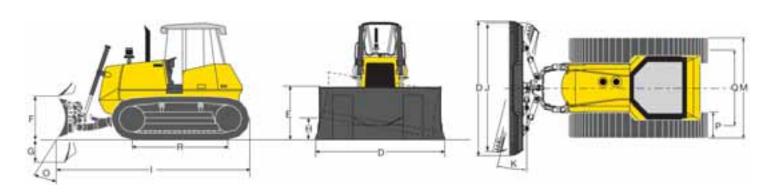
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BLADES DIMENSIONS	LT						XLT			
		Semi-U (HSU)	Semi-U 3 m	Angle (HA)	Straight (HS)	Semi-U (HSU)	Semi-U 3 m	Angle (HA)	Straight (HS)	Straight (HS)
Blade capacity SAE J1265	m ³	5.6	5.0	3.2	4.0	5.6	5.0	3.2	4.0	3.7
L Width of blade	mm	3460	2990	4000	3385	3460	2990	4000	3385	3900
Width of angled blade	mm	-	-	3650	-	-	-	3650	-	-
M Height of blade	mm	1425	1425	1030	1215	1425	1425	1030	1215	1110
N Max. tilt	mm	850	600	550	760	850	600	550	760	835
O Blade pitch	0	+/- 5	+/- 5	+/- 5	+/- 5	+/- 5	+/- 5	+/- 5	+/- 5	+/- 5
Blade angle	0	-	-	+/- 25	-	-	-	+/-25	-	-
P Digging depth	mm	480	550	450	470	550	550	500	535	535
Q Max. lift above ground	mm	1100	1190	1148	1160	1190	1190	1315	1160	1160
R Overall length with blade	mm	5485	5485	5315	5440	5880	5880	5827	5675	5675
Operating weight with blade*	kg	20530	20430	20140	20300	21630	21530	21240	21400	22730

^{*} 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).

D180

WITH POWER STEERING AND PAT BLADE



PAT BLADES DIMENSIO	NS	L	T	XI	LT	LGP
Blade capacity	m³	4.8	5.4	4.8	5.4	5.4
D Blade width	mm	3610	4067	3610	4067	4067
E Blade height	mm	1324	1324	1324	1324	1324
F Max. lift above ground	mm	1133	1133	1260	1260	1260
G Blade digging depth	mm	765	765	800	800	800
H Blade max tilt	mm	480	570	480	570	570
K Blade angle	0	+/- 25	+/- 25	+/- 25	+/- 25	+/- 25
J Width of angled blade	mm	3325	3740	3325	3740	3740
O Pitch	0	33.5	33.5	33.5	33.5	33.5
Overall length with blade	mm	5615	5615	5930	5930	5930
Q Gauge	mm	1900	1900	1900	1900	2080
P Max. width of shoes	mm	610	610	610	610	760
M Width over track	mm	2510	2510	2510	2510	2845
R Length of track on ground	mm	2700	2700	3205	3205	3205
Operating weight with Pat blade*	kg	20380	20520	21620	21750	22490

 $^{^{\}star}$ Includes ROPS Cab (with ROPS canopy deduct 300 kg), 610 mm shoes, (760 mm for LGP) fuel oil and operator .

E D180 POWER STEERING AND STEERING CLUTCH VERSION

LT

Sealed and lubricated chains, 560 mm shoes or sealed and lubricated chains, 610 mm shoes

Track frame 7 rollers

XLT

Sealed and lubricated chains, 560 mm shoes or sealed and lubricated chains, 610 mm shoes

Track frame 8 rollers

LGP

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

BASIC MACHINE

- Air filter + pre-filter
- Alternator, 65 A
- Back-up alarm
- Blade lift cylinders
- Diagnostics
- Electrical system, 24 V
- Exhaust pipe muffler
- Foot pedal decelerator
- Front pull hook
- Hinged engine side panels
- Horn
- Integral 3+3 Power Shift Transmission (with automatic control)
- Maintenance-free batteries
- Power Steering system for LGP
- Protections: engine sump and drive wheel gearbox, sprocket, front and rear on track carriages
- Single lever hydraulic system control
- Steering Clutch or Power Steering system fot LT and XLT version

- Tool kit
- Track tension hydraulic adjustment

MANDATORY VARIANTS

- 4 spools control valve for HSU blade
- 5 spools control valve for PAT blade
- ROPS cab with heating system or ROPS cab with air conditioning; or ROPS canopy

OPTIONAL EQUIPMENT

- Air conditioning
- Air suspended seat
- Cold weather starting aid
- Fire extinguisher
- (HSU) Semi-U blade with Equistatic device, push beams and tilt cylinder (LT and XLT)
- 3 m (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
- Rear draw bar
- Roller protection (long) for XLT and LGP
- Roller protection (short) for LT
- Service lights: 2 additional front lights

NEW HOLLAND. THE POWER OF A GLOBAL BRAND

New Holland is a global brand with a key position the Construction Equipment business.

It supplies a **complete range of 13 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.



^{*} PAT blade is available from the parts organization only

PARTS AND SERVICE

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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