

# NEW HOLLAND

## LS140/150/160/170 180.B/185.B



- PATENTED SUPER BOOM, VERTICAL LIFT
- OPTIMUM STABILITY
- EXCEPTIONAL ALL AROUND VISIBILITY
- OUTSTANDING ACCESSIBILITY  
FOR MAINTENANCE AND SERVICE

 **NEW HOLLAND**

# LS 140/150/160/170

## PATENTED “SUPER BOOM” UNIQUE TO NEW HOLLAND.

**P**atented “Super Boom” is unique to New Holland LS skid-steers.

Compared with traditional radial lift loader arms, “Super Boom” has advantages that include better forward reach, a lower pivot point for improved visibility and a much lower centre of gravity and better weight distribution between the front and rear wheels.

Proven technology. Innovative design. Quality build. Typically New Holland.

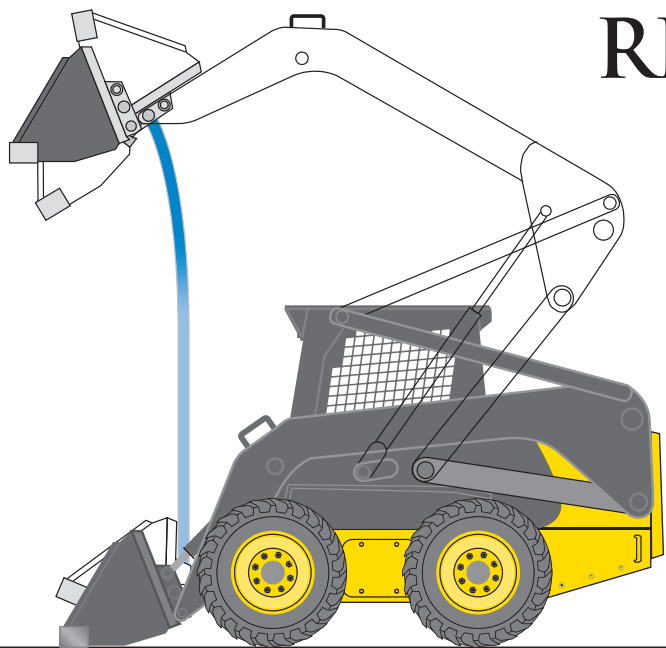
- When productivity counts, “Super Boom” gives the performance edge
- Where ease of operation and safety are the key to winning business, LS delivers
- Where operators have a choice, they will choose New Holland.





# 0/180.B/185.B

## REACH FARTHER, REACH HIGHER, LIFT MORE



**F**or bucket and grapple work, you simply can't beat "Super Boom" patented, vertical lift linkage. With "Super Boom", the higher you lift the load the further forward you can place it, so you get excellent reach at maximum dump height. The linkage also reduces bucket tipping for less spillage. And Super Boom's exceptional 45° dump angle and 36° roll-back angle help you speed up cycle times to boost your productivity.



## IMPROVE YOUR BOTTOM LINE

Every LS skid steer is designed to improve on-the-job performance and save you time. New Holland's unique boom geometry gives you more lift capacity per pound of total machine weight. And, the higher LS skid steers lift the load, the farther they reach. The result? You move bigger loads more efficiently, and that's the kind of productivity that improves your bottom line.



# LS140/150/160/170

SOLID, STABLE,  
HIGHLY MANOEUVRABLE.



**A** skid-steer loader has to be able to turn within its own length, but it also needs to be stable. Stable enough to give operators the confidence to quickly exploit the machine's full lift capacity. New Holland LS skid-steer loaders have a long wheelbase and an exceptionally low centre of gravity. Compared with a traditional skid-steer, LS Super Boom skid-steers are:

- **More stable when raising full loads to maximum height**
- **More comfortable over rough ground**
- **More secure on side slopes**
- **More productive in difficult conditions**
- **More in tune with operators' needs**



# 180.B/185.B



The long LS wheelbase and low center of gravity provide added stability on uneven terrain.



Outstanding lift capacity and rock-solid stability allow you to travel easily with heavy loads.



# LS140/150/160/170

## COMFORTABLE, SAFE AND SECURE. ALWAYS IN CONTROL.

The large, roomy cab, offering ample leg and foot room, gives you all-day comfort and ease of operation, for higher productivity. Controls are easy to use and an electronic instrument panel is located directly in front of you. Not only does it constantly monitor the machine's operating systems but also alerts you to potential trouble with visible and audible alarms. Visibility is best-in-class no matter where you look. You get perfect forward visibility over your attachment. Large rear and lateral windows provide excellent all-round visibility for reversing in complete safety - vital when you're on a confined or congested job site.



**Safety is built in.** LS performance is safe performance, thanks to these safety features:

- A starter lockout means the machine won't start unless you're in the seat with the seatbelt buckled.
- A strong, reliable ROPS FOPS operator enclosure provides outstanding protection. Cab enclosure is also available.
- Boom and bucket hydraulics lock up the instant you unbuckle the seatbelt, or if you leave the seat with the engine running.

# /180.B/185.B

## YOU'RE ALWAYS IN CONTROL

Comfortable operators are confident, productive operators. That's why the LS skid steer operator area is large and roomy, providing easy operation and all-day comfort.

### **A beautiful view.**

The design of these skid steers provides you with visibility that leads the industry, no matter where you look-to the front, rear or sides.

### **A more efficient you.**

The LS platform lets you spend a full day on the job and still be as productive at quitting time as you were at the start of the day. The low-effort, self-neutralizing steering controls and responsive foot controls with adjustable pedal position make

New Holland skid steers easy to use.

The contoured seat provides all-day comfort and support even while travelling over the roughest terrain. A suspension seat is standard on the LS160 and LS170. Ample legroom and footroom add to your operating comfort.



LS skid steers pack big performance and operator comfort into compact frame sizes so you can work well in tight, narrow, confined spaces.

## ENJOY THE VIEW

LS has a big rear window, a low engine hood and no rear frame towers, so you get a great view out the back. The low boom cross member lets you see the cutting edge of your bucket with the boom lowered. And the metal screens on your right and left offer outstanding protection along with excellent visibility.





# LS140/150/160/170

## ENGINE AND POWERTRAIN



### POWERFUL ENGINES

**W**hether naturally aspirated for smooth and economical operation or turbocharged for additional torque and quick response: you can depend on the outstanding performances of the engines mounted on the New Holland LS Skid Steer Loaders. All of them are powerful, quiet and Tier 2 certified.



**T**andem hydrostatic drive pumps are coupled directly to the engine flywheel, delivering 100% of available engine power to pumps and components. Hydrostatic motors efficiently transfer power to the wheels through extra heavy-duty drive chains. Heavy-duty radial piston drive motors offer greater tractive effort, improved reliability and efficiency. The LS180.B and LS185.B models, equipped with the two-speed option, provide faster travel speeds from a push-button, two-speed drive. These two machines accelerate 11 Km/h in low range to 18 Km/h in high range.



# /180.B/185.B

## TIME-SAVING MAINTENANCE EASIER SERVICING

Time is money, so New Holland designed the LS skid steers for simple routine maintenance. You can easily access all major service points, even with the boom down. The seat flips up without tools to give you easy access to the hydraulic pumps and drivetrain components.

In exceptional cases if more complete access is ever needed, the entire boom and cab assembly lift up and forward for unobstructed access to the engine and transmission. All these LS design features lower your operating costs and improve your bottom line.



Loader boom-locks that you engage from inside the cab allow you to secure the raised boom before you get out to perform scheduled maintenance. LS Super Boom loader arms pivot on the either 51 or 64 diameter pins. These are induction hardened and have an integral spiral lubrication channel machined into their surface. This traps lubricant and enables routine greasing to be extended to 50 hour intervals.



### NEW E.I.C. - ELECTRONIC INSTRUMENT CLUSTER

A new user friendly digital instrument panel is located directly overhead. It alerts you to potential trouble with both visible and audible alarms. Among 16 monitored or controlled functions, the most important are:

- Engine oil pressure - lamp indicator
- Hydraulic charge pressure - lamp indicator
- Hydraulic oil temperature - lamp indicator
- Engine coolant temperature - lamp indicator
- Hydraulic oil filter condition - lamp indicator
- Engine air filter condition - lamp indicator



# SPECIFICATIONS

## LS140/150/160/170/180.B/185.B



### ENGINE

#### LS140

#### LS150

#### LS160

#### LS170

#### LS180.B

#### LS185.B

Engine power SAE (kW/hp)	22/30	27/37	30/41	37/50	44/60	54/73
Make	New Holland	New Holland	New Holland	New Holland	CNH	CNH
Model	N843	N843H	N844	N844T	334M2	334TM2
Type	N.A.	N.A.	N.A.	Turbocharged	N.A.	Turbocharged
Displacement (l)	1.5	1.5	2.0	2.0	3.4	3.4
Cylinders (n°)	3	3	4	4	3	3
Engine rated speed (rpm)	2900	3200	2900	2900	2300	2300
Engine speed at max. torque (rpm)	1700	2000	1700	1700	1400	1400
Maximum torque SAE (Nm)	94	99	126	153	242	319
Diesel tank capacity (l)	33	33	33	33	68	68



### OPERATING WEIGHT

SAE operating weight (kg)	1995	2045	2510	2515	3220	3220
Transport weight less bucket (kg)	1814	1854	2222	2225	3043	3043



### PERFORMANCE

SAE operating load (kg)	612	612	771	771	1133	1133
Tipping load (kg)	1166	1166	1601	1601	2268	2268
Bucket breakout (kg)	1547	1590	1687	1687	2737	2737
Boom breakout (kg)	918	1089	1286	1286	1902	1902
Boom lift time - loaded (sec)	3.7	3.3	3.0	2.7	3.0	3.0
Boom lower time - empty (sec)	2.1	1.9	3.0	2.3	2.9	2.9
Bucket dump time - loaded (sec)	1.2	1.1	2.0	1.7	2.2	2.2



### HYDRAULIC SYSTEM

Pump type	Gear	Gear	Gear	Gear	Gear	Gear
Pump capacity (l/min)	41	45	59	67	70	70
Max. pressure (bar)	172	172	172	172	210	210
Hi-Flow (l/min)	-	-	91	99	122	122
Hydraulic oil capacity (l)	18.9	18.9	32.6	32.6	56.8	56.8



### TRANSMISSION

Type	Hydrostatic	Hydrostatic	Hydrostatic	Hydrostatic	Hydrostatic	Hydrostatic
Pumps and motors	Axial pistons	Axial pistons	Axial pistons	Axial pistons	Axial pistons	Axial pistons
Max low/high speed (km/h)	10.8	11.7	11.7	11.7	11/18	11/18
Drive chain service interval (h)	1000	1000	1000	1000	1000	1000

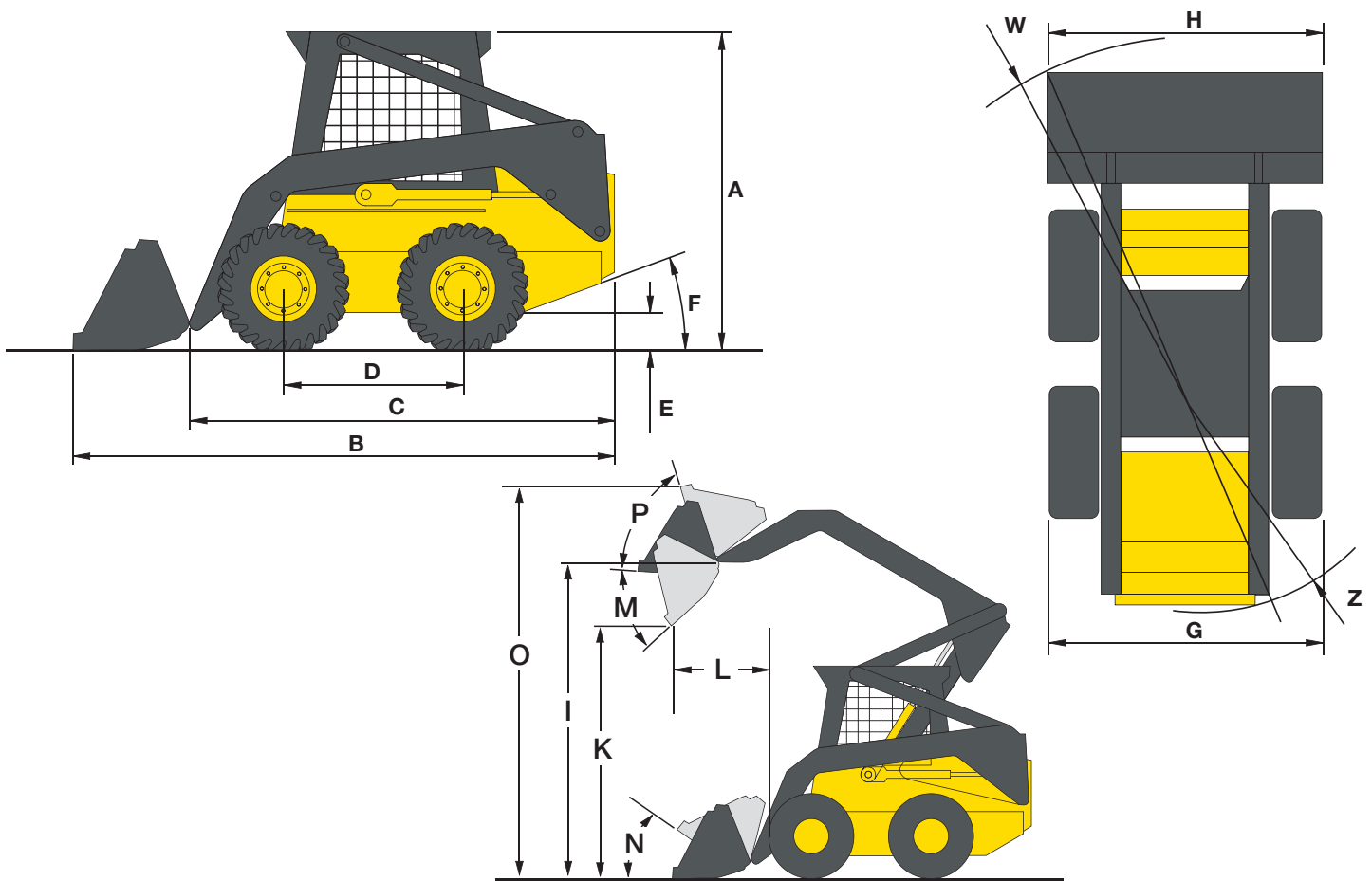


### ELECTRICAL SYSTEM

Battery voltage (V)	12	12	12	12	12	12
Battery capacity (CCA)	107	107	107	107	107	107
Alternator (A)	40	40	40	40	95	95



# DIMENSIONS



DIMENSIONS*		LS140	LS150	LS160	LS170	LS180.B	LS185.B
A Height to top of cab	mm	1865	1865	1915	1915	1975	1975
B Overall length, with bucket	mm	3035	3035	3175	3175	3525	3525
C Length less bucket	mm	2445	2445	2578	2578	2845	2845
D Wheelbase	mm	950	950	1080	1080	1210	1210
E Ground clearance	mm	198	198	201	201	240	240
F Departure angle	(°)	25	25	23	23	28	28
G Width less bucket	mm	1390**/1490	1490	1645	1645	1810	1810
H Bucket width	mm	1370/1525	1525	1680	1680	1830	1830
I Bucket hinge pin height	mm	2800	2905	2925	2925	3165	3165
K Dump height	mm	2207	2322	2300	2300	2540	2540
P Bucket roll back angle fully raised	(°)	81	83	79	79	77	77
M Dump angle	(°)	45	45	45	45	45	45
N Bucket roll back angle at ground	(°)	36	36	36	36	37	37
W Front turning radius	mm	1790	1790	1880	1880	2200	2200
Z Rear turning radius	mm	1430	1430	1520	1520	1810	1810
L Max reach with bucket at 45°	mm	549	536	742	742	830	830
O Max operating height	mm	3450	3560	3605	3605	3840	3840

\* Dimensions refer to machines equipped with dirt/foundry bucket and

- 10.00 x 16.5 tyres (LS140/150/160/170)

- 12.00 x 16.5 tyres (LS180.B/185.B)

\*\* With optional tyres 7.00 x 15

# ATTACHMENTS

## LS140/150/160/170/180.B/185.B

**A**n extensive range of attachments are available to maximise the versatility of your New Holland skid steer loader, each attachment designed to be the perfect match for your machine.  
For further information, contact your New Holland dealer.



AT YOUR OWN DEALERSHIP

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