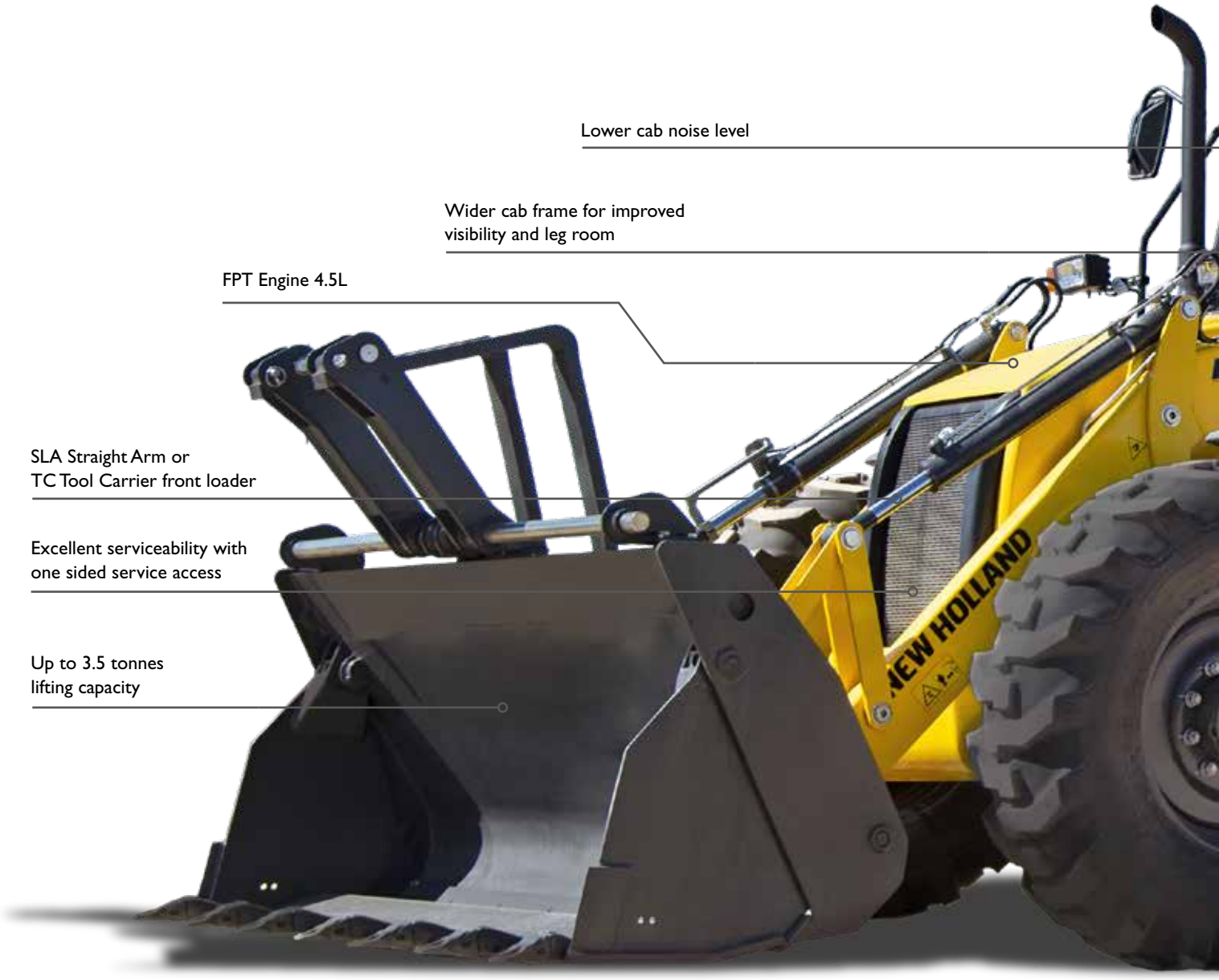
B110C - B115C - BACKHOE LOADERS

YOUR PERFORMING PARTNER

NEW HOLLAND CONSTRUCTION

NEW C SERIES, IN-BUILT VERSATILITY

The new C series backhoe loaders from New Holland represent a huge step forward in operator comfort and productivity.
The new cab design delivers an enhanced operator experience and increased productivity, with 10% more space and vastly improved clearance when sniveling the seat for backhoe operation, new rear side windows and hugely improved in-cab storage capacity.
New Holland backhoe loaders are your versatile choice for loading, grading, grabbing, lifting, excavating, digging, planting, post hole boring and, much more. You have ample choice of loader and backhoe specifications.
The 4.5 litre turbocharged engines for the new machines are provided by FPT Industrial, a world-wide leader in the design, production and sale of powertrains for industrial applications.
The new C Series will be an asset for the many operations needing a loader with its excellent versatility. It is ideal for a variety of applications other than moving bulk materials, including grading and levelling, grabbing heavy objects such as tree trunks or concrete pillars, and has the traction and power to move heavy materials and objects.




Spacious new cab with 10% increase in volume and added storage compartments
Backhoe craning capacity up to 1410kg
Excellent all-round visibility
Heated seat
Fixed or extendable backhoe dipper
Mechanical or pilot-hydraulic backhoe control
Center pivot or side-shift backhoe
Three steering modes on equal wheel B115 C
New in-cab cool box
Mechanical Powershuttle or Automatic PowerShift™ transmission
New F-N-R switch on the loader multi function lever
NEW HOLLAND
B115C
POWERSHIFT

WELCOME ABOARD, COMFORT GUARANTEED

The all new class leading C series cab gives you more: more space, more storage, more glass area, more comfort and a host of new features. The cab is now wider, making it easier to turn the seat when switching from front loader work to backhoe use. New rear side windows provide better visibility while the redesigned right side console improves ergonomy and control layout, regardless of what direction you are working in. Storage capacity has been significantly increased with the addition of two lockable compartments, two bottle holders, four open trays and a ventilated cooling box. Operator convenience is improved thanks to the two USB ports for charging mobile devices, Bluetooth radio and mobile phone holder. In-cab noise levels have been reduced by further enhancing operator comfort.
A high grip floor covering comes as standard to help prevent the operator slipping when entering with muddy footwear.
Large retractable sunshades, cup holders, glove box and a deluxe pneumatic heated seat are included and to top it off, the engine exhaust pipe is located to the right side of the cab to provide a clear view of the loader arm.

- Improved clearance and legroom when transitioning to operate the backhoe
- A choice of entry level mechanical and deluxe heated pneumatic suspension seats are available
- Low in-cab noise level
- Good visibility is a key design priority: C Series backhoe loaders benefit from extremely slim cab pillars, front and rear

- Key controls mounted on the side allow operation from both forward and backhoe seat positions
- The dashboard is easy to read with the seat in either its forward or reverse position
- Optional immobiliser system protects against theft and unauthorised use

- Single multifunction proportional control lever for all loader controls
- 4in1 or 6in1 bucket opening, differential lock and transmission de-clutch functions are also activated from the lever
- New F-N-R switch on the multifunction lever for easy direction changes

- Backhoe joystick towers adjust in all directions for the most comfortable position
- New rear side windows in addition to the slim cab pillars allow better visibility when using the backhoe

- Powerful heating and ventilation with standard air conditioning ensures operator comfort throughout the day
- Repositioned ventilation switches are easily accessible regardless of working position
- New ventilated cool box keeps drinks cool

- An abundance of in-cab storage
- New speedometer option on the steering wheel console

- New USB port
- Bluetooth radio and phone holder
- Up-and-over rear window, light and easy to open and close

POWERSHIFT™ OR POWERSHUTTLE, YOU DECIDE

New Holland offers its backhoe loaders with two- or four-wheel drive and a choice of Powershuttle forward / reverse mechanical transmission or automatic PowerShift™. The all-wheel steer B115C has equal size front and rear wheels with selectable front, all-wheel and crab steer modes.

The right front axle for the job

- The heavy duty 4WD front axle has an open differential
- A tight turn radius can be maintained in all conditions

The right rear axle for the job

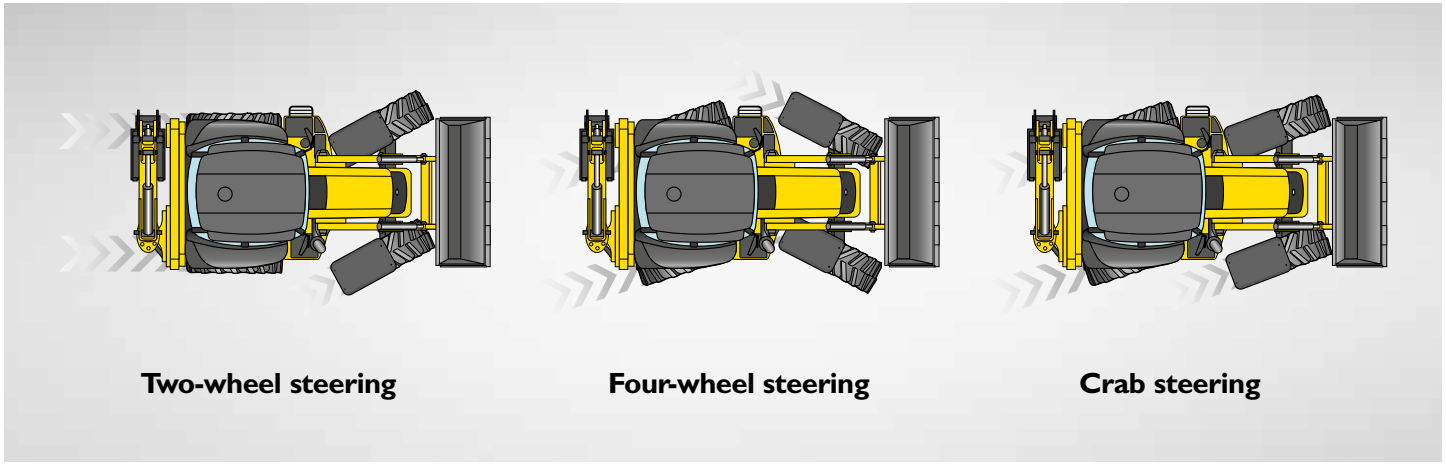
- The rear axle on all two-wheel steer models is fitted with a fully locking rear differential, engaged via a button on the loader joystick

Mechanical four-speed Powershuttle

- Floor mounted gear lever with steering column mounted electro–hydraulic forward / reverse shuttle
- Four gears with transmission de-clutch button incorporated in the gear lever
- Affordable, dependable and easy to use
- Ideal choice where the backhoe will see more use than the frontloader

Automatic four-speed PowerShift™

- Steering column mounted lever for shuttle and speed selection
- Fully modulated gear shifting with speed matching F-N-R switch on the loader multifunction lever
- Ease of use matched to low maintenance requirements
- Ideal transmission choice for extensive front loader duties
- Loader joystick fitted with transmission de-clutch button to divert full power to hydraulics as required
- Selectable two or four-wheel drive



Four-wheel steer B115C

New Holland B115C model can be operated in one of three steering modes:

- Conventional front-wheel steering is ideal for normal loading and transport applications
- Four-wheel steer delivers excellent manoeuvrability with no impact on stability
- Crab steer is ideal for working close to a trench or obstacle and can be useful when working over sensitive terrain to reduce traffic
- The four-wheel steer B115C delivers excellent traction with limited slip differentials in both the front and rear axles. Power is automatically diverted to all wheels in adverse conditions with no need for any operator input
- The self-adjusting oil immersed immersed disc brakes are designed to deliver a dependable performance. Mounted within the reduction hubs, the brakes can be easily serviced with no need to strip the axle

VERSATILITY AT YOUR SERVICE

Front loader - Choose SLA Straight Arm or TC Tool Carrier loader designs

SLA Straight Loader Arm features:
- Hydraulic auto self-levelling
- Higher lift capacity
- Greater lift height

TC Tool Carrier loader arm features:
- Mechanical parallel lift and lower
- Greater reach than straight arm
- Ideal for pallet and loading duties

Common standard loader features

- Auto-glide loader suspension
  - automatically activates above/below 3 preset speeds
  - improves material retention over uneven terrain
  - enables faster load cycle times
  - higher travel speeds for reduced journey times
- Return to dig and float modes
- Choice of standard, 4in1 or 6in1 buckets
- All buckets have bolt-on teeth for easy renewal

Versatile bucket options

- Versatile 4in1 bucket is suitable for such as dozing and grading, bulk materials handling and can work as a grab
- The 6in1 design adds adjustable forks for pallet work, lifting open loads and working with a strop

Backhoe

Standard features include:
- Curved arm design for easier loading over trailer sides and obstacles
- Long life pivots with ground level greasing points
- Wide pad stabilisers with adjustable footing
- Powerful bucket and dipper breakout for optimum performance

Key backhoe specification choices include:
- Fixed or extendable dipper arm option
- Mechanical or hydraulic side shift option
- Direct fit or quick coupler bucket choice
- Object handling kit available to allow handling of suspended items

Mechanical controls

- Conventional mechanical controls for the backhoe provide good feedback and response from the hydraulics
- Stabilizer controls are now located right next to the backhoe control levers, improving ergonomics

Pilot controls

- With full proportional control, pilot backhoe control joysticks are fully adjustable
- Selectable ISO or SAE operating patterns
- New joystick rocker switch to control the dipper extension

Hydraulic side shift

- Hydraulic side shift allows precise backhoe positioning and enables the operator to optimise bucket visibility when excavating a trench or working alongside an obstacle
- Hydraulic side shift in combination with the rubber stabilizer pads is the ideal solution to reduce ground damage

HYDRAULICS TO MEET EVERY DEMAND

New Holland backhoe loaders are offered with a choice of hydraulic pump designs to match the precise requirements of end users. In addition, an auxiliary hydraulic circuit is available for powering attachments such as hydraulic breakers and soil augers.
Two hydraulic pump designs are offered:

Twin gear pump

- Simple
- Constant flow
- Fast warm up
- Straightforward service and maintenance
- For general use. Suits applications with limited roading

Variable displacement pump

- Only active when there is a demand for oil
- Flow rate proportional to demand
- Reduces fuel consumption
- Reduced oil temperature due to flow on demand
- Ideal for intensive backhoe operation and frequent roading

- A variable displacement hydraulic pump only delivers flow on demand, saving fuel when roading and in applications such as dozing and grading
- The optional auxiliary hydraulic circuit is ideally suited to working soil augers, large grabs and hydraulic breakers

POWERFUL ECONOMY AND EASY MAINTENANCE

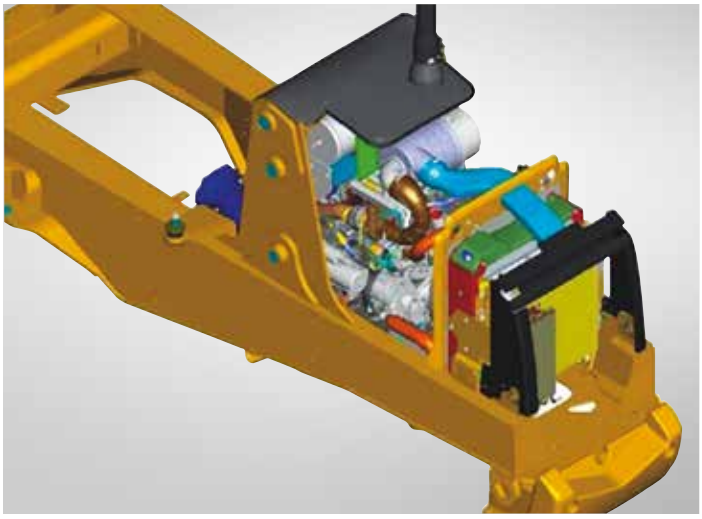
FPT Multijet Engine

The FPT engine delivers a big performance in a small package with the lowest maintenance cost in the market:

- The air intake system with centrifugal pre-filter reduces the cleaning intervals
- High turbulence piston and air intake manifold
- High pressure multi-injection common rail for a perfect air-fuel mix and greater burning efficiency
- Mechanical Injection Pump for 580V ensures high power combined with an easy to mantain and serve injection system
- Viscous fan: no power is wasted with its low cooling demands

FPT: a leader in engine technologies.

- *Fiat invented the «Common Rail» technology in the 80s*
- *Fiat Power Train produces over 600.000 industrial engines per year*
- *Our engines are used not only in earthmoving equipment but also in trucks, agricultural equipment, marine and military applications.*



Chassis

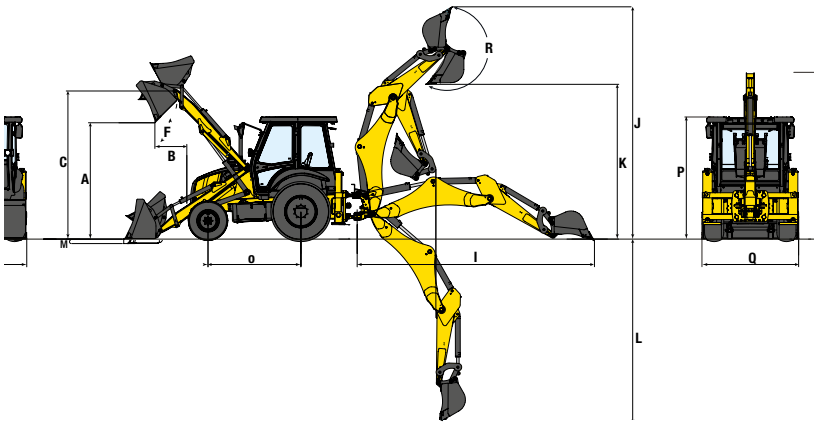
All backhoe models benefit from a full frame chassis, its exceptional strength diverting all stress through the robust frame with no load on the engine or transmission.

- Robot welded full length frame chassis
- No stress on engine or transmission
- Plate reinforced stress points
- Cast backhoe slider interface
- Open design to facilitate maintenance

A key to equipment performance and longevity is routine care. New Holland has designed the backhoe loader so it takes the minimum of time to carry out routine checks with easy access to all key fuel, engine, transmission and hydraulic filters, and all engine servicing can be done from one sided of the machine for added convenience. Extensive New Holland's widespread dealer network will deliver expert and efficient support for your peace of mind.

- One piece hood for full engine access
- All key daily checks grouped together on one side
- Battery disconnect and remote jump start terminals easily accessible
- All key lubrication points on the loader and backhoe have ground level access
- Key service items accessible from ground level makes the job faster and safer
- Maintenance-free disc brakes are standard

SPECIFICATIONS					
		B110C		B115C	
ENGINE					
Make and Model		FPT NEF - F4HE9484C		FPT NEF - F4HE9484C	
Injection system		High Pressure Common Rail			
Emissions level		Tier 3			
# of cylinders		4			
Bore / Stroke	mm	104 x 132			
Displacement / Compression ratio	ltr	4.5 / 17.5 to 1			
Engine rated Power (ISO 14396)	Kw(hp)	82 (110) @ 2200 rpm			
Maximum torque (ISO 14396)	Nm	516 @ 1400 rpm			
Engine speeds	rpm	2200 (rated speed at full load) / 950-1000 (low speed at no load)			
TRANSMISSION					
Type		Powershuttle 4WD	Powershift 4WD	Powershift 4WD - 4WS	
Model		Carraro TLB1 MPB 4WD	Carraro TLB2 MPB 4WD	Carraro TLB2 MPB 4WS	
Forward travel speeds	kph	6 - 10 - 21 - 40		6 - 10 - 22 - 39	
Reverse travel speeds	kph	7 - 12 - 26 - 47* *only for Powershuttle		7 - 12 - 26 - N/A	
FRONT AXLE					
Model		4WD Heavy duty		4WD with limited slip differential	
Oscillation		+/- 11°		+/- 8°	
REAR AXLE					
Model		Carraro 28.50FR with Differential lock		Carraro 26.43FR with limited slip differential	
BRAKES					
Service brakes		Hydraulic foot operated, 2 discs per side		Hydraulic foot operated, 3 discs per side	
Parking brakes		Mechanically actuated wet brake pack on transmission output shaft			
TIRES					
Front		18" or 20"		24" or 28"	
Rear		26" or 28" or 30"		24" or 28"	
STEERING					
Type		Hydraulic Power Steering			
System pressure / Displacement	bar/cc	180 / 160			
Turning radius 4WD (external radius)	mm	4300 with brakes off 3600 with brakes on		8180 mm in 2WS mode with brakes off; 6820 mm in 2WS mode with brakes on; 4810 mm in 4WS mode with brakes off	
HYDRAULIC SYSTEM					
Type		Load sensing closed center hydraulic system with twin gear pump	Load sensing closed center hydraulic system with variable displacement pump	Load sensing closed center hydraulic system with twin gear pump	Load sensing closed center hydraulic system with variable displacement pump
Flow (@ 2200 rpm)	l/min	167	15 to 165	167	15 to 165
Pressure	bar	205			
SERVICE CAPACITIES					
Engine oil	l	13.6			
Transmission oil 2WD/4WD	l	20.8			
Front axle 4WD oil	l	9.6		11.8	
Rear axle oil	l	17.8		12.3	
Hydraulic oil	l	132			
Fuel tank	l	132			
Coolant	l	24			
ELECTRICAL SYSTEM					
Voltage		12V			
Battery		Single: 95 Ah 900 A or Double: 60 Ah, 600 A (each)			
Alternator		120 A			
CAB					
Certification		ROPS / FOPS			
Air Conditioning		Optional			
Storage compartments capacity		45 l including: 2 lockable, cooling box			
Speedometer		Optional			
Bluetooth radio		Optional			
NOISE					
Internal (cab)	dB(A)	77			
External	dB(A)	103			



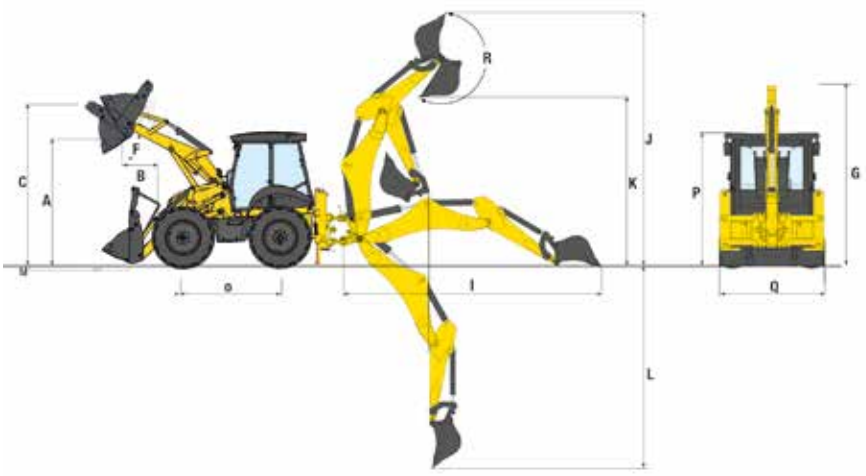
			B110C		B110C	
LOADER (4WD configuration)			**TOOL CARRIER LOADER ARM**		**STRAIGHT LOADER ARM**	
			Std bucket	4x1 bucket	Std bucket	4x1 bucket
A	Maximum dump height under bucket at 45°	mm	2606	2665	2711	2733
B	Dump Reach at full height	mm	844	771	815	757
C	Maximum height pin	mm	3461		3498	
F	Dump angle	°	43		40	
M	Below ground level digging depth	mm	166	139	105	158
	Maximum lifting capacity @ ground level	kg	5670		4970	4745
	Maximum lifting capacity @ max height	kg	3678		3553	3290
	Loader breakout force	daN	3015		3625	
	Bucket breakout force	daN	4062	4076	6340	6220

			B110C			
BACKHOE			**IN-LINE CYLINDER**			
			STD DIPPER	**EXTENDABLE DIPPER**	**STD DIPPER**	**EXTENDABLE DIPPER**
	Backhoe size	ft	14		15	
	Swinging angle	°	180			
I	Maximum reach from swing center	mm	5579	6313	5831	6965
J	Maximum operating height	mm	5425	6173	5616	6348
K	Maximum loading height	mm	3658	4424	3867	4601
L	Maximum digging depth	mm	4385	5627	4666	5881
R	Bucket rotation	°	203			
	Bucket breakout force	daN	4745			
	Dipper breakout force	daN	3767	2592	3358	2389

			B110C			
OVERALL DIMENSIONS						
G	Boom height (transport position)	mm	3800	3882	3800	3882
O	Wheel base	mm	2183			
P	Cab height	mm	2859			
Q	Overall width with standard loader bucket	mm	2340		2394	
	Minimum ground clearence	mm	337			

		B110C
Operating weight range	Kg	8080 - 9220

Operating weight is subject to machine configuration and attachment options



LOADER (4WD configuration)			B115C	
			TOOL CARRIER LOADER ARM	
			Std bucket	4x1 bucket
A	Maximum dump height under bucket at 45°	mm	2708	2619
B	Dump Reach at full height	mm	799	587
C	Maximum height pin	mm	3478	
F	Dump angle	°	56	
M	Below ground level digging depth	mm	93	127
	Maximum lifting capacity @ ground level	kg	4770	4580
	Maximum lifting capacity @ max height	kg	3380	3075
	Loader breakout force	daN	3554	3536
	Bucket breakout force	daN	5411	5497

BACKHOE			B115C	
			IN-LINE CYLINDER	
			STD DIPPER	EXTENDABLE DIPPER
	Backhoe size	ft	15	
	Swinging angle	°	180	
I	Maximum reach from swing center	mm	5831	6965
J	Maximum operating height	mm	5616	6348
K	Maximum loading height	mm	3867	4601
L	Maximum digging depth	mm	4666	5881
R	Bucket rotation	°	203	
	Bucket breakout force	daN	5971	
	Dipper breakout force	daN	3225	2389

OVERALL DIMENSIONS			B115C	
G	Boom height (transport position)	mm	3922	4013
O	Wheel base	mm	2200	
P	Cab height	mm	2964	
Q	Overall width with standard loader bucket	mm	2452	
	Minimum ground clearence	mm	450	

		B115C
Operating weight range	Kg	8800 - 9310

Operating weight is subject to machine configuration and attachment options

NEW HOLLAND CONSTRUCTION

BUILT AROUND YOU

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 of 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.

Learn more at www.newholland.com

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