

BACKHOE-LOADER spec guide

By Equipment Today

Backhoe-loaders are multi-taskers that combine the capabilities of two machines into one attachment-friendly piece of equipment. Here's a look at models available in North America from leading suppliers, plus some of the features designed to enhance serviceability and/or reduce owning and operating costs. To learn more about a particular brand or model, use the URL shown. Also be sure to visit the

interactive version of this spec guide at www.ForConstructionPros.com/specguide/backhoe-loader to sort and compare models and specs based on your specific requirements.



CASE CONSTRUCTION EQUIPMENT

CASE N Series backhoes feature ProControl, a swing dampening system that eliminates rebound on the backhoe, providing faster cycle times, less wear on components, greater operator precision and less fatigue. Engine ECO Mode encompasses a number of features that include ECO settings in both loader and backhoe functions to provide up to 10% fuel savings with minimal loss in productivity, as well as auto engine idle and auto shutdown.

www.forconstructionpros.com/10072356

Model	Net HP	Operating Weight (lbs.)	Backhoe Dig Depth (ft. in.)	Backhoe Breakout Force (lbs.)	Loader Bucket Cap. (cu. yds.)	Loader Breakout Force (lbs.)
580 Super N	97	17,269	14' 4"	14,452	.85-1.29	10,947
580 Super N WT	110	20,077	14' 5"	15,070	1.00-1.50	10,873
580N	90	16,589	14' 8"	11,517	.85-1.29	10,622
580N EP	74	15,795	14' 11"	11,517	.85-1.29	9,607
590 Super N	110	20,532	15' 5"	15,853	1.00-1.50	12,776



MECALAC

Mecalac backhoe-loaders are specially designed to provide immediate ROI without sacrificing performance or quality. Pairing a powerful Deutz four-cylinder, Tier 4 Final, electronic fuel injection diesel engine and robust hydraulic system, the TLB840R excels at digging, reaching, lifting and loading tasks. The curved boom design and up to 13-ft. 5-in. loading height provide optimal clearance to reach up and over obstacles, as well as the ability to load closer into trucks for greater productivity.

www.forconstructionpros.com/12313048

Model	Net HP	Operating Weight (lbs.)	Backhoe Dig Depth (ft. in.)	Backhoe Breakout Force (lbs.)	Loader Bucket Cap. (cu. yds.)	Loader Breakout Force (lbs.)
TLB840R	74	16,138	17' 10"	12,139	1.32	9,442
TLB890	100	19,345	18' 8"	15,242	1.56	12,454
TLB990	100	19,323	18' 6"	15,242	--	12,454

Specs based on standard boom configuration



VF-VENIERI

VF Venieri (Ranko Equipment) has the only articulated multifunctional BHL available. It is more than a backhoe-loader, it is two machines in one. It combines an articulated front loader with Z-bar kinematics and a power excavator on the back with the carry-on system (four wheels equal size drive). All models are powered by a hydrostatic transmission that enables a 25-mph platform that can do a wide variety of tasks by utilizing various attachments on the front and rear.

www.forconstructionpros.com/21015993

Model	Net HP	Operating Weight (lbs.)	Backhoe Dig Depth (ft. in.)	Backhoe Breakout Force (lbs.)	Loader Bucket Cap. (cu. yds.)	Loader Breakout Force (lbs.)
VF 1.33B	52	8,800	9'-10' 7"	5,730	.5	5,600
VF 8.23F	106	18,700	15' 1"-17' 8"	10,050	1.4	15,200
VF 10.33C	106	20,700	15' 8"-17' 8"	12,120	1.7	20,060
VF 10.23D	106	21,900	16' 4"-19' 8"	13,450	1.7	23,800



CATERPILLAR

Caterpillar backhoe-loaders include, but are not limited to, a new CAT C3.6 engine that offers approximately 10% fuel efficiency improvement on the 415 to 430 models. All models are equipped with a load-sensing piston pump, reducing fuel burn and stress on the hydraulic system. Tool-free access to clean flip-out cooling packages reduces clean-out to minutes. All E Sticks are easily field adjustable using simple hand tools, allowing the operator to tighten non-metallic wear pads in less than 30 minutes to maintain stick wear without having to take the machine back to the shop or contact a service technician.

www.forconstructionpros.com/10075307

Model	Net HP	Operating Weight (lbs.)	Backhoe Dig Depth (ft. in.)	Backhoe Breakout Force (lbs.)	Loader Bucket Cap. (cu. yds.)	Loader Breakout Force (lbs.)
415	70	16,279	14'	12,207	1.0	12,207
416	86	16,532	14'	12,207	1.0	12,207
420	92	17,271	14'	11,216	1.25	11,216
420 XE	92	17,271	14'	11,216	1.3	11,216
430	107	18,051	15' 2"	11,216	1.25	11,216
440	104	21,544	15' 6"	13,560	2.0	13,560
450	131	24,039	17'	13,560	2.0	13,560



NEW HOLLAND CONSTRUCTION

The C Series backhoe-loaders from New Holland feature a tilting engine hood for optimal ground-level access to the engine and service points. The one-piece hood remains attached while some competitors have panels that can be lost or break. Daily maintenance checks are accessible from the ground and grouped together for time and cost reduction. A dedicated battery compartment on the right of the machine gives easy access to the battery and a master battery cut-off switch.

www.forconstructionpros.com/10072472

Model	Net HP	Operating Weight (lbs.)	Backhoe Dig Depth (ft. in.)	Backhoe Breakout Force (lbs.)	Loader Bucket Cap. (cu. yds.)	Loader Breakout Force (lbs.)
B95C	95	17,506	14' 6"	12,933	1.1	14,253
B110C	108	18,525	15' 6"	12,969	1.3	12,253

JCB

All daily under-the-hood checks on JCB backhoe-loaders are performed automatically by the Auto Check management system. Other JCB Automate features improve usability and fuel efficiency, such as Auto Preheat, Auto Idle, Auto Throttle and Auto drive. The one-piece hood offers easy access to each side of the engine. The Tier 4 Final engine does not require a DPF, improving serviceability. The company offers a range of 74-hp machines that require no diesel exhaust fluid for lower operating costs.

www.forconstructionpros.com/1007346

Model	Gross HP	Operating Weight (lbs.)	Backhoe Dig Depth (ft. in.)	Backhoe Breakout Force (lbs.)	Loader Bucket Cap. (cu. yds.)	Loader Breakout Force (lbs.)
1CXT	49	9,572	10' 1"	5,291	.47	5,180
3CX Compact	74	13,514	14' 2"	7,363	.92	8,285
3CX	74	17,196	18' 6"	13,730	1.30	13,600
3CX-14	74	17,704	18' 6"	13,730	1.40	13,603
3CX-14 Super	91/109	18,614	18' 6"	13,730	1.60	13,603
3CX-15 Super	109	19,090	20' 1"	13,730	1.60	13,603
4CX-14 Super	109	19,172	18' 6"	13,730	1.60	13,728
4CX-15 Super	109	19,648	20' 1"	13,730	2.00	13,728



KUBOTA

The Kubota L47 and M62 incorporate the HST Plus transmission, which automatically controls the hydrostatic pump and drive motor to provide optimal control. The transmission also boosts efficiency through features like the standard Stall Guard Plus and Backhoe Crawling Mode. The IntelliPanel provides vital machine information and relays key messages to the operator, including machine working status, engine conditions, fuel and oil warning signals, plus an array of maintenance indicators to help keep the machine in peak working condition.

www.forconstructionpros.com/10073594

Model	Net HP	Operating Weight (lbs.)	Backhoe Dig Depth (ft. in.)	Backhoe Breakout Force (lbs.)	Loader Bucket Cap. (cu. yds.)	Loader Breakout Force (lbs.)
B26TLB	24.3	4,001	8' 3.5"	4,210	.34	2,343
L47TLB	47.1	7,205	10'	5,825	.57	4,531
M62TLB	63	8,925	14' 2.4"	6,572	.87	5,992



JOHN DEERE

New for the 310SL, Pressure Compensated, Load Sensing (PCLS) hydraulics provide increased productivity and smooth multi-function control at any engine speed. PCLS also allows for trenching operation to be conducted at a lower engine rpm, reducing fuel consumption. Auto idle automatically slows engine speed when the backhoe pilot controls are released, with the preset engine speed resuming when levers are reactivated. Auto shutdown turns off the engine after an operator-selected period of inactivity.

www.forconstructionpros.com/10073480

Model	Net HP	Operating Weight (lbs.)	Backhoe Dig Depth (ft. in.)	Backhoe Breakout Force (lbs.)	Loader Bucket Cap. (cu. yds.)	Loader Breakout Force (lbs.)
310L EP	69	13,822	13' 8"	10,844	1.00-1.25	9,564
310L	100	14,669	14' 1"	10,844	1.00-1.25	9,512
310SL	103	15,872	14' 3"	12,356/13,634*	1.12-1.31	10,541
310SL HL	113	16,571	15' 1"	15,723/17,349*	1.12-1.31	10,598
315SL	103	17,554	13' 5"	12,361	1.00-1.31	10,608
410L	116	17,786	15' 11"	15,723/17,350*	1.31-1.50	10,361
710L	148	25,588	17' 3"	17,622/18,959*	1.31-1.87	16,539

*Lift mode