

TRACTOR LOADER BACKHOE



Specifications

Max Gross Vehicle Weight	6,9 t
Net Engine Power	64.8 kW (87 hp)
Dig Depth (Std)	4.46 m
Dig Depth (Ext)	5.86 m

Features

- ▶ Large 1.0 m³ bucket decreases loader cycle times.
- ▶ Exceptionally narrow backhoe boom offers excellent visibility.
- ▶ Strong loader with excellent lift capacity and bucket breakout force help improve productivity.
- ▶ Exceptional ground clearance improves maneuverability around the job site, even in soft, difficult conditions.
- ▶ Tandem gear pumps and a closed center hydraulic system provide more controlled power to help get jobs done faster.
- ▶ Standard large, comfortable cab with a full suspension seat.

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SPECIFICATIONS

ENGINE

Manufacturer, model	Perkins, Model 1104D-44T
Induction	Turbo
Gross power rating @ 2,200 rpm (SAE J 1995)	70.3 kW (94 hp)
Net torque @ 1,400 rpm (SAE J 1349)	375 Nm
Displacement	4.4 l

Tier-3 1100 Series with reduced noise and lower exhaust emissions. Electric fuel lift pump for increased reliability. Easy service Ecoplus fuel filters. Service periods at 500 hours. Integrated closed circuit breather further reduces emissions. Key stop/start. Two-stage dry air cleaner.

ELECTRICAL SYSTEM

Alternator	100 A
Battery (single)	770 CCA, 115 amp/hr -12 V
Battery (double)	590 CCA - each, 72 amp/hr -12 V

Battery step-mounted for good access. Low maintenance battery. Connectors sealed against water and dust. 33 circuit fuses. 25 circuit relays.

TRANSMISSION & GROUND SPEEDS

Carraro transmission. Power shuttle gearbox with 4 speeds forward and 4 speeds reverse. Single-stage torque converter with 3.01:1 stall ratio. Fast, smooth gear changes on the move. High transport speed reduces highway travel times. High tractive effort in first and second gears for high loader performance. Modulated forward and reverse clutch packs enable smooth direction changes. 4WD standard and 2WD optional. Front console switch allows effortless engagement of 4WD.

Tires:	2WD	4WD
	11Lx16 12 ply front	12.5/80x18 10 ply front
	19.5Lx24 10 ply rear	19.5Lx24 10 ply rear

Forward and Reverse				
Gear	1	2	3	4
km/h	5.31	8.54	18.77	37.49

TURNING CIRCLE (4 WD)

	Over tires	Over bucket
Without brakes	7.7 m	10.7 m
With brakes	6.8 m	10.0 m

AXLES

	Front	Rear
Static load rating	237,500 N	187,500 N
Dynamic load rating	95,000 N	75,000 N

Outboard planetary final drives for easier servicing. Foot-actuated differential lock for ease of operation. 16° front axle oscillation to maintain maximum ground contact and traction.

BRAKES

Long life sealed wet disk brakes. Self-equalizing and self-adjusting. Friction area per brake assembly measures 728 cm². Selectable 2-wheel or 4-wheel braking.



HYDRAULIC SYSTEM

Main pump @ 2,200 rpm	80 l/min
Secondary pump @ 2,200 rpm	62 l/min
System main relief setting	225 bar
Unloader settings	207 bar

Closed center system incorporating load-sensing and flow-sharing. Twin gear pumps for reliability. Power Boost to match digging power and speed to application. Automatic or manually activated to give more precise control as required. Single pedal operation of auxiliary circuit and extending dipper (optional). Hydraulic oil cooler reduces operating temperatures and tilts forward for easy cleaning. Hydraulic tank and filter easily accessed from ground level. Commercial hydraulic pumps. Rexroth hydraulic valves. Pacoma hydraulic cylinders.

CAB (OPTIONAL)

Wide opening doors with steps and large grab rails. Large windows, lowline curved hood and full depth rear window enhance visibility. Door windows can be partially or fully opened for ventilation. Raised rear window provides ventilation and protection from the rain. Backlit, touch operated switches. Adjustable tilt steering wheel. Two front and rear defrosting vents. Powerful 3-speed heater with two forward and three rear vents. Adjustable rear working lights.

Noise emission ambient L_{WA} 78 dB (A)

Air conditioning option available.

Four-post, open-ROPS as standard equipment.

Pilot control option available for backhoe controls.

WEIGHT CONFIGURATION

Total machine weight	6,887 kg
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LOADER PERFORMANCE

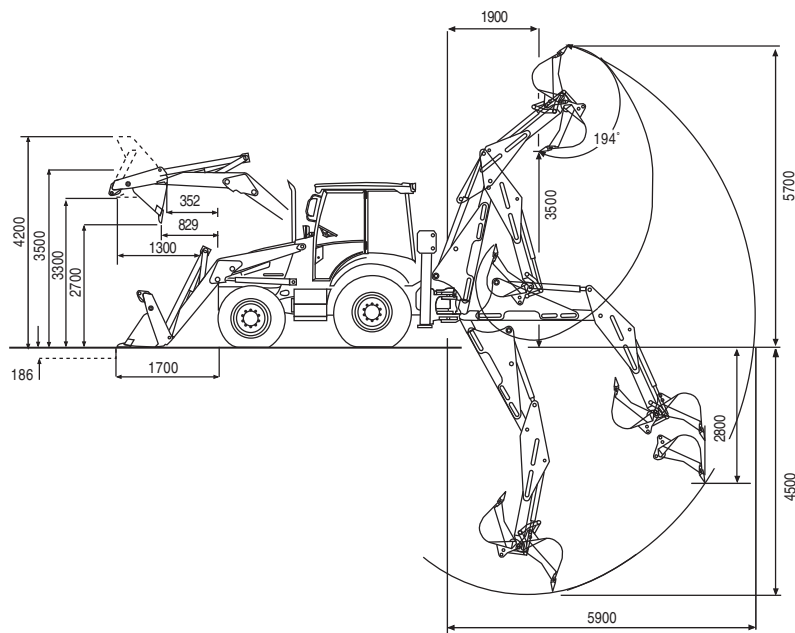
	1.0 m ³ Bucket	1.0 m ³ 7-in-1 Bucket
Bucket breakout	4,756 kgf	4,580 kgf
Arms breakout	4,685 kgf	4,345 kgf
Lift capacity to full height	3,449 kgf	3,058 kgf

Outboard planetary final drives for easier servicing. Foot-actuated differential lock for ease of operation. 16° front axle oscillation to maintain maximum ground contact and traction.

FLUID CAPACITIES

Fuel	130 l
Coolant	16 l
Engine oil w/ filter	8.5 l
Transmission	15.0 l
Rear axle (4WD)	17.5 l
Front axle (4WD)	12.5 l
Hydraulic System	143 l

WORKING RANGES:



BACKHOE DIMENSIONS

	Standard Dipper	Deep Dig Dipper (Retracted)	Deep Dig Dipper (Extended)
Dig depth SAE	4.46 m	4.46 m	5.86 m
0.61 m flat bottom SAE	4.45 m	4.45 m	5.80 m
Reach ground level to swing post	5.87 m	5.87 m	7.14 m
Loading reach	1.86 m	1.86 m	2.79 m
Operating height	5.75 m	5.75 m	6.73 m
Loading height SAE	3.48 m	3.48 m	4.46 m
Maximum load height	3.74 m	3.74 m	4.72 m
Maximum straight wall dig depth	2.75 m	2.75 m	4.11 m
Bucket rotation	Speed	194°	194°
	Power	163°	163°
Side reach from stabilizers	3.91 m	3.91 m	5.18 m
Stabilizer spread	3.43 m	3.43 m	3.43 m
Maximum leveling angle	15°	15°	15°
Backhoe Performance			
Swing torque	16,100 Nm	16,100 Nm	16,100 Nm
Dipper tearout	3,778 kgf	3,778 kgf	2,531 kgf
Bucket tearout	Speed	5,278 kgf	5,278 kgf
	Power	6,552 kgf	6,552 kgf

LOADER DIMENSIONS

	1.0 m³ Bucket	1.0 m³ 7-in-1 Bucket
Dump clearance at 45°	2.68 m	2.68 m
Dump height (fully dumped)	2.60 m	2.60 m
Load over height	3.28 m	3.28 m
Hinge pin height	3.52 m	3.52 m
Pin forward reach	352 mm	352 mm
Reach at ground	1.65 m	1.65 m
Max. reach at full height	1.28 m	1.28 m
Reach at full height, fully dumped	645 mm	645 mm
Dig depth	186 mm	186 mm
Rollback at ground	45°	45°
Maximum dump angle	57°	57°
Overall operating height	4.20 m	4.25 m

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LOADER ATTACHMENTS

	Standard Capacity Bucket	7-in-1 Bucket
Width	2.31 m	2.31 m
Capacity	1.0 m ³	1.0 m ³
Weight	400 kg	730 kg
	High Capacity Bucket	High Capacity 7-in-1 Bucket
Width (Optional)	2.39 m	2.39 m
Capacity	1.2 m ³	1.2 m ³
Weight	430 kg	767 kg

HYDRAULIC HAMMER OPTION

Sound-insulated. Tools: Moil point or chisel point

FORK ATTACHMENTS (BUCKET-MOUNTED)

	Std Cap Bucket	7-in-1 Bucket
Fork length		1.07 m
Section width		80 mm
Assembly weight		150 kg
Max. operating height		3.09 m
Reach at ground level		2.71 m
Reach at full height	2.23 m	2.23 m
S.W.L. at 500 mm load center		1,000 kg

BACKHOE OPTION

Pilot operated controls with pattern changer for backhoe.

BACKHOE LIFTING PERFORMANCE

Bucket Pin HT Above/Below kg		BOOM LIFT Extending			DIPPER LIFT Extending			CRANING LIFT Extending		
Ground	Std	Ret	Ext	Std	Ret	Ext	Std	Ret	Ext	
+5.48 m	-	-	-	-	-	-	-	-	1,288	
+4.87 m	-	-	830.1	-	-	1,064	-	-	1,288	
+4.27 m	1,418	1,305	856.8	1,730	1,701	976	1,956	1,948	1,276	
+3.66 m	1,457	1,313	895.8	1,544	1,420	904	1,813	1,773	1,266	
+3.05 m	1,457	1,270	883.1	1,500	1,329	860	1,779	1,756	1,266	
+2.44 m	1,435	1,251	868.2	1,572	1,383	904	1,794	1,773	1,311	
+1.83 m	1,373	1,217	868.2	1,819	1,650	1,081	2,100	2,004	1,462	
+1.22 m	1,339	1,169	868.2	-	-	1,321	-	-	1,684	
+0.61	1,296	1,117	865.9	-	-	1,758	-	-	1,950	
0	1,244	1,100	816.0	-	-	1,994	-	-	2,253	
-0.61 m	1,226	1,085	810.1	-	-	-	-	-	-	
-1.22 m	1,200	1,117	810.1	-	-	-	-	-	-	
-1.83 m	1,220	1,125	810.1	-	-	-	-	-	-	
-2.44 m	1,300	1,148	939.8	-	-	-	-	-	-	
-3.05 m	-	1,172	1,050	-	-	-	-	-	-	

1. Lift capacities shown are 87% of maximum lift force per SAE definition J31 and are not stability limited unless marked with an (*).

2. Figures stated apply within 90° either side of machine.

3. Figures stated are determined by static tests and do not include dynamic factors.

4. Figures stated are without bucket fitted.

5. Boom is angled at 78° for dipper lift capacities.

6. Loader bucket is on ground.

7. Crane capacity determined with hydraulic boom lock-up feature selection.

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Effective Date: March 2010. Product specifications and prices are subject to change without notice or obligation. The photographs and/or drawings in this document are for illustrative purposes only. Refer to the appropriate Operator's Manual for instructions on the proper use of this equipment. Failure to follow the appropriate Operator's Manual when using our equipment or to otherwise act irresponsibly may result in serious injury or death. The only warranty applicable to our equipment is the standard written warranty applicable to the particular product and sale and Terex makes no other warranty, express or implied. Products and services listed may be trademarks, service marks, or trade names of Terex Corporation and/or its subsidiaries in the USA and other countries. All rights are reserved. Terex is a registered trademark of Terex Corporation in the USA and many other countries. © 2010 Terex Corporation.

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