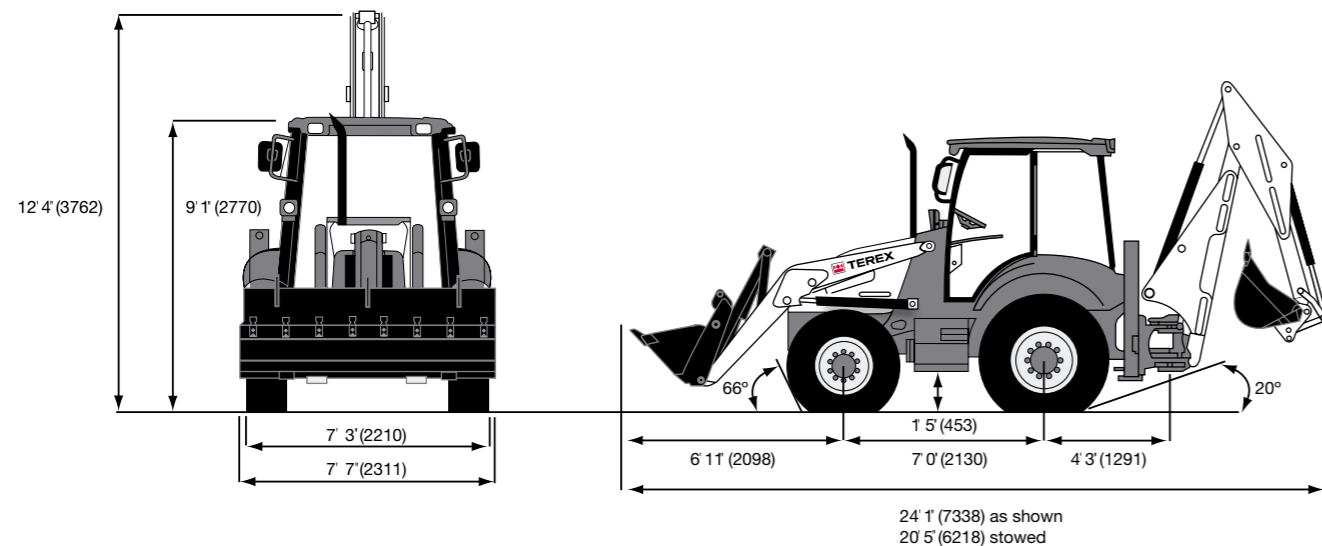


Dimensions



Specifications

Cab	
Low internal noise level of just 78 dBA	Instrumentation easy to clean
Large areas of tinted glass allow superb all round visibility	Heavy duty easy to clean rubber floor mat
Spacious interior giving ample room to the operator at both work stations	Twin externally mounted rear view mirrors
Low line curved hood enhances forward visibility	Wide door opening, self-cleaning steps and large grab rails make access easy
Hazard warning and full lighting controls	Full depth rear window for comprehensive visibility to the trench
Adjustable tilt steering wheel to suit all operating styles	Fully adjustable suspension seat with lap belt maximises operator comfort
Audible/visual warning covering park brake, transmission oil temp, engine coolant, engine oil pressure, hydraulic oil filter and air cleaner	Visual indication on 4wd engagement, hazard lights, main beam, battery charge, direction indicators and front / rear wipers
In the raised position the rear window provides ventilation yet gives protection from rain	ROPS canopy version available
Vandal covers for the instrumentation consoles on the ROPS canopy	Door windows can be partially or fully opened for maximum ventilation
Air re-circulation enables quick warm up on cold days	Adjustable rear working lights
Cab is ROPS and FOPS approved for operator comfort	Two front and two rear defrosting vents
Well laid out controls for ease of operation	Powerful 3 speed heater supplies a further two forward and three rear vents
Touch operated switches for operator convenience	Air conditioning option available
Extensive stowage facilities	

Effective Date: 01 November 2008. 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. © 2008 Terex Corporation. ♻️ Printed on material using 55% recycled fibre from both pre and post-consumer sources, together with 45% virgin ECF fibre from sustainable forests. 820 1108-EN

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BACKHOE LOADER



820

Specification

Operating Weight	7,165 kg
Gross Engine Power	70 kW (93.8 hp)
Dig Depth	4,471 – 5,815 mm

Benefits

- Engine emission compliant to EU Stage 3A, US EPA Tier 3
- 500 hours service period
- 4 speed synchro shuttle gearbox
- High transport speed for reduced highway journey times
- Foot operated differential lock for ease of operation
- High capacity long life sealed wet disc brakes
- Selectable 2 or 4 wheel braking
- Closed centre flow sharing hydraulics
- Cleanable hydraulic oil coolers

Specification

Engine	
Engine Model	1104D-44T
Capacity	269 (4.4) ³ (ltr)
Rated Speed	2200 rpm
Gross Power @ 2200 rpm Cert. Rating to UN/ECE R120	70 (93.8*) kW(hp)
Derived Net Rating @ 2200 rpm to ISO/80/1269/EC	65.7* (88.1*) kW(hp)
Max Torque @ 1400 rpm UN/ECE R120 ISO 80/1269/EC	392 (289*) Nm(lbfft) 372* (274*) Nm(lbfft)

*Nominal Non-Certified Values

Transmission		
Tyres	Front:	Rear:
	12.5 / 80x18 12.5 x 18	16.9 x 28 16.9 x 30
Travel Speeds	Forward:	Reverse:
1st	5.8 (3.6) Km/h (mph)	6.1 (3.8) Km/h (mph)
2nd	9.4 (5.8) Km/h (mph)	9.9 (6.2) Km/h (mph)
3rd	19.6 (12.2) Km/h (mph)	20.6 (12.8) Km/h (mph)
4th	37.0 (23.0) Km/h (mph)	38.9 (24.2) Km/h (mph)

Loader Performance		
	Standard Shovel	7-in-1 Shovel
Shovel Breakout	4756 (10485) kgf (lbf)	4580 (10097) kgf (lbf)
Arms Breakout	4685 (10329) kgf (lbf)	4345 (9597) kgf (lbf)
Lift Capacity To Full Height	3449 (7604) kg (lb)	3058 (6742) kg (lb)

Loader Attachments		
	Standard Shovel	7-in-1 Shovel
Width	2311 (7' 7") mm (ft)	2311 (7' 7") mm (ft)
Capacity	1.0 (1.32) m ³ (yd ³)	1.0 (1.32) m ³ (yd ³)
Weight	400 (880) kg (lb)	730 (1606) kg (lb)

Backhoe Attachments			
Attachments	Width	Capacity	Weight
Trench Bkts	12in (305mm)	2.94ft ³ (83ltrs)	207lb (94kg)
	18in (450mm)	4.37ft ³ (124ltrs)	247lb (112kg)
	24in (600mm)	6.51ft ³ (184ltrs)	295lb (134kg)
	24in (600mm)	8.22ft ³ (233ltrs)	295lb (143kg)
	30in (750mm)	8.74ft ³ (248ltrs)	342lb (155kg)
Ditch cleaning	60in (1525mm)	8.0ft ³ (220ltrs)	320lb (145kg)
	72in (1830mm)	10.0ft ³ (300ltrs)	388lb (176kg)
Sq hole bucket	36in (900mm)	4.41ft ³ (125ltrs)	353lb (160kg)

Backhoe Performance			
	Standard Dipper	Deep Dig Dipper	
		Ret	Ext
Slew Torque	16100 (11875) Nm(lbfft)	16100 (11875) Nm(lbfft)	16100 (11875) Nm(lbfft)
Dipper Tearout	3946 (8670) kgf (lbf)	3946 (8670) kgf (lbf)	2644 (5829) kgf (lbf)
Bucket Tearout	5260 (11596) kgf (lbf)	5260 (11596) kgf (lbf)	5260 (11596) kgf (lbf)
Hydraulic Lift Capacity (Including Bucket)	1384 (3051) kg (lb)	1148 (2531) kg (lb)	812 (1790) kg (lb)

Total Machine Weight	
Total Machine Weight	15763 (7165) lb (kg)
<i>Add/Delete</i>	
7 in 1 Multi - Purpose	+726 (330) lb (kg)
7 in 1 Multi - Purpose Fork Kit	+330 (150) lb (kg)
Deep Dig Dipper	+477 (217) lb (kg)
ROPS Frame	-422 (192) lb (kg)

Axles and Brakes		
Axle Ratings	Tyres	SAE J43
Front kg (lbs)	12.5 x 18	6207 (13655)
Rear kg (lbs)	16.9 x 28	6155 (13541)

Hydraulics	
Main Pump @ 2200 rpm	17.7/80 gpm (lpm)
Secondary Pump @ 2200 rpm	13.7/62 gpm (lpm)
System Main Relief Setting @ 2200 rpm	3250/225 psi (bar)
Unloader Settings @ 2200 rpm	3000/207 psi (bar)
Combined flow	160 l/min

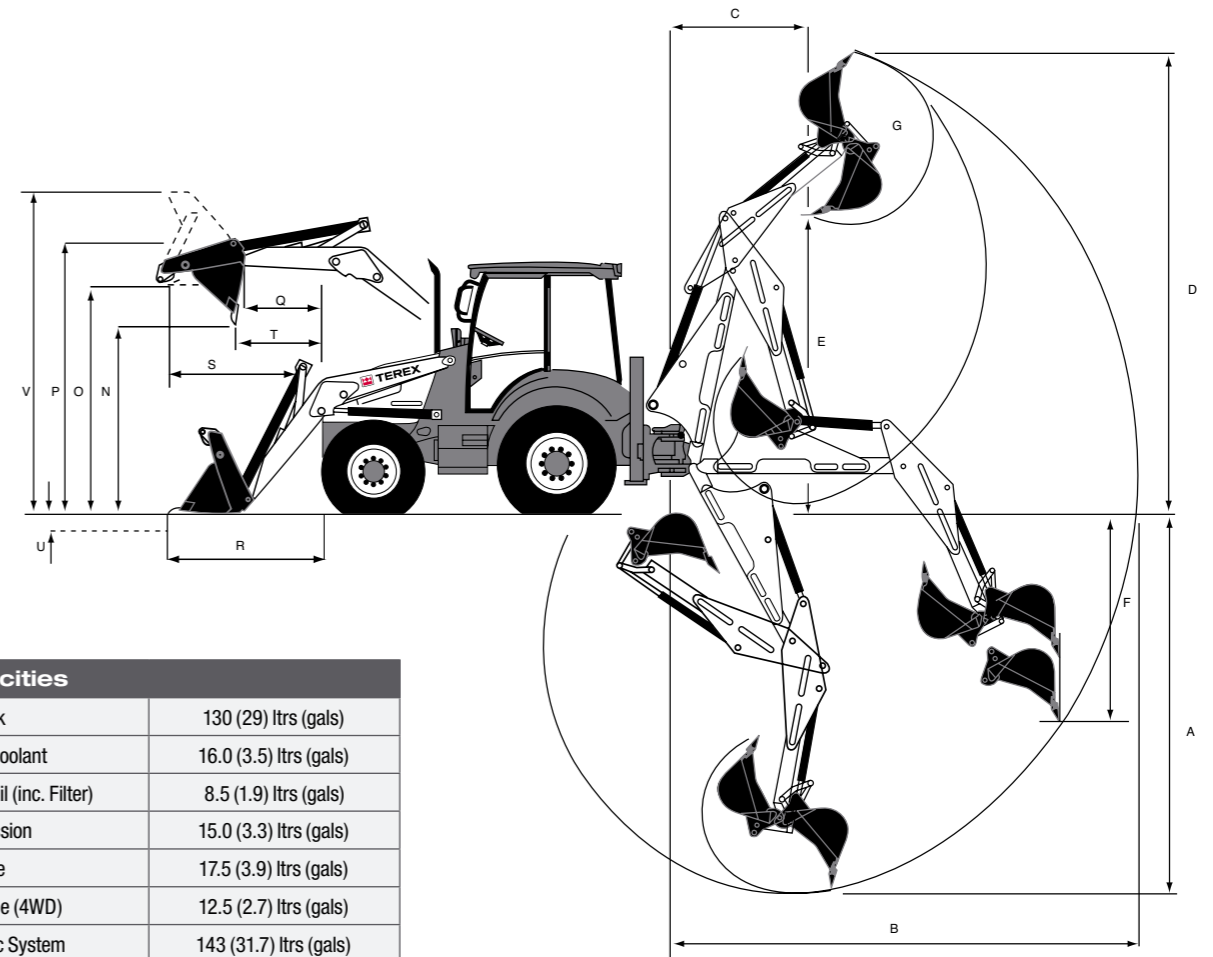
Electrics	
12 volt system	
Battery step mounted for good access	
Low maintenance battery	
100 A alternator	
Connectors sealed against water and dust	
33 circuit fuses	
25 circuit relays	
Battery isolator	

Forks	
Fork Length	1067 (3' 6") mm (ft)
Section Width	80 (3") mm (ins)
Assembly Weight	150 (330) kg (lb)
Max. Operating Height	3097 (10' 2") mm (ft)
Reach at Ground Level	2697 (8' 10") mm (ft)
Reach at Full Height	2232 (7' 4") mm (ft)
S.W.L. At 500mm Load Centre	1000 (2204) kg (lb)

Turning Circles		
	Over Tyres	Over Bucket
Without Brakes	7.7 (25' 3") m(ft)	10.7 (35' 1") m(ft)
With Brakes	6.8 (22' 3") m(ft)	10.0 (32' 10") m(ft)

Depending on tyre size

Working Ranges



Capacities	
Fuel Tank	130 (29) ltrs (gals)
Engine Coolant	16.0 (3.5) ltrs (gals)
Engine Oil (inc. Filter)	8.5 (1.9) ltrs (gals)
Transmission	15.0 (3.3) ltrs (gals)
Rear Axle	17.5 (3.9) ltrs (gals)
Front Axle (4WD)	12.5 (2.7) ltrs (gals)
Hydraulic System	143 (31.7) ltrs (gals)

	Backhoe Dimensions		
	Standard Dipper	Deep Dig Dipper	
		Ret	Ext
A Dig Depth - Maximum SAE 2ft Flat Bottom SAE	4471 (14' 8") mm (ft)	4471 (14' 8") mm (ft)	5815 (19' 1") mm (ft)
	4455 (14' 7") mm (ft)	4455 (14' 7") mm (ft)	5804 (19' 1") mm (ft)
B Reach - Ground Level to Slew	5730 (18' 10") mm (ft)	5730 (18' 10") mm (ft)	7020 (23' 1") mm (ft)
C Loading Reach	1996 (6' 7") mm (ft)	1996 (6' 7") mm (ft)	2924 (9' 7") mm (ft)
D Operating Height	5659 (18' 7") mm (ft)	5659 (18' 7") mm (ft)	6637 (21' 9") mm (ft)
E Loading Height SAE Max Load Height	3553 (11' 8") mm (ft)	3553 (11' 8") mm (ft)	4531 (14' 10") mm (ft)
	3871 (12' 8") mm (ft)	3871 (12' 8") mm (ft)	4849 (15' 11") mm (ft)
F Maximum Straight Wall Dig Depth	2602 (8' 6") mm (ft)	2602 (8' 6") mm (ft)	3991 (13' 1") mm (ft)
G Bucket - Rotation	194°	194°	194°
	Total Side Shift	1286 (4' 3")	1286 (4' 3")
	Stabiliser Spread	2115 (6' 11")	2115 (6' 11")
	Max Levelling Angle	8°	8°

Loader Dimensions		
	Standard 7 Shovel	7-in-1 Shovel
N Dump Clearance at 45° Dump Height (Fully Dumped)	2708 (8' 11") mm(ft) 2629 (8' 8") mm(ft)	2708 (8' 11") mm(ft) 2629 (8' 8") mm(ft)
O Loadover Height	3310 (10' 10") mm(ft)	3319 (10' 10") mm(ft)
P Hinge Pin Height	3550 (11' 8") mm(ft)	3550 (11' 8") mm(ft)
Q Pin Forward Reach	352 (1' 2") mm(ft)	352 (1' 2") mm(ft)
R Reach at Ground	1622 (5' 4") mm(ft)	1622 (5' 4") mm(ft)
S Max. Reach at Full Height	1282 (4' 3") mm(ft)	1282 (4' 3") mm(ft)
T Reach at Full Height- 45° Reach at Full Height- Fully Dumped	829 (2' 9") mm(ft)	829 (2' 9") mm(ft)
	645 (2' 1") mm(ft)	645 (2' 1") mm(ft)
U Dig Depth Rollback at Ground Max Dump Angle	156 (6") mm(in) 45° 57°	156 (6") mm(in) 45° 57°
	U Overall Operating Height	4230 (13' 11") mm(ft)