

6408

ENGINE

Perkins naturally aspirated 1004.42 engine:

- 4 in-line cylinders.
- Compression ratio of 18.5:1.
- Bore 4.054in (103mm).
- Stroke 5in (127mm).
- Displacement 256 cu in (4.2 litres).
- Utilizes the latest advanced design technology for low fuel consumption, low noise, high torque and high power output for excellent performance and reliability.
- Emissions compliant to US EPA Stage 1.
- Two stage dry air cleaner.
- Key stop/start with thermostart feature.

Engine Power @2000 rpm	hp	68	
Net	kW	51	
Max Torque	lbft	202	_
@ 1200 rpm	Nm	273	

A)	LE LOAD	RATING	S
		Front	Rear
Static	lb	30,305	25,000
	kg	13,750	11,343
SAE J43	lb	13,997	13,422

6,348

kg

TRANSMISSION

Soft-shift Powershuttle transmission featuring large capacity, fully modulated, oil cooled hydraulic clutch packs, 4 speed fully synchromesh gearbox and single stage torque converter having a high 2.87:1 stall ratio for shock free transition of power, ensuring maximum traction and excellent bucket penetration.

- Direction changes solenoid operated via foot or hand controls.
- Conventional "H" pattern single gear lever.
- 4WD provided via a side mounted transmission drive pod, engaged on the move in all 4 gears via an instrument console mounted switch.
- Creeper gearbox is available as an option, with a 4:1 reduction (increases the machine overall wheel base by a nominal 6"/152mm)(Cab and platform only).

Travel speeds @2200 rpm with following tires:

Gear	16.9	16.9 x 24		
	mph	kph		
1 st	3.4	5.4		
2 nd	5.9	9.5		
3 rd	12.1	19.5		
4 th	17.5	28.2		
Power take of	ft:			
јуре	2 speed independent			
Speed	540 rpm @ 1807 engine rpm 1000 rpm @ 1900 engin rpm			
Shaft	Interchangeable 6 or 21 spline 1.375" (35 mm) diameter			
Power	53 hp			

BRAKES AND AXLES

- In-board, multi-plate wet disc on rear axle for fade free performance and a long life.
- Hydraulically actuated through self equalizing pedals to ensure straight line braking.
- Independent, split brake facility for full power turns.
- Large 347in² (2,235cm²) braking area.
- Tangentially mounted hydraulic slave cylinders activated via twin master

cylinders for low effort operation.

6.090

- Conventional hand operated ratchet type parking brake lever working through balanced cable operating on main service brakes.
- Heavy duty outboard planetary final drive ensuring smooth effective transfer of the excellent tractive effort irrespective of ground conditions.
- Electro/hydraulic diff lock engaged by a dash mounted rocker switch for ease of operation.
- Commonized cast front axle beam for both 2WD and 4WD machines with 22° oscillation, ensuring maximum ground contact and traction in the most arduous conditions
- Exceptional 53° steer angle on 2WD (48° on 4WD) providing tight turning radius for superior maneuverability.



SPECIFICATION WITH STANDARD TIRES

Dimensions	2V	VD	40	/D
	in	mm	in	mm
A Overall operating height	160.6	4079	161.8	4110
B Max. hinge pin height	131	3327	132.3	3360
C Loadover height	120.6	3063	121.8	3094
D Dump clearance @ 45°	103.3	2624	103.3	2654
E Dump angle	5	0°	5	O°
F Dump reach @ 45°	28	711	28	711
G Roll back angle	4	8°	4	8º
H Digging depth	4.6	117	3.4	86
I Wheelbase	81.4	2068	81.4	2068
J Min. ground clearance	11.4	290	11.4	290
K Overall length	1.000000000		Second Second	
- Tractor less loader	123	3124	124.4	3160
- Tractor loader	183	4548	183	4648
L Height over exhaust	93.6	2377	93.6	2377
M Height over steer wheel	010404-07		1000000	
- Footstep model	67.6	1717	67.9	1717
- Cab / Platform	71.8	1824	71.8	1824
N Height over operator compartment	10/2003		1.000	
- Footstep model	94	2388	94	2388
- Cab / Platform	94	2388	94	2388
O Track				
- Front	67.2	1706	62.5	1587
- Rear	62.8	1594	62.8	1594
P Overall width	80	2032	80	2032

1	2			<i>k</i> :/)
A	в	c	D	

ALL DIMENSIONS BASED ON 16.9 X 2 LONG WHEEL BASE ADD 6IN (152MM

Add/delete th	he follow
---------------	-----------

- 529 lb	(24
+ 573 lb	(26
x	
+ 573 lb	(26
+ 463 lb	(21
box)	
+ 2,073 lb	(+92
+ 2,138 lb	(+97
+1,636 lb	(74
	+ 573 lb + 573 lb + 463 lb box) + 2,073 lb + 2,138 lb

	B
	Width
Standard	80 ins (203
Multi-Purpose	80 ins (203)

STEERING WITH STANDARD TIRES

CYLINDER DATA

Bucket

2.56 (65)

1.57 (40)

19.37 (492)

Steering 2.48 (63)

0.98 (25)

8.98 (228)

Beam

3.15 (80)

1.77 (45)

29.49 (749)

Equipped with full hydrostatic steering for low operator effort, with manual override when engine is idle or stationary.

2WD and 4WD turning circles:

ins (mm)

ins (mm)

ins (mm)

Bore

Rod

Stroke

		Between Walls	Between Curbs
Without brakes			
2wd	ins (m)	383 (9.75)	282 (7.15)
4wd	ins (m)	452 (11.47)	341 (8.66)
With brakes			
2wd	ins (m)	374 (9.5)	272 (6.9)
4wd	ins (m)	422 (10.72)	311 (7.9)

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ONS - WEIGHT



4 REAR TIRES AND SHORT WHEEL BASE, FOR TO ALL HORIZONTAL DIMENSIONS

ng weights to the base machine

kg)	24" inner wheel weights	+1,024 lb	(464 kg)	
kg)	24" outer wheel weights	+454 lb	(206 kg)	
	Multipurpose bucket			
kg)	1.0yd ^a (0.76m ^a)	+ 639 lb	(290 kg)	
kg)	0.95yd3 (0.72m3)	+ 573 lb	(260 kg)	
	0.9yd ³ (0.69m ³)	+ 510 lb	(230 kg)	
kg)	Standard loader bucket			
kg)	1.05yd ³ (0.80m ³)	- 36 lb	(-16 kg)	
kg)	1.0yd ³ (0.76m ³)	- 70 lb	(-32 kg)	

CKET DATA		
	Capacity	Weight
mm)	0.95 yd ³ (0.72 m ²)	679lb (308 kg)
mm)	0.90 yd3(0.69 m2)	1259lb (571 kg)

CAPACITIES				
US Gals Litres				
Fuel Tank	28	102		
Engine oil (inc. filter)	1.9	7		
Engine coolant	4.8	17.5		
Rear axle (inc. steering)	14.3	52		
Hydraulic system	15.1	55		

TIRES (Standard)		
	Front	Rear
2WD	11L x 16	16.9 x 24
4WD	12/9.75 x 16.5	16.9 x 24

4 WD MACHINE WEIGHT		
Configuration	640	
Tractor loader with standard loader bucket, auxiliary hydraulics, standard tires, all levels full, less operator	10365 lb (4700 kg)	

PERFORMANCE DATA		
Max lift capacity to full height Breakout force	5,510 lb 8,838 lb	(2,500 kg) (4,010 kg)
Cycle times		
Beams:		
Raise	secs	4.3
Lower (power down)	secs	3.4
Lower (in float)	secs	5.5
Bucket:		
Crowd @ full height	secs	1.5
Dump	secs	1.1

ELECTRICS (Rops Model)

- Single battery 12 volt electrical system with 55 amp alternator and engine thermostart.
- Optional twin battery.
- Sealed connectors against water and dirt ingress.
- 4 main power fuses & 13 independent fuses.
- · Low maintenance batteries with 840 amp cold start capacity.
- · Optional key actuated battery isolation switch.



6408

EQUIPMENT

LOADER

Heavy duty industrial loader with mechanical self levelling and single lever operation of beam raise/lower, float, crowd and dump. Third spool standard for operating multipurpose bucket or other attachments. Equipped with loader beam safety strut.

OPTIONS

- Fixed cwt box recommended ballast 2130lb (970kg).
- 3 pt linkage cwt box (recommended ballast 2273lb (920kg).
- Multi-purpose loader bucket.
- · Swinging drawbar.
- Stabilizer chains.
- · Wheel weights.
- Rotating beacon.
- Battery isolation switch.
- Loader attachment quick attach.
- Creeper gearbox (Cab and platform).
- Auxiliary hydraulics (Footstep only).

STANDARD ALL MODELS

Naturally aspirated engine with Powershuttle transmission,hydrostatic steering, heavy duty drive axle with outboard epicyclics, inboard wet brakes and electro/hydraulic differential lock.Full instrumentation, suspension seat and ergonomic control layout.

GLAZED CAB MODELS

2 door deluxe heated safety cab with twin front and rear work lights, front rear wash/wipe, hinged opening rear window, rear view mirrors and full road lighting.Hand operated forward/reverse direction control with left foot braking and right foot throttle control. Access from left hand side Right hand emergency exit only.

PLATFORM MODELS

Deglazed safety cab for hot climates, fitted with twin front and rear work lights rear view mirror, and full road lighting. Hand operated forward/reverse direction control with left foot braking and right foot throttle control.Access from left hand side. Right hand emergency exit only.

FOOTSTEP MODELS

4 post rops canopy fitted with twin front and rear worklights. Foot operated forward/reverse direction controls, suspension seat with turntable. For a comprehensive list of optional features and options refer to your local distributor.

HYDRAULIC SYSTEMS

Loader	127.25 - 149	
Pump type	Single gear pump.	
Flow	29.7 US gals/min (108 litres/min).	
Pressure	2,750 psi (190 bar).	
Filtration Full flow 125 micron suction strainer wit		
	13 micron full flow return line filter element.	
Tractor (3 point hitch)		
Pump type	4 piston scotch yoke.	
Flow	7.4 US gals/min (27 litres/min) @2200 rpm.	
Pressure	3000 psi (207 bar).	
Functions	Draft, position, response and constant pumping.	
Max lift capacity @		
lower link ends	4,764 lbs (2,161 kg).	
horizontal		
Auxiliary Hydraulics		
Pump type	Single Gear Pump.	
Flow	10.45 US gals/min (38 litres/min).	
Pressure	2,475 psi (170 bar).	

Fermec reserves the right to change specifications without notice. Illustrations shown and described may include optional equipment, accessories or product specifications which may vary from country to country. See your local agent for details.

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