

Drive And Tracking

Fully hydrostatic; each track is driven by its own hydraulic motor. Two foot pedals with screw-in joy sticks control all travel functions and allow contra-rotation of tracks. Planetary final drives with single piece bolt on sprocket wheel.

MAXIMUM DRAWBAR PULL
(at 75% Mechanical Effort)
8750 Kgs (19300 lbs)

TRAVEL SPEED AT RATED rpm
3.00kph (2.1mph)

GRADABILITY: 75% (track slip occurs on smooth surfaces).

Slew System

Axial piston motor drives through an epicyclic reduction unit to slew pinion. Slew gear has internal teeth. Ball type slew bearing. Full dynamic braking with failsafe disc brake. Parking brake operated by switch in cab.

SLEW SPEED AT RATED ENGINE SPEED 9 RPM

Service Refill Capacities

(See Operators Guide for recommended change intervals and related data).

	Litres	Gallons
Fuel Tank	236	52
Hydraulic System	260	57
Engine	8	1.8

Controls

Two pilot-operated levers mounted forward of each arm rest actuate boom, dipper, bucket and slew.

RIGHT LEVER: Move forward and backward to lower and raise boom. Left and right to control bucket crowd and dump.

LEFT LEVER: Move backward and forward to move dipper in and out. Left and right to slew left and right.

Undercarriage

Fabricated box construction. Cross members and side frames are integral with the platform mounting turret. Sealed track lifetime lubricated rollers and idlers. Hydraulic track adjusters and triple grouser track pads are standard.

Number of Track Pads (each side)	42
Number of Track Rollers (each side)	6
Number of Carrier Rollers (each side)	1
Width of Standard Track Pads	600mm (24")
Overall Track Length	3430mm (11'3")
Overall Track Width	2490 mm (8'2")

Operating Weights

Inclusive of full fuel tank, operator, monobloc boom, 3050mm dipper, 600L bucket.

				Ground Bearing Pressure
Shoe	kg	lbs	kg/cm ²	psi
600 mm	12000	26460	0.37	5.2
750mm	12350	27232	0.31	4.28
900mm	12700	28003	0.26	3.67

Brakes

Oil immersed multi-disc brakes on each final drive input shaft. Spring applied, hydraulically released.

Standard Equipment

- Sliding rear window
- Sound-proofed cab, tinted glass, two piece flat hinged up and over front screen, roof window.
- Windscreen wiper with electric wash.
- Floormat, cigarette lighter.
- Stereo radio cassette, interior cab light.
- Full instrumentation with warning lights.
- Operators horn.
- Fuel gauge in cab.
- Fully adjustable suspension seat.
- Heavy duty heater.
- Boom mounted working light and twin headlights.
- Track guiding guards, tool compartment.
- Electric refuelling pump.

Optional Equipment

- Piping for hydraulic hammer.
- Actuated and non-actuated grab piping.
- Anti-vandal Guards.
- Materials handling equipment.
- Waterways maintenance equipment.
- Anti drop valves.
- Super low ground pressure undercarriage.
- British Rail specification.
- Two piece boom.
- Rear view mirror

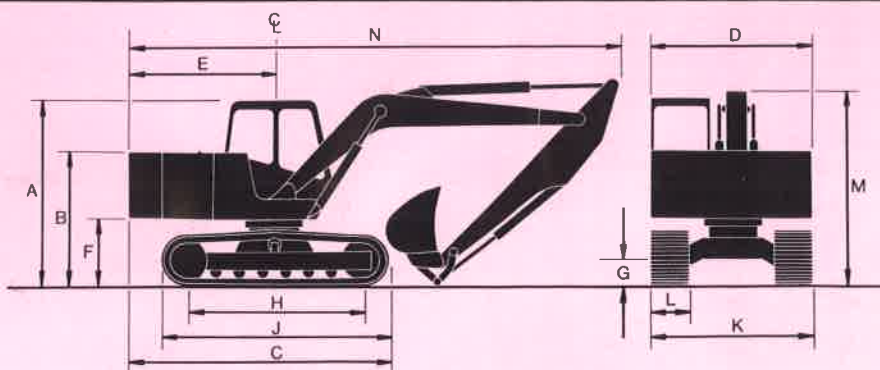
Backhoe Bucket Selection

Possible Dipper/Bucket combinations based on material weighing up to 1800kg per loose cubic metre.

		General Purpose					Heavy Duty				Materials Handling	
Cutting Width	mm	450	600	750	900	1000	600	750	900	2000	1300	1500
	ins	17.7	23.6	29.5	35.4	39.4	23.6	29.5	35.4	39.4	51	59
Capacity	Litres	250	400	540	680	770	400	540	680	770	730	850
(SAE Heaped)	cu. yds	0.33	0.53	0.71	0.89	1.01	0.53	0.71	0.89	1.01	0.96	1.12
2440mm Dipper (8ft.)		□	□	□	□	□	□	□	□	□	□	□
3050mm Dipper (10ft.)		□	□	□	□		□	□	□		□	□
3660mm Dipper (12ft.)		□	□				□	□			□	□

Machine Dimensions

	mm	ft.
A Height over Cab	2765	9' 1"
B Height without Cab	1990	6' 6"
C Length Base Machine	3855	12' 7"
D Upperstructure Width	2490	8' 2"
E Tailswing	2255	7' 4"
F Upperstructure Clearance	980	3' 2"
G Ground Clearance	425	1' 5"
H Wheel Centres	2680	8' 10"
J Undercarriage Length	3430	11' 3"
K Undercarriage Width		
L (600mm Pads)	2490	8' 2"
(750mm Pads)	2640	8' 8"
(900mm Pads)	2790	9' 2"
M Overall Height	3030	10' 0"
N Overall Length	7550	24' 9"



* Lifting Capacity (Bucket removed)

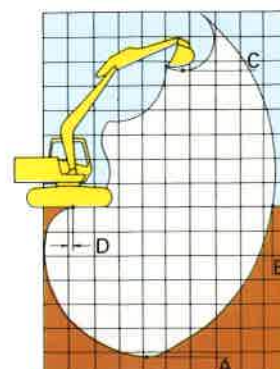
Radius	Mono Boom/ 3050 Dipper	Maximum weight to be lifted in kilograms
MAX	1400	
5 metre	2450	
MIN	6000	

* Limited to 80% of tipping load over side of crawler. These figures are for guidance when selecting buckets and should not be taken as complying with any crane regulations.

121C Working Versatility

Monobloc Boom				
Dipper Arm	2440 mm	3050 mm		
A Maximum Depth (m)	5.60	18'5"	6.26	20'7"
B Maximum Reach Ground Level (m)	8.00	26'3"	8.47	27'10"
C Dump Height (m)	5.15	16'11"	5.60	18'5"
D Dimension (m)	0.54	1'9"	- 0.32	- 1'1"

Bucket Digging Force	7945kg (17519lbs)
Dipper Crowd Force 2440mm	5856kg (12884lbs)
3050mm	5018kg (11263lbs)



Illustrations may show optional equipment