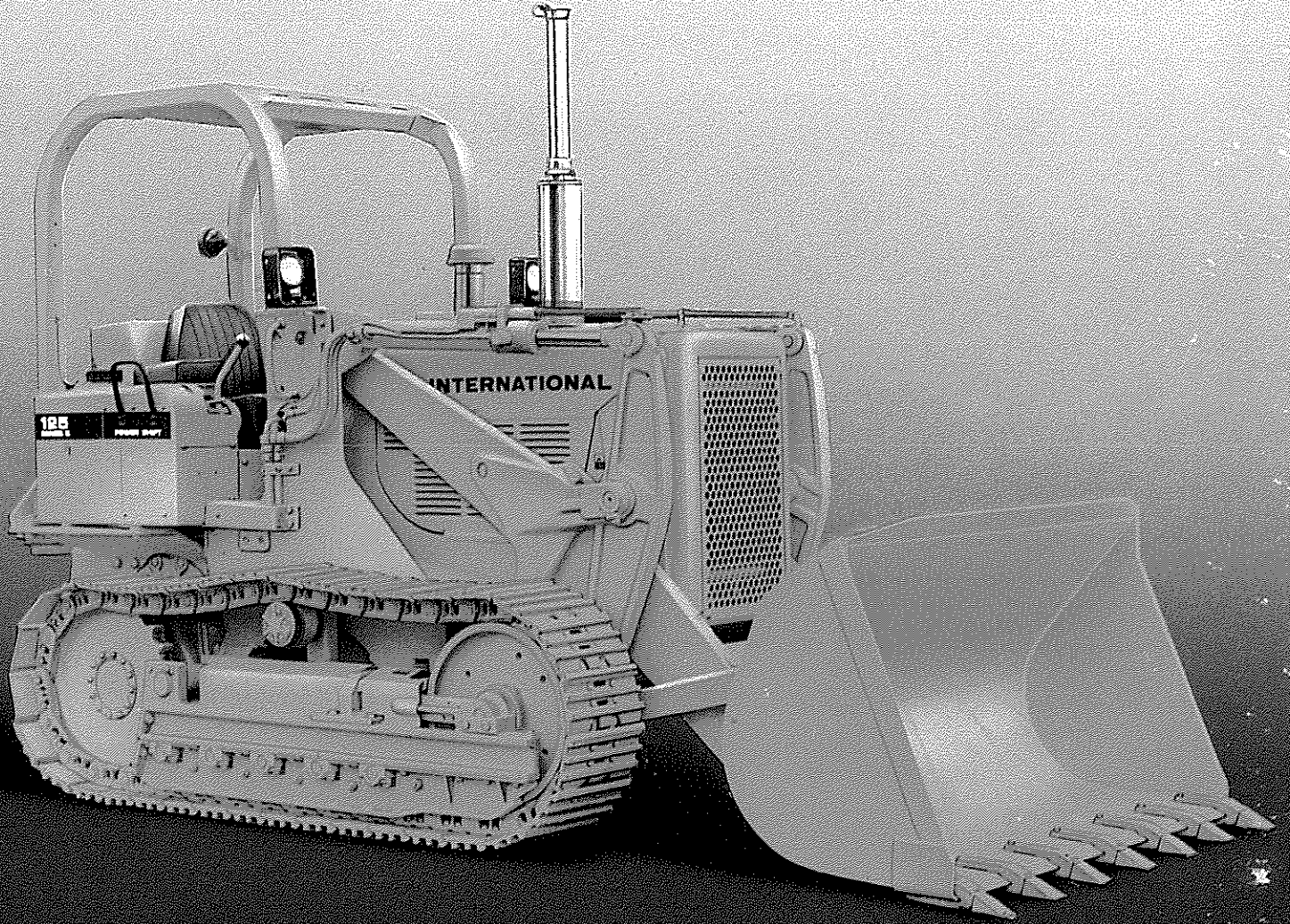


125E

**PAY loader
Specifications**



PAY LINE DIVISION

International®

125E PAY loader

ENGINE:

Make & Model International DT-239
 Type 4-cycle diesel, turbocharged, direct start,
 direction injection.
 *Flywheel horsepower @ 2500 rated rpm,
 kW (hp) 58.2 (78)
 Maximum torque @ 1600 rpm, N·m (lb-ft) 297 (219)
 No. of cylinders 4
 Displacement, litre (cu in) 3.91 (238.8)
 Bore & stroke,
 mm (in) 98.4 x 128.5 (3.875 x 5.060)
 Piston speed, m/min (fpm) 642.5 (2108)
 Lubrication, full flow filtering full pressure
 Number of main bearings 5
 Electrical system 12 Volt
 Air cleaner Exhaust aspirated, dry type with
 safety element.

*Flywheel horsepower—horsepower output of standard engine with fan, air cleaner, alternator, water pump, lubricating oil pump and fuel pump under SAE standard temperature and barometric conditions of 99.2 kPa Hg and 29.4°C (29.38" Hg and 85°F). No deration required up to 3048 m (10,000 ft) altitude.

TRANSMISSION & TORQUE CONVERTER:

Full power shift. 3 speeds forward, 3 reverse. Decelerator pedal is standard. Single stage 3.5:1 stall ratio. 269.24 mm (10.6 in) torque converter drives to transmission through a universal joint.

TRAVELING SPEED RANGE:

Gear Range	Forward		Reverse	
	km/h	(mph)	km/h	(mph)
1st	0-3.12	(0-1.94)	0-3.69	(0-2.29)
2nd	0-5.26	(0-3.27)	0-6.20	(0-3.85)
3rd	0-8.57	(0-5.32)	0-9.93	(0-6.17)

STEERING:

Single stage planetary type, wet 368.3 mm (14.5 in) single disc steering clutches. 368.3 mm (14.5 in) single disc wet-type steering brakes. Full hydraulic power control provides finger tip steering. Both tracks are braked on down grades or for parking by a single foot pedal. Brakes are oil enclosed.

FINAL DRIVES:

Single stage spur-gear drive to sprockets. 8.1:1 reduction ratio. Final drive has metal face seals. Operates in oil for long life.

TRACK FRAME:

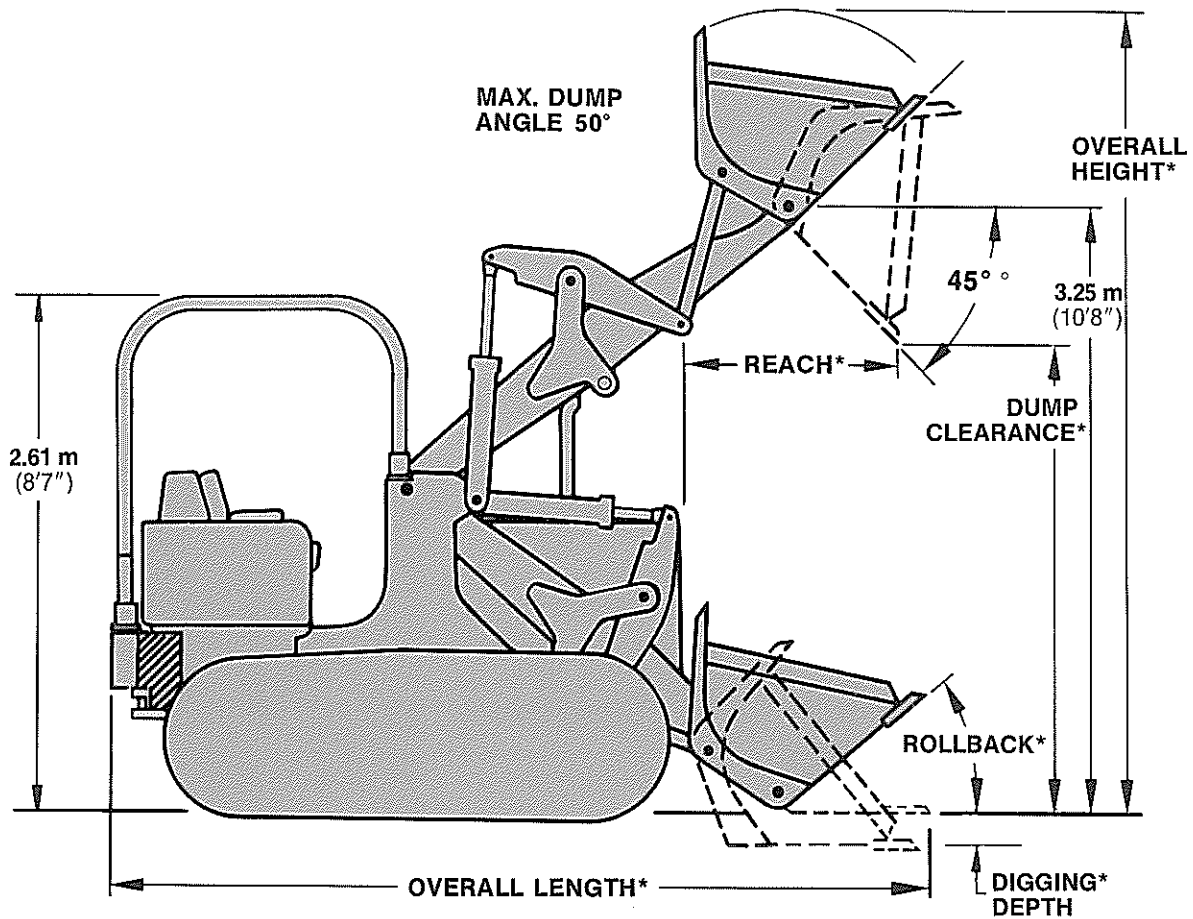
Open channel section. Front idlers (drum type) bushing-mounted . . . Tapered rollers. All rollers and idlers Lifespan lubricated.
 Number of track rollers each side 5
 Number of top idlers each side 1
 Gauge width between track centers, m (in) 1.37 (54)
 Length of track on ground, m (in) 1.9 (74.8)
 Width of standard track shoe, mm (in) 355.6 (14)
 Width to outside of tracks, m (in) 1.72 (68)
 No. of track shoes each side 36
 Area of ground contact, m² (in²) 1.45 (2094)
 Height of triple grousers, from bottom face
 of overlapping flat shoes, mm (in) 19.3 (0.76)
 Track adjustment Full hydraulic
 Ground clearance (bucket raised) mm (in) 381 (15)

CAPACITIES: (Approx.)

	Litre	(U.S. gal)
Fuel tank	144.0	(38.0)
Cooling system	26.5	(7.0)
Engine lubrication, incl. filters	10.4	(2.75)
Transmission & rear frame	70.0	(18.5)
Sprocket drive, each side	15.1	(4.0)
Hydraulic system	56.9	(15.0)

HYDRAULIC SYSTEM: (closed type)

Pump, gear type, torque converter mounted and engine driven, 110.7 l/min @ 14.8 MPa (29.2 gpm @ 2150 psi) and 1979 rpm. Control valve (Stacked valves and spool with individual control handles)
 Lift control Raise, hold, lower, float
 Tilt control Roll back, hold, dump
 Rear control Raise, hold, lower
 Cylinders, double-acting type
 Lift cylinders, bore & stroke,
 mm (in) 102 x 818 (4.0 x 32.2)
 Tilt cylinders, bore & stroke,
 mm (in) 89 x 474 (3.5 x 18.65)
 Time cycles, seconds:
 Raise 6.9
 Dump 1.2
 Lower 4.2
 Total 12.3



*DIMENSIONS VARY WITH BUCKET SIZE REFER TO CHART BELOW

BUCKETS	General Purpose	Multi-Purpose
Rated Capacity — m ³ (yd ³)	1.05 (1.38)	0.96 (1.25)
Struck Capacity — m ³ (yd ³)	0.86 (1.12)	0.84 (1.10)
Cutting Edge — Type	Straight	Straight
Width, m	1.82 (5'11½")	1.89 (6'2½")
Teeth Optional	6	6
Dump Clearance @ Full Lift and 45° discharge — m	2.62 (8'7")	2.56 (8'5")
Reach @ 45° discharge angle, 2.13 m (7'0") clearance — m	1.28 (50.3")	1.38 (54.4")
Reach @ Full Lift and 45° discharge — m	0.94 (3'0.8")	1.06 (3'4.7")
Digging depth — mm	94 (3.7")	173 (6.8")
Bkt. rollback @ ground line	38½°	41½°
Overall length — m	4.17 (13'8")	4.37 (14'4")
Overall height — m	4.37 (14'4")	5.03 (16'6")
Static Tipping load — kg (lb)	6131 (13,517)	5861 (12,922)
Digging or breakout force kN (lb)	83.9 (18,859)	71.8 (16,129)
Basic Oper. Wt., no attach. incl. kg (lb)	9054 (19,944)	9632 (21,218)

STANDARD EQUIPMENT:

- Air cleaner, dry type with service indicator
- Alternator, 12 V, 22 amp
- Battery, cold starting
- Bucket, general purpose or multi-purpose with self-leveling, automatic return to dig
- Bucket teeth with replaceable standard tips
- Canopy ROPS (SAE J395) with seat belt
- Counterweight
 - 560 kg (1235 lb) for Gen. Purpose bkt.
 - 782 kg (1725 lb) for Multi-Purpose bkt.
- Covers, track frame
- Decelerator
- Ether starting
- Fan, blower
- Guards—crankcase with pullhook, instrument panel, lights, radiator, sprocket, track roller with track chain guides, transmission
- Hourmeter, electric
- Hydraulics
 - 110.5 l/min (29.2 gpm)
 - 2 valves, 1 lever (for Gen. Purpose bkt.)
 - 3 valves, 2 levers (for Gen. Purpose bkt.)
 - Hydraulic plumbing (for Multi-Purpose bkt.)
- Lights, 2 front, 1 rear and dash light
- Muffler
- Radiator core, armored
- Seat deluxe cushioned with high back and arm rests
- Strainer, fuel
- Tool box
- Track adjusters, hydraulic
- Track shoes, 355.6 mm (14 in) 3 grouser
- Vandalism protection, includes louvered hood side doors

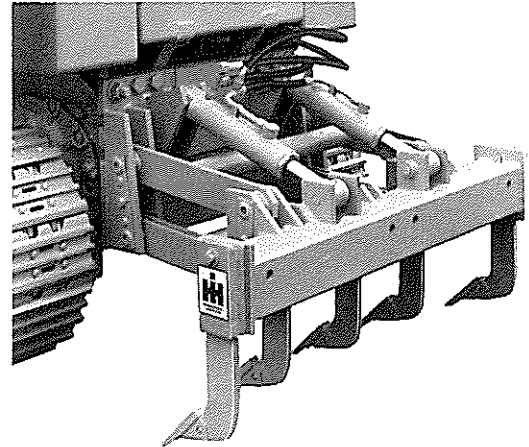
125E PAY loader

OPTIONAL ATTACHMENTS (Partial List)

Accumulator	Ripper, #397 with 3-teeth
Backhoe, 3142A	ROPS Equipment
Bucket, heavy duty w/replaceable teeth	Screen, rear
0.17m ³ (24" 6 ft ³)	Sweeps, front
Counterweight, ripper-mounted	Winch, Gearmatic 19
Fan, reversible	Fairlead, 3-roller, and mounting
Horn, warning	Logging arch, Model 78
Hydraulic Equipment	
Optional hydraulic valve arrangement	

397 RIPPER

Overall width, m	1.44	(4'4.6")
Hydraulic cylinders (2) double acting		
Bore & Stroke, mm (in)	76 x 172	(3 x 6.8)
Std. number of teeth (w/provisions for 5)	3	3
Tooth spacing for 5 teeth, mm (in)	343	(13.5)
Ripper tips		Replaceable
Length (rear-most point to centerline of sprocket), m	1.09	(3'7")
Weight (incl. hyd.) approx. kg (lb)	499	(1100)



3142A BACKHOE

[Specs based on 610 mm 0.17 m³ (24" 6 ft³) bucket]

Max. digging depth, m	4.39	(14'5")
Swing arc	180°	
Reach from swing pivot, m	5.51	(18'1")
Transport height, m	3.94	(12'11")
Loading height, m	3.89	(12'9")
Bucket rotation	178°	
*Max. digging force — bucket, kN (lb)	42.3	(9519)
*Max. digging force — dipperstick kN (lb)	25.5	(5728)
*Based on 14.5 MPa (2150 psi) @ rated engine speed		

Specifications subject to change without notice. Illustrations may include optional equipment and accessories and may not include all standard equipment. PAY is a registered trademark of International Harvester Company designating a family of IH products.

GEARMATIC NO. 19 WINCH

Drive	Mechanical	
Control	Full hydraulic	
Cable drum size:		
Barrel diameter, mm (in)	216	(8.5)
Cable drum capacity: m (ft)		
12.7 mm (1/2")	110.95	(364)
14.3 mm (9/16")	88.39	(290)
15.9 mm (5/8")	73.15	(240)
19.1 mm (3/4")	51.51	(169)
Drum control:		
Clutch	Friction w/free spoc	
Brake	Normally engaged	
Drum rotation	Overwind	
Max. line pull:		
Bare drum, kg (lb)	12866	(28,365)
Full drum, kg (lb)	7924	(17,470)
Line speed—no load:		
Bare drum m/min (fpm)	57.91	(190)
Full drum m/min (fpm)	96.01	(315)



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