



L&T Construction & Mining Machinery

L&T 1190

SOIL COMPACTOR

Operating Weight: 11,300 kg
Frequency: 34/31Hz
Gross Power: 101 hp@2200 rpm
Engine: Ashok Leyland ALHT4CTIC3-BS III



Manufactured by

L&T Construction Equipment Limited



Higher weight on
front drum module for
improved compaction

High applied forces for
best-in-class compaction

Drum drive
option available for
improved traction



Dual frequency
selection
for easy operation

High drum shell thickness
for longer drum life

**Isolated operator platform
for enhanced operator comfort**

**Unique Eccentric shaft designed for
generating high forces**

**Rotatable operator
seat for better visibility**

**Powerful Ashok Leyland
four cylinder water
cooled engine**



**Limited slip differential axle
for better traction**

**Exhaust at ground level to prevent
exhaust gases from
blowing onto operator**

ENGINE

- ▶ Ashok Leyland 4 cylinder 4 Stroke Inline Turbocharged Inter cooled H series BSIII engine- water cooled
- ▶ Inline fuel injection pump
- ▶ Mud filter, Fuel filter and Water separator for better filtration
- ▶ Turbo Precleaner is a standard fitment



HEAVY DUTY STRUCTURES

- ▶ Heavy duty drum with high shell thickness
- ▶ Heavy Duty Frame Structures
- ▶ Unique Eccentric shaft designed for generating high forces
- ▶ Sturdy articulation joint for better life



GRADEABILITY

- ▶ Best-in-class gradeability of 40%
- ▶ Capable of working in hilly terrains and steep slopes
- ▶ Machine capable of working in tight radius



PRODUCTIVITY

Soil Compaction	Sand & Gravel	Mixed Soil	Clay
Compacted Lift thickness in mm	500	400	200
Productivity in Cum/hour	350-600	300-500	170-290

Site conditions will affect actual productivity

HIGH PERFORMANCE HYDRAULIC COMPONENTS

- ▶ Closed circuit hydraulic system with best-in-class heavy duty hydraulic components, enhancing productivity and reliability
- ▶ Hydraulic System designed for optimising productivity



SERVICE ACCESSIBILITY

- ▶ Openable rear hood
- ▶ Easy access to all components
- ▶ Ground level access for all refill points
- ▶ Air Filter is easily accessible

OPERATOR CONSOLE

- ▶ Rotatable operator seat for ease of operation
- ▶ Excellent all round visibility
- ▶ Large size rear view mirror
- ▶ Height adjustable seat with arm rest
- ▶ All around Guard rails for operator safety



HIGH OPERATING WEIGHT

- ▶ Higher weight of front drum module gives improved compaction results
- ▶ High static linear load reduces the number of passes required for compaction
- ▶ High drum shell thickness of 32mm gives longer shell life

OPTIONAL CLAMP-ON-PADFOOT SHELL

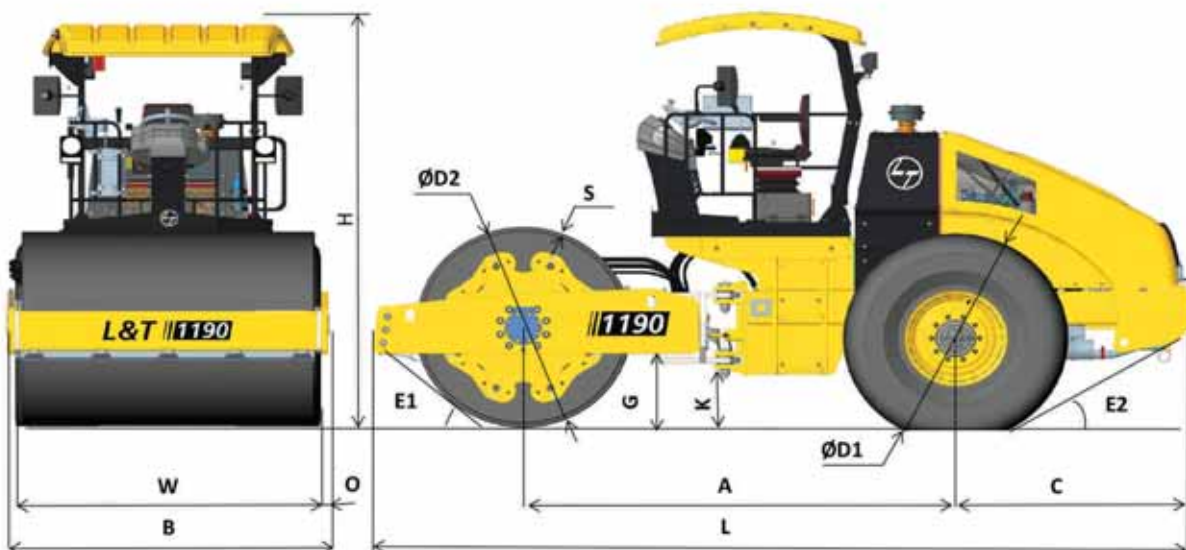
- ▶ Padfoot shell can be mounted on drum drive machine.
- ▶ Ideally suited for compacting soils with high clay content



DRUM DRIVE OPTION

- ▶ Drum drive option -L&T 1190 D has better gradeability
- ▶ Ideally suited for poor underfoot conditions

MACHINE DIMENSION



A	B	C	ØD1	ØD2	E1	E2	G	H	K	L	O	S	W
3000	2300	1625	1560	1500	36°	30°	555	3095	377	5670	100	32	2100

SPECIFICATIONS

ENGINE	
Make	Ashok Leyland
Model	ALHT4CTIC3-BS III
Type	4 Stroke Inline Turbocharged Intercooled
Cylinder (nos)	4
Bore/Stroke (mm)	104x113
Displacement	3.84L
Fuel Injection	Direct
Fuel	High Speed Diesel
Fuel filter Cum Water separator	Spin-on type
MudFilter	Cartridge Type
Aspiration	Turbocharged Intercooled
Air Filter	Dry Type with Dual Element
Engine oil filter	Cartridge Type
Cooling	Liquid
Engine Speeds (No loads)	Low 900 rpm High 2420 rpm
Horse power	101 hp@2200 rpm as per ISO 1585
Torque (Max)	390 Nm @ 1400-1600 rpm
PROPULSION	
Infinitely variable hydrostatic drive with variable displacement pump	
Drive pump	Mechanical
Engine to pump ratio	Direct Drive 1:1
Type	
Variable displacement bi-directional axial piston pump with manual displacement control	
DRIVE MOTORS	
Type	
High speed low torque driving motor mounted on rear axle input shaft	
For Drum Drive(Optional)	
low speed high torque drive motor mounted on front drum frame along with rear axle	
Hydraulic oil filter	Cartridge
Machine speed	1190 D (Drum Drive)
Working speed 1	4 KMPH
Working speed 2	7 KMPH
Travel speed	11 KMPH
Final drive	high torque , out-board planetary
Gradeability	
Standard machine	31%(17°)
Drum drive machine	40%(21°)
ELECTRICAL	
Battery	12 V
Alternator	65A
Battery CCA	754 as per JIS (Max 900)

VIBRATION SYSTEM				
Type				
Variable displacement bi-directional axial piston pump with electrical displacement control				
Drive to vibration pump	Mechanical			
Engine to pump ratio	Direct Drive 1:1			
Displacement	46cc/rev			
Charge pressure	25Bar			
Vibration motor	Fixed displacement mounted on drum			
Axle				
Heavy duty with Limited Slip Differential (LSD) integrated parking brake mechanism and out board planetary				
Parking Brake				
Spring applied hydraulically released				
SERVICE CAPACITIES				
Fuel Tank	240 liters			
Hydraulic Tank	70 liters			
Engine Crank Case	9.5 liters			
Engine Coolant	18 liters			
OPERATING DATA		1190	1190 D	1190 PD
Operating weight (kgs)		11300	11350	12500
maximum weight (kgs)		12100	12150	13300
Front axle load(kgs)		6475	6525	7500
Rear Axle Load (kgs)		4825	4825	4825
Static Linear load Front (Kgs/cm)		30.8	31.0	NA
VIBRATION SYSTEM		1190		
Vibration Stage		Low		High
Frequency (hz)		31		34
Amplitude (mm)		1.8		0.9
Centrifugal Force (kgf)		26494		17323
Maximum Applied Force (kgf)		37794		28623
STEERING				
Steering Angle			±37°	
Turning Radius(inner)			3.35 m	
Drum Oscillation Angle			±15°	
Tyre Size			23.1/26 12PR	
SALIENT FEATURES				
● Lowest turning radius which improves manoeuvrability				
● Novel exciter design, consumes less power				
● Additional speed control for gradient operation				
● Heavy duty 32mm shell drum				
● Safety interlocks in brake and neutral system				
● 90° RH side Rotatable operator seat				
OPTIONAL				
● Intelligent Compaction Analyzer System ● Compaction meter				
● Padfoot drum ● L&T DigiEye - Vehicle Health Monitoring System				

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