

# ARS 121

## SOIL COMPACTOR

### PRODUCTIVITY AND PERFORMANCE

The Ammann ARS 121 Soil Compactor provides outstanding productivity and reliability and is the industry leader in compaction efficiency. The powerful and robust 4-cylinder Ashok Leyland engine and heavy-duty hydrostatic drive of the differential axle ensures great traction and travel performance even under extreme circumstances. The roller is suitable for compaction of a wide range of soils, from silt to crushed stones. The machine is equipped with an efficient turbo-charged, water-cooled engine ensuring non stop performance with maximum reliability and lower operating cost.

### TRACTION AND MANOEUVRABILITY

- Hydraulic propulsion of rear wheels with differential axle
- Low centre of gravity for stability and manoeuvrability
- High ground clearance
- High gradability

### OPERATOR FRIENDLY

- Clear dashboard layout enables easy and safe operation
- Fully isolated operator platform and slidable seat for maximum operator comfort

### INDUSTRY-LEADING COMPACTION

- High-performing Ammann two-stage vibratory system
- Maximum compaction forces transferred to material
- High productivity – fewer passes required

### TIME AND COST SAVER

- Easily accessible service and maintenance points
- Superior fuel efficiency

### ENGINE

- Extremely durable
- Fuel efficient

### APPLICATIONS

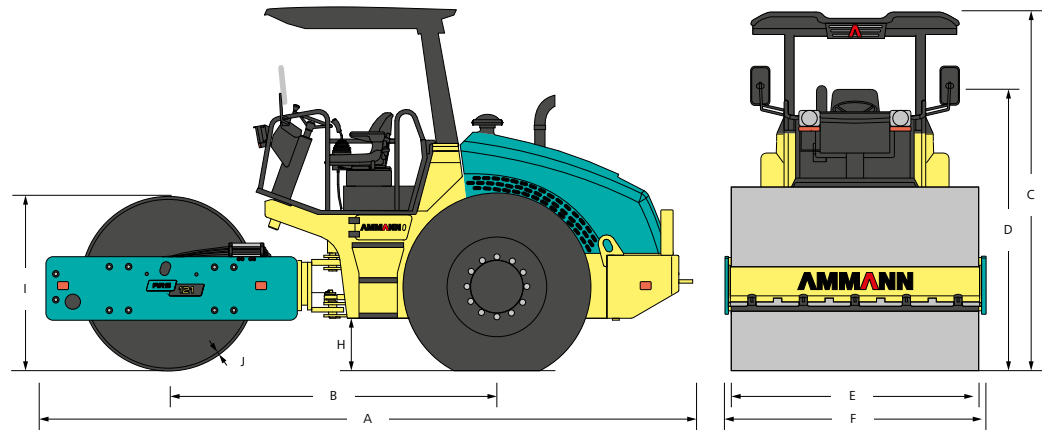
- Medium and large jobsites
- Transport construction (motorways, railways, airfields)
- Construction (industrial zones, harbours)
- Compaction of all kinds of soils and wet mixes

#### MAXIMUM COMPACTED LIFT THICKNESS AT OPTIMAL WORKING CONDITIONS

	Rockfill	Sand / gravel	Mixed soils	Silt	Clay
ARS 121	850 mm	700 mm	550 mm	-	-

# AMMANN

TECHNICAL SPECIFICATIONS  
ARS 121 SOIL COMPACTOR



**DIMENSIONS**

A	MACHINE LENGTH	5460 mm
B	WHEELBASE	2820 mm
C	MACHINE HEIGHT WITH CANOPY	3030 mm
D	MACHINE HEIGHT (REMOVED CAB/ROPS)	2375 mm
E	DRUM WIDTH	2130 mm
F	MACHINE WIDTH	2260 mm
H	GROUND CLEARANCE	450 mm
I	DRUM DIAMETER	1500 mm
J	DRUM SHELL THICKNESS	25 mm
	TYRE SIZE	23.1 x 26-12 PR

**WEIGHT & DRIVING CHARACTERISTIC**

OPERATING WEIGHT	11 100 kg
STATIC WEIGHT AT DRUM	6200 kg
STATIC WEIGHT AT TYRES	4900 kg
STATIC LINEAR LOAD, FRONT	29.1 kg/cm
TRANSPORT ( MAX)	11 km/h
WORKING SPEED ( MAX)	6 km/h
CLIMBING ABILITY	35 %
TURNING RADIUS INNER ( EDGE)	3210 mm
STEERING ANGLE	±36°
OSCILLATION ANGLE	±10°

**ENGINE**

MANUFACTURER	Ashok Leyland ALHT4CTIC3
POWER ACCORDING TO ISO 3046-1	74.3 kW (99.6 HP) @ 2200 rpm
NO. OF CYLINDERS	4
TYPE OF COOLING	Water
EMISSION REGULATIONS	Bharat Stage III

**COMPACTION FORCES**

FREQUENCY (LOW)	32 Hz
FREQUENCY (HIGH)	35 Hz
AMPLITUDE (LOW)	0.9 mm
AMPLITUDE (HIGH)	1.85 mm
CENTRIFUGAL FORCE (LOW)	160 kN
CENTRIFUGAL FORCE (HIGH)	275 kN
TOTAL APPLIED FORCE (LOW)	221 kN
TOTAL APPLIED FORCE (HIGH)	336 kN

**MISCELLANEOUS**

DRIVE SYSTEM	Axial piston - closed loop
VIBRATION SYSTEM	Axial piston - closed loop
STEERING SYSTEM	Gear pump
BRAKES OPERATING	Hydrostatic
BRAKES PARKING	Mechanical multiple-disc
FUEL TANK CAPACITY	410 l
HYDRAULIC TANK CAPACITY	80 l
BATTERY VOLTAGE	12 V
BATTERY RATING	150 AH

**STANDARD VERSION**

- Tilttable hard top canopy
- Tool kit with standard tools
- Lockable vandal guard
- Front and rear road light
- Homologation certified
- Rear view mirrors
- Rear working lights

**OPTIONAL ITEMS**

- Warning beacon
- Fire extinguisher
- Compaction meter
- Bio-degradable hydraulic oil