ASC 150

SOIL COMPACTOR

EU Stage IIIA, U.S. EPA Tier 3

A SMART WORKER WITH BIG OUTPUT

As the compaction grows tougher, Ammann offers this heavier compactor with greater static linear loads. The Ammann ASC 150 Soil Compactor provides industry-leading compaction outputs while optional ACE system technology makes it a smart worker, too.

PRODUCTIVITY

High compaction output
Faster compaction of thicker layers in fewer passes.

No-rear-axle concept
Unique machine design that enables great stability and manoeuvrability.

Customisation
Makes the machine an ideal fit on any jobsite – and for varied customer needs

ERGONOMICS

Operator workplace
Ergonomically friendly operator station designed for high operator comfort throughout the working shift.

Visibility
Excellent all-around machine visibility for safety on the jobsite.

Simple & reliable dashboard
Intuitive machine control, even with an unskilled operator.

SERVICEABILITY

Tiltable cab and engine hood
Great accessibility to all major components for tool-free daily inspection.

Draining points
Ground access to all main draining points.

Maintenance-friendly design
Downtime minimised through easy maintenance processes and robust design of the machine and components.

APPLICATIONS

- Medium and large jobsites
- Transport construction (motorways, railways, airfields)
- Water resources construction (rockfill, dams) and building construction (industrial zones, harbours)

MAXIMUM RECOMMENDED COMPACTED LIFT THICKNESS AT OPTIMAL WORKING CONDITIONS

	Rockfill	Sand / Gravel	Mixed Soils	Silt	Clay
ASC 150	*1.2 m (47 in)	*0.8 m (31 in)	*0.7 m (28 in)	0.5 m (20 in)	0.3 m (12 in)
ASC 150 PD	–	–	*0.7 m (28 in)	*0.5 m (20 in)	*0.35 m (14 in)

*Recommended drum type

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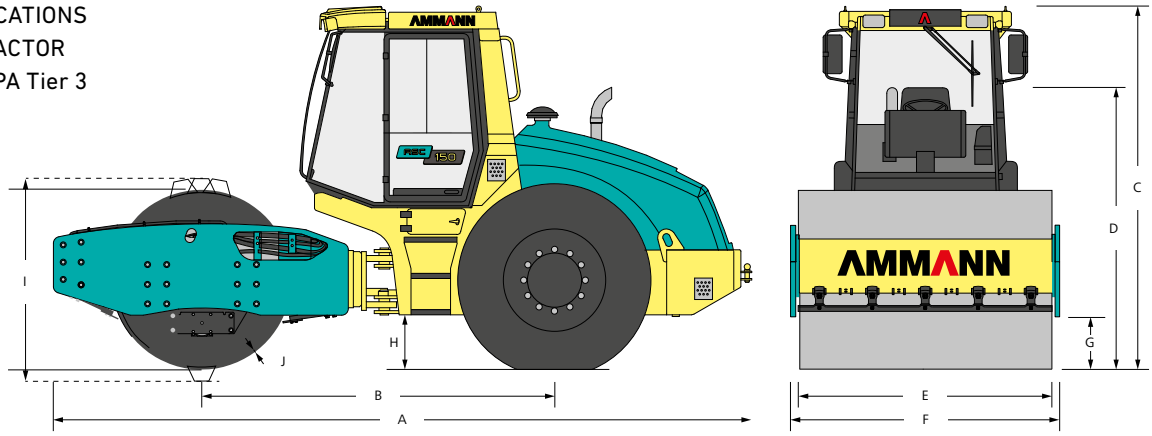
Republica Moldova, MD-2023
mun. Chișinău, str. Uzinelor 90
+ /373/ 67 707 707
office@etop.md
www.etop.md

TECHNICAL SPECIFICATIONS
ASC 150 SOIL COMPACTOR
EU Stage IIIA, U.S. EPA Tier 3



DIMENSIONS

A	Machine length	5900 mm (232.3 in)
B	Wheelbase	2930 mm (115.4 in)
C	Machine height	3075 mm (121.1 in)
D	Machine height (removed CAB / ROPS)	2420 mm (95.3 in)
E	Drum width	2130 mm (83.8 in)
F	Machine width	2258 mm (88.9 in)
G	Curb clearance	415 mm (16.3 in)
H	Ground clearance	440 mm (17.3 in)
I	Drum diameter	1500 mm (59.1 in) / *1640 mm (64.6 in)
J	Drum shell thickness	40 mm (1.6 in) / *28 mm (1.1 in)

*PD

MISCELLANEOUS

Brakes operating	Hydrostatic
Brakes parking	Multiple-disc spring brake
Brakes emergency	Multiple-disc spring brake
Fuel tank capacity	410 l (108.3 gal)
Articulation angle	±36°
Oscillation angle	±10°

COMPACTION FORCES

		PD
Frequency I	29 Hz (1740 VPM)	29 Hz (1740 VPM)
Frequency II	35 Hz (2100 VPM)	35 Hz (2100 VPM)
Frequency ACE min./max.	23 Hz (13 800 VPM) /35 Hz (2100 VPM)	23 Hz (13 800 VPM) /35 Hz (2100 VPM)
Amplitude I	2 mm (0.079 in)	2 mm (0.079 in)
Amplitude II	1 mm (0.039 in)	1 mm (0.039 in)
Amplitude ACE min./max.	– / 2.5 mm (0.098 in)	– / 2.5 mm (0.098 in)
Centrifugal force I	325 kN (73 063 lbf)	325 kN (73 063 lbf)
Centrifugal force II	237 kN (53 280 lbf)	236 kN (53 054 lbf)
Centrif. force ACE min./max.	– / 388 kN (87 226 lbf) 26 Hz (1560 VPM)	– / 388 kN (87 226 lbf) 26 Hz (1560 VPM)

ENGINE

Manufacturer	Cummins QSB 4.5-C160
Power according to ISO 3046-1	119 kW (160 HP)
Maximum torque	624/1500 Nm/rpm
Emission class	EU Stage IIIA, U.S. EPA Tier 3

WEIGHT & OPERATING CHARACTERISTICS

		HX	**PD**	**HXPD**
Operating weight	14 580 kg (32 140 lb)	15 820 kg (34 880 lb)	14 490 kg (31 940 lb)	15 720 kg (34 660 lb)
Maximum weight	18 460 kg (40 700 lb)	18 500 kg (40 790 lb)	16 670 kg (36 750 lb)	16 700 kg (36 820 lb)
Stat. lin. load of front drum	48.7 kg/cm (272.7 lb/in)	48.9 kg/cm (273.8 lb/in)	–	–
Pad contact surface	–	–	120 cm² (18.6 sq in)	120 cm² (18.6 sq in)
Pad height	–	–	100 mm (3.9 in)	100 mm (3.9 in)
Max. transport speed	10 km/h (6.21 MPH)	7 km/h (4.35 MPH)	10.1 km/h (6.28 MPH)	7 km/h (4.35 MPH)
Max. working speed	4.5 km/h (2.8 MPH)	3.15 km/h (1.96 MPH)	4.6 km/h (2.86 MPH)	3.15 km/h (1.96 MPH)
Climbing ability	45 %	60 %	45 %	60 %
Turning radius (inner)	3715 mm (146.3 in)	3715 mm (146.3 in)	3715 mm (146.3 in)	3715 mm (146.3 in)

STANDARD EQUIPMENT

- Operator platform with guard rails
- Smooth drum with steel scrapers
- 2 vibration frequencies and amplitudes
- Inter wheel Differential-lock
- Manual tilting of hood/cab/platform
- Working headlights (front and rear)

OPTIONAL EQUIPMENT

- CE conformity
- Cab ventilated and heated (incl. FOPS I)
- ROPS structure
- Air condition for Cab version
- Ammann Traction Control (ATC)
- Padfoot drum or padfoot segments
- HX versions
- ACE (Ammann Compaction Expert)

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+ /373/ 67 707 707
office@etop.md
www.etop.md

ARS 150

SOIL COMPACTOR
EU Stage V / U.S. EPA Tier 4 Final

APPLICATIONS

- Medium and large compaction sites
- Transport construction
- Municipal and town roads
- Airport runways
- Rock fill dams
- Industrial zones
- Harbours
- City centers
- Dumpsite construction

EXCELLING WHEREVER IT GOES

The compact design of Ammann ARS Soil Compactors improves manoeuvrability and flexibility, making the machines exceptionally productive. Safety is maximised through a new cab design that provides operators with 360° visibility and an intuitive, conveniently located control display. The proprietary ACE^{force} Intelligent Compaction system, which offers absolute compaction measurement and optional documentation, improves efficiency and quality. The availability of a wider range of centrifugal forces make the machine a perfect fit for many applications and varied materials.

PRODUCTIVITY

- High compaction output - faster compaction of thicker layers in fewer passes
- No-rear-axle concept – optimal stability and low center of gravity, which significantly improves safety on jobsites
- Variable range of vibration frequencies for added versatility
- ACE^{force} Intelligent Compaction tool for higher compaction efficiency

ERGONOMICS

- Spacious, quiet cab with integrated ROPS structure
- New multifunctional display for intuitive machine control and operation
- Excellent machine visibility with 360° view to machine edges and surroundings
- Innovative travel lever with speed adjustment and wider machine speed range (newly 5+1 speed instead of 3+1)

SERVICEABILITY

- All service points and engine compartment accessible from the ground
- Wide-opening rear hood for easy and fast daily maintenance
- Tiltable cab for exceptional access to main hydraulic components, which significantly reduces labour
- ECOdrop – machine efficiency and reductions in fuel consumption and required fluids

MAXIMUM RECOMMENDED COMPACTED LIFT THICKNESS AT OPTIMAL WORKING CONDITIONS

	Rockfill	Sand / Gravel	Mixed Soils	Silt	Clay
ARS 150	* 1200 mm (47 in)	* 800 mm (31 in)	* 700 mm (28 in)	500 mm (20 in)	300 mm (12 in)
ARS 150 (PD)	–	–	* 700 mm (28 in)	* 500 mm (20 in)	* 350 mm (14 in)

* Recommended drum type

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ARS 150 SOIL COMPACTOR
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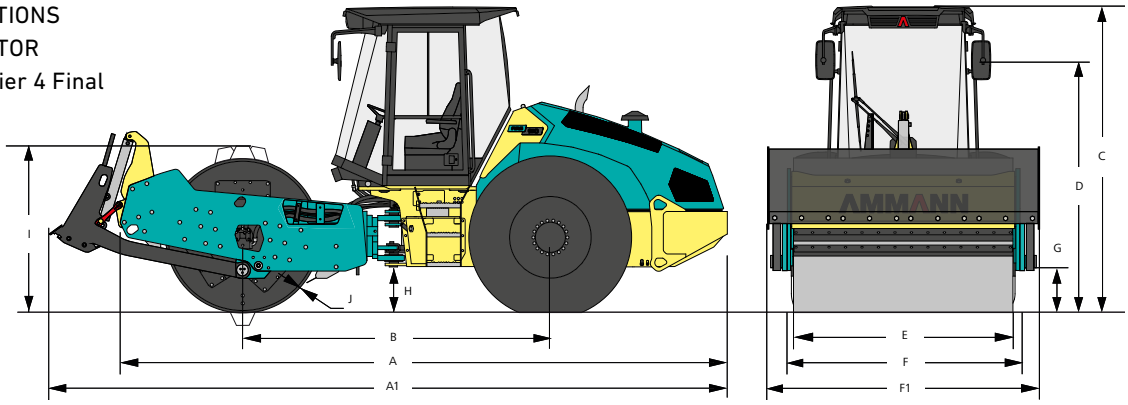

DIMENSIONS

A	MACHINE LENGTH	5950 mm (234.3 in)
A1	MACHINE LENGTH (BLADE)	6610 mm (260 in)
B	WHEELBASE	3040 mm (119.7 in)
C	MACHINE HEIGHT	2970 mm (116.9 in)
D	MACHINE HEIGHT (REMOVED ROPS)	2200 mm (86.6 in)
E	DRUM WIDTH	2130 mm (83.9 in)
F	MACHINE WIDTH	2260 mm (89 in)
F1	MACHINE WIDTH (BLADE)	2440 mm (96 in)
G	CURB CLEARANCE	400 mm (15.7 in)
H	GROUND CLEARANCE	430 mm (16.9 in)
I	DRUM DIAMETER	1500 mm (59.1 in) /*1685 mm (66.3 in)
J	DRUM THICKNESS	35 mm (1.4 in) /*25 mm (1.0 in)
		*PD

ENGINE

MANUFACTURER	Deutz TCD4.1 L4
POWER ACCORDING TO ISO 14396	115 kW (154 HP)
EXHAUST GAS AFTER-TREATMENT	EGR+DOC+DPF+SCR
	EU Stage V / U.S. EPA Tier 4 Final

COMPACTION FORCES

		PD
FREQUENCY I	25–29 Hz (1500–1740 vpm)	25–29 Hz (1500–1740 vpm)
FREQUENCY II	25–35 Hz (1500–2100 vpm)	25–35 Hz (1500–2100 vpm)
AMPLITUDE I	2.06 mm (0.081 in)	1.93 mm (0.076 in)
AMPLITUDE II	0.96 mm (0.038 in)	0.88 mm (0.035 in)
CENTRIFUGAL FORCE I	242–325 kN (54,403–73,063 lbf)	242–325 kN (54,403–73,063 lbf)
CENTRIFUGAL FORCE II	110–215 kN (24,728–48,334 lbf)	110–215 kN (24,728–48,334 lbf)

MISCELLANEOUS

BRAKES OPERATING	Hydrostatic
BRAKES PARKING	Multiple-disc spring brake
BRAKES EMERGENCY	Multiple-disc spring brake
FUEL TANK CAPACITY	345 l (91.1 gal)
ARTICULATION ANGLE	±36°
OSCILLATION ANGLE	±10°

WEIGHT & OPERATING CHARACTERISTICS

		HX	PD	HXPD
OPERATING WEIGHT	14 840 kg (32,720 lb)	14 860 kg (32,760 lb)	15 160 kg (33,420 lb)	15 180 kg (33,470 lb)
MAXIMUM WEIGHT	17 410 kg (38,380 lb)	17 430 kg (38,430 lb)	16 215 kg (35,750 lb)	16 235 kg (35,790 lb)
STATIC LINEAR LOAD	43.4 kg/cm (243 lb/in)	43.5 kg/cm (243.6 lb/in)	–	–
PAD CONTACT SURFACE	–	–	120 cm² (18.6 sq in)	120 cm² (18.6 sq in)
PAD HEIGHT	–	–	100 mm (3.9 in)	100 mm (3.9 in)
MAX. TRANSPORT SPEED	12.7 km/h (7.9 MPH)	10 km/h (6.2 MPH)	12.7 km/h (7.9 MPH)	10 km/h (6.2 MPH)
MAX. WORKING SPEED	6.5 km/h (4 MPH)	5.2 km/h (3.2 MPH)	6.5 km/h (4 MPH)	5.2 km/h (3.2 MPH)
CLIMBING ABILITY WITHOUT / WITH VIBRATION	53% / 50%	67% / 55%	54% / 50%	67% / 55%
TURNING RADIUS (INNER)	3570 mm (140.6 in)	3570 mm (140.6 in)	3570 mm (140.6 in)	3570 mm (140.6 in)

STANDARD EQUIPMENT

- CE conformity
- Cab with ROPS structure
- Smooth drum with steel scrapers
- Multiple frequencies / 2 amplitudes vibration system
- External draining points
- Working headlights (front and rear)
- Inter wheel flow divider
- Ergonomic and suspended operator seat
- Multifunctional operator display
- Telematics ready

OPTIONAL EQUIPMENT

- Air-conditioning (cab version only)
- Drum - PD version / steel scrapers
- Drum - PD shell kit / steel scrapers
- Smooth drum - vulcalon scrapers
- ACE^{force} - Ammann Compaction Expert
- HX drive
- ATC (Ammann Traction Control)
- Warning beacon
- Backup alarm
- Dozer blade

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