

ASC 110

SOIL COMPACTOR

EU Stage IIIA, U.S. EPA Tier 3

BRINGING TECHNOLOGY TO THE JOBSITE

The Ammann ASC 110 Soil Compactor thrives on medium to large jobsites such as municipal roads and residential developments. The roller utilises an efficient engine providing optimal compaction through the optional ACE systems. An HX versions of the roller excel on jobsites where high tractive efforts are required.

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

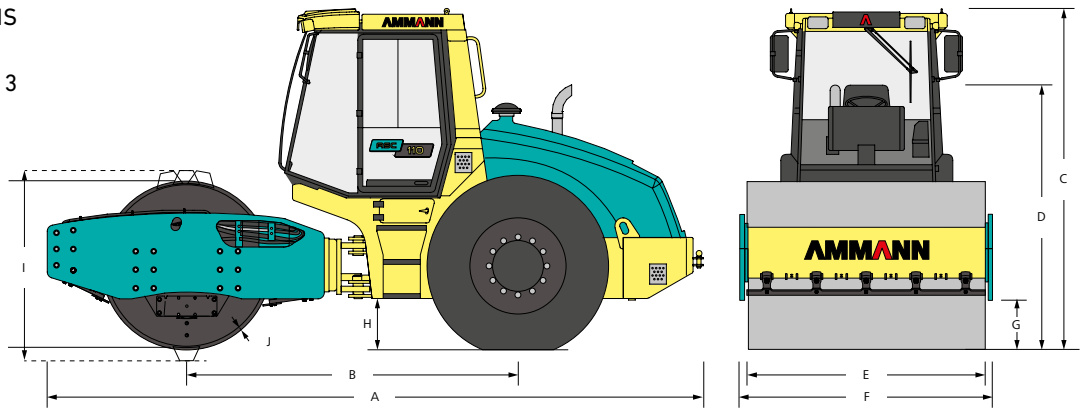
	Rockfill	Sand / Gravel	Mixed Soils	Silt	Clay
ASC 110	*0.8 m (31 in)	*0.6 m (24 in)	*0.5 m (20 in)	0.4 m (16 in)	0.25 m (10 in)
ASC 110 PD	–	–	*0.5 m (20 in)	*0.4 m (16 in)	*0.3 m (12 in)

*Recommended drum type



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TECHNICAL SPECIFICATIONS
ASC 110 SOIL COMPACTOR
EU Stage IIIA, U.S. EPA Tier 3



DIMENSIONS

A	Machine length	5780 mm (227.6 in)
B	Wheelbase	2878 mm (113.4 in)
C	Machine height	3070 mm (120.9 in)
D	Machine height (removed CAB / ROPS)	2400 mm (94.5 in)
E	Drum width	2130 mm (83.9 in)
F	Machine width	2258 mm (88.9 in)
G	Curb clearance	420 mm (16.5 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	25 mm (1 in) / *20 mm (0.8 in)

*PD

COMPACTION FORCES

		PD
Frequency I	32 Hz (1920 VPM)	31 Hz (1860 VPM)
Frequency II	35 Hz (2100 VPM)	35 Hz (2100 VPM)
Amplitude I	0.9 mm (0.035 in)	1.1 mm (0.043 in)
Amplitude II	1.85 mm (0.073 in)	2 mm (0.079 in)
Centrifugal force I	160 kN (35 969 lbf)	220 kN (49 458 lbf)
Centrifugal force II	277 kN (51 032 lbf)	277 kN (51 032 lbf)
Centrif. force ACE min./max.	0 kN / 280 kN (62 946 lbf)	0 kN / 280 kN (62 946 lbf)
Frequency ACE min./max.	23 Hz (1380 VPM) / 35 Hz (2100 VPM)	23 Hz (1380 VPM) / 35 Hz (2100 VPM)
Amplitude ACE min./max.	0 mm (0 in) / 2.5 mm (0.098 in)	0 mm (0 in) / 2.5 mm (0.098 in)

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°

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	11 490 kg (25 330 lb)	12 730 kg (28 060 lb)	13 330 kg (29 390 lb)
Maximum weight	15 370 kg (33 890 lb)	15 410 kg (33 970 lb)	15 510 kg (34 190 lb)
Stat. lin. load of front drum	34.5 kg/cm (193.2 lb/in)	34.7 kg/cm (194.3 lb/in)	-
Pad contact surface	-	-	120 cm ² (18.6 sq in)
Pad height	-	-	100 mm (3.9 in)
Max. transport speed	12.8 km/h (8 MPH)	8.2 km/h (5.1 MPH)	12.8 km/h (8 MPH)
Max. working speed	5.6 km/h (3.5 MPH)	3.7 km/h (2.3 MPH)	5.6 km/h (3.5 MPH)
Climbing ability	45 %	60 %	45 %
Turning radius (inner)	3050 mm (120.1 in)	3050 mm (120.1 in)	3050 mm (120.1 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)

ARS 110

SOIL COMPACTOR

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

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.

APPLICATIONS

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

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
- Tilttable 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

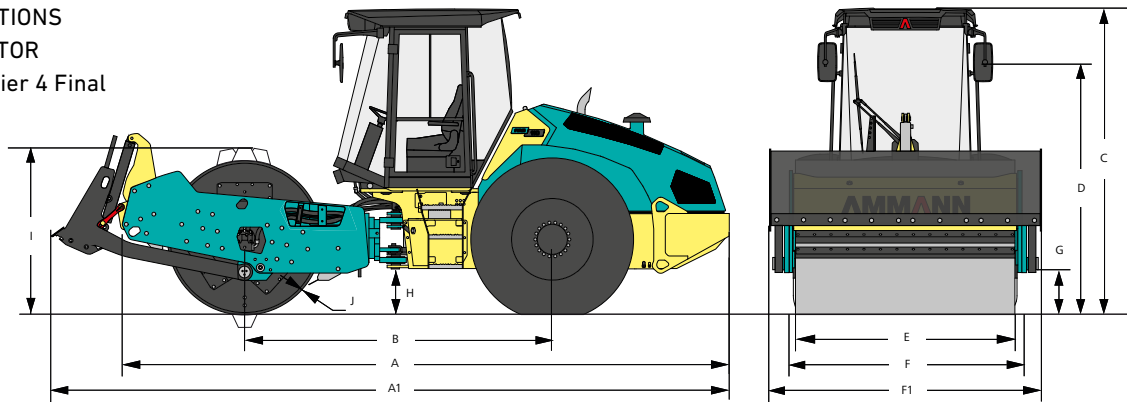
	Rockfill	Sand / Gravel	Mixed Soils	Silt	Clay
ARS 110	* 1000 mm (39 in)	* 700 mm (28 in)	* 600 mm (24 in)	450 mm (18 in)	270 mm (11 in)
ARS 110 (PD)	-	-	* 600 mm (24 in)	* 450 mm (18 in)	* 320 mm (13 in)

* Recommended drum type



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TECHNICAL SPECIFICATIONS
ARS 110 SOIL COMPACTOR
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DIMENSIONS

A	MACHINE LENGTH	5900 mm (232.3 in)
A1	MACHINE LENGTH (BLADE)	6610 mm (260 in)
B	WHEELBASE	2990 mm (117.7 in)
C	MACHINE HEIGHT	2970 mm (116.9 in)
D	MACHINE HEIGHT (OPERATOR SEAT)	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) / *1694 mm (66.7 in)
J	DRUM THICKNESS	25 mm (1 in) / *20 mm (0.8 in)

*PD

ENGINE

MANUFACTURER	Deutz TCD 3.6L4
POWER ACCORDING TO ISO 14396	100 kW (134 HP)
EXHAUST GAS AFTER-TREATMENT	EGR+DOC+DPF+SCR

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

COMPACTION FORCES

		PD
FREQUENCY I	25–31 Hz (1500–1860 vpm)	25–31 Hz (1500–1860 vpm)
FREQUENCY II	25–35 Hz (1500–2100 vpm)	25–35 Hz (1500–2100 vpm)
AMPLITUDE I	1.95 mm (0.077 in)	1.7 mm (0.067 in)
AMPLITUDE II	0.83 mm (0.033 in)	0.72 mm (0.028 in)
CENTRIFUGAL FORCE I	186–285 kN (41,814–64,071 lbf)	186–285 kN (41,814–64,071 lbf)
CENTRIFUGAL FORCE II	79–155 kN (17,759–34,845 lbf)	79–155 kN (17,759–34,845 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	HXP
OPERATING WEIGHT	10 860 kg (23,940 lb)	10 950 kg (24,140 lb)	11 485 kg (25,320 lb)
MAXIMUM WEIGHT	14 630 kg (32,250 lb)	14 720 kg (32,450 lb)	13 740 kg (30,290 lb)
STATIC LINEAR LOAD	30.3 kg/cm (169.6 lb/in)	30.6 kg/cm (171.4 lb/in)	–
PAD CONTACT SURFACE	–	–	120 cm ² (18.6 sq in)
PAD HEIGHT	–	–	100 mm (3.9 in)
MAX. TRANSPORT SPEED	12 km/h (7.5 MPH)	10 km/h (6.2 MPH)	12 km/h (7.5 MPH)
MAX. WORKING SPEED	7.6 km/h (4.7 MPH)	5.1 km/h (3.2 MPH)	7.6 km/h (4.7 MPH)
CLIMBING ABILITY WITHOUT / WITH VIBRATION	52% / 50%	67% / 55%	54% / 50%
TURNING RADIUS (INNER)	3625 mm (142.7 in)	3625 mm (142.7 in)	3625 mm (142.7 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