

ASC 170

SOIL COMPACTOR
EU Stage IIIA, U.S. EPA Tier 3

MEETING POWER AND OUTPUT DEMANDS

The Ammann ASC 170 Soil Compactor provides industry-leading compaction outputs on medium to large jobsites such as municipal roads and residential developments. The Cummins engine provides the necessary power, while options can make the machine a perfect fit for challenging jobsites. An HX version excels where high tractive efforts are required. Optional ACE technology identifies uncompacted spots.

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

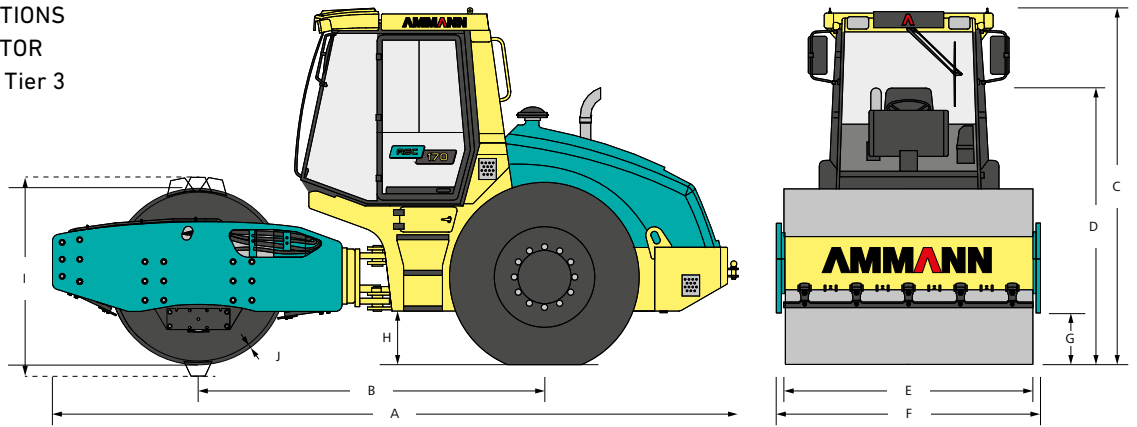
	Rockfill	Sand / Gravel	Mixed Soils	Silt	Clay
ASC 170	*1.4 m (55 in)	*0.9 m (35 in)	*0.8 m (31 in)	0.6 m (24 in)	0.32 m (13 in)
ASC 170 PD	-	-	*0.8 m (31 in)	*0.6 m (24 in)	*0.37 m (15 in)

*Recommended drum type



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TECHNICAL SPECIFICATIONS
ASC 170 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 (83.9 in)
F	Machine width	2258 mm (88.9 in)
G	Curb clearance	415 mm (16.3 in)
H	Ground clearance	440 mm (17.4 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 (1.2 in)

*PD

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

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	28 Hz (1680 VPM)	28 Hz (1680 VPM)
Frequency II	35 Hz (2100 VPM)	35 Hz (2100 VPM)
Amplitude I	2.2 mm (0.087 in)	2.2 mm (0.087 in)
Amplitude II	1.2 mm (0.047 in)	1.1 mm (0.043 in)
Centrifugal force I	335 kN (75 311 lbf)	335 kN (75 311 lbf)
Centrifugal force II	260 kN (58 450 lbf)	260 kN (58 450 lbf)

WEIGHT & OPERATING CHARACTERISTICS				
		HX	PD	HXPD
Operating weight	16 270 kg (35 870 lb)	16 300 kg (35 940 lb)	16 170 kg (35 650 lb)	16 200 kg (35 710 lb)
Maximum weight	18 140 kg (39 990 lb)	18 170 kg (40 060 lb)	17 190 kg (37 900 lb)	17 220 kg (37 960 lb)
Stat. lin. load of front drum	51.9 kg/cm (290.6 lb/in)	52 kg/cm (291.2 lb/in)	-	-
Pad contact surface	-	-	120 cm ² (18.6 sq in)	120 cm ² (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 without / with vibration	30% / 25%	55% / 50%	30% / 25%	55% / 50%
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)

ARS 170

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.

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

APPLICATIONS

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

MAXIMUM RECOMMENDED COMPACTED LIFT THICKNESS AT OPTIMAL WORKING CONDITIONS

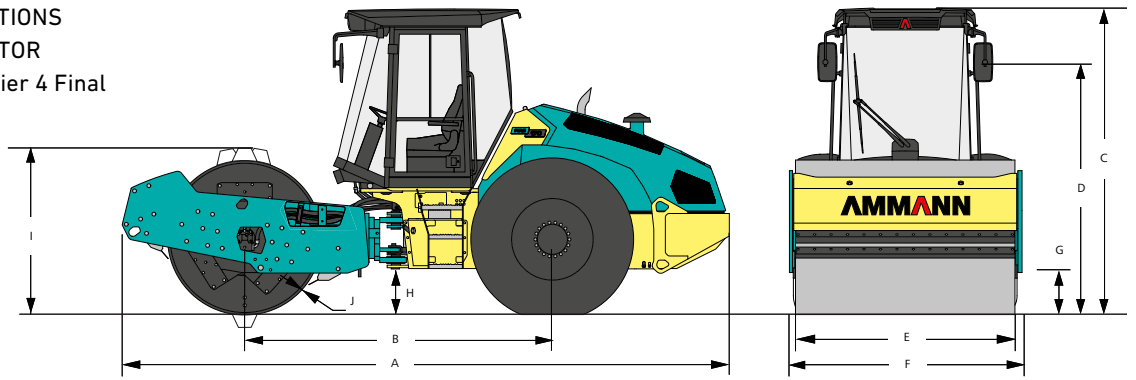
	Rockfill	Sand / Gravel	Mixed Soils	Silt	Clay
ARS 170	* 1400 mm (55 in)	* 900 mm (35 in)	* 800 mm (31 in)	600 mm (24 in)	320 mm (13 in)
ARS 170 (PD)	-	-	* 800 mm (31 in)	* 600 mm (24 in)	* 370 mm (15 in)

* Recommended drum type



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TECHNICAL SPECIFICATIONS
ARS 170 SOIL COMPACTOR
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DIMENSIONS

A	MACHINE LENGTH	5950 mm (234.3 in)
B	WHEELBASE	3040 mm (119.7 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)
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

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COMPACTION FORCES

	PD	
FREQUENCY I	25–28 Hz (1500–1680 vpm)	25–28 Hz (1500–1680 vpm)
FREQUENCY II	25–35 Hz (1500–2100 vpm)	25–35 Hz (1500–2100 vpm)
AMPLITUDE I	2.22 mm (0.087 in)	2.12 mm (0.083 in)
AMPLITUDE II	0.95 mm (0.037 in)	0.91 mm (0.036 in)
CENTRIFUGAL FORCE I	265–333 kN (59,574–74,861 lbf)	265–333 kN (59,574–74,861 lbf)
CENTRIFUGAL FORCE II	113–222 kN (25,403–49,908 lbf)	113–222 kN (25,403–49,908 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	16 340 kg (36,020 lb)	16 360 kg (36,070 lb)	16 555 kg (36,500 lb)
MAXIMUM WEIGHT	18 910 kg (41,690 lb)	18 930 kg (41,730 lb)	17 610 kg (38,820 lb)
STAT. LIN. LOAD OF FRONT DRUM	50.4 kg/cm (282.2 lb/in)	50.4 kg/cm (282.2 lb/in)	–
PAD CONTACT SURFACE	–	–	120 cm ² (18.6 sq in)
PAD HEIGHT	–	–	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)
MAX. WORKING SPEED	6.5 km/h (4 MPH)	5.2 km/h (3.2 MPH)	6.5 km/h (4 MPH)
CLIMBING ABILITY WITHOUT / WITH VIBRATION	56% / 50%	65% / 55%	44% / 40%
TURNING RADIUS (INNER)	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