

# ASC 170

SOIL COMPACTOR  
Tier 3

## MEETING POWER AND OUTPUT DEMANDS

The Ammann ASC 170 Tier 3 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 HT and HD versions excels where high tractive efforts are required. Optional ACE<sup>force</sup> technology identifies uncompacted spots.

## OPTIONAL ACE<sup>force</sup> TECHNOLOGY

- Provides measurement and documentation
- Precisely measures and evaluates material stiffness
- Shows compaction progress via operator-guiding function
- Includes ADS documentation software with office analyzing feature
- Can utilise all major manufacturers GPS products to provide mapping and operator guidance

## EASY ACCESS

- Easily accessible maintenance points
- Optionally centralized draining points for service fluids

## OPERATOR FRIENDLY

- Clear dashboard layout enables easy and safe operation
- Operator platform is mounted on vibration-free rubber mounts for highest comfort

## INDUSTRY-LEADING COMPACTION

- Utilises effective Ammann vibratory system
- Offers varied amplitude settings
- Drives energy into the material and away from the operator

## APPLICATIONS

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

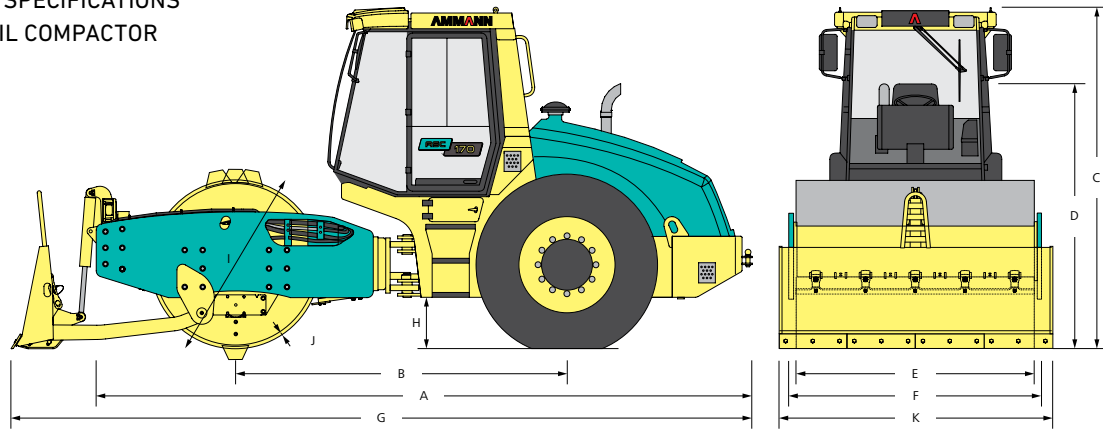
MAXIMUM RECOMMENDED COMPACTED LIFT THICKNESS AT OPTIMAL WORKING CONDITIONS

	Rockfill	Sand / Gravel	Mixed Soils	Silt	Clay
ASC 170 D	*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

**AMMANN**

TECHNICAL SPECIFICATIONS  
ASC 170 SOIL COMPACTOR  
Tier 3



**DIMENSIONS**

		D	PD
A	MACHINE LENGTH	5900 mm (232.3 in)	5900 mm (232.3 in)
B	WHEELBASE	2930 mm (115.4 in)	2930 mm (115.4 in)
C	MACHINE HEIGHT	3075 mm (121.1 in)	3075 mm (121.1 in)
D	MACHINE HEIGHT (REMOVED CAB / ROPS)	2420 mm (95.3 in)	2420 mm (95.3 in)
E	DRUM WIDTH	2130 mm (83.9 in)	2130 mm (83.9 in)
F	MACHINE WIDTH	2258 mm (88.9 in)	2258 mm (88.9 in)
G	MACHINE LENGTH (BLADE)	-	- mm (- in)
H	GROUND CLEARANCE	440 mm (17.4 in)	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)
K	MACHINE WIDTH (BLADE)	-	- mm (- 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)
VOLTAGE	24 V

**WEIGHT & OPERATING CHARACTERISTICS**

	D	HT	HD	PD	HTPD	HDPD
OPERATING WEIGHT	16 270 kg (35 870 lb)	16 300 kg (35 940 lb)	16 300 kg (35 940 lb)	16 170 kg (35 650 lb)	16 200 kg (35 710 lb)	16 200 kg (35 710 lb)
MAXIMUM WEIGHT	18 140 kg (39 990 lb)	18 170 kg (40 060 lb)	18 170 kg (40 060 lb)	17 190 kg (37 900 lb)	17 220 kg (37 960 lb)	17 220 kg (37 960 lb)
STATIC LINEAR LOAD	51.9 kg/cm (290.6 lb/in)	52 kg/cm (291.2 lb/in)	52 kg/cm (291.2 lb/in)	-	-	-
MAX. TRANSPORT SPEED	10 km/h (6.21 MPH)	7 km/h (4.35 MPH)	8.1 km/h (5.03 MPH)	10.1 km/h (6.28 MPH)	7 km/h (4.35 MPH)	8.2 km/h (5.1 MPH)
MAX. WORKING SPEED	4.5 km/h (2.8 MPH)	3.15 km/h (1.96 MPH)	3.6 km/h (2.24 MPH)	4.6 km/h (2.86 MPH)	3.15 km/h (1.96 MPH)	3.7 km/h (2.3 MPH)
CLIMBING ABILITY	30 %	55 %	40 %	30 %	55 %	40 %
TURNING RADIUS INNER (EDGE)	3715 mm (146.3 in)	3715 mm (146.3 in)	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)

**COMPACTION FORCES**

	D / HT / HD	PD / HTPD / HDPD
FREQUENCY I	28 Hz (1680 VPM)	28 Hz (1680 VPM)
FREQUENCY II	35 Hz (2100 VPM)	35 Hz (2100 VPM)
FREQUENCY ACE MIN./MAX.	-	-
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)
AMPLITUDE ACE MIN./MAX.	-	-
CENTRIFUGAL FORCE I	335 kN	335 kN
CENTRIFUGAL FORCE II	260 kN	260 kN
CENTRIF. FORCE ACE MIN./MAX.	-	-

**ENGINE**

MANUFACTURER	Cummins QSB 4.5-C160
POWER ACCORDING TO ISO 3046-1	119 kW (160 HP)
MAXIMUM TORQUE	624/1500 Nm/rpm
ENGINE COMPLIES WITH EMISSION REGULATIONS	EU Stage IIIA, U.S. EPA Tier 3

**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
- Dozer blade
- HD and HT versions
- ACE<sup>force</sup> compaction measurement (absolute values) and ADS documentation system
- GPS mapping for ACE systems