

**AMMANN**



**Equipment Ltd**

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Machines

**Single Drum Rollers**  
ASC 7-17 t Tier 4i



Ammann's newest single drum rollers combine the highest efficiency together with environmentally friendly operation. The latest generation of diesel engines fulfil the legislative requirements of EU stage IIIb and EPA Tier 4 interim. The highest compaction output and lowest operational costs – that's the new generation of Ammann single drum rollers.

# ASC soil compactor line

## Environmentally focused, tested in the hardest conditions

With a combination of heavy duty design and the latest engine technology incorporating EU Stage IIIb limits, the new ASC rollers are the most technically advanced compaction machines. The concept of the propulsion system and all its functional parts are proven by decades of operation in the hardest conditions. The design of the machine is robust and rigid, and provides the best reliability and durability.

## Ecology and Efficiency

The new Tier 4 interim engines provide clean power to efficiency to run the machine. The latest aftertreatment technology uses EGR+DOC system to cut out up to 80% more dangerous pollution than Tier 3 engines.

Beyond ecological concerns, the engines provide high fuel efficiency and together with the new cooling system and the automatic idle control system result in 15 % lower consumption than models with Tier 3 engines.

## Abreast of Technology

With the new ACE systems the operator receives the most precise information about compaction progress. All data are recorded, and can be evaluated afterwards. In combination with GPS monitoring, the ACE systems are state of the art in CCC systems worldwide.



### ACE<sup>force</sup> and ACE<sup>pro</sup>

ACE systems can be supported with GPS mapping system. Clear visualization of non-compacted spots.

All measured values can be displayed and evaluated:

- load bearing capacity of material
- number of passes
- values of frequency and amplitude

## Compaction output

Low fuel consumption is meaningless if it is not based on real compaction output. The highest values of eccentric forces and amplitudes of ASC rollers, provide great compaction ability. Maximum compaction in minimum passes – that's the main feature of ASC soil compactors.

### ACE<sup>force</sup>

New compaction meter measures absolute value of bearing capacity of the compacted material. The function of active messages easily helps the operator to recognize the compaction achieved.

### ACE<sup>pro</sup>

Ammann's unique system adjusts the parameters of vibration according to the actual value of bearing capacity of the compacted material. The System provides an automatic adjustment of the frequency and amplitude and visualization of optimal speed range. Compaction output of machine with ACE<sup>pro</sup> system is comparable with machines 2 classes heavier than our standard machines. Our new heavy duty gearbox and vibratory mechanism provides required robustness, durability and reliability.





Tilting cabin for safe and easy maintenance and service



PD shell kit



Accessible engine compartment and battery location

## Engine compartment

- New diesel engines Euro IIIb/Tier 4 interim with high fuel efficiency
- Easily accessible maintenance points
- Electrohydraulic tilting of hood as the standard
- Highly efficient cooling system with split cooler blocks
- Coolers are accessible from both sides for easy cleaning and maintenance

## Traction

- Ammann's original no axle concept provides great traction at all times
- Great Gradeability and stability ensured by Ammann Traction Control
- Heavy Duty version for permanent use in hard conditions
- High Traction model with increased pulling force for the most difficult terrain

## Operator comfort

- Clear layout of dashboard helps easy and safe machine operation
- ROPS/FOPS protection as standard for cabin version
- Pleasant operator station provides highest comfort

## Service and maintenance

- Daily maintenance points are accessible from ground level
- Electrohydraulic hood tilting for easy and fast access to all check points
- Filling and draining points for service fluids are centralized for easy and fast fluids exchange

## Compaction and working features

- Two drum versions - D (smooth drum) and PD (padfoot)
- Great compaction efficiency due to high values of eccentric forces and amplitudes
- CCC systems ACE<sup>force</sup> and ACE<sup>pro</sup>
- Optional Pad Foot shells for extended applications
- Dozer blade available for all models



## Operator always comes first

High comfort, intuitive control and handling ensure maximum safety of operation. The spacious cab provides good comfort for pleasant daily work. Easy and fast daily maintenance is ensured by electrohydraulic hood tilting and ground level accessible check points.





## Technical Specifications

### Standard

- CE conformity including ROPS structure
- Engine EU Stage IIIb/EPA Tier 4 interim
- Open platform with rails
- Smooth drum with steel scrapers
- 2 vibration frequencies and amplitudes
- Inter wheel diff lock
- Electrohydraulic hood & cabin tilting
- Working head lights front and rear
- Centralized draining points

### Option

#### Cab and platform options

- ROPS/FOPS Steel canopy for platform version
- Cabin, ventilated and heated
- Air Conditioning for cab
- Radio with CD

#### Application options

- Pad foot shells kit
- Dozer blade
- Loader tyres 23.5x25 (for ASC 110-170 only)
- Engine pre cleaner Top Spin
- Vulcolan scrapers
- Bio. degradable hydraulic oil (Panolin)

#### Road homologation options

- Road lights incl. Turn signals
- SMW triangle
- Holder for licence plate
- Warning beacon
- Back-up alarm

#### Traction options

- Ammann Traction Control (ATC - interwheel and interaxle diff. control)
- HD version
- HT propulsion

#### CCC technology

- ACE<sup>pro</sup> - compaction measurement (absolute) and regulation of vibration parameters
- ACE<sup>force</sup> - compaction measurement (absolute)
- GPS mapping for ACE systems

#### Service and maintenance options

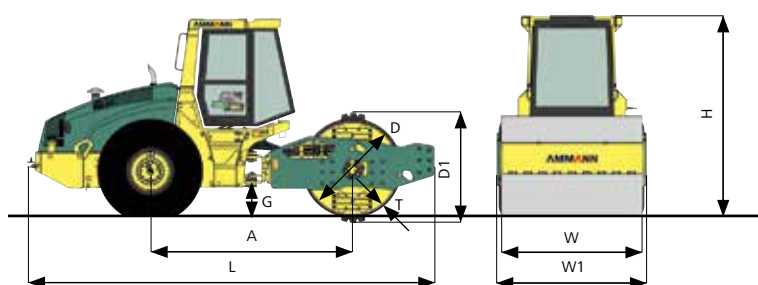
- Ammann Toolkit
- Consumable spare parts for the first 2000 h
- Warranty program „Awesome“

#### Others

- Customer color design
- Tachograph Kienzle
- Fire extinguisher

### Maximum compacted lift thickness at optimal working conditions in m

	Rockfill	Sand/gravel	Mixed soils	Silt	Clay
ASC 70 D	-	0,45	0,35	0,25	0,15
ASC 70 PD	-	-	0,35	0,25	0,2
ASC 90 D	-	0,5	0,4	0,3	0,2
ASC 90 PD	-	-	0,4	0,3	0,25
ASC 110 D	0,8	0,6	0,5	0,4	0,25
ASC 110 PD	-	-	0,5	0,4	0,3
ASC 130 D	1	0,7	0,6	0,45	0,27
ASC 130 PD	-	-	0,6	0,45	0,32
ASC 150 D	1,2	0,8	0,7	0,5	0,3
ASC 150 PD	-	-	0,7	0,5	0,35
ASC 170 D	1,4	0,9	0,8	0,6	0,32
ASC 170 PD	-	-	0,8	0,6	0,37



Dimensions in mm	A	D	D1	G	H	L	T	W	W1
<b>ASC 70 D</b>	2690	1300	1400	385	2870	5270	25	1680	1875
<b>ASC 90 D</b>	2690	1300	1400	385	2870	5270	25	1680	1875
<b>ASC 110 D</b>	2990	1500	1640	440	3070	6050	25	2130	2260
<b>ASC 130 D</b>	2988	1500	1640	440	3070	6050	25	2130	2260
<b>ASC 150 D</b>	3050	1500	1640	440	3070	6130	40	2130	2258
<b>ASC 170 D</b>	3050	1500	1640	440	3070	6130	40	2130	2258

ASC Roller	ASC 70		ASC 90		ASC 110		ASC 130		ASC 150		ASC 170		
	D	PD	D	PD	D	PD	D	PD	D	PD	D	PD	
<b>Weights</b>													
Operating weight CECE	kg	7240	7090	8920	8870	11570	12180	12740	12510	14580	14490	16270	16170
Operating weight max.	kg	9350	8260	11030	9520	15450	14320	16600	15170	18440	17150	18600	16320
Static linear load	kg/cm	23,7	-	31,6	-	33,4	-	39,2	-	47,5	-	51,9	-
VM classification	-	VM 2	-	VM 3	-	VM 3	-	VM 3	-	VM 4	-	VM 5	-
<b>Drum and wheels</b>													
Drum Width		1680		1680		2130		2130		2130		2130	
Drum diameter	mm	1300	1400	1300	1400	1500	1640	1500	1640	1500	1640	1500	1640
Thickness	mm	25	15	25	15	25	20	25	20	40	28	40	28
No. of pads	-	-	104	-	104	-	140	-	140	-	140	-	140
Height of pad	mm	-	80	-	80	-	100	-	100	-	100	-	100
Tire size (Diamond treat)	-	14,9x24"		14,9x24"		23,1x26"		23,1x26"		23,1x26"		23,1x26"	
(Tractor treat)	-		14,9x24"		14,9x24"		23,1x26"		23,1x26"		23,1x26"		23,1x26"
<b>Engine</b>													
Producer		Deutz					Cummins						
Type		TCD 3,6 L4					QSB 4,5 C 160						
Emission stage		EU Stage IIIB/EPA Tier 4 interim					EU Stage IIIB/EPA Tier 4 interim						
Output according ISO 3046	kW/HP	74/99					119/160						
<b>Drive</b>													
No. of speeds	-	3 + 1					3 + 1						
Max. working speed	km/h	5,1		4,8		5,7		5,6		4,6		4,5	
Max. transport speed	km/h	11,4		11,1		12,5		13		10,1		10	
Gradeability with vibration	%	45		45		45		45		45		40	
Gradeability with vibration - HD/HT	%	55/60		55/60		55/60		55/60		50/55		45/50	
<b>Steering</b>													
Turning radius inside	mm	3200		3200		3630		3630		3715		3715	
Steering and oscillating angle	± °	36/12		36/12		36/10		36/10		36/10		36/10	
<b>Vibration</b>													
Amplitudes	mm	1,70/0,86		1,85/0,90		1,85/1,15		1,90/1,05		2,0/1,0		2,20/1,20	
Frequencies	Hz	30/41		30/41		32/35		30/36		29/35		28/35	
Centrifugal forces	kN	145/130		160/145		277/206		300/230		325/237		335/260	
<b>Capacities</b>													
Fuel	l	255		255		350		350		350		350	

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