AMMANN

Machines

Single Drum Rollers
ASC 30/50

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ASC 30/50

The basic concept

- An articulated roller has to fulfil very different applications. Ideal compaction results need to be achieved in short time while considering different soil types, varying civil works and permanent changing labour. Therefore the demands of the customer on the equipment are enormous and very different.
- The objective during the development of our rollers was to take into consideration as many of the requirements as possible and to implement them in the series.
- This enables the customer to assemble a machine in accordance with his special requirements.
- With smooth or padfoot drum, with dozer blade or with the optional smooth drum segments, whereby the padfoot drum can be converted into a smooth drum.

Individual

A roller, specially designed according to the wishes of the customer? This is not a great dream, this is reality with Ammann. The modular structure of our rollers allows the customer to arrange his machine individually according to his needs.

Comfort

- Generously dimensioned drivers platform mounted on completely vibration-free bearings. This effectively eliminates the transmission of vibration and stress to the driver.
- One-hand operation of all blade and vibration functions.
- Clearly arranged cockpit and simple operation ensures effective utilization.

Modern, clearly arranged cockpit

Dozer Blade

- Equipped with a hydraulic dozer blade, the roller can be used for backfilling and compaction work without additional earth moving equipment.
- In combination with the tilt function on the blade the machine is capable of preparing a perfect plane surface followed by compaction with the same machine.

Control lever

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ASC 30/50

- New hydraulic concept by the use of the „Twin-Lock"-system. This is a fully automatic traction management system with a completely mechanical mode of operation. In case of slip in one of the drive components, the torque is automatically and steplessly forwarded to the remaining drive systems.
- The machine only stops when both drive wheels and the drum are without traction. As a result a maximum gradeability is reached on any type of ground.
- The ASC 50 was developed on the basis of the ASC 30. Therefore we were able to realize an extremely compact roller compared to the weight class of the machine. Due to the small dimensions and the resulting agility the machine outstands also on smaller civil works with its maximum performance.

Cabin

- ASC 30/50 have ROPS driver platform as basic version. Optionally a closed cabin with heating, heatable rear window and front and rear working lights is available.

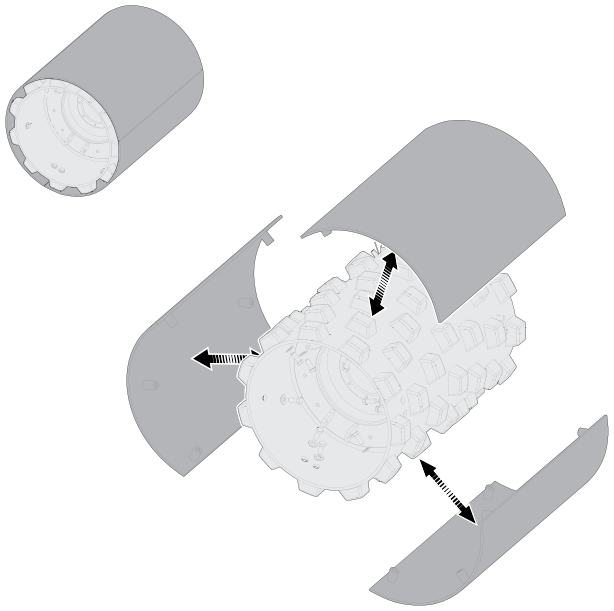
Variable

- The ASC 50 HD are serially equipped with a variable compaction output. Hereby the machines can be used on any type of terrain, allows compaction above pipes and leaves an even surface

  On the ASC 50 HD it is additionally possible to switch between the following two options:

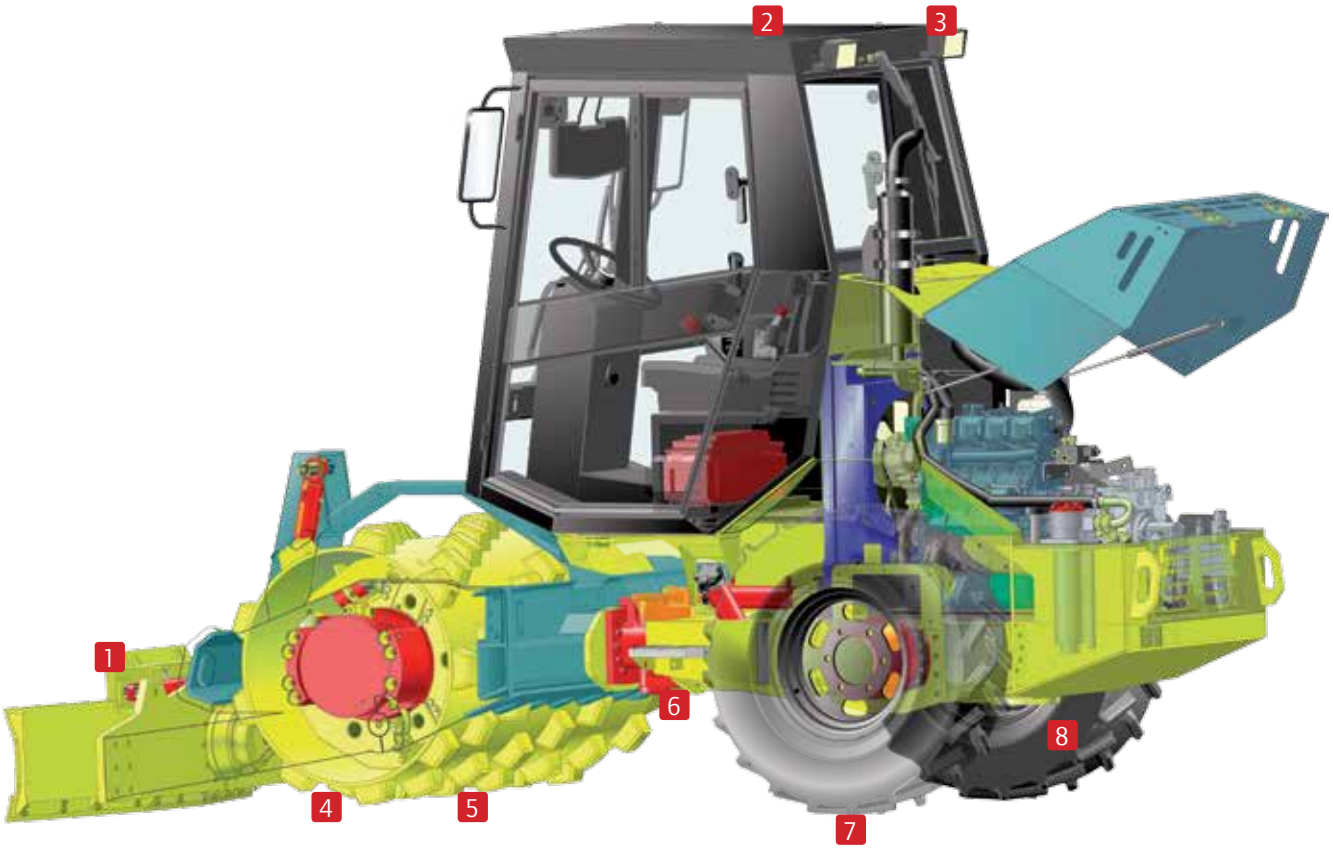
  1) Combination of low frequency with high amplitude and compaction force
  2) Combination of high frequency with lower amplitude and compaction force

  This enables the roller to be adapted to various soil types and fields of application.
- On the ASC 50 HDPD the setting of the rotating direction of the eccentric shaft can be switched. The gradeability and compaction output on slopes can be optimized with this function.



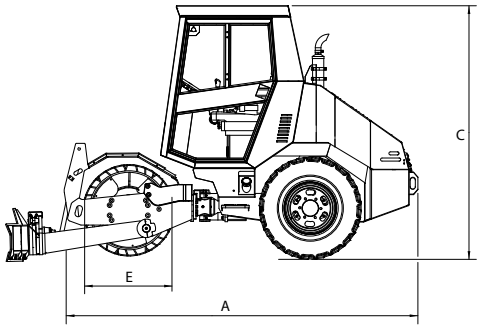
Optional smooth drum segments

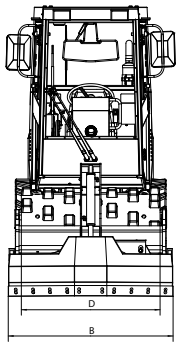
Technical Specifications



1. Hydraulic dozer blade with tilt-function
2. Closed cabin with heating and working lights (Option ASC 30/50)
3. Ideal visibility for the driver
4. Completely side clearance due to the hose guiding inside the frame
5. High compaction power with compact dimensions
6. Articulation-oscillation joint
7. „Twin-Lock“ -traction control (ASC 30/50)
8. Low centre of gravity

		ASC 30 HDPD	ASC 50 D	ASC 50 HD
				*PD
Version		Pad-foot drum	Smooth drum	Smooth/*Pad-foot drum
Working width	mm	1200	1400	1400
Weight				
Operating weight	kg	4100	4320	4500
Front axle load	kg	-	2370	2420
Rear axle load	kg	-	1960	2080
Static line load	kg/cm	19,25	16,6	17,3
Engine				
Manufacturer / Type		Kubota V 2203 M	Kubota V 2203 M	Kubota V 3600
Power	kW/PS	35,9/48	35,9/48	49,8/67
At rpm		2800	2800	2600
Number of cylinders / cooling		4/water cooled	4/water cooled	4/water cooled
Drive system		hydrostatic	hydrostatic	hydrostatic
Vibration system				
Centrifugal force	kN	95	100	100/40 - 100 (HDPD)
Amplitude	mm	1,8	1,8	1,8/0,8 - 1,8 (HDPD)
Frequency	Hz	36	34	31/34 - 34 (HDPD)
Drive system		hydrostatic	hydrostatic	hydrostatic
Filling capacities				
Fuel	l	78	78	78
Hydraulic oil	l	140	140	140
Driving qualities				
Speed (continuous variable)		0 - 7	0-7	0-7,5
Steering	+/- °	articulation	articulation	articulation
Articulation angle		30	27	27
Gradeability w / w/o vibration	%	30/40	30/30	40/40





Dimensions in mm	A	B	C	D	E
ASC 30 HDPD	3190	1330	2470	1200	890
ASC 50 D	3920	1540	2480	1400	1070
ASC 50 HD	3920	1540	2480	1400	1070

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Detailed information can be found at: **www.ammann-group.com**

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Specifications are subject to change.