



Machines

High performance plate
compactors 420-730 kilos

AVH 5030/AVH 6030/AVH 100-20



Nothing stays the same



3
Ammann 3-Wellen
Hochleistungsverdichter
Excitateur à 3 arbres haute performance
High Performance Triple Shaft Exciter System

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The unique triple-shaft exciter

Triple-shaft exciter system

The facts:

The new triple-shaft exciter system has been designed to improve the maneuverability and climb ability of a vibration plate in a revolutionary way. When working in cohesive material the unfavorable tilting action of plates, fitted with conventional double shaft exciter systems, and the lack of powerful climbing ability prevented the use of such machines or provided poor compaction results. The ease in handling and maneuvering of the machine can be felt particularly when the use of low frequency – high amplitude is requested. The triple shaft exciter system causes the plate to avoid erratic movements, allowing a smooth travel even through heavy, cohesive soil. The unique and even running travel rhythm makes the plate effortlessly climb over obstacles and/or backfill with high moisture content without the usual suction effect, which often causes the plate to come to a complete standstill. The AVH 5030, AVH 6030 and AVH 100-20 are fully hydraulic vibrating plates and have been designed with the most favorable balance between impact force and centrifugal force in their respective weight classes.

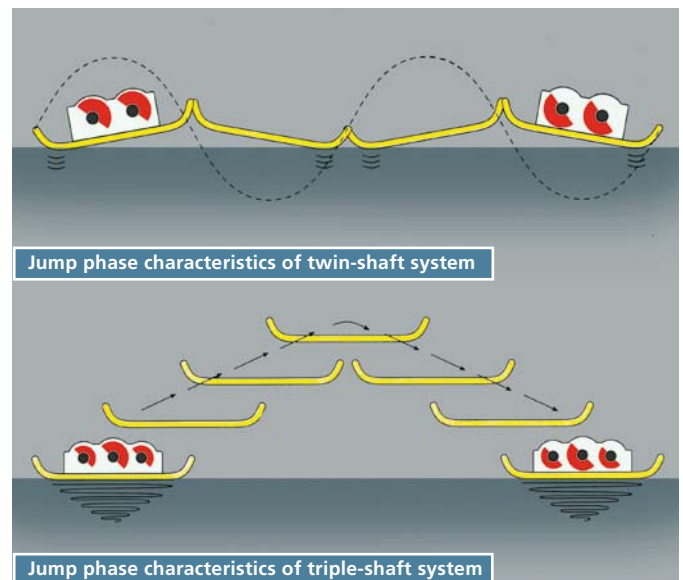
The result:

Maximum compaction performance – 60 kN or 100 kN respectively. Based on the triple shaft exciter system and subsequently due to the unique balance of impact force and centrifugal force model AVH 6030 and model AVH 100-20 offer an excellent forward and reverse travel as well as astonishing climb ability in cohesive material. Vibration plates fitted with the triple shaft exciter system provide homogenous compaction without disturbing the top layer of the compacted soil due to a continuous contact to soil.

Powerful arguments:

- Fully hydraulic, infinite servo-control gives the highest precision for forward and reverse travel as well as for point compaction.
- Low-vibration control arm and operating system provides a maximum in maneuverability, an effortless working even over a long period of time and a fatigue-free operator.
- A compact working height of only 765 mm allows an additional layer of compaction below diagonal trench reinforcement.
- Engine and hydraulic components are completely covered to prevent damage during transportation and by falling debris during trench work.
- Universal application through optimal, variable co-ordination of frequency, centrifugal force and amplitude.
- Convenience is not an option standard features include electric start for operator convenience in confined areas as well as for reliable starting during operation in cold temperatures. Folding central lifting point for quick and safe loading and unloading. Emergency-stop function at the end of the control arm (AVH 6030 optional).

Unique solution





Universal application in soil compaction



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This is what the industry is getting excited about:

The AVH 5030, AVH 6030 and AVH100-20 with unique triple-shaft exciter

Electric start and an electronic engine monitor are standard features on model AVH 100-20 optional for model AVH 5030 and AVH 6030:

- Robust and low maintenance battery with enhanced asset-reservoir and integrated carrying handles. The battery is bedded into a newly developed, vibration resistant, suspension system (AVH 100-20 only).
- An electronic shut off system protects the engine via solenoid, in case the engine's oil level reaches minimum
- Engine can not be restarted unintentionally when running
- All electric functions are cut off after two minutes, when the engine has been switched off via throttle and without turning the ignition off
- In case of low battery power, when it becomes necessary to start the engine manually with the provided crank, the electronic recognizes the manual start and allows battery to re-load, provided the ignition switch is set in the "On" position

AVH 100-20 with Farymann diesel engine

In addition to the Hatz Supra diesel engine, the model AVH 100-20 now alternatively is available with the horizontally placed Farymann diesel engine 43 F. This guarantees a considerable low working height - which is an important feature regarding the operation in trenches protected by shuttering systems.

The oversized cyclone air filter, which is placed dust protected in the top section of the upper frame, ensures a trouble-free and longlasting operation in critical and dusty areas.



Precision servo operating convenience and Emergency Stop switch as standard (AVH 6030: optional equipment)



Fully hydraulic drive with powerful, Hatz diesel engine



Folding, single lifting point



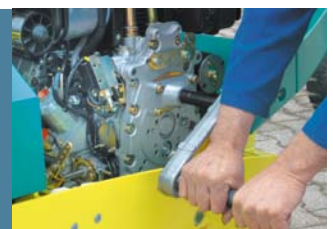
Reliable, vibration resistant and service friendly battery



• Electric start
• Oil alert system
• no unintentional engine re-start
• automatic engine cut-off in case of longer engine switch-off (without ignition turn-off) prevents discharge of battery



Effortless manual start with safety crank





Fully hydraulic and much more.

A condensed overview of benefits and advantages:

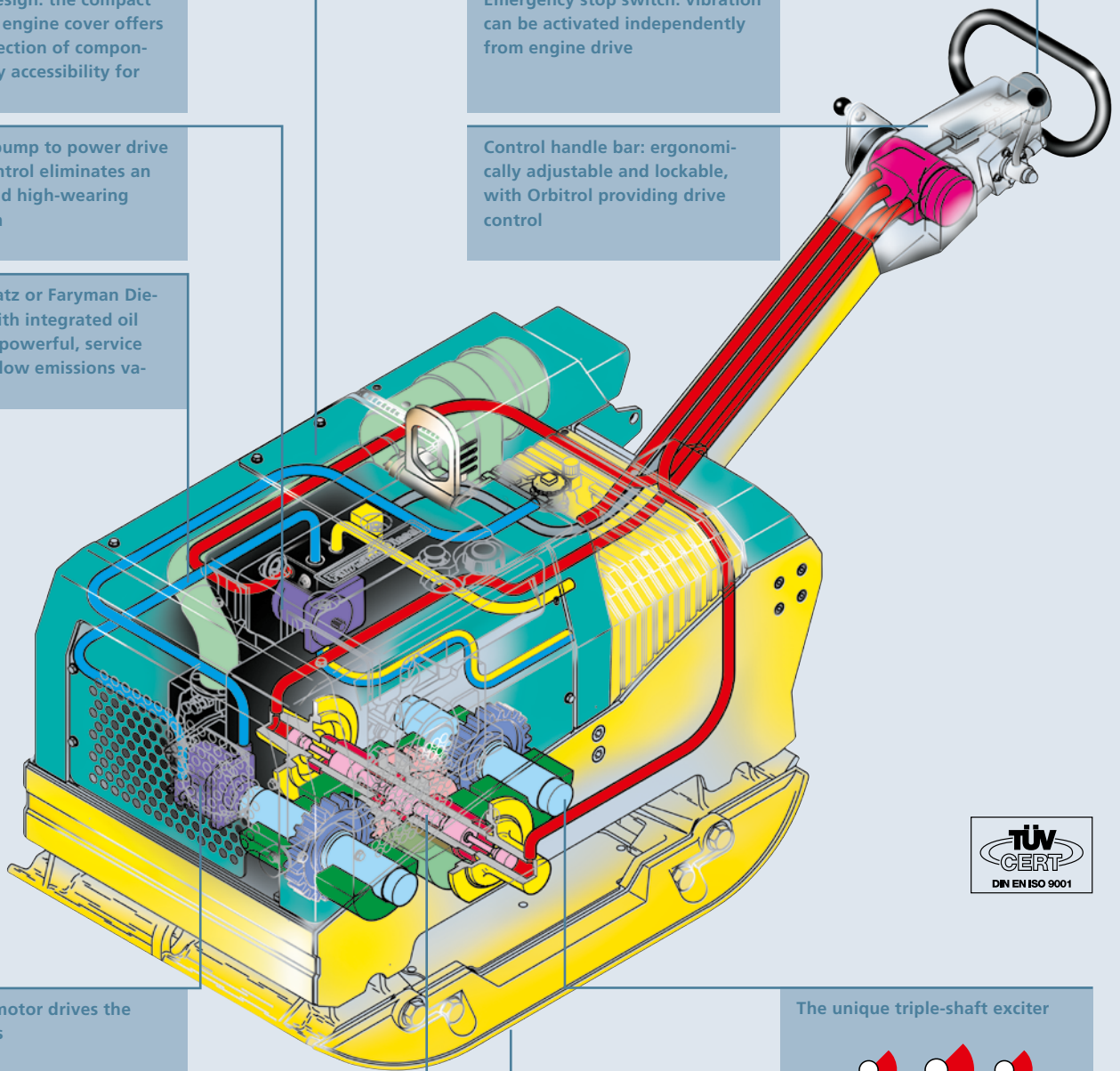
Functional design: the compact and foldable engine cover offers optimal protection of components and easy accessibility for service

A hydraulic pump to power drive and drive control eliminates an expensive and high-wearing v-belt system

Air-cooled Hatz or Faryman Diesel engine with integrated oil alert system powerful, service friendly and low emissions values

Emergency stop switch: vibration can be activated independently from engine drive

Control handle bar: ergonomically adjustable and lockable, with Orbitrol providing drive control



Hydrostatic motor drives the exciter shafts

Hydrostatic adjustment of the exciter shafts controlled by the Orbitrol on the handle bar

The unique triple-shaft exciter



Optimized shape of abrasion-resistant, self-cleaning cast iron base plate ensures balanced running performance, powerful drive and high climbability



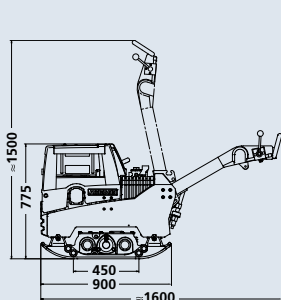


Technical Data

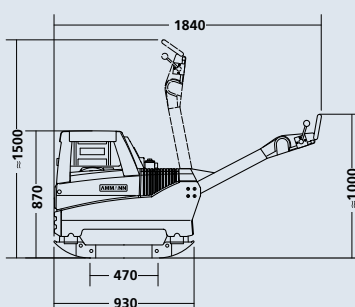
	AVH 5030	AVH 6030	AVH 100-20	AVH 100-20
	Hatz Diesel	Hatz Diesel	Farymann Diesel	Hatz Diesel
Weight / Measurements				
Operating weight CECE basic unit	kg 401	kg 480	kg 680	kg 680
with extension plates	kg 420/433	kg 500/525	kg 714/732	kg 705/730
with e-start	kg + 30	kg + 30		
Working width				
basic unit	mm 450	mm 550	mm 650	mm 650
with extension plates	mm 600/750	mm 700/850	mm 800/950	mm 800/950
Drive				
Engine type	Hatz 1 D 50S	Hatz 1 D 81S	Farymann 43F	Hatz 1 D 90S
Type	1 cyl./4-stroke-Diesel	1 cyl./4-stroke-Diesel	1 cyl./4-stroke-Diesel	1 cyl./4-stroke-Diesel
Power	kW/PS 7/9,4	kW/PS 10/13,5	kW/PS 11,0/15,0	kW/PS 10,9/15,4
at speed	U/min 2700	U/min 3000	U/min 3000	U/min 2900
Cooling	air	air	air	air
Fuel consumption	l/h ca. 1,7	l/h ca. 2,5	l/h ca. 2,5	l/h ca. 2,5
Tank capacity	l 5	l 7	l 7,5	l 10
Max. gradient	° 30	° 30	° 30	° 30
Max. climbability	% 36	% 36	% 36	% 36
Drive	hydraulic	hydraulic	hydraulic	hydraulic
Shift forward / reverse	hydraulic	hydraulic	hydraulic	hydraulic
Operating speed				
Variable	m/min 0-22	m/min 0-28	m/min 0-28	m/min 0-28
Vibration				
Centrifugal force	kN 50	kN 60	kN 100	kN 100
Frequency	Hz 65	Hz 55	Hz 40	Hz 40
Maximum performance	m ² /h 594/792/990	m ² /h 925/1260/1430	m ² /h 1090/1350/1600	m ² /h 1090/1350/1600
Electric start	optional	optional	standard	standard
Max. compaction performance*				
sand/gravel	cm 70	cm 90	cm 100	cm 100
cohesive soil	cm 30	cm 30	cm 40	cm 40
Optional equipment				
extension plates	mm 75/150	mm 75/150	mm 75/150	mm 75/150
cover	x	x	x	x
operating hour meter	x	x	x	x
emergency stop	x	x	standard	standard

*depending on ground conditions

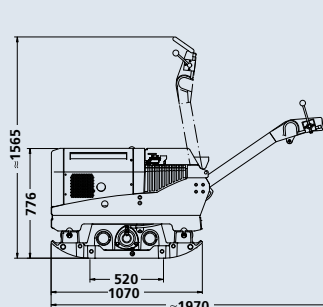
Specifications are subject to change due to technical improvements.



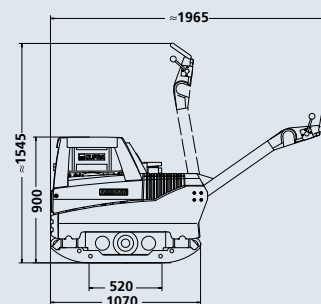
AVH 5030



AVH 6030



AVH 100-20 Farymann



AVH 100-20 Hatz

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