Hamm Soil Stabilizer Raco 350

Technical specification

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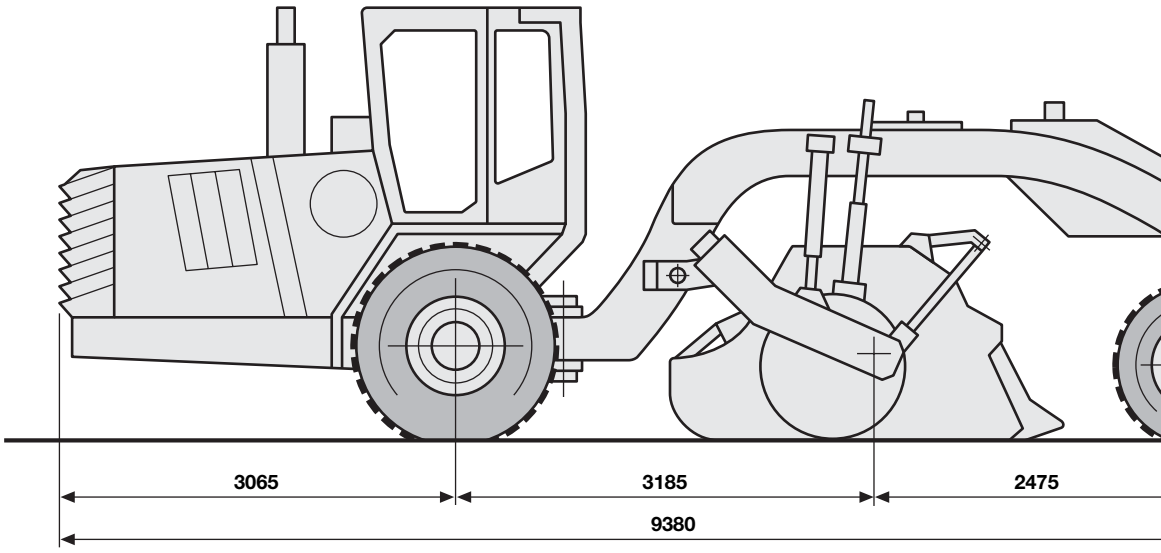
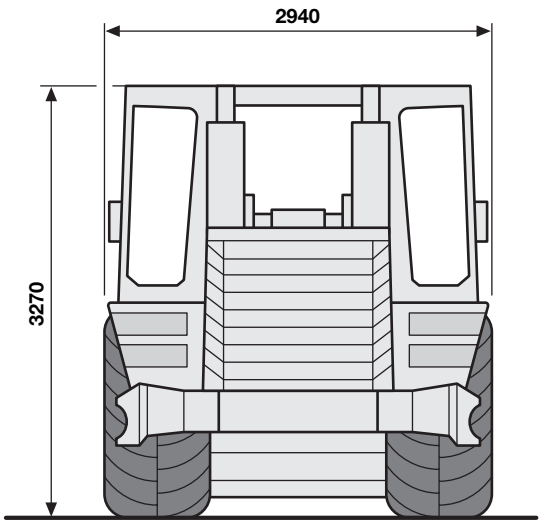
		Hamm Soil Stabilizer Raco 350	
Working width max.	mm	2,400	
Working depth *1	mm	0–450	
Milling and mixing drum			
Tool spacing	mm	16	
Number of tools		172	
Drum diameter with tools	mm	1,380	
Diameter of the milling drum	mm	860	
Drum inclination, max.	°	15	
Engine			
Manufacturer		Deutz	
Type		BF8M 1015C	
Cooling		Water	
Number of cylinders		8	
Output	kW/HP/PS	370/496/503	
Engine speed	min^{-1}	2,000	
Displacement	cm^3	15,870	
Fuel consumption, 1/1 load	l/h	72	
Fuel consumption, 2/3 load	l/h	48	
Speed/gradeability			
1st gear	m/min	0–45	
2nd gear	km/h	0–16.2	
Theoretical gradeability	%	40	
Ground clearance	mm	350	
Weights *2			
Front axle load	daN (kg)	15,270	
Rear axle load	daN (kg)	6,080	
Operating weight, CE *3	daN (kg)	21,350	
Tyres			
Type		Radial	
Tyre size, front		28 LR 26 TL	
Tyre size, rear		19.5 LR 24 TL	
Tank capacities			
Fuel tank	l	900	
Hydraulic fluid tank	l	400	
Electrical system	V	24	
Shipping dimensions			
Dimensions of machine (L x W x H)	mm	9,380 x 2,940 x 3,270	

*1 = The maximum working depth may deviate from the value indicated, due to tolerances and wear.
*2 = All weights refer to basic machine without any additional equipment.
*3 = Weight of machine with half-full fuel tank, driver (75 kg) and tools.

Technical description

Dimensions in mm





Turning radius inside = 3.260 mm
Turning radius outside = 6.730 mm

Basic mechanical design

The Hamm Raco 350 is a soil stabilizer with hydrostatically driven milling and mixing rotor.

Chassis

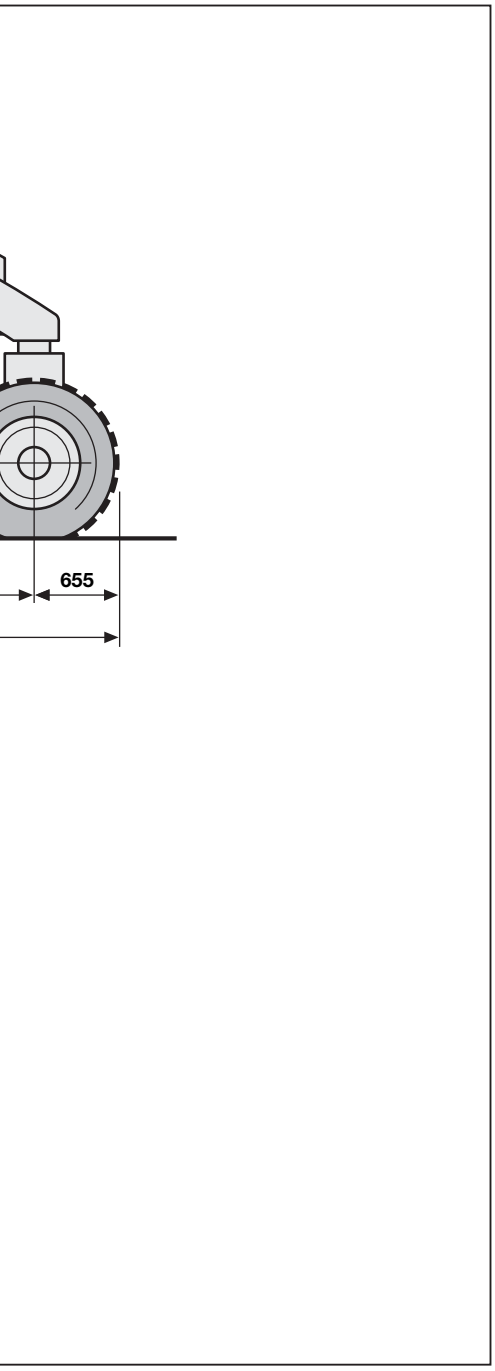
The welded machine frame is made up of two parts. The front part accommodates the diesel engine with drive station for the hydraulic pumps and the operator's platform. The milling and mixing rotor is supported by the rear part of the machine. The two parts are interconnected by an articulated oscillating joint. All components are readily accessible for maintenance work.

Engine

The Hamm Raco 350 has a Deutz diesel engine rated at 370 kW / 503 PS to drive the hydraulic system for both the travel and the milling drive. The air drawn into the engine passes through a multi-stage filter. The engine meets the stringent standards of the US Environment Protection Agency (EPA) and of the European Union.

Steering

The Hamm Raco 350 has hydraulical-



ly actuated articulated steering with a maximum steering angle of + 30°.

The front axle is a rigid axle. The rear wheels are rigidly suspended from the chassis and can be steered. The rear axle oscillates about an axial joint and is therefore largely independent of the movement of the front axle. The oscillation angle equals 15° in both directions.

Travel drive

All-wheel drive is a standard feature of the soil stabilizer. The front axle has a limited-slip differential to ensure optimum traction. The two rear wheels are driven via hydraulic motors fed by a common pump. The large tyres with deep tread additionally ensure a high speed of advance, even on difficult terrain.
The travel speed can be infinitely varied from zero to maximum in both driving and milling gear.

Power control

The feed rate is controlled as a function of the engine speed by the automatic motor monitoring system. The power distribution between travel and milling drive can be varied, depending on the type of job concerned. Automatic power control can be deactivated for manual adjustment of the feed rate.

Brakes

Braking is achieved through interlocking of the hydrostatic drive. A multiple disk brake is additionally installed on each wheel as parking brake.

Milling and mixing rotor

The milling and mixing rotor operates in an up-cutting direction. Toolholders accommodating the round-shank cutters are welded onto the drum body as a standard feature. Special, bolted edge segments can be replaced with particular ease.

Optionally, the milling and mixing rotor can also be equipped with the tried-and-tested, patented quick-change toolholder system HT3. In this case, the bottom parts of the toolholders are welded to the drum body. The upper parts are secured in the bottom parts by retaining bolts and can be replaced without difficulty.

The rotor housing is made of particularly wear-resistant special steel and equipped with hydraulically adjustable flaps at the front and rear.

The milling and mixing rotor is lowered hydraulically to set the working depth. The position of the rotor housing remains unchanged, thus enlarging the mixing area in proportion to the working depth. The set working depth can be read off on large, clearly legible displays on the right and left of the rotor housing.

A wear-resistant crusher bar can also be integrated into the drum housing if required.

Milling and mixing rotor drive

The milling and mixing rotor is driven hydrostatically on both sides. The speed can be infinitely varied between 120 and 145 rpm. The hydraulic lines for the rotor drive are enclosed in a well sealed housing to protect them against damage and fouling.

Soundproofing

Soundproofing is a standard feature to reduce noise levels for both the operating personnel and the environment.

Operator's platform

The operator's platform is located at the front of the machine and can easily be accessed from both the right and the left. The operating elements are clearly arranged, easily legible and within easy reach of the driver. A shock-absorbent seat of adjustable height and position ensures maximum comfort for the driver. The height and angle of the steering column can similarly be infinitely adjusted. The main operating data can be read off on clearly laid out displays.

An air-conditioned cab with all-round glazing is optionally available for the soil stabilizer. A slight excess pressure prevents dust entering the cab. The fresh air is additionally filtered.

Hydraulic system

Separate hydraulic systems for the travel drive, milling and mixing rotor drive, control functions and cooling system. The hydraulic pumps are driven by the diesel engine via a PTO gear.

Electrical system

24 V system with 3-phase alternator, two 12 V batteries and a starter.

Safety and transport

The soil stabilizer includes an Emergency OFF switch, a reversing horn, a flashing warning light and a safety circuit for work on the rotor. Comprehensive working lights ensure that work can continue without danger in twilight and in the dark.

A locking mechanism prevents the machine buckling during transport. Clearly marked loading and lashing lugs allow the machine to be loaded by crane and secured for transport.

○ Standard ● Optional

Equipment	Hamm Soil Stabilizer Raco 350
Frame/operator's platform	
Driver's cab including filter and air-conditioning	●
Special painting	●
Milling unit	
Milling and mixing rotor with welded toolholder system HT5	○
Milling and mixing rotor with quick-change toolholder system HT3	●
Crusher bar	●
Pneumatic tool ejector	●
Travel drive	
All-wheel drive	○
Combinated articulated and rear axle steering	○
Miscellaneous	
Air intake with preliminary filter	●
High-pressure water wash down	●
Injection system	●
Soundproofing	○
Air compressor	○
Working lights	○
Warning light	○
Reversing horn	○
Loading and lashing lugs	○
Comprehensive tool kit	○
Comprehensive safety package	○
CE Declaration of Conformity	○

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