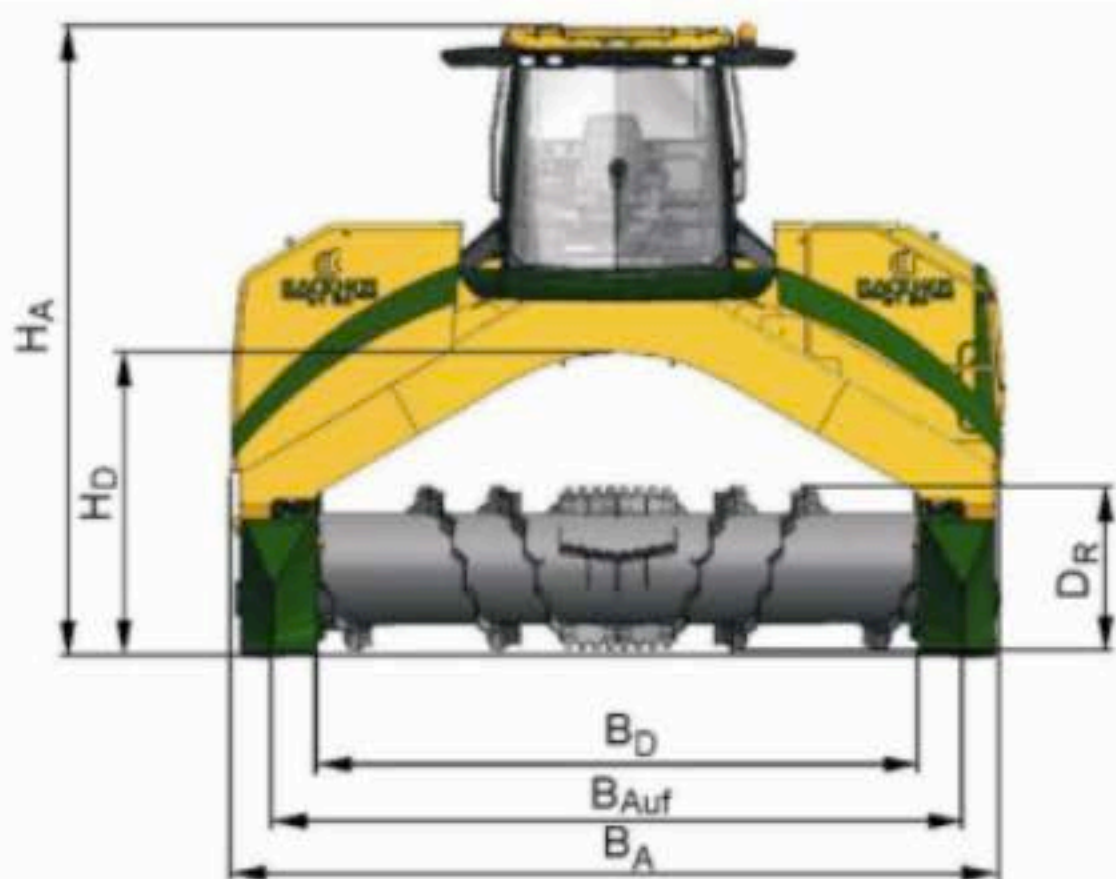


Technical Data / Delivery Volume


BACKHUS 21-series			21.43	21.50	21.55	21.60
working data						
heap width up to	B _{Auf}	m (ft)	4,3 (14.1)	5,0 (16.4)	5,5 (18.1)	6,0 (19.7)
heap height up to		m (ft)	2,1 (6.9)	2,4 (7.9)	2,5 (8.2)	2,6 (8.5)
heap cross section*		m ² (yd ²)	4,6 (5.5)	6,2 (7.4)	7,5 (9.0)	8,9 (10.6)
surface utilization*		m ³ /m ² (yd ³ /yd ²)	1,07 (1.17)	1,25 (1.37)	1,36 (1.49)	1,47 (1.61)
width track clearer		m (inch)	2x0,32 (2x12.6)			
clearing share*		%	2,2	1,6	1,4	1,1
granular size up to		mm (inch)	300 (2x12)			
longitudinal heap displacement approx.		m (ft)	2,5 (8.2)			
displacement capacity up to**		m ³ /h (yd ³ /h)	2.800 (3,700)	3.600 (4,700)	4.000 (5,200)	4.600 (6,000)
rotor torque		Nm (lbf ft)	7.500 (5,500)	9.200 (6,800)	12.600 (9,300)	
rotor rotation speed		min ⁻¹ (RPM)	240	230		
number of firm throwing tools		-	40	56	60	72
Number of lateral canted tools		-	4	8	12	
number of firm throwing rakes		-	8			12
dimensions - work						
rotor diameter	D _R	mm (inch)	1.000 (39.4)	1.200 (47.2)		
width	B _A	mm (ft)	5.300 (17.4)	6.000 (19.7)	6.500 (21.3)	7.000 (23.0)
height	H _A	mm (ft)	4.600 (15.0)	4.900 (16.1)	4.650 (15.3)	5.100 (16.7)
clearance width	B _D	mm (ft)	3.740 (12.3)	4.440 (14.6)	4.940 (16.2)	5.440 (17.8)
clearance height	H _D	mm (ft)	1.900 (6.2)	2.200 (7.2)	2.300 (7.5)	2.400 (7.9)
ground clearance max.	H _F	mm (inch)	450 (17.7)	350 (13.8)		
dimensions – transport						
length**	L _T	mm (ft)	3.000 (9.8)			
width**	B _T	mm (ft)	8.000 (26.3)	8.700 (28.5)	9.200 (30.2)	9.700 (31.8)
height**	H _T	mm (ft)	3.200 (10.5)	3.300 (10.8)		
weight approx.**		t	10.0-13.0	12.0-15.0	13.0-15.0	14.0-16.0

* at a dumping angle of 45°

** Values may differ depending upon equipment.

BACKHUS 21-series		21.43	21.50	21.55	21.60
engine		Cummins Turbo-Diesel water cooled			
type		QSB 6.7-C205	QSC 8.3-C280		QSL 9-C325
cylinder		6			
cubic capacity	l	6,7	8,3		8,9
nominal capacity	KW (HP) RPM	153 (205) @ 1,800	209 (280) @ 2,100		242 (325) @ 2,100
maximum capacity	KW (HP) RPM	153 (205) @ 1,800	225 (302) @ 1,900		261 (350) @ 1,900
max. torque	Nm (lbf ft) RPM	929 (685) @ 1,300	1.356 (1,000) @ 1,500		1.424 (1,050) @ 1,500
three-phase generator	V / A	24 / 70	24 / 100		
battery	V / Ah	2x12 / 143			
fuel tank	l	500			

Frame

box construction type portal frame
corrosion-resistant 2-color lacquer coating
RAL1004 golden yellow and RAL6029 mint green
Steel surfaces (except wear areas)
Sa 2 1/2 blasted with DIN EN ISO 12944-4
Coating in accordance with DIN EN ISO 12944-5
Category C2
Coat thickness 120µm

Engine

high-power CUMMINS-Diesel engine
exhaust gas certification level:
III A (EuroMot) / Tier 3 (U.S. EPA/CARB)
4-valve technology
Common Rail fuel injection system
waste gas turbocharger
charge air cooling
electronic engine management
flexible engine mounting
intake air pre-filter
side-by-side cooling system with large mesh size
reversion of maximum air flow in both directions
trapezoidal perforated sheet for pre-cleaning cooling air
engine hood can be opened widely

Rotor

hydraulic drive in closed circuit
RPM adjustable and reversible under load
infinitely variable adjustable in height under load
rotor height indicator
screwed tools
easily and quickly exchangeable
throwing rake
for best possible heap arrangement

Hydraulic rear flap

Track clearer

independently hydraulically swiveling and height adjustable
automatic ground contour adaptation

Hydraulics

hydraulic oil cooler with reversion of maximum air flow in both directions
reflux suction filtration with fiber glass filter cells
electric level and filter monitoring
magnetic valve with LED-performance indicator

Panorama-ease and convenience cabin

adjustable spring born seat for driver
arm rests with operating elements
one-lever steering with joystick
CD/MP3/radio mounting kit with 2 stereo loudspeakers
cabin filter according to G4 (EU4)
according to DIN EN 779 (DIN 24 185)
warm water heating with three-stage ventilation
automatic air-conditioning system
side window can be opened
sun protection front and back

Electrical equipment

4 halogen head lights, in the front roof of the cabin lamps
4 halogen head lights, in the rear roof of the cabin lamps
rotating beacon
machine monitoring
with visual and acoustic warning
acoustic operation warning
acoustic back up warning

Delivery accessories

amply access and rails according to standard
dismountable tool box
first-aid box
operating instructions according to CE-standard
operating instructions are enclosed in German and in the native language of the European country of application (outside of Europe: English).
introduction in the machine
instructions on theoretical and practical knowledge about the machine in practical operation

Machine control

BACKHUS-Track-Control (BTC)
load depending track drive control with limited control (overload control function)
automatic drive with precise control