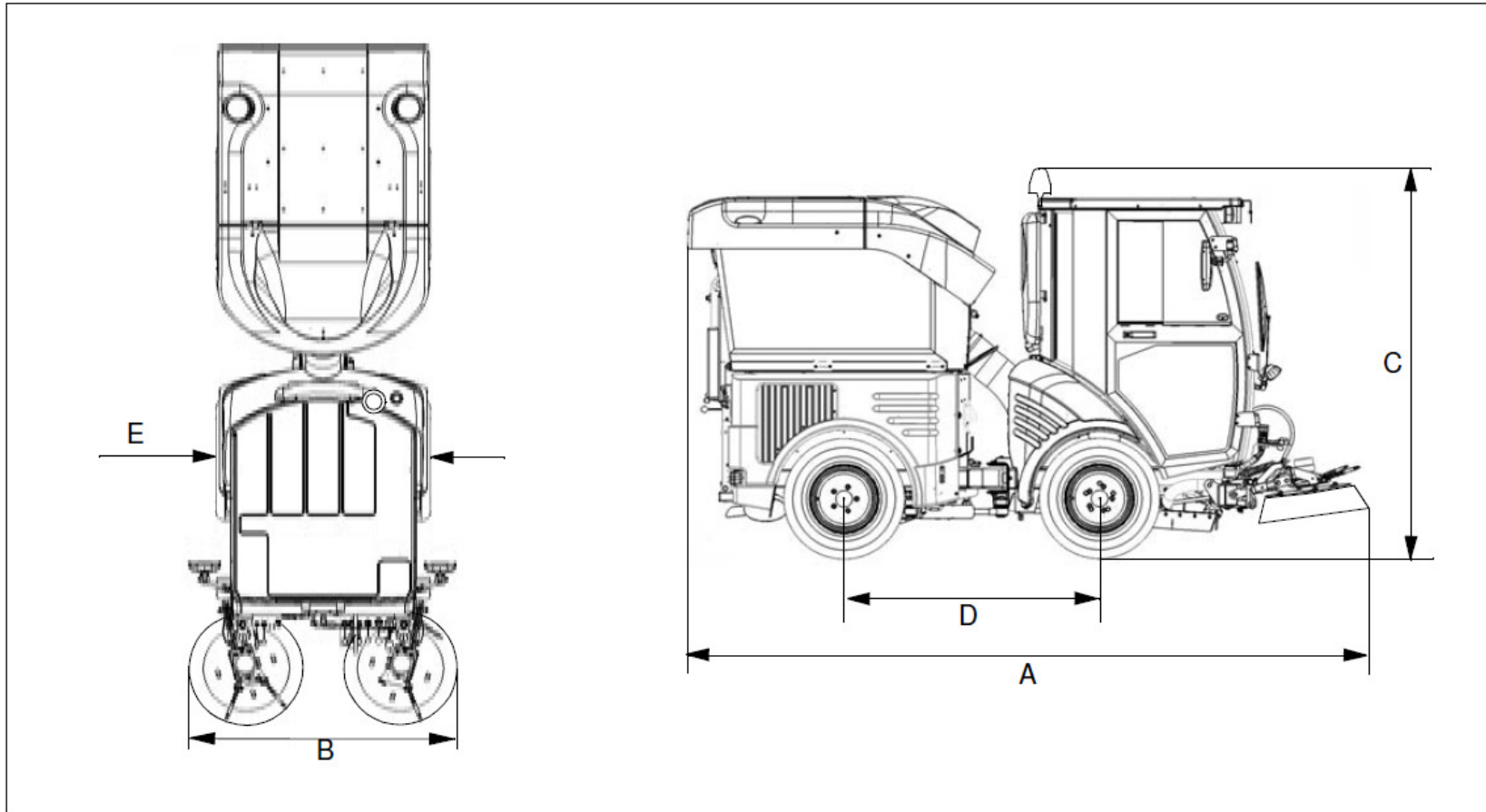




1.1.2 Technical Data Contens

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1.1.2 Technical Data





1.1.2 Technical Data
 Dimensions, weights, axle loads

Dimensions		Basic unit with loading platform	Basic vehicle with sweeping system	Basic vehicle with scrubber system
Length (A) (depending on configuration)	mm	3255-3355	3969	4000
Width (B) (depending on configuration)	mm	1188-1318	1250-1318	1370
Height (C) (depending on configuration)	mm	1995-2202	1995-2202	1995-2202
Wheel base (D)	mm	1430	1430	1430
Gauge (E) (with tires 195R14C)	mm	984	984	984
Turning circle (external)	mm	2625	2850	2900
Weights				
Dead weight (depending on configuration)	kg	1600-1700	1980-2080	1950-2050
Gross total weight	kg	2600	2600	2600
Axle loads				
Permitted front axle load	kg	1500	1500	1500
Permitted rear axle load	kg	1600	1600	1600
Trailer weight 1)				
Permitted weight for unbraked trailers	kg	750	750	750
Permitted weight for braked trailers	kg	1750	1400	1400
Total weight of tractor/trailer combination and Climbing capacity				
Total weight for unbraked tractor/trailer combination	kg	3100	3100	3100
Total weight for braked tractor/trailer combination	kg	3500	3500	3500
Climbing capacity (Total weight)	%	12	12	12



1.1.2 Technical Data Engine

Engine		
Manufacturer		Yanmar Co. Ltd.
Type		4 TNV 88-BMHW
Procedure		4 stroke Diesel engine
Power (at 2600 1/min)	kW/ECE-R24	33
Torque, max	Nm / 1/min	143 / 1560
Cylinder/stroke	mm	88/90
Cubic capacity	cm ³	2190
Compression ratio		19, 1:1
Number of cylinders		4 cylinders row
Engine oil from Mobiloil (or similar)		Delvac MX 15W-40
Engine oil volume with/without filter change	liter	8.2/8.6
Engine oil filter, screw-in cartridge	order no.	114-032
Idling speed	rpm	1100 +/- 50
Preferred engine speed / max. engine speed	rpm	2450 / 2750 +/- 25
Cooling mode: thermostat-controlled liquid cooling,		
Air filter: filter insert / safety cartridge	order no.	114-347 / 114-348
Coolant (coolant additive: Glaceelf Auto Supra) coolant additive percentage: min 40%, max 60%	liter	approx. 7.5



1.1.2 Technical Data
Fuel system, travel drive speed, hydraulic system

Vertical loads on couplings and slopes		
Permitted vertical load on the coupling point of the bar coupling	kg	max. 250
Permitted vertical load on the coupling point of the ball head coupling	kg	max. 150
Fuel system		
Fuel		Diesel fuel
Tank volume	liter	approx. 60
Filter, fuel	order no.	114-033
Driving speeds		
Transport mode (automotive)	km/h	0-30
Work mode (all-wheel)	km/h	0-16
Reversing	km/h	0-12
Hydraulic system/traction drive		
Hydraulic circuit 1 at 195 bar	l/min	46
Hydraulic circuit 2 at 195 bar	l/min	4-20
Driving operation at 295 bar	l/min	0-120
Hydraulic oil (e.g.: Mobiloil)		DTE 15M
Hydraulic oil filter		
- Suction return-line filter	order no.	109-279
- Ventilation filter	order no.	108-260
Hydraulic oil filling volume	Liter	45



1.1.2 Technical Data
 Tyres, sweeper/ dirt hopper

Brake system		SAE J 1703
Tank volume	liter	0,5
Tire pressure		
Standard tires: 195R14C - Rim: 6J14H2 - M = 160Nm	bar	3.5
Standard tires: 215/65R14C - Rim: 6J14H2 - M = 120Nm	bar	2.9
Wide base tire: 26x12.00-12 TL8PR - Rim: 6J14H2 - M = 160Nm	bar	1.5
Sweeping system		
Speed of suction turbine	rpm	2200 - 2600
Suction pipe diameter	mm	180
Brushes (number / diameter)	piece / mm	2 / 900
Brush speed	rpm	0 - 200
Scrubber system		
Speed of suction turbine	rpm	2200 - 2600
Suction pipe diameter	mm	180
Brushes (number / diameter)	piece / mm	2 / 900
Brush speed	rpm	0 - 200
Dirt hopper		
Capacity	m ³	1.0
Solution tank	liter	170
Circulation water system	liter	175



1.1.2 Technical Data
Electrical system, noise emissions, vibrations

Electrical system		
Type of current		DC
Rating	V	12
Starter battery	V / Ah	12/74
Alternator	V/A	14.4/80
Noise emission at the preferred engine speed Basic vehicle with loading platform		
The driving noise in accordance with 2009/63/EC Annex VI:	dB (A)	79
The standing noise in accordance with 2009/63/EC Annex VI:	dB (A)	82
The noise at the driver's ear in accordance with 2009/76/EC:	dB (A)	81
The noise emission value at the preferred engine speed Basic vehicle with sweeping system / scrubber system		
The sound power level measured in accordance with DIN EN ISO 3744 under the maximum deployment conditions (at the workplace) (LwAd) is:	dB (A)	108
With noise insulation package (optional)	dB (A)	99
The sound power level measured in accordance with DIN EN ISO 11201 under the usual deployment conditions (at the workplace) (LpA) is:	dB (A)	79
The measurement uncertainty (KpA) is:	dB (A)	3.5
Vibration values		
The weighted, effective value of the vibration, established in accordance with ISO 1032, to which the body (feet and seat area) are exposed under normal working conditions is no more than	m/s ²	0.5



1.1.2 Technical Data

Structure of Hako Machine Numbers

E.g. 1433 22 2 0006 2

