

*Cleaning technology  
Municipal technology  
Water jet technology*

***Hako***



***Our contribution to the future!***

*Preserving resources. Recycling materials. Reducing CO<sub>2</sub>.*



# Sustainability for the world of tomorrow

Providing future-proof cleaning, municipal and water jet technology, Hako stands for solutions without compromise. This also applies in terms of sustainability. When developing our products, we always consider the entire life cycle: from production with environmentally friendly, CO<sub>2</sub>-saving processes in modern plants and economically efficient, eco-friendly use to recycling and disposal.

### Bringing out the best – for the environment!

The recycling process begins with the shredding of the old machine. We then examine it for recyclable materials. Many of our machines are almost completely recyclable. As a partner of the Blue Competence sustainability initiative of the mechanical and plant engineering industry, our goal is to keep increasing the proportion of recyclable materials in production – while at the same time reducing CO<sub>2</sub> emissions.

## Recyclable materials Scrubmaster B45 CL TB510

Part type	Part name	Material	Weight
Rotational parts	solution tank	PE	29.0
	recovery tank	PE	16.0
	electric box	PE	9.5
		PE	3.5
Injection-moulded parts	tank cover (recovery tank)	ABS	1.7
	cover e-box	ABS	0.3
	operating panel	ABS	0.2
Metal parts	chassis	steel	20.8
	handle bar	steel	6.9
	squeegee lift	steel	1.2
	cover (solution tank)	steel	3.2
	brush unit	steel	1.5
	swing arm (brush head)	aluminium	4.5
	squeegee body	aluminium	1.9
		aluminium	1.6
Batteries	2 x 105 Ah	lead	80.0
Motors	drive system	50% aluminium & 50% copper	17.9
	brush motor	50% aluminium & 50% copper	7.6
	suction motor	50% aluminium & 50% copper	8.3
Packaging	packaging	wood & cardboard	2.0
			30.0 *
Wheels	wheel	30% aluminium & 70% PU	3.4
	swivel castor	65% steel & 35% PU	2.2
Electrics	Bail-System		3.8 **
	wiring harness		0.9
	wiring harness		0.1
	wiring harness		0.1
	wiring harness		0.1
	water pump		0.4
	charger		0.7
	drive control		1.2
		0.5	
			186.7 ***

\* wood 25 kg / cardboard 5 kg \*\* 40% copper \*\*\* 90% determined from gross weight

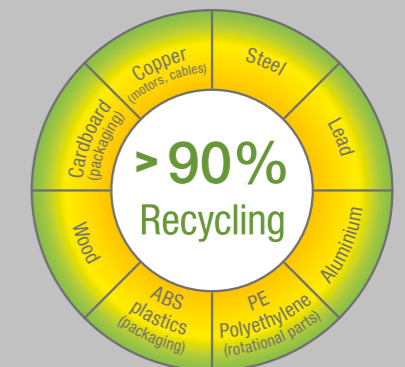


### Highly recyclable

When recycling, we search the machines for materials such as copper, steel, aluminium and polyethylene.

### Reducing, reusing, recycling

Already during the production of our machines, we make sure to use the highest possible percentage of recyclable materials. For example, the rotating parts of our walk-behind scrubber-driers, such as the solution and recovery tanks, are made of polyethylene. The chassis, handlebar and squeegee lift are made of steel and are also 100% recyclable. When it comes to packaging, we are increasingly using wood and cardboard to sustainably reduce plastic waste. For example, the Scrubmaster B45 CL TB510 has a high recyclability of over 90%.



*Achieving the best results sustainably – this guiding vision shapes our entrepreneurial actions. Here and today. And with a view to the future!*



#### Hako for the future

Environmental protection and sustainability are integral components of the corporate philosophy at all Hako sites.

Calculation CO <sub>2</sub> emissions				
	Energy consumption	CO <sub>2</sub> emissions	Calculation factors	
Power	2,287,544 kWh	1,228,411 kg	power in kWh x 0.537 = Co <sub>2</sub> in kg	
Gas	1,681,279 kWh	339,618 kg	gas in kWh x 0.202 = Co <sub>2</sub> in kg	
Heat from biogas	4,122,400 kWh	0 kg	CO <sub>2</sub> -neutral	
Total	8,091,223 kWh	1,568,029 kg		

Calculation CO <sub>2</sub> emissions per minute of production				
Minutes of production in total	11,027,741 minutes			
CO <sub>2</sub> emissions per minute of production	0.14219 kg			

Scrubmaster walk-behind scrubber-driers					
Model	B30 CL TB430	B45 CL TB510	B70 CL TB650	B90 CL TB 750	
Code number	99771540	99770062	99706142	99706241	
Minutes of production	211.5 minutes	220.2 minutes	317.1 minutes	297.96 minutes	
Consumption in kWh	155 kWh	162 kWh	233 kWh	219 kWh	
CO <sub>2</sub> emissions during production	30 kg	31 kg	45 kg	42 kg	

Scrubmaster ride-on scrubber-driers					
Model	B75 R TB 550	B120 R TB 900	B175 R TB 900	B260 R TB 1080	B400 RM TB 1230
Code number	99717512	99717730	99718060	99718210	99719010
Minutes of production	412.4 minutes	542.9 minutes	918.2 minutes	987.5 minutes	1,469.9 minutes
Consumption in kWh	303 kWh	398 kWh	674 kWh	725 kWh	1.078 kWh
CO <sub>2</sub> emissions during production	59 kg	77 kg	131 kg	140 kg	209 kg

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