

*Cleaning technology
Municipal technology
Water jet technology*

Hako



Our contribution to the future!

Preserving resources. Recycling materials. Reducing CO₂.



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, CO₂-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 CO₂ 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 ₂ emissions | | | | |
|---------------------------------------|----------------------|---------------------------|--|--|
| | Energy consumption | CO ₂ emissions | Calculation factors | |
| Power | 2,287,544 kWh | 1,228,411 kg | power in kWh x 0.537 = Co ₂ in kg | |
| Gas | 1,681,279 kWh | 339,618 kg | gas in kWh x 0.202 = Co ₂ in kg | |
| Heat from biogas | 4,122,400 kWh | 0 kg | CO ₂ -neutral | |
| Total | 8,091,223 kWh | 1,568,029 kg | | |

| Calculation CO ₂ emissions per minute of production | | | | |
|--|--------------------|--|--|--|
| Minutes of production in total | 11,027,741 minutes | | | |
| CO ₂ 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 ₂ 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 ₂ emissions during production | 59 kg | 77 kg | 131 kg | 140 kg | 209 kg |

Source / link : https://www.bafa.de/SharedDocs/Downloads/DE/Energie/eew_merkblatt_co2.pdf?__blob=publicationFile&v=2

Hako GmbH
 Head Office
 Hamburger Str. 209-239
 23843 Bad Oldesloe
 Tel. +49(0)4531- 806 0
info@hako.com
www.hako.com