// User Manual

SIMPRO BINBLASTER

This document belongs to the machine specified below, and should accompany the machine in the event that it is leased, sold, or otherwise transferred.

Model	Serial	Owner	Delivery Date

For the purposes of standards compliance and international conformity, this document uses Système International (SI) units. These may be converted to Imperial units as follows:

1 kilogram (kg) = 2.2 pounds (lb)

1 metre (m) = 1000 millimetres (mm) = 39.37 inches (in) = 3.28 feet (ft) = 1.09 yards (yd)

1 litre (L) = 1000 cubic centimetres (cc) = 0.264 US liquid gallons (gal)

1 kilopascal (kPa) = 0.01 bar (bar) = 0.145 pounds per square inch (psi)

The following stylistic conventions are used throughout this document:

Information that applies only to the BinBlaster Battery model [BB1000-B]

Information that applies only to the BinBlaster Hydro model [BB1000-H]

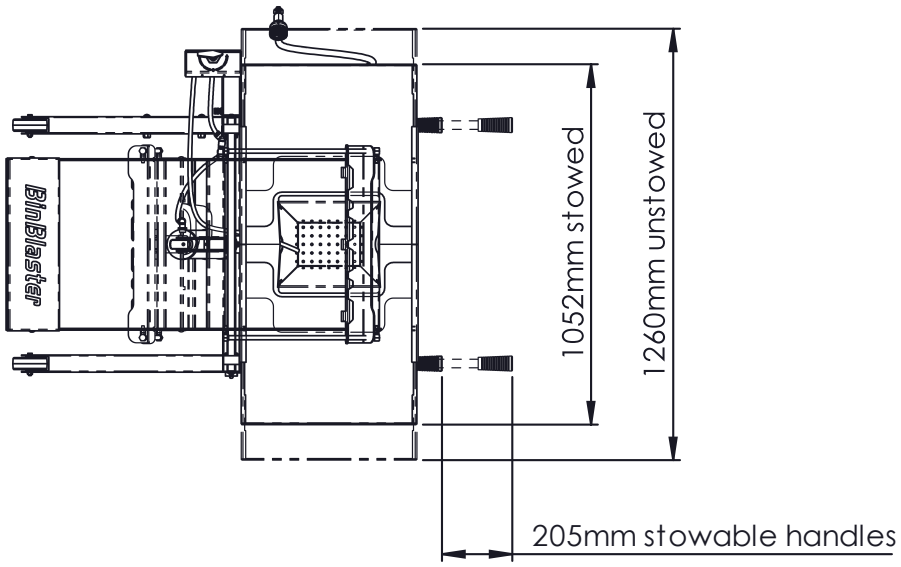
Point of interest

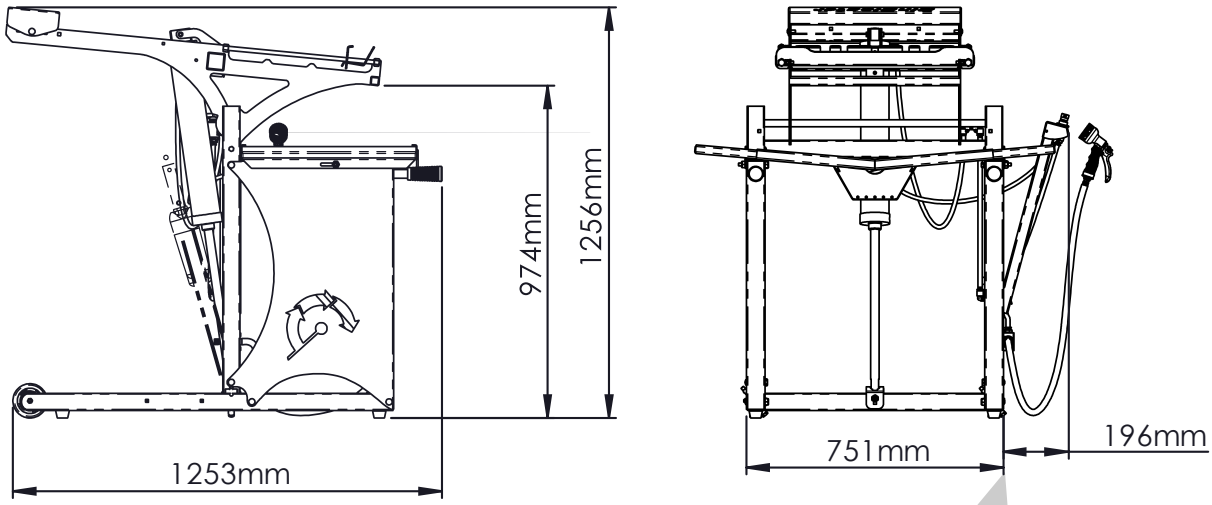
Safety hazard

§ Section reference (hyperlink in PDF edition)

Simpro partcode (hyperlink in PDF edition)

Errors in this document should be reported by email to info@simpro.world





BinBlaster BB1000-H Layout and Dimensions

Contents

I. Product Overview

Congratulations on your purchase of a Simpro BinBlaster wash frame. Powered by either a removable battery or mains water pressure, BinBlaster rotates bins onto their sides at an ergonomic height for cleaning, preventing manual-handling injuries and damage to bins. It is safe, simple, and easy to use.

1.1 Key features

Key features of the BinBlaster include:

1. Simple, intuitive controls.
2. A reliable, maintenance-free mechanism with few moving parts.
3. Galvanised steel construction for corrosion protection and durability.
4. Two alternative power sources;-
    a. Electric power, using a removable battery; or
    b. Hydro power, using mains water pressure.
5. A range of interchangeable bin hitches, to suit EN840 wheelie bins from 80L to 1100L; ANSI trash carts from 24 Gal to 96 Gal; and bulk bins of various sizes.

1.2 Construction

The BinBlaster wash frame consists of a galvanised steel frame with two fixed wheels and extendable grab-handles; a galvanised steel bin-hitch mounted on a lateral axle, with various catches and fittings; a galvanised sheetmetal drip-tray with extendable wings; a removable filter bucket; an electric or hydraulic actuator; a control stalk; and a rotary switch or valve with associated wires or water lines.

> Through this document, the term 'actuator' is used as shorthand for both electric and hydraulic linear motion devices. The terms 'electric actuator' and 'hydraulic actuator' are used where it is necessary to draw a distinction.

1.3 Mechanism

When the control lever is turned to the left, the actuator extends, causing the bin hitch to rotate about its axle. This lifts the bin into a horizontal position, with the lip above the drip-tray, where it can be easily cleaned. Turning the control lever to the right retracts the actuator, bringing the bin back down to ground level.

1.4 Safe Working Load

The BinBlaster Safe Working Load is **80kg (175lb)**.

⚠ Safe Working Load (SWL) is a gross figure, referring to the weight of the bin, its contents, and any other items that may be attached to it.

⚠ Never attempt to lift bins that are heavier than the factory-specified Safe Working Load.

1.4.1 Water pressure derating chart

The Safe Working Load of the BinBlaster Hydro model is derated in proportion to the local water pressure, as per the table below.

Water Pressure	Safe Working Load	Equivalent Bin
60kPa	~10kg	120L Wheelie Bin
90kPa	~15kg	240L Wheelie Bin
120kPa	~20kg	360L Wheelie Bin
240kPa	~40kg	660L Wheelie Bin
360kPa	~60kg	1100L Wheelie Bin
480kPa	~80kg (max SWL)	-

1.5 Duty cycle

The duty cycle of BinBlaster is subject to factors including the manner in which it is used, the type and condition of the bins, and the operating environment. The figures given below are indicative only.

Model	Power Source	Nominal Duty Cycle	
		Per hour	Per charge
BB1000-B	Battery, 12V/20Ah GEL	20x 1100L bins	40x 1100L bins
BB1000-H	Water Supply, ~400kPa	20x 1100L bins	-

1.6 Service life

The nominal service life of BinBlaster is as follows:

Average Gross Bin Weight	Nominal service life
< 80kg	200,000 cycles

1.7 Noise emissions

The noise emissions of BinBlaster do not typically exceed ~40 dB(A) at the operator's ear. Hearing protection is not required.

⚠ ISO standards for machinery safety specify that noise emissions are to be measured in A-weighted decibels (dB(A)), a unit of volume which is adjusted to reflect the sensitivity of human hearing. The measurements are taken at a point 1.6 metres above the ground at the operator's working position.

1.8 Environmental restrictions

BinBlaster may be used indoors or outdoors. However, the following restrictions apply:

1. Minimum floor area of 4m^2, with clear passage to exits;
2. Height above sea level not more than 4000m;
3. Ambient temperature not higher than +40℃ and not lower than -10℃;
4. At ambient temperatures above 35℃, the relative humidity should not exceed 50% (at lower temperatures, higher relative humidity is permitted).

⚠ BinBlaster must not be operated in environments which are explosive, highly acidic, highly alkaline, radioactive, or otherwise toxic to personnel.

1.9 Ingress protection

Item	IP Rating
Rotary control switch	IP66
Electric actuator	IP66
Battery Pack	IP56
External charger	Not rated
Overall	**IP56**

1.10 Notes

1. This User Manual describes approved procedures for the operation, maintenance, and routine inspection of the Simpro BinBlaster wash frame.
2. This manual is written in English, and is to be considered the 'Original Instructions' for the purposes of EU Machinery Directive 2006/42/EC.
3. Operator(s) must read and understand this manual before using the machine.
4. If the machine is to be leased, sold, or otherwise transferred, then this manual shall accompany the machine.
5. This is a generic manual. Simpro reserves the right to change the design of our products at any time. In cases where a discrepancy exists between the manual and the actual product, the manual is to be used as a reference only.
6. Contact your authorized Simpro agent if any problems or faults are encountered with the machine.
7. Errors in this manual should be reported by email to info@simpro.world

2. Operating Instructions

2.1 Before operation

Before operating a BinBlaster, check the following points;-

1. **CHECK** that the machine is located in a suitable area for cleaning bins;
    a. The surface is firm and sloping by no more than 8%;
    b. There is an effective drainage system;
    c. There are no electrical hazards in the area, such as unshielded power outlets.
2. **CHECK** that the drip-tray wings are extended, and the filter bucket is in place.
3. **CHECK** that a charged battery pack is correctly located in the battery holder.
4. **CHECK** that both primary and auxiliary hoses are correctly attached;-
    a. The primary hose should be connected to the primary coupler beneath the control lever, and to a nearby mains water outlet with adequate pressure;
    b. The auxiliary hose should be connected to the auxiliary coupler, and to either the pressure washer (if being used) or a spray gun.
    c. The regulator at the mains water outlet should be turned on.

2.2 Cleaning bins

Once the machine is correctly set up, it can be used to clean bins as follows;-

1. **OPEN** the lid of the bin that is to be cleaned.
2. **PLACE** the bin up against the BinBlaster comb-hitch in a centred position. It may be necessary to tilt or shake the bin slightly to make it properly engage. If the hitch is at a different height to the bin combing, it can be adjusted as per §3.3.1.
3. **TURN** the control lever to the left, and **WAIT** until the bin is fully raised.

⚠ Never use BinBlaster to lift bins which contain a large amount of material, or weigh more than 80kg when empty.
⚠ Turn the rotary control switch/valve to the CENTRED position to stop the bin-hitch from moving at any time.

4. **CLEAN** the inside and the outside of the bin, using either a pressure washer or the supplied spray gun.
5. **WAIT** while the water is drained out of the bin.
6. **TURN** the control lever to the right, and **WAIT** while the bin is returned to ground level.
7. **REMOVE** the clean bin.
8. **REPEAT** from step 1 as required.

2.3 After operation

After operating a BinBlaster, check the following points;-

1. **TURN** the control lever to the centred (neutral) position.
2. **RECHARGE** the battery pack as per S2.4.
3. **TURN OFF** the regulator at the mains water outlet.

2.4 Battery charging

The BinBlaster Battery model is supplied with a removable 12V/20Ah battery pack and an offboard charger. The battery pack can store enough energy to lift about forty 1100L wheelie bins.

When the lifting speed starts to slow noticeably, the battery will be running flat. It should be promptly removed and recharged as per the following procedure;-

1. **LIFT** the battery out of its holder using the handle provided, and **CARRY** it to a dry indoors location.
2. **CONNECT** the supplied battery charger to the battery, by plugging the grey Anderson plug on the charging lead into the matching socket on the battery.
3. **CONNECT** the battery charger to the power supply, by plugging the supplied IEC C13 power lead into the socket on the charger, and into a nearby 1-phase mains outlet.
4. **WAIT** while the battery is recharged. A full charge from flat takes around **3 HOURS**.

- For intensive operations, two or more battery packs can be used and recharged in alternate. Additional battery packs 0150000070 are available from your Simpro agent.
- The battery charger 0410050039 automatically adapts to different inputs (85-264VAC 50/60Hz 1-ph), manages the charging cycle, and prevents overcharging.
- For optimum battery life, the battery pack should be removed and placed on charge every night, even if it is still fully charged.

- The battery pack only outputs around 12 Volts and is safe around water, but it should not be sprayed directly with a high-pressure water jet.
- The battery charger is not IP-rated and requires an AC mains power supply, so it must always be stored and used in a dry area.

2.5 Safety Norms

The following precautions must be observed for the safe use of a BinBlaster wash frame.

- Operators must be trained and given written authorisation to use the machine by the PCBU.
- Operators must read and obey all instructions in this manual and displayed on the machine.
- Persons other than the operator should keep at least two metres clear of the machine while in use.
- Never operate the machine on ground with a slope ratio greater than 8%.
- Never operate the machine with covers, guards or other components removed.
- Always keep feet and hands well clear of the bin and bin-hitch while operating.
- Never access areas behind or beneath the bin-hitch while a bin is in the elevated position.

- Never allow the battery charger to get wet.
- Never connect the charger to mains power using an extension lead longer than 15 metres.
- Never connect the charger to a power outlet with voltage or frequency outside of the acceptable values listed on the rating plate.
- Never connect the charger to a power outlet that does not have a residual current device
- Never connect the charger if the power cord is damaged or has frayed insulation.
- Never connect the charger if the charging lead is damaged or has frayed insulation
- Never attempt to recharge a battery that is swollen or leaking acid.

3. Care and Maintenance

BinBlaster is designed to give many years of service with minimal maintenance. In the event a fault or malfunction does occur, refer to the Quick Troubleshooting Guide in §3.1 before contacting your Simpro agent for support.

- Contact your Simpro agent if repair or service work is required.
- All repair and service work must be carried out by qualified, authorized personnel.
- Replacement parts must be supplied by Simpro or an authorized Simpro agent, and must be of the same design and specification as the original parts.

3.1 Quick Troubleshooting Guide

Refer to the Quick Troubleshooting Guide below before contacting your agent for service.

Problem	Possible Causes	Remedy	See also
BinBlaster will not lower bins from raised position	Bin too light to return by itself	The lowering movement is driven only by gravity, so very light bins may get stuck in the raised position. Manually push the bin to the right until it starts lowering by itself.	§3.5.3
BinBlaster will not lift bins at all	Water pressure too low	BinBlaster requires at least 360kPa of water pressure to lift 1100L wheelie bins.	§1.4.1
	Disconnected or blocked water line	Reconnect and/or unblock the water lines as required.	§3.5
	Flat or faulty battery	Recharge the battery. If it will not hold charge, it may need to be replaced.	§2.4 §3.4.4
	Faulty control switch or valve	Repair or replace – contact your agent for support if required.	§3.4.2 §3.5.2
	Bin too heavy	If the bin can normally be lifted, it might contain too much debris/residual waste. Make sure the bin is empty, and try again.	§1.4 §1.4.1
BinBlaster jams while lifting or lowering bins	Faulty control switch or valve	Repair or replace – contact your agent for support if required.	§3.4.2 §3.5.2
	Faulty or seized lift actuator	Repair or replace – contact your agent for support if required.	§3.4.3 §3.5.3
	Bit-hitch axle jammed or seized	Lubricate the axle mounting blocks with WD-40 or similar mineral-based lubricant.	§3.6.1
Metal parts appears to be rusting	Galvanising reacting with oxidizing agents	The frame has a galvanising coating, which reacts with oxidizing agents to protect the underlying steel. This reaction may resemble rust, but it is not a safety or quality issue. Affected surfaces can be retouched with zinc spray if necessary.	§1.2

3.2 Cleaning

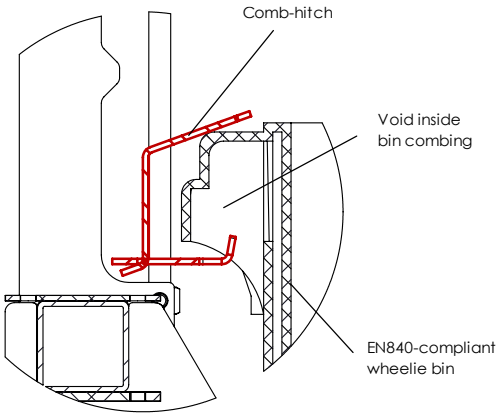
The BinBlaster may be cleaned with a pressure washer, a cloth, and a mild cleaning solution. Cleaning should be done with the bin-hitch in the lowered position.

- See §1.9 for IP rating table of the BinBlaster Battery model and its major components.

3.3 Bin hitch

3.3.1 Type-C hitch

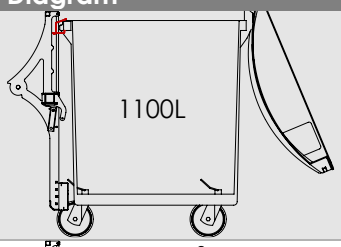
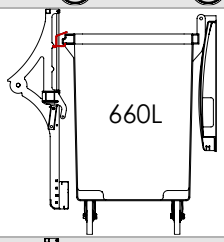
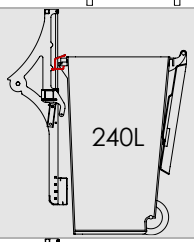
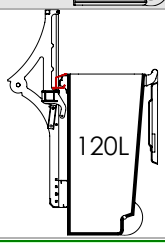
BinBlaster is fitted as standard with a Type-C hitch, which lifts bins with combing around the lip as defined by the EN840 standard. The Type-C hitch can be adjusted to lift EN840 wheelie bins of various sizes, including common 80L, 120L, 240L, 360L, 660L, 770L and 1100L models.



Type-C hitch correctly engaged with a wheelie bin

The Type-C hitch consists of two clamshell plates mounted on parallel vertical rods. Springs 0250150003 at each end holds the plates apart, locking them onto the rods. To adjust the height of the bin-hitch, simply squeeze the plates together and slide them up or down as required.

The bin-hitch frame has a series of notches which correspond to the combing-height of some common bins, as shown in the table below.

Hitch position	For use with	Diagram	Illustration
Fully raised	1100L wheelie bins		
Second notch	660L/770L wheelie bins		
First notch	240L/360L wheelie bins		
Fully lowered	80L/120L/140L wheelie bins		

- Due to the differences between bin manufacturers, the bin-hitch height may need to be fine-tuned to suit a particular make or model of bin. In this case, custom markings can be made on the vertical rods, allowing the exact height to be quickly selected in future.
- The bin support panel (with laser-cut BinBlaster branding) can also be adjusted to different heights. A series of predrilled mounting holes are provided for this purpose. The uppermost position is suitable for lifting most EN840 wheelie bins.

3.3.1.1 Type-C hitch maintenance

The Type-C hitch requires no regular maintenance, but the adjustment locking mechanism can benefit from an occasional light application of WD-40 or similar mineral-based lubricant.

3.3.2 Type-A hitch

BinBlaster can be optionally fitted with a Type-A hitch, which lifts bins with a front bar and latch as defined by the ANSI Z245.60 (Type B) standard. The Type-A hitch can lift ANSI trash carts of various sizes, including 24-Gal, 32-Gal, 48-Gal, 64-Gal, and 96-Gal.

3.3.2.1 Type-A hitch maintenance

The Type-A hitch requires no regular maintenance, but the axle can benefit from an occasional light application of WD-40 or similar mineral-based lubricant.

3.3.3 Type-M hitch

BinBlaster can be optionally fitted with a Type-M hitch, which lifts bins with fork pockets. The Type-M hitch can lift various types of bulk bin, including Mega, Nally and Dolav bins.

3.3.3.1 Type-M hitch maintenance

The Type-M hitch requires no regular maintenance, but the axle can benefit from an occasional light application of WD-40 or similar mineral-based lubricant.

3.4 Electrical systems

The BinBlaster Battery model is powered by a removable 12V/20Ah GEL battery pack, which supplies 12VDC electric current to the control circuit and actuator. A switch on the control stalk completes the RAISE or LOWER electric circuit, raising or lowering the bin hitch as required. The machine is supplied with a separate 1-phase battery charger.

3.4.1 International conformance

The battery charger supplied with BinBlaster accepts 85-264VAC 50/60Hz 1-phase input, and connects to the power outlet using a widely-available IEC C13 power lead (also known as a computer cord). This means the battery can be recharged from a regular 1-phase power outlet in almost any region or country.

3.4.2 Rotary control switch 0790050389

The BinBlaster Battery model is fitted with a three-position rotatory switch, controlled by a lever on the end of the control stalk. This switch completes the RAISE or LOWER electric circuit, raising or lowering the bin hitch as required.

3.4.2.1 Rotary control switch maintenance

The rotary control switch is rated to IP66 and requires no regular maintenance, but can benefit from an occasional light application of WD-40 or similar mineral-based lubricant.

3.4.3 Electric actuator 0790050380

The BinBlaster Battery model is fitted with an electric linear actuator, with 350mm stroke, 12VDC operating voltage and current draw of up to 25A. The actuator exerts up to 2500N of force with a fully-charged battery.

3.4.3.1 *Electric actuator maintenance*

The electric actuator is rated to IP66 and requires no regular maintenance, but can benefit from an occasional light application of WD-40 or similar mineral-based lubricant.

3.4.4 *GEL battery*

The BinBlaster battery pack 0150000070 contains a single 12V/20Ah GEL battery 0250050004 in a metal case, with an aluminium carry handle. A metal cover at one end contains a downwards-facing Anderson plug 0250050006, which connects with a matching plug on the battery mounting bracket (for operation), and on the battery charger (for charging).

> For intensive operations, two or more battery packs can be used and recharged in alternate. Additional battery packs 0150000070 are available from your Simpro agent.

3.4.4.1 *GEL battery maintenance*

The battery is sealed, deep-cycle, and maintenance-free, with a lifespan of up to five years. However, battery life is subject to various factors, including the number of charge cycles, the average discharge depth, and environmental conditions.

To maximize the life of the BinBlaster battery pack, observe the following rules:

1. Place the battery on charge every night, even if it is already fully charged.
2. Periodically lubricate the Anderson plugs with contact oil, WD-40, or similar mineral-based lubricant.
3. Do not try to operate the machine with a discharged battery.
4. Do not allow the battery to remain fully discharged for more than 24 hours.

> The battery is supplied with a 12-month manufacturer's warranty, separate from the warranty on the rest of the machine.

> The battery pack outputs low-voltage direct current which poses no risk around water, but it should not be sprayed directly with a high-pressure water jet.

3.4.5 *GEL battery charger* 0410050039

The BinBlaster battery charger accepts 85-264VAC 50/60Hz 1-phase mains power, drawing up to 2 Amps of current.

The charger outputs up to 10 Amps at 13.2VDC, with a maximum power output of 160 Watts.

> The battery charger is in an enclosed plastic case and is protected against short-circuit, current overload, over-voltage, and over-temperature.

> The battery charger requires an AC mains power supply and is not IP-rated, so it should always be kept clean and used in a dry area.

3.4.5.1 *GEL battery charger power cord* NZ/AU 0790050218 UK 0790050103 US 0790050008

The battery charger is supplied with IEC C13 power cord, which plugs into the IEC C14 inlet on the charger. At the other end, the cord has an IEC plug to suit local 1-phase outlet norms.

> IEC C13 cord are often used to power computer accessories. They are sometimes called "computer cords", and are widely available from electronics retailers.

3.5 Hydraulic systems

The BinBlaster Hydro model is powered by the pressure of the mains water supply, which drives a hydraulic actuator through a series of valves and lines. A valve on the control stalk completes the RAISE or LOWER hydraulic circuit, raising or lowering the bin hitch as required.

3.5.1 International conformance

The BinBlaster Hydro model is fitted with two Hozelock-type hose couplers 0990360001. Hozelock-compatible fittings are available worldwide under brands such as Hozelock, Gardena, Holman, Pope, and Neta (all rights to the respective brand owners).

The BinBlaster Hydro model requires water pressure of ~360kPa to lift 1100L wheelie bins, or ~480kPa to achieve the maximum SWL of 80kg. While these pressures are common in urban areas, they may not be available in rural or elevated sites, or in developing countries.

> ⚠ It is recommended to check the local water pressure before purchasing the BinBlaster Hydro model. If it is low or variable, the Battery model should be purchased instead.

3.5.2 Rotary control valve 0430130041

The BinBlaster Hydro model is fitted with a three-position rotary ball valve, controlled by a lever on the end of the control stalk. This valve completes the RAISE or LOWER hydro circuit, raising or lowering the bin hitch as required. It is manufactured from 304-grade stainless steel.

3.5.2.1 Rotary control valve maintenance

The rotary control valve requires no regular maintenance, but can benefit from an occasional light application of WD-40 or similar mineral-based lubricant.

3.5.3 Hydro actuator 0330130006

The BinBlaster Hydro model is fitted with a hydraulic linear actuator, with an ⌀80mm bore, 425mm stroke and displacement of 2136cc. The actuator exerts up to 2000N of force with 400kPa of water pressure. It is manufactured from 304-grade stainless steel.

> ⚠ Unlike the electric actuator, the hydro actuator is single-acting. It provides power only while lifting bins; they are lowered by gravity alone, which means bins which are very light or top-heavy may sometimes get stuck in the raised position. Should this occur, a gentle backwards push on the bin should be enough to start the lowering movement.

3.5.3.1 Hydro actuator maintenance

The hydraulic actuator requires no regular maintenance, but can benefit from an occasional light application of WD-40 or similar mineral-based lubricant.

3.6 Mechanical systems

3.6.1 Bin-hitch axle

The BinBlaster bin-hitch has an integral transverse steel axle, which is mounted into a pair of drilled ultra-high-molecular-weight-polyethylene (UHMWPE) load blocks, one on each side.

3.6.1.1 Bin-hitch axle maintenance

The bin-hitch axle requires no regular maintenance, but can benefit from an occasional light application of WD-40 or similar mineral-based lubricant.

3.6.2 Filter bucket 0520140044

BinBlaster is fitted with a filter bucket, which collects debris from the runoff water, preventing it from entering the wastewater system. The bucket is manufactured from pre-galvanised sheetmetal, and has a pattern of ⌀5mm drain holes.

The filter bucket has small notches at the front and rear, which allow it to be easily lifted out of its mounting in the drip-tray. The bucket should be emptied regularly to prevent the drain holes from becoming clogged.

3.6.2.1 Filter bucket maintenance

The filter bucket requires no regular maintenance.

3.6.3 Drip-tray

BinBlaster is fitted with a drip-tray which catches runoff water from the bin being cleaned, directing it into the filter bucket. It is manufactured from pre-galvanised sheetmetal.

The drip-tray has extendable wings 0520140042 on either side, which can be pulled outwards if needed to catch the runoff from larger bins. Once cleaning is complete, the wings can be stowed by pushing them inwards, reducing the machine's footprint for storage or transport.

3.6.3.1 Drip-tray maintenance

The drip-tray requires no regular maintenance, but the extendable wings can benefit from an occasional light application of WD-40 or similar mineral-based lubricant.

3.6.4 Spray gun 0460190010

BinBlaster is supplied with a trigger-type spray gun, which delivers a focused jet of water suitable for cleaning bins. The spray gun has a metal body and Hozelock-type connector.

3.6.4.1 Spray gun maintenance

The spray gun requires no regular maintenance.

3.6.5 Wheels 0250040094

BinBlaster is fitted with two fixed ⌀100mm wheels, with Resilex tread and 6201 bearings, which are mounted on M12x60 bolts at one end of the frame. When the extendable grab-handles are lifted, the weight of the machine is transferred onto the wheels, allowing it to be easily moved. When the machine is in use, it rests securely on four rubber feet 0250040128.

3.6.5.1 Wheels maintenance

The wheels require no regular maintenance, but the bearings can benefit from an occasional light application of WD-40 or similar mineral-based lubricant.

3.7 Preventative Maintenance Inspections

It is recommended to conduct regular preventative maintenance inspections (PMIs) of your BinBlaster. This helps to ensure operator safety and extend the service life of the machine.

⚠ Operators should immediately stop using the machine and request an inspection if any fault or abnormal operation is observed.

3.7.1 Pre-inspection checklist

1. Wear suitable Personal Protective Equipment (PPE).
2. Lower the bin-hitch to the ground.
3. If a bin is attached to the bin-hitch, remove it.
4. Disconnect the power from any nearby electrical equipment.

3.7.2 PMI procedures

The following PMI procedures should be carried out every month, and the results recorded in the log on the following pages.

Cat.	No.	Item	Check
General	1	Entire machine	Conduct a complete lifting and lowering cycle and check for any faults or abnormal behaviour. Decals are affixed and legible.
Electrical Systems	2	Electric actuator 0790050380	Lightly spray with WD-40 or similar mineral-based lubricant.
	3	Rotary control switch 0790050389	Check the control lever turns smoothly and remains in the selected position.
Hydraulic Systems	4	Hydro actuator 0330130006	Lightly spray with WD-40 or similar mineral-based lubricant.
	5	Rotary control valve 0430130041	Check the control lever turns smoothly and remains in the selected position. If necessary, lightly spray with WD-40 or similar mineral-based lubricant.
	6	Hoses, water lines and couplers 0990360001	Check the hoses lock securely onto the couplers, with no large leaks. Check the water lines are securely attached to the rotary control valve and actuator, with no kinks or large leaks.
Mechanical Systems	7	Bin-hitch	Lightly spray the axle mounting points and height-adjustment mechanism (if fitted) with WD-40 or similar mineral-based lubricant.
	8	Drip-tray	Check the wings extend and retract smoothly. If necessary, lightly lubricate with WD-40 or similar mineral-based spray
	9	Wheels 0250040094	Check the wheels are mounted securely and rotate smoothly. If necessary, lightly lubricate with WD-40 or similar mineral-based lubricant.

3.7.3 PMI log sheets

Use the following log sheets to document each Preventative Maintenance Inspection carried out on the machine.

Date	Service Person	Location	Checks complete	Notes on repairs or maintenance required	Parts and materials used
			① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨		
			① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨		
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			① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨		
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			① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨		
			① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨		

Date	Service Person	Location	Checks complete	Notes on repairs or maintenance required	Parts and materials used
			① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨		
			① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨		
			① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨		
			① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨		
			① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨		
			① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨		
			① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨		
			① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨		
			① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨		

Date	Service Person	Location	Checks complete	Notes on repairs or maintenance required	Parts and materials used
			① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨		
			① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨		
			① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨		
			① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨		
			① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨		
			① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨		
			① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨		
			① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨		
			① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨		

4. Assembly, Handling, Transport & Storage

4.1 Assembly

BinBlaster is usually delivered fully assembled. However, sometimes the machine may be partially disassembled to minimise volume for shipping. Assembly instructions can be viewed at the following link: support.simpro.world/help/binblaster-assembly-guide.

4.2 Moving

BinBlaster is fitted with two extendable grab-handles and two fixed wheels, which sit just clear of the ground when the machine is at rest.

To move the machine, pull the grab-handles out until they reach their stops, stand between them, and lift them upwards like a wheelbarrow. This brings the wheels into contact with the ground, allowing the machine to be moved with a minimum of effort.

⚠ Extra care should be taken when moving a BinBlaster on sloping ground.
⚠ The weight of a standard BinBlaster is approximately 75kg.

4.3 Lifting

BinBlaster weighs approximately 75kg. The machine can be manually lifted by two persons, but it is recommended to use a hoist or crane, as per the procedures below.

1. Check that the hoist or crane is in good condition and rated to at least 100kg.
2. Attach a lifting sling to the hoist or crane, and fasten it around the bin-hitch axle.
3. Slowly lift, move, and lower the machine into the desired location, ensuring it remains upright at all times.

⚠ Never stand or reach underneath the machine while it is being lifted.

4.4 Transport

If the machine needs to be transported, observe the procedures below.

1. Lower the bin-hitch and turn the control lever to the centred (neutral) position.
2. 💧 Turn off the water supply and disconnect the hoses.
3. 🔋 Remove the battery, charge it overnight, then fasten it into place either in the filter bucket or alongside the machine (not in the battery holder).
4. Stow the drip-tray wings, grab-handles, and control stalk.
5. Follow the lifting procedures in §4.3 to place the machine upright on a wooden pallet, and securely tie it into place with plastic strapping.
6. Use a forklift to load the pallet onto the deck of the truck or other transport mode.
7. Tie the pallet into place with 1000kg strops and marked tie-down points, ensuring it is fastened against lateral forces from any direction.

4.5 Storage

If the machine is not to be used for a period of two months or more, it should be stored in a clean, dry place with good ventilation, at temperatures not below 5°C. Before placing the machine into storage, carry out the following procedures:

1. Carry out two full tipping cycles, then move the bin-hitch to the lowered position.
2. Turn the control lever to the centred (neutral) position.
3. 💧 Turn off the water supply and disconnect the hoses.
4. Move the machine into a secure, clean, and dry storage location.
5. If necessary, clean the machine as per §3.2.
6. Stow the drip-tray wings, grab-handles, and control stalk.
7. Lightly spray the actuator, bin-hitch axle and wheels with WD-40 or similar mineral-based lubricant.
8. 🔋 Remove the battery, charge it overnight, then place it either in the filter bucket or alongside the machine (not in the battery holder).

5. Safety Assessment

BinBlaster has been designed to be as safe as possible without restricting the ease-of-use and versatility of the machine.

⚠ Before the machine is used for the first time, a site-specific Hazard and Risk Assessment should be completed as per §5.3.

5.1 Safety features

The safety features of BinBlaster are as follows:

1. A low-energy lifting mechanism driven by 12-Volt Direct Current.
2. A separate charger which eliminates the use of AC mains power in the wet area.
3. A low-energy lifting mechanism driven by mains water pressure.
4. A tipping action which maintains the weight of the bin within the machine's footprint.
5. Extendable grab-handles for safer movement and handling.

5.2 Reasonably foreseeable misuse

The reasonably foreseeable misuse considered in the Multi-Tip design is as follows:

1. Attempts to use the machine by untrained operators;
2. Attempts to lift bins that the cradle is not specifically designed to hold;
3. Attempts to access the area beneath the bin-hitch while a bin is in the raised position;
4. Attempts to clean the machine without following proper procedures.

5.3 Hazard and Risk Assessment Guide

Most jurisdictions require machinery owners to conduct a Hazard and Risk Assessment for their equipment, which considers all relevant factors such as the area it is used, the skill and training of operators, the proximity of other persons, frequency of use, etc.

The following section is not a comprehensive site-specific Hazard and Risk Assessment, but an assessment of the risk factors that are intrinsic to the Multi-Tip design. Blank template spaces are provided for additional site-specific hazards.

⚠ The procedure for carrying out a Hazard and Risk Assessment is typically defined with reference to ISO 12100:2010, issued by the International Standards Organisation. This standard describes procedures for identifying hazards and estimating and evaluating risks during relevant phases of a machine life cycle.

⚠ As with all powered lifting equipment, certain *residual hazards* may be present despite any safety measures that can be implemented by the manufacturer and/or owner. It is essential that operators are aware of these *residual hazards* and what they must do to prevent harm to themselves and to others, as set out in §5.3.3.

5.3.1 The ISO 12100 risk assessment model

In the ISO 12100:2010 risk assessment model, each identified hazard is given a **Risk Factor**, from which is derived a **Risk Evaluation**. These parameters are determined as follows.

5.3.1.1 Determining the Risk Factor

The Risk Factor associated with any given hazard may be calculated from the following table, using the formula: **Risk Factor = LO x FE x DPH x NP**:

LO	Likelihood of Occurrence	FE	Frequency of Exposure	DPH	Degree of Possible Harm	NP	Number of Persons at risk
0.1	Impossible, or possible only in extreme circumstances	0.1	Infrequently	0.1	Scratch or bruise	1	1 – 2 persons
0.5	Highly unlikely though conceivable	0.2	Annually	0.5	Laceration, mild ill-health	2	3 – 7 persons
1	Unlikely but could occur	1	Monthly	1	Break minor bone or illness (temporary)	4	8 – 15 persons
2	Possible but unusual	1.5	Weekly	2	Break major bone or illness (permanent)	8	16 – 50 persons
5	Even chance – could happen	2.5	Daily	4	Loss of 1 limb or eye/serious illness (temporary)	12	51 or more persons
8	Probable, or not surprising	4	Hourly	8	Loss of 2 limbs or eyes/serious illness (permanent)	-	-
10	Likely, or only to be expected	5	Constantly	15	Fatality	-	-
15	Certain, or beyond doubt	-	-	-	-	-	-

5.3.1.2 Evaluating the Risk

Once a Risk Factor has been calculated, the risk can be evaluated using the following table:

Risk Factor	0-1	2-5	6-10	11-50	51-100	101-500	501-1000	1001 +
Evaluation	Negligible	Very Low	Low	Significant	High	Very High	Extreme	Unacceptable

⚠ Risks evaluated as Very High, Extreme or Unacceptable are likely to require additional or uprated safety functions. These may require additional or uprated safety functions.

5.3.2 Identified Hazards

The following hazards have been identified that are intrinsic to the BinBlaster design. For each hazard a full Risk Evaluation has been completed and control measures described.

⚠ Blank template spaces are provided at the end for machinery owners to identify, assess and control additional site-specific hazards.

Entanglement or amputation of fingers or limbs in moving parts										
Operator	LO:	2	FE:	4	DPH:	1	NP:	1	Risk Factor:	8
	The operator is required to control the machine from a position adjacent to the moving bin hitch, and could place a hand or foot in a position where it would be entangled in the mechanism.									
Other persons	LO:	2	FE:	2.5	DPH:	1	NP:	1	Risk Factor:	5
	The operator has an unobstructed view of the bin-hitch, and can stop all movement by turning the rotary control switch/valve to the centred (neutral) position if any other person approaches the machine while lifting or lowering.									
Control measures	BinBlaster is designed so trapping hazards are minimized, and is operated by a low-power linear actuator outputting no more than 2500N. This means the mechanical forces involved are small, limiting the potential harm.									
Comments	Operators are responsible to obey all safety norms and instructions in respect of keeping themselves and others clear of moving parts.									
Crushing due to rapid unauthorized descent of bin-hitch										
Operator	LO:	1	FE:	4	DPH:	1	NP:	1	Risk Factor:	4
	There is nothing to stop an operator or other person moving under the bin-hitch while a bin is in the raised position.									
Other persons	LO:	1	FE:	2.5	DPH:	1	NP:	1	Risk Factor:	2.5
	As above.									
Control measures	Large safety margins ensure that the probability of failure of any structural, mechanical or control systems is low. BinBlaster should be subject to regular Preventative Maintenance Inspections, and any faults should be repaired immediately. 💧 In the event of a burst hose, the water must escape the actuator through a small aperture, limiting the rate of descent to the usual slow speed.									
Comments	Operators are responsible to obey all safety norms and instructions in respect of keeping themselves and others clear of the area beneath a raised bin.									
Crushing due to machine falling over										
Operator	LO:	0.5	FE:	4	DPH:	1	NP:	1	Risk Factor:	2
	Minimal risk as the machine is very stable.									
Other persons	LO:	0.5	FE:	2.5	DPH:	1	NP:	1	Risk Factor:	1.25
	As above.									
Control measures	BinBlaster has a large footprint and low centre of gravity, which provides a high level of stability. BinBlaster must not be operated on soft ground, or on ground with slope ratio greater than 8%, or used to lift bins weighing more than 80kg.									
Comments	Operators are responsible to obey all safety norms and instructions in respect of operating surfaces and bin weight.									

Skin injuries due to operation in extreme environments										
Operator	LO:	2	FE:	4	DPH:	0.5	NP:	1	Risk Factor:	4
	If the machine is to be used in extreme heat or cold, the operator must wear gloves and other suitable Personal Protective Equipment (PPE).									
Other persons	LO:	2	FE:	2.5	DPH:	0.5	NP:	1	Risk Factor:	2.5
	As above.									
Control measures	Operators are responsible to wear PPE suitable for the environment in which the machine is being used.									
Comments	See §1.8 for environmental restrictions on BinBlaster operation.									
Illness caused by exposure to hazardous/toxic waste residue										
Operator	LO:	0.5	FE:	4	DPH:	8	NP:	1	Risk Factor:	16
	When using the BinBlaster, the operator may be exposed to hazardous/toxic residual waste from the bin being cleaned.									
Other persons	LO:	0.5	FE:	2.5	DPH:	8	NP:	2	Risk Factor:	20
	As above.									
Control measures	If cleaning bins which could contain hazardous/toxic materials, the operator must wear suitable Personal Protective Equipment (PPE), and ensure that any other personnel in the area are also wearing suitable PPE.									
Comments	Operators are responsible to obey all safety norms and instructions in respect of wearing suitable PPE for the application. BinBlaster must not be used to clean bins which could contain hazardous/toxic materials if the exposure risk cannot be mitigated by PPE (such as radioactive waste). Alternative methods should be used.									
Electrocution or electric shock										
Operator	LO:	0.5	FE:	2.5	DPH:	15	NP:	1	Risk Factor:	18.75
	Low risk as BinBlaster Battery operates on 12-Volt direct current provided by a battery, and does not require AC mains power.									
Other persons	LO:	0.5	FE:	1.5	DPH:	15	NP:	1	Risk Factor:	11.25
	As above.									
Control measures	The battery charger must be stored and used in a clean, dry environment. The battery charger power cord should be tested and tagged by a registered electrician at regular intervals.									
Comments	Operators are responsible to obey all safety norms and instructions in respect of the storage and use of the battery charger. If BinBlaster is used in conjunction with an electric pressure washer, the washer manufacturer is responsible to ensure it is safe to use in wet environments.									
Illness caused by backflow contamination of water supply										
Operator	LO:	0.5	FE:	0.2	DPH:	1	NP:	1	Risk Factor:	0.1
	Very low risk as BinBlaster Hydro has effective backflow prevention.									
Other persons	LO:	0.5	FE:	0.2	DPH:	1	NP:	12	Risk Factor:	1.2
	Very low risk as BinBlaster Hydro has effective backflow prevention.									
Control measures	The BinBlaster hydraulic system is fully sealed and has an air-gapped outlet which prevents backflow from contaminated external water sources.									
Comments	In a pressure loss event, the only potential backflow is around 2.5 litres of water from within the hydraulic system itself. All hydraulic fittings are manufactured from non-contaminating materials such as nylon and/or stainless steel.									

Site-specific hazard:												
Operator	LO:		FE:		DPH:		NP:		Risk Factor:			
Other persons	LO:		FE:		DPH:		NP:		Risk Factor:			
Control measures												
Comments												
Site-specific hazard:												
Operator	LO:		FE:		DPH:		NP:		Risk Factor:			
Other persons	LO:		FE:		DPH:		NP:		Risk Factor:			
Control measures												
Comments												
Site-specific hazard:												
Operator	LO:		FE:		DPH:		NP:		Risk Factor:			
Other persons	LO:		FE:		DPH:		NP:		Risk Factor:			
Control measures												
Comments												

Site-specific hazard:												
Operator	LO:		FE:		DPH:		NP:		Risk Factor:			
Other persons	LO:		FE:		DPH:		NP:		Risk Factor:			
Control measures												
Comments												
Site-specific hazard:												
Operator	LO:		FE:		DPH:		NP:		Risk Factor:			
Other persons	LO:		FE:		DPH:		NP:		Risk Factor:			
Control measures												
Comments												

5.3.3 Residual Hazards

As with all industrial lifting equipment, some **residual hazards** may be present despite any interlocks, guarding or other safety functions that can be fitted to the machine.

The machinery owner has a legal responsibility to take **all reasonable precautions** to eliminate, isolate, or minimize these residual hazards. This may include:

- Monitoring and enforcing the training of operators.
- Design and implementation of Standard Operating Procedures.
- Using rewards and/or disciplinary measures to encourage safe behaviours.
- Posting signage, floor marking, or other warnings as appropriate.
- Encouraging a culture of safety within the workplace.

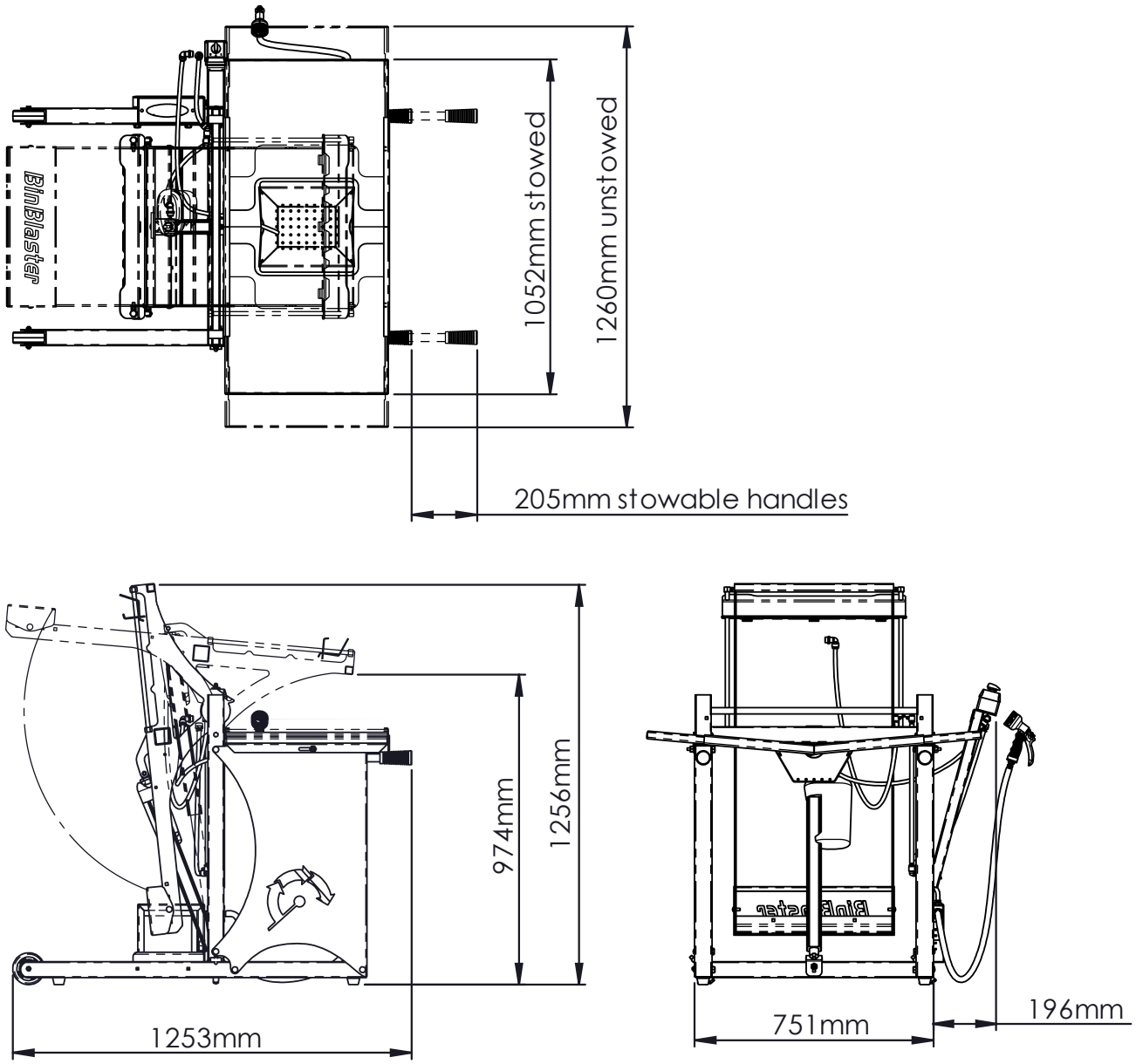
6.Technical Data

6.1 Specifications

BinBlaster Specifications				
Key Parameters	1.1	Manufacturer	Simpro	Simpro
	1.2	Model	BB1000-B	BB1000-H
	1.3	Power Source	Battery	Water Pressure
	1.4	Role	Bin Wash Frame	Bin Wash Frame
	1.5	Tipping height	1000mm	1000mm
	1.6	Load capacity	80kg	80kg
	1.7.1	Cradle type	Type-C	Type-C
	1.7.2	Cradle mechanism	Comb-lift	Comb-lift
	1.7.3	Cradle standard	EN840	EN840
	1.7.4	Cradle compatibility	80L/120L/240L/660L/770L/1100L wheelie bins	
Weight	2.1	Weight	~78kg	~72kg
	2.2	Wheel Loading laden, front/rear	~44/35kg	~42/34kg
	2.3	Wheel Loading unladen, front/rear	~22/18kg	~20/16kg
Wheels	3.1	Tyre type	Resilex	Resilex
	3.2	Tyre size front	-	-
	3.3	Tyre size rear	⌀100x35mm	⌀100x35mm
	3.5	Wheel number, front/rear	-/2	-/2
Dimensions	4.2	Height overall	1256mm	1256mm
	4.3	Height drip tray	730mm	730mm
	4.5	Height cradle raised	1200mm	1200mm
	4.19	Length overall	1253mm	1253mm
	4.21.1	Width overall	1052mm	1052mm
	4.21.2	Width drip tray extended	1260mm	1260mm
Performance	5.2	Lifting speed laden/unladen	~0.12/0.16ms	~0.12/0.16ms
	5.3	Lowering speed laden/unladen	~0.16/0.16ms	~0.12/0.08ms
	5.4	Hydraulic flow rate max, lifting/lowering	-	~21.0/15.8lpm
	5.5	Hydraulic pressure max	-	~480kPa
	5.6	Operating cycle duration	~14s	~18s
	5.7	Throughput per hour/charge (no. bins)	~20/40	~20/-
	5.8	Operating gradient max	12%	12%
	5.10	Brake type	Surface friction	Surface friction
Powerpack	6.1.1	Powerpack type	Electric	Hydraulic
	6.1.2	Powerpack power source	12V Battery	~400kPa Water Pressure
	6.2.1	Actuator type	Electric linear	Hydro linear
	6.2.2	Actuator power	0.125kW	0.1kW
	6.2.3	Actuator force	<2500N	<2000N
	6.2.4	Actuator speed	0.05m/s	0.05m/s
	6.2.5	Actuator current draw	25A	-
	6.2.6	Actuator stroke	350mm	425mm
	6.4.1	Battery type	VRLA GEL	-
	6.4.2	Battery voltage/capacity	12V/20Ah	-
	6.4.3	Battery weight	6.5kg	-
	6.5.1	Battery charger type	Float charger	-
	6.5.2	Battery charger power	136W	-
	6.5.3	Battery charger output	13.6VDC 10A	-
	6.5.4	Battery charger input	85-264VAC 50/60Hz 1-ph ≤2A	-
	6.5.5	Battery charger charge duration	~3 hours	-
	6.7.1	Hydraulic ram type	-	Single-acting
	6.7.2	Hydraulic ram bore	-	80mm
	6.7.3	Hydraulic ram stroke	-	425mm
	6.7.4	Hydraulic ram displacement	-	2136cc
Other	8.1	Movement type	Pedestrian	Pedestrian
	10.7	Sound pressure at operator's ear	<40db(A)	<40db(A)

6.2 Layout diagram

The diagram below shows the BinBlaster Battery model. An equivalent diagram of the BinBlaster Hydro model can be found on page 2.



BinBlaster BB1000-B Layout and Dimensions

7. Accessories

A range of BinBlaster accessories and complementary products are available from Simpro. A selection is listed below.

Cat	Partcode	Model Code	Description
Accessories	0150000070	BB-BATTERY	Battery Pack, 12V/20Ah, GEL, complete with carrycase
	0460190010	BB-SPRAYGUN	Spray Gun, metal, with flow-control valve and Hozelock coupler
120L Wheelie Bins	0130181201	MGB120-BB	Simpro 120L Blue Wheelie Bin, HDPE, with 2x 200mm outset wheels
	0130181200	MGB120-GG	Simpro 120L Green Wheelie Bin, HDPE, with 2x 200mm outset wheels
	0130181207	MGB120-KK	Simpro 120L Black Wheelie Bin, HDPE, with 2x 200mm outset wheels
	0130180241	MGB120-LL	Simpro 120L Lime Wheelie Bin, HDPE, with 2x 200mm outset wheels
	0130181204	MGB120-RR	Simpro 120L Red Wheelie Bin, HDPE, with 2x 200mm outset wheels
	0130180233	MGB120-WW	Simpro 120L White Wheelie Bin, HDPE, with 2x 200mm outset wheels
	0130181202	MGB120-YY	Simpro 120L Yellow Wheelie Bin, HDPE, with 2x 200mm outset wheels
240L Wheelie Bins	0130182401	MGB240-BB	Simpro 240L Blue Wheelie Bin, HDPE, with 2x 200mm outset wheels
	0130182400	MGB240-GG	Simpro 240L Green Wheelie Bin, HDPE, with 2x 200mm outset wheels
	0130182420	MGB240-KK	Simpro 240L Black Wheelie Bin, HDPE, with 2x 200mm outset wheels
	0130180294	MGB240-LL	Simpro 240L Lime Wheelie Bin, HDPE, with 2x 200mm outset wheels
	0130182404	MGB240-RR	Simpro 240L Red Wheelie Bin, HDPE, with 2x 200mm outset wheels
	0130180287	MGB240-WW	Simpro 240L White Wheelie Bin, HDPE, with 2x 200mm outset wheels
	0130182402	MGB240-YY	Simpro 240L Yellow Wheelie Bin, HDPE, with 2x 200mm outset wheels
360L Wheelie Bins	0130183601	MGB360-BB	Simpro 360L Blue Wheelie Bin, HDPE, with 2x 200mm inset wheels
	0130183600	MGB360-GG	Simpro 360L Green Wheelie Bin, HDPE, with 2x 200mm inset wheels
	0130180362	MGB360-KK	Simpro 360L Black Wheelie Bin, HDPE, with 2x 200mm inset wheels
	0130180354	MGB360-LL	Simpro 360L Lime Wheelie Bin, HDPE, with 2x 200mm inset wheels
	0130180316	MGB360-RR	Simpro 360L Red Wheelie Bin, HDPE, with 2x 200mm inset wheels
	0130180346	MGB360-WW	Simpro 360L White Wheelie Bin, HDPE, with 2x 200mm inset wheels
	0130183602	MGB360-YY	Simpro 360L Yellow Wheelie Bin, HDPE, with 2x 200mm inset wheels
660L Wheelie Bins	0130186601	MGB660-BB	Simpro 660L Blue Wheelie Bin, HDPE, with 4x 200mm castors
	0130186600	MGB660-GG	Simpro 660L Green Wheelie Bin, HDPE, with 4x 200mm castors
	0130180421	MGB660-KK	Simpro 660L Black Wheelie Bin, HDPE, with 4x 200mm castors
	0130180413	MGB660-LL	Simpro 660L Lime Wheelie Bin, HDPE, with 4x 200mm castors
	0130180376	MGB660-RR	Simpro 660L Red Wheelie Bin, HDPE, with 4x 200mm castors
	0130180405	MGB660-WW	Simpro 660L White Wheelie Bin, HDPE, with 4x 200mm castors
	0130186602	MGB660-YY	Simpro 660L Yellow Wheelie Bin, HDPE, with 4x 200mm castors
1100L Wheelie Bins	0130181101	MGB1100-BB	Simpro 1100L Blue Wheelie Bin, HDPE, with 4x 200mm castors
	0130181100	MGB1100-GG	Simpro 1100L Green Wheelie Bin, HDPE, with 4x 200mm castors
	0130180480	MGB1100-KK	Simpro 1100L Black Wheelie Bin, HDPE, with 4x 200mm castors
	0130180472	MGB1100-LL	Simpro 1100L Lime Wheelie Bin, HDPE, with 4x 200mm castors
	0130180435	MGB1100-RR	Simpro 1100L Red Wheelie Bin, HDPE, with 4x 200mm castors
	0130180464	MGB1100-WW	Simpro 1100L White Wheelie Bin, HDPE, with 4x 200mm castors
	0130181102	MGB1100-YY	Simpro 1100L Yellow Wheelie Bin, HDPE, with 4x 200mm castors

8.Spare Parts

The following table includes only the most common BinBlaster spare parts as at the time of publication. Additional parts, accessories and prices may be viewed at the following web address: simpro.world/binblaster-spare-parts

Cat	Partcode	Description	Qty*	BSK†
Electrical Systems	0150000070	Battery Pack, 12V/20Ah, GEL, complete with carrycase	1	
	0250050004	Battery, 12V/20Ah, GEL (replacement battery only)	1	
	0150040002	Battery Pack Handle, black aluminium, 160mm hole centres	1	
	0250050006	Anderson plug, 50A, 57200	3	✅
	0520183144	Battery Mounting Bracket, bolt-on, 2mm PGI	1	
	0790050380	Electric Actuator, 2500N, 350mm stroke, 12VDC	1	
	0790050389	Rotary Control Switch, 20A, 3-position, DC change-over	1	✅
	0410050039	Battery Charger, 12V/10A, GC160A12-AD1	1	
	0790050218	Charging Lead, 3m, IEC C13, with Type-I plug (suits NZ/AU/CN/AR)	[1]	✅
	0790050103	Charging Lead, 3m, IEC C13, with Type-G plug (suits UK/IE/HK/SG/MY/AE)	[1]	✅
	0790050008	Charging Lead, 3m, IEC C13, with Type-B plug (suits US/CA/MX/JP)	[1]	✅
	0140170034	Operation Guide Decal for Battery BinBlaster	1	✅
Hydraulic Systems	0330130006	Hydro Actuator, Ø80mm x 425mm stroke, 1000kPa, stainless-steel	1	
	0430130041	Rotary Control Valve, 3-port, panel-mount, stainless-steel	1	
	0170130007	Elbow fitting, 3/8" BSP to 12mm push in 90 deg	3	
	0170130030	Straight fitting, ½" BSP to 12mm	2	
	0170130043	Elbow fitting, ½" BSP to 12mm push in 90 deg	2	
	0170130061	Silencer, 3/8" BSP	1	
	0170130073	Elbow fitting, 12mm push-in	3	
	0170140001	Tee fitting, reducing 3/4" to 1/2" Gr 304 stainless-steel	1	
	0250070008	Roll pin, 1/2 x 2" stainless steel	1	
	0250130005	Nylon Tubing, 12mm black	2	✅
	0990360001	Hose Coupler, male, 3/4" BSP, plastic	2	✅
	0140170035	Operation Guide Decal for Hydro BinBlaster	1	✅
Mechanical Systems	0520183134	Side Panels, handed pair, 2mm PGI, lasercut and folded	1	
	0520140062	Control Stalk Pressing, 2mm PGI, lasercut and folded	1	
	0520140042	Drip-Tray Wings, 2mm PGI, lasercut and folded	2	
	0520140044	Filter Bucket, 2mm PGI, lasercut and folded	1	
	0520187333	Type-C Hitch Lower Clamp, 3mm PGI	1	
	0520187334	Type-C Hitch Upper Clamp, 3mm PGI	1	
	0250150003	Type-C Hitch Compression Spring, ID12.8mm	2	✅
	0250040094	Wheel, 100mm Resilex, with 2x 6201 bearings	2	
	0250040128	Rubber Foot, 40mm dia x 22mm high	4	✅
	0000020019	Plastic Handgrip for 1" tube	2	✅
	0000020014	Plastic end cap for 50 x 50 x 1.6mm wall	2	✅
Misc	0460190010	Spray Gun, metal, with flow-control valve and Hozelock coupler	1	
	0970000031	BinBlaster User Manual	1	

*** Quantity per Machine** **† Basic Spares Kit** **[] Alternative items**

9. Warranty

9.1 Definitions

1. "Simpro" means Simpro Handling Equipment Limited, New Zealand Company No. 1827916.
2. "Agent" means a person or company authorized by Simpro to sell a Product.
3. "Service Agent" means a person or company authorized by Simpro to repair a Product.
4. "End User" means the first purchaser of a Product from a Sales Agent authorised by Simpro to sell the Product.
5. "Warranty" means the commitment that Simpro has to guarantee the workmanship and componentry to any End User of Products manufactured and sold by Simpro.
6. "Warranty Claim" means an application from an Agent to Simpro to be reimbursed for expenses relating to repairs done to remedy a fault with a Simpro Product.
7. "Warranty Period" means the length of time that Simpro undertakes to guarantee a Product.
8. "Back to Base" means that the costs associated with the transporting of a Product between the Service Agent and the End User is the End Users responsibility.
9. "Standard Products" means any Product displayed as a standard product on the Simpro website, simpro.world.
10. "Part" and "Parts" refer to components of a Product.
11. "Minor Fault" means a fault or defect that requires less than one hour to rectify.
12. "Instruction Handbook" means a document so titled that provides brief information and guidance on the operation of the Product for commonly performed functions.
13. "Service Manual" means a document so titled that provides comprehensive information and guidance for service, repairs, and maintenance.
14. "Warranty Registration Process" means the process of an End User registering their product with Simpro. This may be done using the web form here: simpro.world/warranty-registration
15. "Application for Warranty Consideration Form" means the system used to file a Warranty Claim with Simpro. This may be done using the web form here: simpro.world/warranty-claim.

9.2 Coverage

1. Simpro provides a 24-Month Back-to-Base Warranty on all Standard Products unless alternative terms have been agreed to in writing.
2. The Warranty terms and conditions on custom-built and non-standard machines are generally specified on quotations, and placing an order implies acceptance of the Warranty terms. If no specific Warranty details have been provided, the standard terms and conditions will apply.
3. The 24-month Warranty Period shall be taken from the date the machine first leaves the Agent's premises, whether sold or just supplied for trial. The Agent shall keep accurate records of the date of all machine trials, sales. etc.
4. Simpro will, at its option, repair or replace any items that fail or prove defective within the Warranty period.
5. Simpro's liability under the terms of this Warranty shall be limited to remedying any fault that occurs on machines it has manufactured or supplied, and shall not cover any consequential loss or damage.
6. The Warranty on batteries is for 12 months only, and is distinct from the warranty on the rest of the machine. Information on maximising battery life is provided in the User Manual.

9.3 Exclusions

1. Simpro will not recognise a Warranty Claim against a machine where payment to Simpro for that machine is outstanding. If a Warranty Claim is made before payment is due, the full payment must be made on the due date. The Warranty Claim, if accepted, will be credited at a later date.
2. Warranty Claims may not be recognized unless the Warranty Registration Process has been completed. If not done at the time of sale, this should be done at the time of the Warranty Claim. If warranty registration has not been completed, proof of purchase may be required.
3. Damage caused or contributed to by misuse, abuse, accident, unauthorised repairs or modifications, or failure to use the machine in accordance with instructions is specifically excluded.

4. Travelling time and mileage are specifically excluded from the Simpro warranty coverage. However, under certain circumstances Simpro at its discretion may contribute to these costs. Authorisation must be obtained from Simpro prior to any such Warranty Claim. This does not prohibit an Agent offering more extensive Warranty cover, outside of this Warranty, as negotiated between the Agent and the End User.

9.4 End User claim procedure

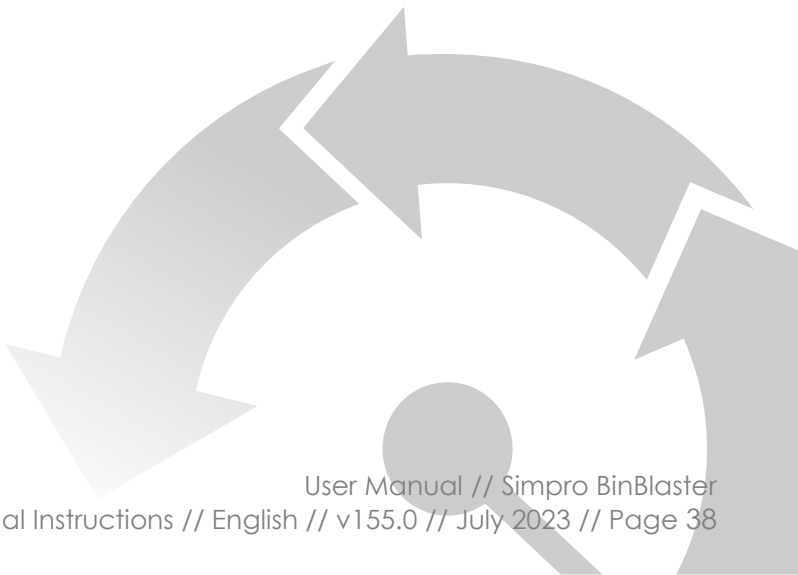
1. Where a fault or breakdown appears to have occurred the End User should, if applicable, first consult the Quick Troubleshooting Guide section of the User Manual provided with each machine, to ascertain the cause of the fault and remedy if possible. This information may also be accessed on the Simpro Support website: support.simpro.world.
2. If the fault is not able to be remedied, the End User should contact the Agent who sold the machine, and explain as fully as possible the fault, including all relevant factors such as:
    1. Did the fault occur suddenly, or develop over a period of time?
    2. Was the machine being used at the time?
    3. Is the fault intermittent?
    4. Are the batteries fully charged?
3. If repair is urgent, or the Agent cannot be contacted, the End User may contact Simpro directly.

9.5 Agent claim-handling procedure

1. Upon receiving notification of a fault, the Service Agent should attempt to determine the cause and a course of action before going to see the machine.
2. The Service Agent should contact Simpro for assistance in identifying the fault, if it is not apparent. This step is important, so that if a site visit is necessary, the correct tools and spare Parts can be taken. It is also important to establish whether there may have been any negligence, misuse or an accident that contributed to or caused the fault.
3. Parts requiring replacement will be supplied by Simpro free of charge; in some cases, it may be necessary to source Parts locally if needed urgently, but Simpro must authorize this if the cost of the item exceeds $50.00 and is to be charged to Simpro.
4. If the fault is not a Minor Fault, the Agent must notify Simpro and receive authorization to proceed before the repair work is done. Simpro will assist in every way possible, including discussing the problem directly with the End User if necessary, to determine the best method of effecting the repair in the shortest time possible.
5. Upon completion of the repair to an acceptable standard, the Agent shall complete the Application For Warranty Consideration Form and include copies of any invoices for labour, and any Parts supplied.
6. The cost of Warranty repairs is not to be deducted from any payments due to Simpro, unless Simpro issues a credit note clearly stating the amount and which invoice it relates to.
7. Simpro undertakes to be reasonable in respect of all Warranty repairs undertaken by Agents, but reserves the right to decline payment for:
    1. Work done or materials replaced that were not authorized in advance by Simpro.
    2. Work not done to an acceptable standard.
    3. Work taking an unduly long time, due (in part or in full) to the lack of knowledge or skill of the serviceman or the Agent. The time allowed for repair work will be based on Simpro's assessment of what a reasonably skilled technician would take. A detailed Service Manual is available on request from Simpro, and all service visits should be conducted with this document at hand.

This warranty shall be interpreted according to the laws of New Zealand, and the parties agree to submit to the jurisdiction of the Courts of New Zealand.

10. Notes



Simpro has been supplying Smart Lifting solutions for over 30 years. Founded in 1986 as a light engineer, the company has since built a unique position in the supply chain for specialist materials-handling equipment - from bin lifters and crate stackers to Lithium-ion forklifts.

With business activities including design, manufacture, import, export, wholesale and retail, Simpro products now play a quiet role for thousands of companies around the world. Customers range from SMEs to bluechips, operating in sectors as diverse as warehouse logistics, food processing and waste management.

Simpro's OEM products are now sold around the world through a distribution network covering most large economies. The product range continues to evolve thanks to a policy of continuous R&D, new ideas and new partnerships.

Simpro is a family company, based in Auckland and registered with the New Zealand Companies Office as Simpro Handling Equipment Ltd (1827916).

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