

**ADVANCED
DESIGN**

SPACE-LINER



- Unbeatable Handling
- Aesthetic Styling
- Brush & Tool Storage Area
- Lockable Operator's Box
- Safety Features
- Smart Colours

SPACE-LINERTM

A choice of two models - available as a double unit or single unit

Large capacity double unit featuring two containers for maximum refuse storage. Also ideal for segregation of waste and carrying equipment.

DOUBLE SPACE-LINER MODEL

Extra durable Armortec[®] coated frame

The sturdy tubular steel frame is coated with Armortec for added durability. A rear stand is standard on both models. This enables Space-Liner to be parked whilst also giving clearance for mounting kerbs.

Adaptable lid system

(Please see page 4 for more details)

Rear brush brackets

Securely holds brushes reducing movement for smoother, quieter operation.

Low maintenance wheels

- Solid rubber tyres.
- Steel wheel rims.
- Strong single wheel axle specially positioned for optimum stability and manoeuvrability.
- Dual action single movement brake available as an optional extra.
- Pneumatic tyres are available as an optional extra.

Twin jockey wheels

No need to reverse up kerbs! Two solid jockey wheels give excellent stability particularly when going up or down kerbs.



Available as standard on both models.



Handy operator's box with moulded lockable lid

Ideal for carrying wet weather gear, personal belongings, first aid kit etc. Manufactured in vandal resistant Duraplus™, with a new lockable lid in Durapol® self-coloured material that will not chip or rust. The close fitting lid provides added weather resistance. Now supplied with triangular Din lock key. Can be left unlocked for easy access when required, or locked for added security.



Triangular Din lock key



Large capacity, versatile containers

Full 100 litres each, manufactured in super tough Durapol, with four drainage holes to prevent water from collecting. Also allows easy cleaning. For more flexible working an optional divider is available for the main container, which enables segregation of waste for recycling etc. Two 100 litre containers are supplied with the double unit.

Front moulding

This ergonomically designed feature provides a safe, easy to access area for storing equipment. It is moulded from exceptionally strong Durapol material which protects Space-Liner from accidental bumps whilst also being 'pedestrian friendly'. The special design prevents brush heads from rotating. The whole front moulding is removable for easy cleaning and access to the containers.

Shovel hook and slot

Accommodates large shovels.

Storage tubes (x 2)

Additional tool storage especially for long handled brooms.



Large reflectors for extra visibility

For high visibility and operator safety, Space-Liner features a large amber reflector on each side. The amber reflector is positioned at the optimum height to catch dipped headlights. There are also two red reflectors at the rear and four white reflectors at the front. Each handle is now highlighted with a reflectorised strip.

Protective bumper bar

Protects the frame and jockey wheels for added durability and safety. Also provides improved shovel retention and accommodates most sizes of shovel.

SINGLE SPACE-LINER also available, please see overleaf.

*Duraplus material is a polymer specially engineered to provide enhanced resilience, which gives improved recovery from impact.

**Durapol material is a polymer formulated to withstand extremes of temperature and is impact-tested in our Quality Assurance Laboratory as part of our BS EN ISO 9001:2000 test procedure. Durapol material will not chip or rust, is easy to clean and never needs painting.

Adaptable lid system

The double skinned lids are manufactured from Durapol material and are exceptionally strong. Can even be loaded with full refuse sacks for transporting back to a depot or disposal area. A unique design feature means that the lids can be used in a number of configurations on the double unit to achieve optimum benefit.



SINGLE SPACE-LINER MODEL

Compact, easily manoeuvrable single unit ideal for busy pedestrian areas where access may be limited.

Smart colours for a contemporary look

The Armortec coated frame is supplied in Cool Dark Grey with co-ordinating 100 litre containers in Cool Light Grey. The lids, front moulding and operator's box lid are now available in Dark Blue, Light Green, Red or Yellow.



Can be easily customised.
Please see page 6 for details on
personalisation.



Great for tight spaces.



Large 100 litre capacity container
for easy street-cleaning.



Ideal for transporting and storing
equipment.

Space-Liner is easy to empty...



The front moulding is easily removable for access to the containers. (Secured by cable to prevent loss.)



Containers are easily removed for cleaning or emptying through the front, eliminating operator strain.



Each container has integral tubular steel handles (patented design feature) plus tipping grips at base.



The sack retention ring enables trouble-free replacement of sacks.

Optional Extras



1. Pneumatic tyres

For a smoother quieter ride, particularly over cobbles or uneven surfaces. Excellent for work undertaken during unsocial hours in residential areas. Easier to push and mount kerbs. New improved tread, strength and resistance to punctures.



2. Brake unit

The brake unit allows safe parking on gradients and can now be fitted to both single and double models of Space-Liner.



3. Divider for 100 litre container

Transforms the 100 litre container into 2 x 50 litre compartments. Ideal for segregation of recyclable waste.

4. Operator's box divider

Creates two separate areas for storing different equipment.



5. Extra sack ring

Allows either container to be used with sacks. Supplied complete with fixings.

6. Sack hook

The hook attaches to the handlebars to create additional storage for refuse sacks.



Versatile - can be used for segregated waste collection.



Easy access storage for Litta-Pikka™. Please turn to the back page for further details on Litta-Pikka litter collection tool.



Durable - provides many years of reliable service.

Versatile Recycling/Litter Collection Options

The Double Space-Liner model can use its two 100 litre containers for segregation of two different waste streams, such as for the collection of General Waste and Mixed Recyclables.

An optional divider is available to transform a 100 litre container into 2 x 50 litre compartments, to suit all types of waste collection.

Clearly identifiable Recycling Logos and Recycle Now (DEFRA) Graphic Options are available to assist segregation of waste for recycling.



Standard Recycling Logos



Recycle Now (DEFRA) Graphic Options



Further Enhance Your Public Image

Be seen to be clean

Make your cleaning operation high profile by customising Space-Liner with your organisation or authority's crest or logo and name.

The container lids and operator's box lid are available in four attractive colours as standard, other colours to fit in with your corporate image, are available on request. (Subject to a minimum order quantity.)



Space-Liner customised for Servis Team/Team Lambeth with Dark Blue lids and containers with orange flash.



A new recycling initiative for the City Of London

As the 2005 holder of the 'Britain's Cleanest City' Award, the City of London work hard to ensure they recycle as much waste as possible. A new recycling initiative has recently been introduced using the Glasdon Space-Liner. The hundred street cleaners working in the Square Mile now separate waste for recycling, e.g. paper and plastic bottles, as they collect it. Space-Liner's two waste containers are ideal for this purpose.

As part of the City's 24-hour street cleaning programme, litter is collected and recycled during the night, amounting to nearly three tonnes of recycling a week.

Glasdon "personalised" the Space-Liner orderly barrows with the City of London's crest and a recycling message to promote the City's street cleaning commitment.



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Putting Faith in People Power

Technology has its part to pay, but for many authorities people power reigns



Ben Wood
Editor, CIWM

There is no denying that mechanical sweepers are a vital tool when it comes to improving and maintaining the local environment. However, many local authorities still place great faith in the hands of the people they employ, and not the machines they drive, to reach the parts other road sweepers cannot reach.

Glasdon UK's Space Liner, an orderly barrow in use across the UK and overseas, has been around since the 1960s. The most up-to-date version, however, features an equipment storage compartment and can house single or double 100-litre bins, while optional extras such as lockable operator's box, pneumatic tyres and container dividers for recycling are all available.

The barrow itself comprises a steel frame with all mouldings, as well as the bins and their lids, being made from Durapol – a tough material but one that is pedestrian friendly. And that

is where the manual approach can pay real dividends, according to Glasdon. "Windblown street litter has a nasty habit of finding its way into the most awkward and inaccessible places; under

Windblown street litter has a nasty habit of finding its way into the most awkward and inaccessible places

seating, into the corners of buildings and around doorways. Nothing beats the dexterity and efficiency of a conscientious, hand sweeping professional," commented Neil Gilkes, Glasdon's national sales manager.

Sue Grisedale, technical officer at the London Borough of Southwark, agrees: "We have between 150 and 200 'beat sweepers'," she explained, "and that's because our mechanical sweepers can't do our pavements [they are non-uniform, differing heights and widths]. Southwark's a large borough with 500 roads to sweep and we also have problems with parked cars, which the beat sweepers can navigate more easily."

"Not only that," Grisedale added, "but they also pick and clear weeds as they sweep the streets. They can multi-task and recycle!"

There is also a lot of feedback from the public in Southwark, with letters complimenting the beat sweepers for their job well done. "People notice them," graded Grisedale "and they remember, and like to see a familiar face. Plus the barrow is highly branded and very visible."

The City of London is a multiple winner of Britain's Cleanest City competition, and feedback from the public is a key factor. "There's no alternative to the barrow and the broom," said Peter Gregory, City of London deputy director of the attention to detail that makes the difference.

Employing around 60 manual sweepers, supplemented by mechanical sweepers, Ager believes it is vital to use every piece of equipment and all available labour in the right way. "In the city environment retailers and office staff relate to the sweeper and like seeing someone doing the job. It's all about recognition."

The orderly, the beat sweeper... call them what you will, still have a big part to play in keeping our streets clean. As Grisedale says "they're here to stay" CIWM

This article was featured in the November 2006 issue of Wastes Management magazine.

Space-Liner Specifications

DIMENSIONS

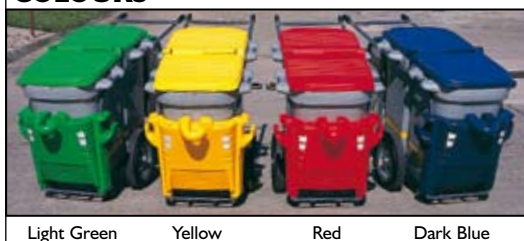
	Double Model	Single Model
Total Length	1760mm	1340mm
Total Width	630mm	630mm
Total Height	970mm	970mm
Total Weight	53kg	42kg
Container Height	680mm	680mm
Container Capacity	2 x 100 litres	1 x 100 litres
Optimum sack size	29" maximum aperture x height 39"	

SPECIAL FEATURES

Reflective Strips

White	4 on front moulding 70mm x 40mm
Red	2 at rear of Operator's box 70mm x 40mm
Amber	2 or 4 (1 on each bin side) 400mm x 40mm
Amber	1 on each handle, 20mm

COLOURS



Light Green Yellow Red Dark Blue

MATERIALS

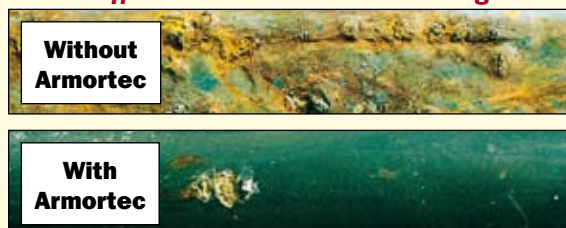
		Colour
Frame	Armortec coated mild steel	Cool Dark Grey
Sack Ring	Armortec coated mild steel	Cool Dark Grey
Main Container	Durapol a self coloured material formulated to withstand extremes of temperature	Cool Light Grey
Main Lid/s	Durapol	Choice of Light Green, Yellow, Dark Blue, Red.
Front Moulding	Durapol	Choice of Light Green, Yellow, Dark Blue, Red.
Operator's Box	Duraplast - a specially formulated self-coloured plastic compound with outstanding vandal resistance	Cool Light Grey
Operator's Box Lid	Durapol	Choice of Light Green, Yellow, Dark Blue, Red.

WHEEL SPECIFICATIONS

	Solid Tyre	Pneumatic Tyre	Jockey Wheels
Diameter	385mm	415mm	100mm
Rim and hub	Zintec™ coated mild steel	-	Nylon
Tyre	Black solid rubber	Michelin 4.00-8 DOT B5AZ14ST 6 ply	Rubber
Rim Colour	Bright Zinc	Black	Dark Grey

Armortec®

A cost effective anti-corrosion coating



Results of salt spray and impact tests on mild steel post with and without Armortec coating

Both posts shown were subjected, firstly to repeated impact with a metal hammer, followed by **six months in a salt spray cabinet** in the Glasdon Quality Assurance Laboratory.

The salt spray cycle is a very aggressive test, designed to accelerate the corrosion process, to simulate long term weathering in an outdoor environment.

In comparative salt spray tests the Armortec coated post lasted 5 times longer than the powder-coated steel post

Litta-Pikka™

Purpose-designed to be the best litter collection tool available.

Litta-Pikka is extremely strong; its component parts are manufactured from the toughest and most durable materials, to withstand even the heaviest usage.

Easy to use by operators of all heights, its smooth working action makes light work of litter collection. The highly visible reflector provides extra safety when used on roads. It can even be personalised with your name or logo. Litta-Pikka is the perfect tool to assist with cleaning duties - so no more handling of undesirable waste.



Glasdon U.K. Limited

Preston New Road
BLACKPOOL
Lancashire
FY4 4UL

Tel: (01253) 600410

Fax: (01253) 792558

e-mail: sales@glasdon-uk.co.uk
web: www.glasdon.com



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