

# MOLOK<sup>®</sup>

## Deep Collection News



BREAKTHROUGH  
FOR MOLOK  
IN BRAZIL

Page 3



NEW LOCKING  
SYSTEM AVAILABLE

Page 8



WAITROSE - THE  
FIRST MOLOK  
INSTALLATION  
IN LONDON, UK

Page 6

# Making sense of recycling, it's our future!



Around the world there have been many activities focusing on minimizing the residual quantity of waste through recycling, which must be landfilled or burned. As a result of these new activities, many issues have arisen. Housing areas for example, have had to find residual space on their properties for a variety of sizes of bins and containers to collect recyclables.

There has been an increase in large truck traffic around housing areas as they are required to pick-up different types of waste on different days. Organic waste collection bins smell, and organic composting facilities have shown an increase in illness around the organic waste handling areas.

Now we see that around the world many different developments are happening to minimize the impact and maximize the benefits of recycling. Sorting technology has been developing so that the traditional methods of sorting are being left behind in favour of modern sorting technology. Additionally, the economics of the whole process are becoming more and more important.

Molok technology, being the world's number-one "Deep-collection" solution, is coming more and more to the forefront as a world leader in effective sorting and collection of recyclables.

Fleets of wheelie bins are being replaced by the more effective hygienic Molok system. Moloks larger capacity containers not only replace large numbers of carts, but also look and smell better. As a result, residential streets are once again becoming free for pedestrian use, and

parking areas now have more space for cars.

Workers safety is also becoming more and more important in waste collection. As a result of using the Molok system, claims for work-related injuries have been minimized. This results in better overall operating costs when compared to conventional waste and recycling collection.

One excellent example of how Molok has found its place in the recycling collection market is Finland's recyclable paper collection company, Paperinkeräys Oy. They have been collecting and recycling paper for more than 50 years.

Recently, they decided to develop their collecting system further, focusing on the economies of collection, and the quality of the paper collected. They studied different methods and, as it met their goals, decided to use the Molok system as their main tool for collecting paper. For Molok Oy, this provides a great challenge. Our company is very much grateful for Paperinkeräys Oy for this trust in our ability to fulfil their needs.

Many cities, large and small around the world, are turning to Molok to develop their basic waste collection and recycling needs.

For further information on the Molok "Deep-Collection" system, please visit our web site at [www.molok.com](http://www.molok.com).

**Veikko Salli**  
Managing Director

MOLOK - Deep Collection News 1/  
2005

Publisher: Molok Oy  
Editor & layout: Eero Hämäläinen  
[eero.hamalainen@koti.soon.fi](mailto:eero.hamalainen@koti.soon.fi)

[www.molok.com](http://www.molok.com)  
e-mail: [molok@molok.com](mailto:molok@molok.com)

# BREAKTHROUGH FOR MOLOK IN BRAZIL WASTE MANAGEMENT MARKET



*Moloks are now well visible in the residential areas and parks of Rio de Janeiro.*

**Molok has seen a major breakthrough in the waste management market in Brazil. After testing the system for several years, Comlurb, a waste management company operating in the Rio de Janeiro area, has approved Molok containers for use in waste collection in residential areas and parks. The containers installed largely underground have also been introduced in the capital Brasilia.**

The first Finnish-made Molok containers are already in use in parks in the centre of Rio de Janeiro and for example in the popular Flamengo beach and park area.

Comlurb handles waste disposal for the altogether 15 million inhabitants of the Rio de Janeiro area.

Key factors in choosing Molok were the outstanding capacity of the deep collection method, and that the system is clean and tidy and virtually odour-free even in a hot climate.

Molok Oy has to date supplied some 50,000 deep collection containers, in Finland and around the world.

**Growth of 16% last year, operations concentrated in Nokia**

Molok Oy's delivery volumes last year showed an increase of 16% on the previous year. Growth was fastest in Finland and in Spain, Brazil, Canada, the Arab Emira-

tes as well as in the other Nordic countries such as Sweden. During 2004 Molok concentrated all its operations in Nokia and started the moulding of the container chassis as part of its own production.

The largest order in Finland, for more than 300 containers, was for the waste recycling points operated by Itä-Uudenmaan Jätehuolto Oy.



*Molok system is clean and tidy even in a hot Brazilian climate.*



A new Molok installation in the village of Taalintehdas, the municipality of Dragsfjärd.

Tidiness and ease of use are most important:

## POSITIVE RECEPTION FOR DEEP COLLECTION IN FINLAND'S LAKELAND AND ARCHIPELAGO

**“Comments from users about the Molok deep collection points installed in lakeland Finland and the archipelago have been very positive. The aspects that users consider especially important are that the waste collection points are tidier, are easy to use, and give improved opportunities for recycling.”**

**“In future we shall be putting efforts into rationalizing the emptying of the waste collection points.”**

This is how **Rolf Karrento**, secretary general of the Keep the Archipelago Tidy Association (PSS), assessed cooperation with Molok when we interviewed him. PSS and Molok have had a cooperation agreement since summer 2003, so that new waste collection points and those being modernized are built using the deep collection method.

***Who are the parties in the PSS and Molok partnership?***

“There are three parties to the agreement: PSS, Molok and Kla-

ra – Saariston Puhtaanapito Oy, the company responsible for emptying the containers. Our association also works together with several other companies such as Veritas, Fortum and Silja Line.”

***Who are the Molok deep collection points in lakeland Finland and the archipelago meant for?***

“The key target group for Klara is formed by the permanent and summer residents. The waste collection points have been modernized in places which large numbers of people travel through

on their way to the archipelago, which make it especially important for waste management to function properly.”

**Where have Molok deep collection points been built so far?**

“A key development area for us has been the municipality of Dragsfjärd and in particular the villages of Taalintehdas and Kasnäs. Klara operates today in nine municipalities in south-western Finland.”

**Do people on the islands want to recycle?**

“Yes, if they are given the chance to do so. The Molok system has also brought progress in recycling. Dragsfjärd, for example, has separate containers not only for mixed waste but also for collecting paper, metal and glass.”

**What are the main challenges facing waste management in the future in lakeland Finland and the archipelago?**

“Developing the method for emptying the waste collection points is one of the next matters being planned. We are developing a method so that the supply ships serving the archipelago can also empty the waste collection points in the Molok system.”

“An effective emptying system in the archipelago is a major challenge. Creating a comprehensive emptying system for the septic tanks on boats is also vital for protecting the water environment.”



Klara – Saariston Puhtaanapito Oy, the company responsible for emptying the containers.

HRC Environmental to make a breakthrough in the UK:

## WAITROSE, THE FIRST MOLOK INSTALLATION IN LONDON, ENGLAND



*The impressive and tidy Molok installation at Waitrose, West Ealing, London.*

### **HRC Environmental welcomes a breakthrough in the United Kingdom with the installation of the first Moloks at a site in London.**

The client is Waitrose, one of the leading, quality supermarket chains. Their investment in this system is typical of their broader consideration of providing a quality service to their customers.

The project, which is the redevelopment of an existing supermarket site in West Ealing, has still to be completed. However, the recycling centre was opened in February this year and is now being used.

This recycling centre comprises

9 moloks, 4no. 5000 litre Moloks and 5no. 3000 litre Moloks.

The Moloks are supplied with the Quick System and are in a painted timber finish to meet the client's specification to accord with Waitrose standard colours.

The installation has been well received by the public who have started using it and has attracted a lot of interest from other quarters including the local authority and private contractors.

It is hoped that this installation will lead to others for Waitrose as well as operating as an excellent reference for Molok and HRC Environmental in the London area.

MICHAEL OLDHAM



*The Waitrose Moloks are being used actively.*



*The use of Moloks in Trondheim, Norway, is easy even for the students, sitting in a wheel chair.*

## 60 MOLOKS TO TRONDHEIM, NORWAY

**Last april we sold 60 Moloks to the student organisation in Trondheim. They had had 10 Moloks a couple of years for testing.**

The Moloks were delivered with Quick System. The colour of the panel was light grey. They use the Moloks to collect paper, residual waste and plastic.

The renovation company has a big compression car that can empty bottom open containers and thus has a crane that can empty Moloks. They are very satisfied and are planning to buy another 25 Moloks this year.

One advantage that they see with Molok is that children and students in wheel chairs can use Molok, which is very difficult with the big bottom open containers that is the main system in Trondheim.



*The Moloks installed to the student village in Trondheim are equipped with the Quick System for easy emptying.*



*Behind from left: Mats Jons-son, Jan Gustafsson, Jan Törn-quist, Urban Pettersson. Front from left: Gunnar Hermansson and Mikael Åsberg.*

## SAN SAC AB - MOLOK'S NEW DISTRIBUTOR IN LINKÖPING, SWEDEN

**San Sac AB, Molok's new distributor in Sweden, is the market leader in Sweden concerning equipment for waste handling and sorting at source.**

The San Sac concept is to offer a complete system for sorting at source and waste handling.

The San Sac system includes equipment such as refuse sacks (paper and plastic), sack holders, waste bins, trolleys, containers, balers and compactors.

Furthermore they offer a wide range of equipment for handling of hazardous waste from hospitals and other activities. See also San Sac's company website [www.sansac.se](http://www.sansac.se).

San Sac's customers are a.o. municipalities, private contractors, real estates, hospitals and industries.

The company is situated in Linköping and have a staff of representatives visiting customers all over the country.

The number of staff is 13 people. The turnover is about 80 millions SEK on a considerably increasing market.

The introduction of Molok to the Swedish customers is already going on together with the earlier agent Scanett AB.

Molok will be showed to house-owners next autumn on the fair "Elmia Fastighet" in Jönköping.



*One of the recent Molok installations in Sweden.*

Lockable cover lid prevents misuse effectively:

## MOLOK'S CAN NOW BE LOCKED



*The durable neoprene flap protects the lock from the weather and dirt.*

**Molok has made its popular deep collection containers even more user-friendly with a new locking mechanism. A lock for the cover lid is now available for all container sizes. The lock effectively prevents misuse and stops communal containers meant for the use of residents being filled by outsiders.**

The new locking mechanism consists of a surface-mounted lock installed under the lid cover and protected by it. From the outside the only visible part of the lock system is the lock housing on top of the cover lid.

The lock is protected from the weather and dirt with a flap made of durable neoprene.

The lock can be serialized with the other keys used in an apartment block, to make it easy for residents to use the container. Abloy and Assa locks, for example, can be used. Installing the

locks is a quick job for a locksmith.

The locking mechanism is available for all Molok deep collection containers: for the 300 and 800 litre and 1.3, 3 and 5 cubic metre models.

It is also easy to install the lock on containers that are already in use, if they have the ergonomic, sloping drop-hole opening.

As well as preventing misuse, locking the containers effectively prevents vandalism and improves the safety of waste collection. The fire safety of locked Molok is far superior to surface containers.

The lockable Moloks offer clear benefits not only to apartment blocks and other housing areas but also to shopping centres and public facilities where it is necessary to restrict access to the containers.



*A close-up of the lock outside.*



*The locking mechanism is placed under the lid cover.*



*A fully equipped Molok with a locking mechanism.*

*Fire test by Emergency Services College:*

## MOLOK CONTAINERS IMPROVE FIRE SAFETY IN WASTE MANAGEMENT



*Surface bins with wooden structures are very vulnerable both for fire and misuse.*

**A fire test held by the Finnish Emergency Services College demonstrates that Molok deep collection containers improve fire safety in waste collection and give fire services more time to react, since the containers are difficult to ignite. Fire safety in waste collection has attracted particular attention recently because of numerous attempts to set on fire waste containers and waste collection sheds.**

Two Molok deep collection containers of different sizes were used in the test carried out by the Emergency Services College. One container was filled with dry waste paper and the other, larger container with ordinary community waste.

The first part of the test was an attempt to set the container on fire by dropping a burning cigarette on to the waste paper. Even though the wind was blowing during the test and the lid was open, the Molok container did not catch fire from the cigarette and the fire died out. In the second part of the test, the top layer in the container consisted of shredded paper. In this case the cigarette started a smouldering fire that went out on its own, however.

In the final part of the test, the paper in the deep collection container was set on fire with a propane burner. It took 20 minutes before the container lid began to melt and stuck to the cover. Even though in the end the lid was opened, the container structure withstood the smouldering fire for three hours before the fire burst into flame.

The other container in the test, containing three cubic metres of community waste, was also lit with a propane burner. Ten minutes after lighting the fire, the lid softened and fell shut by itself. When the lid was opened again, it took over half an hour before the smouldering fire burnt a hole in the container and started a blazing fire.

In its summary report on the test, the Emergency Services College states that a burning cigarette did not ignite the waste paper in the Molok container even when the paper was shredded.

The fires lit by a propane burner continued to smoulder in both containers very slowly. In no cases did the fires spread outside the container in less than six minutes, which is the normal response time for fire and emergency services.



*According to the fire test, Molok containers are very difficult to ignite.*



*“Together, we will build an innovative, caring & vibrant Kitchener with safe & thriving neighbourhoods.”*

*A tidy set of Moloks in the city of Kitchener, Ontario, Canada.*

## CITY OF KITCHENER, CANADA, TO ENDORSE DEEP COLLECTION SYSTEM

**The city of Kitchener is a vibrant, cosmopolitan community that is located in the Region of Waterloo, in the heart of southwestern Ontario. Kitchener is located less than one hour west of Toronto - the largest city of Canada - and a couple of hours from the American cities of Detroit and Buffalo.**

The attractions of the city include Bingemans, a camping resort along the historic Grand River, with over 500 campsites and on-site rustic log cabin rentals.

A Festival of German Christmas - Christkindl market - is based on a 400 year old tradition. It offers visitors the opportunity to shop for presents, enjoy tasty German food and listen to live festive entertainment.

For many visitors across Canada and throughout the US, Kitchener's City Hall is the place to be in December each year. It is a place to shop for that special gift,

to relax and enjoy a gluhwein, to meet your friends and simply to have a good time.

### **“We endorse the use of deep collection system”**

The city of Kitchener has found the old, wooden waste enclosures to be costly and difficult to maintain.

If any food items are being handled, the enclosures must have complete steel frame with a roof.

After testing, the city of Kitchener is now endorsing the deep collection system, being money saving, employee friendly, site attractive and non-smelling compared to the old, wooden enclosures.



*With the deep collection system, both space and money are being saved.*

**HEADQUARTERS:**

**Molok Oy**  
Nosturikatu 16  
P.O. Box 90  
FIN-37101 Nokia,  
Finland  
Tel +358 10 3429400  
Fax +358 10 3429450

Managing Director:  
Veikko Salli  
mobile phone: +358 400 591 219  
e-mail: veikko.salli@molok.com

Export Manager:  
Hannu Luomala  
mobile phone: +358 500 708 423  
e-mail: hannu.luomala@molok.com

**INTERNATIONAL CONTACTS:****ARGENTINA**

**Molok Argentina**  
Av. Pavon 1312  
(1870) Avellaneda  
Buenos Aires  
Tel. 54-11-4208 0068  
Fax 54-11-4208 6869  
[molok@molok.com.ar](mailto:molok@molok.com.ar)  
[www.molok.com.ar](http://www.molok.com.ar)

**AUSTRALIA**

**Molok Australia**  
GPO Box 2823  
Sydney  
Australia, 2001  
Tel. 612-8300 2233  
Fax 612-1300-303 979  
[molok@molok.com.au](mailto:molok@molok.com.au)  
[www.molok.com.au](http://www.molok.com.au)

**AUSTRIA**

**M-U-T Maschinen-Umwelttechnik-  
Transportanlagen Ges. m.b.H.**  
Schiessstattgasse 49  
A 2000 Stockerau  
Tel. 43-2266-603 170  
Fax 43-2266-603 202  
[kuehrer@m-u-t.at](mailto:kuehrer@m-u-t.at)  
[www.m-u-t.at](http://www.m-u-t.at)

**BALTIC COUNTRIES****E-Truck OÜ**

Roiu Haaslava vald  
62102 Tartumaa  
Estonia  
Tel. 372-749 02 94  
Fax 372-749 02 94  
[www.etruck.ee](http://www.etruck.ee)

**BELGIUM**

**Molok Benelux**  
Europark 1.003  
3530 Houthalen  
Tel. 32-11-454 279  
Fax 32-11-454 280  
[sales@molok-benelux.com](mailto:sales@molok-benelux.com)  
[www.molok-benelux.com](http://www.molok-benelux.com)

**BELORUSSIA, KALININGRAD REGION  
Label Stock Exchange B.V.**

Hemonystraat 11  
1074 BK Amsterdam  
Tel. 31-20-4101 156  
Fax 31-20-4101 159  
[info@labelstockexchange.com](mailto:info@labelstockexchange.com)

**BRAZIL**

**Molok Brasil**  
Sanador Vergueiro 55-1004  
Flamengo-22230-000  
Rio de Janeiro  
Tel. 55-21-320 840 49  
Fax 55-21-320 840 49  
[wttworld@yahoo.com](mailto:wttworld@yahoo.com)

**CANADA & USA**

**Molok North America Head Office**  
179 Norpark Avenue  
P.O. Box 693  
Mount Forest, Ontario N0G 2L0  
Tel. 1-519-323-9909  
Fax 1-519-323-9910  
[molok@molokna.com](mailto:molok@molokna.com)

**CHILE**

**Majesa Ltd**  
Panamericana Norte 3525  
Santiago  
Tel. 562-421-5100  
Fax 562-736-9726  
[www.majesa.cl](http://www.majesa.cl)

**DENMARK**

**Joca A/S**  
Industrivej 6  
DK-7830 Vinderup  
Tel. 45-97-443 666  
Fax 45-97-443 668  
[anne@joca.dk](mailto:anne@joca.dk)  
[www.joca.dk](http://www.joca.dk)

**FRANCE**

**Molok France S.A.**  
7, Rue Georges Faroy  
77515 Faremoutiers  
Tel. 33-01-6482 1060  
Fax 33-01-6482 1061  
[b.thibault@molok.fr](mailto:b.thibault@molok.fr)  
[www.molok.fr](http://www.molok.fr)

**GREECE**

**ECONORD Consulting**  
19, Syngrou ave.  
11743 Athens  
Tel. 30-1-924 4368  
Fax 30-1-924 4369  
[econord@hol.gr](http://econord@hol.gr)

**IRELAND**

**Waste Solutions Ltd**  
Lisachane House  
Woodside  
Carrigrohane  
Co.Cork  
Tel. 353-21-438 29 00  
Fax 353-21-438 29 01  
[harry.connolly@wastesolutions.ie](mailto:harry.connolly@wastesolutions.ie)  
[www.wastesolutions.ie](http://www.wastesolutions.ie)

**ISRAEL**

**P.S.I Ecology Ltd.**  
P.O.Box 4094  
Rishon Le Zion zip  
75140  
Tel. 972-3-951 3602  
Fax 972-3-961 4160  
[balo@bezeqint.net](mailto:balo@bezeqint.net)

**ITALY**

**Molok Italia Srl**  
Via des Ambrois 2  
10123 Torino  
Tel. 39-011-195 021 46  
Fax 39-011-197 124 21  
[molok@molok.biz](mailto:molok@molok.biz)  
[www.molok.it](http://www.molok.it)

**NETHERLANDS**

**Molok Benelux**  
Europark 1.003  
3530 Houthalen  
Tel. 32-11-454 279  
Fax 32-11-454 280  
[sales@molok-benelux.com](mailto:sales@molok-benelux.com)  
[www.molok-benelux.com](http://www.molok-benelux.com)

**NEW ZEALAND**

**Molok NZ Limited**  
P.O. Box 78259  
Grey Lynn  
Auckland  
Tel. 64-9 361 2431  
Fax 64-9 361 2432  
[sales@molok.co.nz](mailto:sales@molok.co.nz)  
[www.molok.co.nz](http://www.molok.co.nz)

**NORWAY**

**Miljø og Sikkerhet AS**  
BOKS 284  
4251 Kopervik  
Tel. 47-52-845350  
Fax 47-52-845351  
[post@miljo-sikkerhet.no](mailto:post@miljo-sikkerhet.no)  
[www.miljo-sikkerhet.no](http://www.miljo-sikkerhet.no)

**POLAND**

**Novum**  
12-130 Pasym  
Grom 36  
Tel. 48-89-624 85 28  
Fax 48-89-621 64 41  
[malgorzata.jezierek@novumgrom.pl](mailto:malgorzata.jezierek@novumgrom.pl)  
[www.novumgrom.pl](http://www.novumgrom.pl)

**PORTUGAL**

**Sopsa LDA**  
Praca Guilherme Gomes Fernandes,  
58 - 3º frente  
4050 - 294 Porto  
Tel. 351-22-204 60 30  
Fax 351-22-204 60 39  
[sopsa@esoterica.pt](mailto:sopsa@esoterica.pt)

**SERBIA MONTENEGRO**

**Fruco**  
Vojvode Misica 13  
21000 Novi Sad  
Tel. 381-21-456-213  
Fax 381-21-456-280  
[BRT@Nscable.net](mailto:BRT@Nscable.net)

**SPAIN**

**MOLOK IBERIA S.L.**  
Wad-Ras, 20  
28039 Madrid  
Tel. 0034-91 398 04 17  
Fax 0034-91 398 04 18  
[sales@molok-benelux.com](mailto:sales@molok-benelux.com)

**SWEDEN**

**San Sac AB**  
Box 423  
Molijns väg 6  
581 04 Linköping  
Tel. 46-13-13 04 21  
Fax 46-13-14 30 74  
[roger.ferm@sansac.se](mailto:roger.ferm@sansac.se)  
[www.sansac.se](http://www.sansac.se)

**SWITZERLAND**

**Molok Recycling Company S.A.**  
Ch. des Charmilles 4  
CH-1008 Prilly  
Tel. 41-21-671 31 03  
Fax 41-21-671 31 04  
[info@molok.ch](mailto:info@molok.ch)  
[www.molok.ch](http://www.molok.ch)

**UKRAINE**

**Label Stock Exchange B.V.**  
Hemonystraat 11  
1074 BK Amsterdam  
Tel. 31-20-4101 156  
Fax 31-20-4101 159  
[info@labelstockexchange.com](mailto:info@labelstockexchange.com)

**UNITED ARAB EMIRATES**

**Molok LLC**  
P.O.Box 26142  
Dubai  
Tel. 971 4 3400430  
Fax 971 4 3400435  
[molok@emirates.net.ae](mailto:molok@emirates.net.ae)

**UNITED KINGDOM**

**HRC Environmental Ltd**  
138 Durham Road  
West Wimbledon  
London  
SW20 0DG  
Tel. 44-20-8946 7774  
Fax 44-20-8947 7852  
[hrc.enterprises@btclick.com](mailto:hrc.enterprises@btclick.com)  
[www.molok.com.uk](http://www.molok.com.uk)