

ROCO

A waste handling system from Mobergs 

Compacted waste
A brilliant solution for waste handling in residential areas



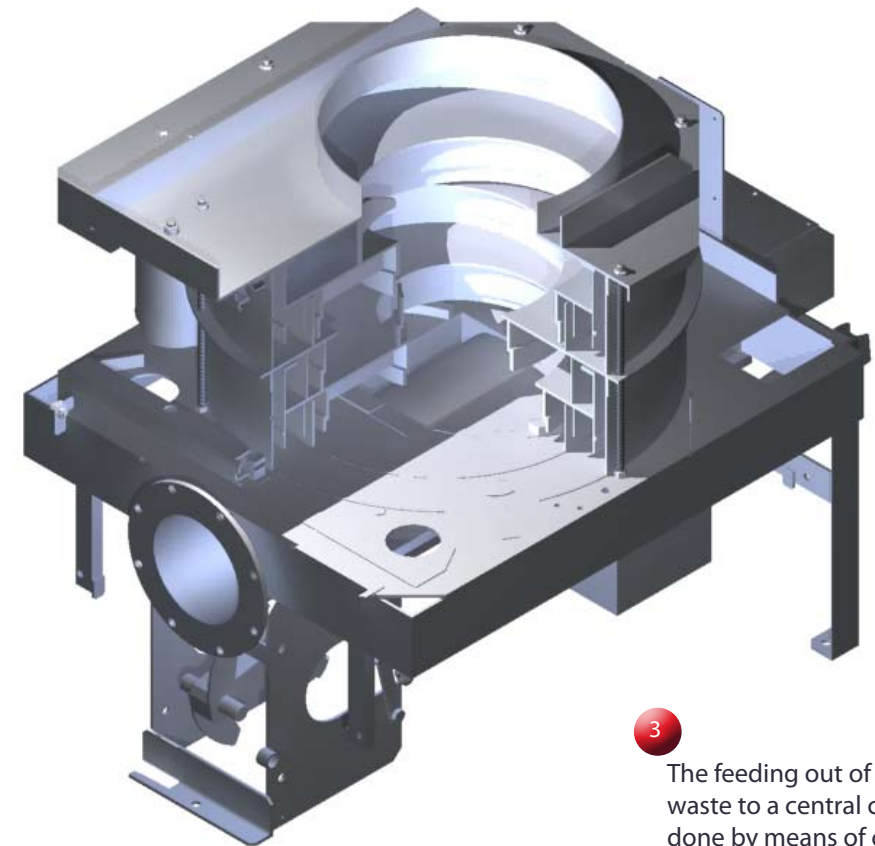
Reduce the mountain
of waste already at home.
Let Roco take care of waste
for combustion



Roco works in three steps – size reduction, compacting and feeding out

1

The size reduction of the waste is made by means of an effective waste stationary compactor, placed adjacent to the refuse chute.



2

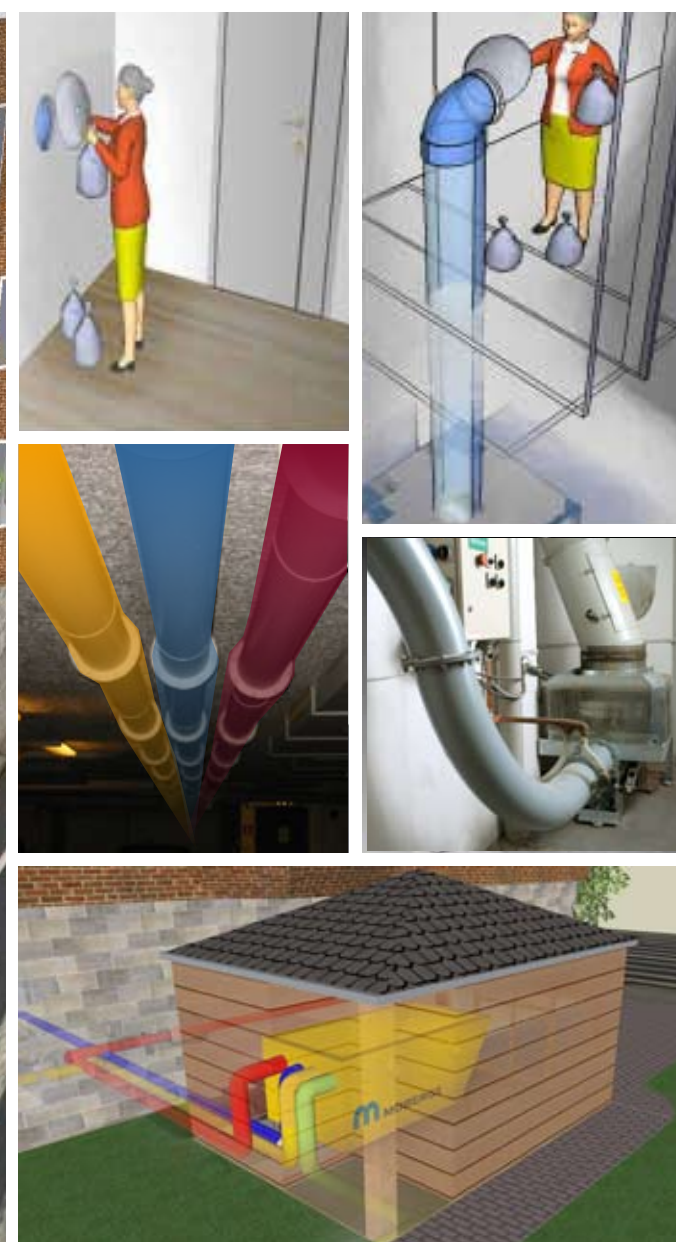
The compacting is done partly through the shredding in the compactor, partly by means of an electrically driven piston that compresses the waste in the cylindrical out-feed tube. Now the waste only takes up 20-30 % of its original volume.

3

The feeding out of the compacted waste to a central container is done by means of compressed air in a pressure tube. The speed is 5 m/sec at a pressure of approx. 7 bars in the conveyor tube.



"In our case it was an installation in an already existing building - it was difficult to find a solution with traditional refuse storage rooms. Roco doesn't demand large spaces or complicated reconstruction work, which made the choice easy. The installation was implemented with good solutions and engagement."
 Anders Jeppson,
 Project Manager
 Victoria Park, Malmö



SPACE SAVING AND FULLY AUTOMATIC

Some people say it is a luxury – other say it is practical

To throw waste a couple of times a week - in larger families maybe every day - is easy for some people but somewhat more difficult for others. In the Roco system you can use the refuse chute on your floor plan or a refuse chute in the courtyard, where your bin-liner meets the Roco compactor. After compacting, the waste will automatically be disposed from the building by means of air to an environmental house with a container. This procedure takes

place in a closed tube system with an outer diameter less than 20 cm. The demands for small spaces in the Roco system open interesting possibilities in connection with new construction work and renovations as well. When rebuilding refuse storage areas in older buildings, the rebuilding need is reduced to a minimum. On the right side you can find an example of living where Roco simplifies the waste handling.

New construction work

The foundation Bellevue Park, stage I, II & III
 Client: Skanska

Post installation

The block "Strået" in Malmö, HSB tenant-owner's society Munkhättan
 "A plain advantage is to have waste collected in one place; it will also make it easier ergonomically for those handling the transports"

The first installation

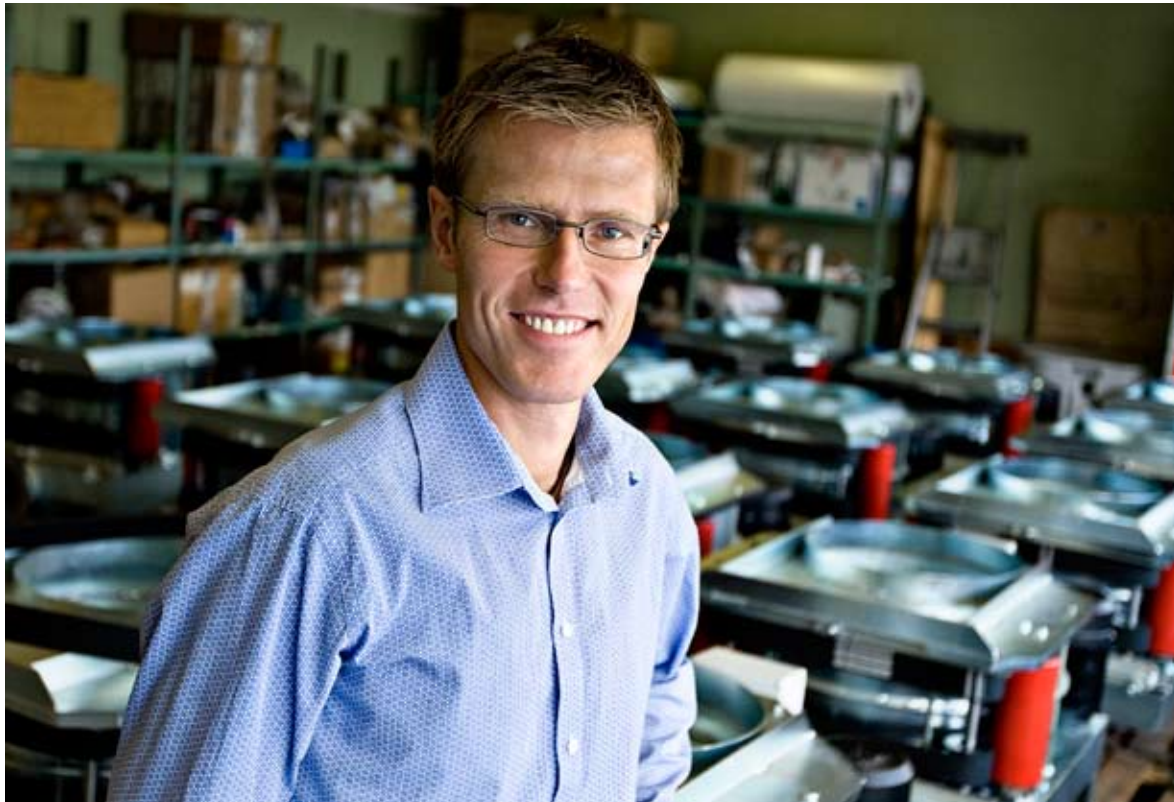
The block "Frosta" at "Kronprinsen in Malmö, H. Åbergs Fast AB. Installed in 1985 and modernised in 1999; this indicates that Roco was an investment for the future.

The smallest installation:

Turning Torso in Malmö, HSB/NCC. The client was looking for a practical and space-saving solution for the high-rise building with 54 floors and Roco met the challenge.

The largest installation:

The block "Ellstorp" in Malmö consists of 1200 flats with 57 compactors and one container. The waste handling is smooth and the system is emptied every 14 days.



Roco mounting: Fredrik Moberg gives his answers to five questions.

ENERGY ECONOMIC AND RATIONAL – THE ROCO SYSTEM

Soon under a refuse chute near you

Who can install the Roco system? Roco is an automatic waste handling system for multi-dwelling blocks, new and old ones as well. The rational and space-saving system is also suitable for hospitals, ships and airports.

How will the Roco system change waste handling? The large amount of non-recyclable waste, which often means wet and rapidly foul smelling waste, will land easily and quickly in an enclosed fully automatic system. The source sorting systems for e.g. paper, glass and hazardous waste will be handled separately as before.

How eco-friendly is the Roco system? Your bin-liner will be compacted to a fourth of its original size, which means that you will have a lower number of refuse collections. Thereby, being more eco-friendly with fewer transports. The living and working environment is improved by lowering the number of container collections for the residents. And those people

taking care of the waste handling will work in an ergonomic environment without cumbersome lifts, instead will have better accessibility and at ground-level.

Who takes care of installation and service? Roco is designed, produced and installed by us, Mobergs. We control the entire production and installation chain, which will offer you adapted solutions, a good operation and total economy. Our agreements include a possibility to have preparedness and annual service for continuity and controlling.

How was Roco incepted? From the very beginning our company was a subcontractor of the compactor, but in the 1990's, after the crisis in the building trade, we took over the business and the patent rights. Mobergs was established in 1961 and we are specialists in subcontract work, machine construction within the development sector and component manufacturing in shorter series.

IMPORTANT ADVANTAGES

For human beings, environment and economy

A long-range ecological thinking – Roco is an energy economic system making fewer transports and optimising energy to a fraction



An improved working environment and a reduced workload for caretakers and property technicians.



Better housing conditions with a comfortable and odourless waste handling in a pedestrian precinct. The larger amount of combustible waste will be compacted (in a refuse chute near you). There will be waste sorting of glass, paper and hazardous waste just as it was before.



Easy post installation in old houses with transporting tubes of 180 mm and retained refuse chutes of 400-500 mm.

It's economic with less emptying and the fact that the system is reliable will mean staff saving.





The waste in Turning Torso is transported by tube*

Roco is a unique waste system, which is patented and developed by Mobergs in Malmö. In apartment buildings, hospitals and airports and places where waste handling must work rapidly and smoothly – you can find Roco. The compactor is the first step; the next step is to send the compacted waste by compressed air through the closed tube system to central containers. An economical energy, eco-friendly system which works rationally and automatically.

* Pneumatic transport of household waste

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