

# TURN EPS WASTE TO VALUE



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# RUNI

# Revenue from Compacted EPS

Due to its low weight when compared to volume, EPS is a very expensive material to dispose of. However, when compacted, the EPS can be sold for recycling to generate an income.



The RUNI screw compactor compacts the EPS at the ratio of up to 50:1. When the compacted blocks are loaded on pallets a truck can hold approx. 22 tonnes of EPS.



50  1  
Compaction ratio



RUNI compactors come in different sizes, depending on your need. Common to all, is that they crush the EPS into smaller pieces, whereafter the screw and jaws compact the EPS into solid, uniform blocks. The RUNI machines have low energy consumption. No heat is added in the process, as the friction of the EPS creates the heat required to make cohesive blocks.

RUNI machines are user friendly and integrated sensors ensure easy operation with automatic start/stop function and adjustable speed for EPS with different densities. The RUNIs have handled EPS with a density from 10 grams per liter up to 100 grams per liter. The density affects the compactor's capacity and what motor size is required for precrushing the scrap.



# Benefits



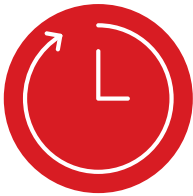
Generate revenue from compacted EPS blocks - save on storage, transport and disposal



Safe and easy operation with automatic start and stop



Optimal solutions based on RUNI's pioneering work, development and years of experience



Robust machines ensure a long lifetime even when working in harsh environments



Remote access (via SIM-card) ensures easy troubleshooting and hands-on assistance from the factory



Fast delivery of spare parts

# Options

## Multiple Machines

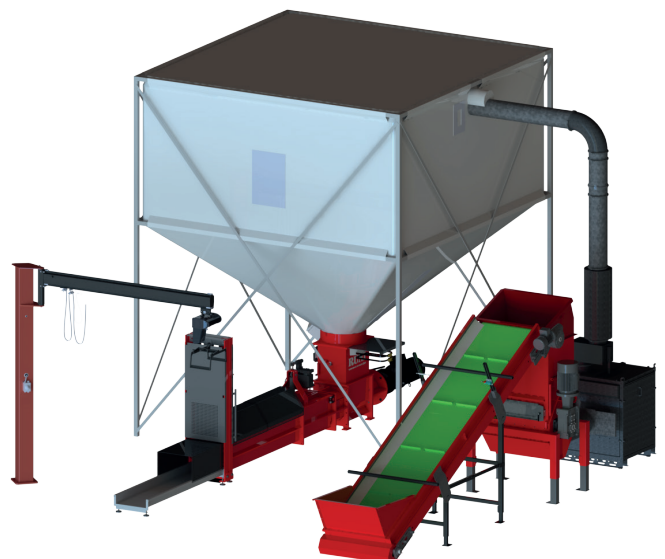
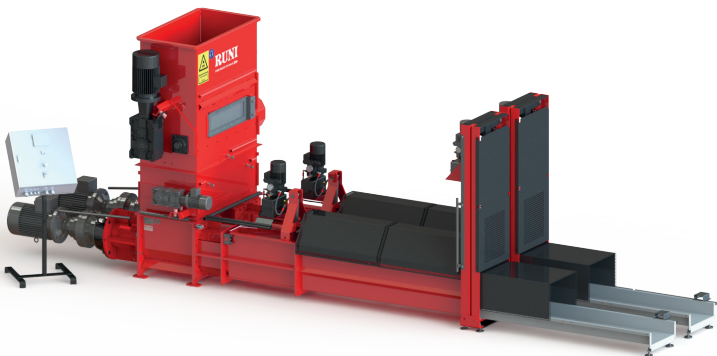
With our modular machine architecture we can combine several machines to achieve even higher capacity.

## Block Divider and Crane

For easy handling of compacted blocks. The block divider automatically cuts the block in the correct length for storing on a pallet.

## Silo System

When handling large quantities of EPS, the stand-alone pre-crusher quickly crushes the EPS to reduce labor time while the silo works as a buffer in peak periods.





| Technical Data                                      | SK120A/SK120M                                          | SK200A/SK200M                                          | SK200Twin                                              | SK240                                                                                       | SK370                                                               | Silo system                                                                                                |
|-----------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| <b>Material</b>                                     | EPS (Airpop, styrofoam)                                | EPS (Airpop, styrofoam)                                | EPS (Airpop, styrofoam)                                | EPS (Airpop, styrofoam)                                                                     | EPS (Airpop, styrofoam)                                             | EPS (Airpop, styrofoam)                                                                                    |
| <b>Capacity per Hour *)<br/>Daily Capacity *)</b>   | Up to 18 kg<br>80 kg                                   | Up to 45 kg<br>300-500 kg                              | Up to 90 kg<br>900 kg                                  | Up to 75 kg<br>750 kg                                                                       | Up to 200 kg<br>4 tons                                              | Depending on number of<br>compactors                                                                       |
| <b>Recommended Annual<br/>Amount of EPS</b>         | Up to 10 tons                                          | 10-30 tons                                             | Up to 50 tons                                          | 30-50 tons                                                                                  | 50 tons and above                                                   | 50 tons and above                                                                                          |
| <b>Block Measurement</b>                            | 120 x 120 mm                                           | 200 x 200 mm                                           | 200 x 200 mm x 2                                       | 250 x 250 mm                                                                                | 380 x 380 mm                                                        | 380 x 380 mm                                                                                               |
| <b>Feed-opening Dimension,<br/>Inlet (standard)</b> | 680 x 320 mm                                           | 750 x 420 mm                                           | 750 x 720 mm                                           | 800 x 434 mm                                                                                | 1000 x 508 mm                                                       | Depending on size of stand<br>alone precrusher                                                             |
| <b>Weight</b>                                       | 350 kg                                                 | 530 kg                                                 | 980 kg                                                 | 1150 kg                                                                                     | 2150 kg                                                             | Depending on setup                                                                                         |
| <b>Noise Level (distance 3<br/>meter)</b>           | Standard: 77-100 db<br>With soundproofing: 68-85<br>db | Standard: 77-100 db<br>With soundproofing: 68-85<br>db | Standard: 77-100 db<br>With soundproofing: 68-85<br>db | With material: 90-113 db                                                                    | With material: 90-113 db                                            | Depending on setup                                                                                         |
| <b>Machine Dimension (LxWxH)<br/>(standard)</b>     | 2797 x 450 x 1342 mm                                   | 2786 x 418 x 1466 mm                                   | 3868 x 890 x 1600 mm                                   | 4269 x 1200 x 2183 mm                                                                       | 7433 x 1353 x 2219 mm                                               | Depending on setup                                                                                         |
| <b>Motor Power</b>                                  | Main motor: 1,5 kW                                     | Main motor: 4 kW                                       | Main motor: 7,5 kW<br>Hydraulic pump: 0,55 kW          | Main motor: 5,5 kW<br>Hydraulic pump: 0,55 kW<br>HD-precrusher: 4,0 kW<br>Agitator: 0,25 kW | Main motor: 15 kW<br>Hydraulic pump: 0,55 kW<br>HD-precrusher: 4 kW | Main motor: 15 kW<br>Hydraulic pump: 0,55 kW<br>Stand alone precrusher:<br>7,5 kW<br>Block divider: 2,2 kW |
| <b>Power Supply</b>                                 | 3x230 V, 50 Hz, 16A<br>3x400 V, 50 Hz, 16A             | 3x400 V, 50 Hz, 16A                                    | 3x400 V, 50 Hz, 32A                                    | 3x400 V, 50 Hz, 32A                                                                         | 3x400 V, 50 Hz, 63A                                                 | Depending on number of<br>compactors                                                                       |

\*) Depending on the type and EPS density

CE-marking

Achieved  
density\*:  
350 kg/m<sup>3</sup>

Compact  
up to 200kg  
EPS per hour  
with only 15  
kW

Standard  
or customizable  
solutions for  
operations of  
any size



Save  
energy by  
compacting EPS  
without adding  
heat

NB: Only 1 year warranty on SK120A and SK120M. Wear on wearparts - screw, matrix and bearings is not included.

**RUNI**  
DANISH ENGINEERING

# COMPACTING EPS FOR RECYCLING

## TARM RECYCLING STATION, DENMARK

Tarm Recycling Station is one of the smaller ones in Denmark, and for that reason the quantity of EPS is limited. The citizens are handing in their EPS in a designated room, and then, at some point of the day, an employee passes by and feeds the gathered EPS into the machine. This way they assure that nothing but EPS enters the machine.

Tarm Recycling station is using the SK200Twin with a capacity of 90 kg/hour. It takes approx. 1 hour each day to sort the EPS, feed the machine and handle the compacted blocks.



*"It is a brilliant machine for what we need. For the compaction of quantities like ours it has the perfect size and we have not had any problems with it since we've got it."*

Watch a demonstration of the SK200Twin here:



# GETTING EPS BACK IN THE LOOP

## VARTDAL PLAST, NORWAY

Vartdal Plast is one of the biggest EPS converters in the Nordic region. The company has a vision of getting 100 % of the EPS back in the loop. In February 2021 Vartdal Plast launched their product series LOOP which will consist of products made entirely from recycled plastic waste or non-fossil feedstock.

With a fleet of 75 trucks, Vartdal Plast collects EPS from several waste collectors and compacts it in a RUNI compactor located at a central facility. After compaction the EPS is shipped to recycling facilities in Europe.

When planning the recycling facility, Vartdal Plast chose Alles Miljø AS, as their partner, because they are the reseller of RUNI machines in Norway.

*"We have known RUNI compacting machines ever since they came to the market. When buying RUNI we know what we get and we know that the quality is good and that the operations are reliable. In addition we have received a lot of good input from Alles Miljø/RUNI when planning our recycling facility"*



*"It is important for us as an EPS converter to contribute to getting EPS waste back into the loop. All waste is damaging to the environment if thrown into nature, but by collecting EPS and contributing to giving it new life as new plastic products, we are able to utilize the fantastic resource plastic really is"*

Watch a  
video from  
Vartdal  
Plast here:



# RUNI – DANISH ENGINEERING

When working with RUNI you will meet a team with many years of know-how. We seek to create the best energy-efficient and long-term solution, that will make a real difference for your business and the environment.

At RUNI we think long-term, not least when it comes to our relations with our customers. Many RUNI-customers have machines that are 10-15 years old and still running well. Of course, they need maintenance and the occasional spare part, but here we also strive to always offer fast and competent help – also many years after the delivery and installation of the machine.

RUNI's screw compactors support UN's sustainable development goals and make a positive difference, that promotes sustainability and the circular economy.



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