

**DRY 1 TON LDPE  
20 kW »» 5-10 %**



TURN WASTE TO VALUE



**RUNI**

# Energy efficient drying with RUNI

During the production of recycled plastic from PE film, the cut-up film is washed thoroughly and then dried. Traditionally, the drying process is carried out using hot air, centrifuging and agglomerating. A considerable amount of this energy demanding drying can be replaced by pressing the water out of the wet PE-film using RUNI screw compactor SK370. The dry matter content can be increased from 60% to 90-95%\* with an energy consumption of only 20 kW per 1.000 kg PE-film.



**60 %  90-95 %\***  
***Increase of dry matter***

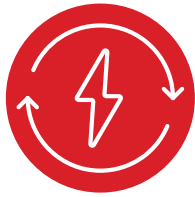
Placing the screw compactor after the centrifuge will speed up the process and increase the capacity on the drying line. RUNI SK370 screw compactor is developed to work in an automatic production line, 24/7 with a capacity of approx. 800 kg per hour.

The optional de-compactor and grinder units loosen the core of the PE-film after it has been dewatered in the RUNI screw compactor. This can be profitable if the PE-film should be blown further.





## Benefits



Energy efficient drying  
of PE-film



Safe and easy  
operation with  
automatic start and stop



Specially developed drying  
techniques through many  
years of experience  
with PE-film



Hard metal on screw and  
matrix in stainless steel  
(AISI316) ensures long lifetime



Remote access (via SIM-card)  
ensures easy trouble shooting  
and assistance from the factory



Fast delivery of  
spare parts

## Options

### Multiple machines

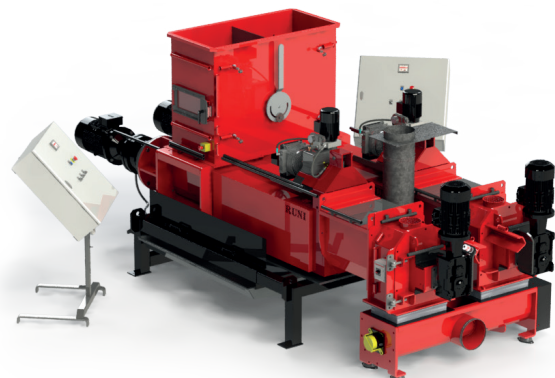
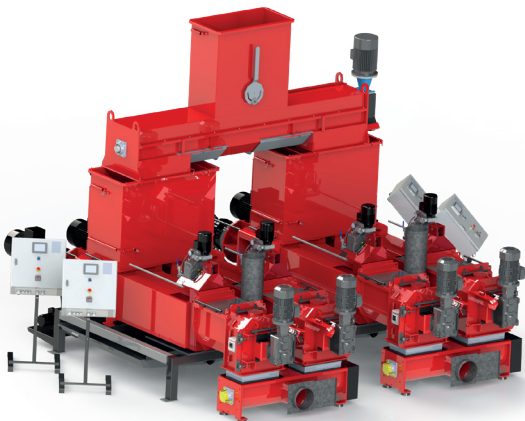
With our modular machine  
architecture we can combine  
several machines. The machines  
can also be used separately,  
when performing maintenance.

### De-compactor unit

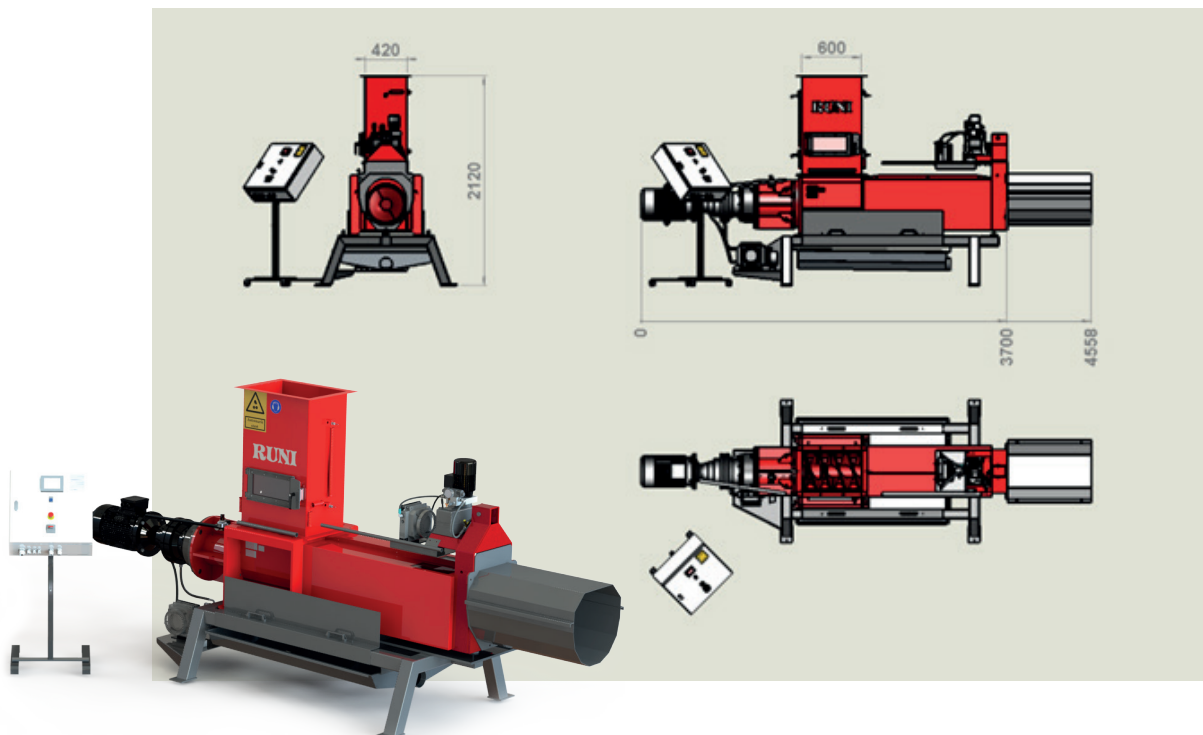
For loosening the PE-film when  
blowing directly to agglomerater  
or buffer silo.

### De-compactor & grinder

For blower/pipe systems not  
able to handle smaller lumps of  
PE-film, for example when using  
thermal drying.



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Technical data	Europe	USA
<b>Material</b>	PE-film	PE-film
<b>Achieved dry matter percent *)</b>	90-95%	90-95%
<b>Throughput per hour *)</b>	Min: 400 kg - Max: 800 kg	Min: 880 lbs - Max: 1750 lbs
<b>Daily capacity *)</b>	20 tonnes	20 tonnes
<b>Feed-opening dimension inlet (standard)</b>	600 x 420 mm	24 x 17 inch
<b>Weight</b>	1500 kg	3300 lbs
<b>Machine dimension (LxWxH) (standard)</b>	4558 x 1444 x 2120 mm	168 x 57 x 83 inch
<b>Motor power</b>	Main motor: 15 kW Hydraulic pump: 0,55 kW Oil cooling for gear: 0,07 kW Oil cooling for hydraulic: 0,07 kW Circulation pump: 0,25 kW De-compactor: 4 kW (optional) Grinder: 4 kW (optional)	Main motor: 24 hp (18 kW) Hydraulic pump: 0,88 hp (0,66 kW) Oil cooling for gear: 0,17 hp (0,13 kW) Oil cooling for hydraulic: 0,17 hp (0,13 kW) Circulation pump: 0,38 hp (0,29 kW) De-compactor: 6,8 hp (5 kW) (optional) Grinder: 6,8 hp (5 kW) (optional)
<b>Power supply</b>	3 x 400V, 50 Hz, 63A	3 x 230V, 60 Hz, 80A 3 480V, 60 Hz, 63A
<b>Marking</b>	CE-approved	CE-approved, UL(only components)

\*)dependent on cleanliness, type and thickness of the film, and hourly throughput.



# PLASTIC FILM RECYCLING, SYSTEC, GERMANY

One of the largest manufacturers of plastic granules from post- consumer waste in Europe, Systec Plastics GmbH in Germany, chose to replace their existing installation of screw compactors with 6 new RUNI screw compactors type SK370, into their washing line for PE film, as part of the drying process of the crushed and washed plastic flakes.



*"The RUNI SK370 dewatering press was at the same throughput able to minimize the energy consumption significantly and simultaneously reduce the moisture content with 50% compared to our old installation."*

Watch a  
video from  
Systec 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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