VALUE ADDING TECHNOLOGY

Organic Liquefying Press

Dewatering Paper Pulp Rejects

KUSTERS ENGINEERING

ROYAL DUTCH KUSTERS ENGINEERING

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During the recycling process of paper or paper products, plastics and other non-paper materials are mixed within the paper pulp. Once separated from the pulper, this fraction is referred to as paper pulp rejects. These rejects are often transported and processed with a large amount of moisture, adding to transport and gatefee costs. To lower these types of costs, rejects are commonly dewatered by various pressing methods such as a screw press. To improve on these current methods, Kusters developed the Oganic Liquefying Press.

Dewater Paper Pulp Rejects
reduce transport costs and gatefees

Depending on the process of a paper mill, the paper rejects make up around 5 to 25% of the paper. Because of its high moisture levels after being separated from the pulp, one of the main challenges for this fraction is to optimise the dewatering process. One of the methods to do this is through high pressure.

Using hydraulic pressure to dry rejects
The OLP brings smart waste management by removing moisture from materials using a pressure of up to 280 bar. The press has a menu-based touch-screen from where the system can be automatically optimised for the ideal throughput and segregation in real time depending on the specific characteristics of the waste.

Reduce weight of rejects by up to 50% in one step
The Organic Liquefying Press (OLP) optimises the drying process of paper pulp rejects and can signficantly lower disposal costs for paper manufacturers. The OLP allows the user to separate moisture from paper pulp rejects in a smart and energy efficient way. The technology enables up to 50% additional weight reduction of paper pulp rejects after these have been fed through an ordinary screw press.

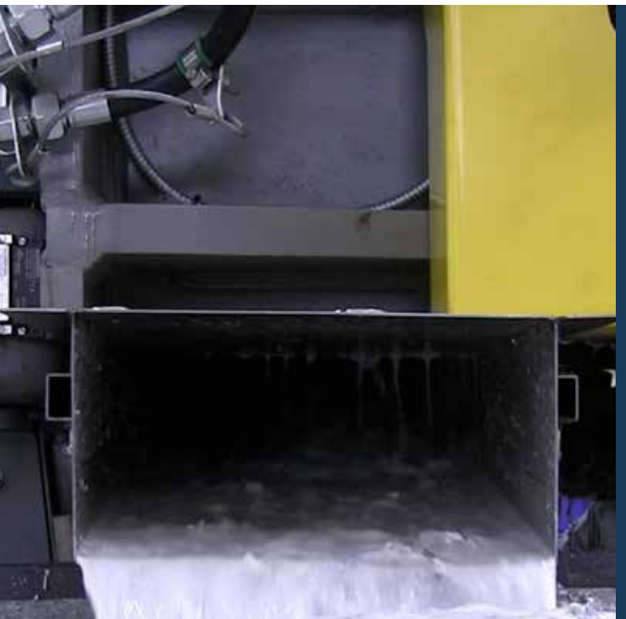
Scale the process to your application
At the moment, the OLP is available in three models that each offer a different capacity: The OLP1000, OLP7500 and OLP5000. This way we can offer a solution with a suitable capacity for your application, with a variety of screen sizes and pressure settings.

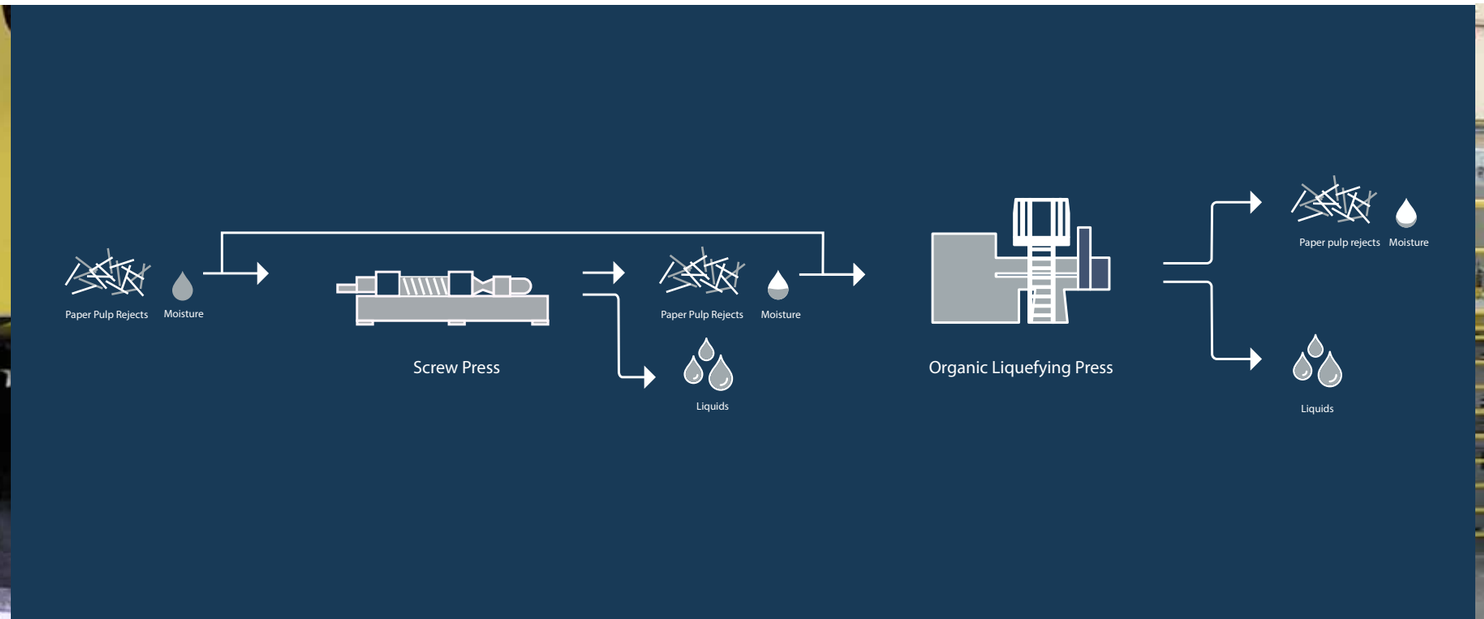
Knowledge partner in press technology
Kusters has been involved in the development, design and production of presses since 1981. With over 500 presses installed globally and most still running we have processed various materials such as wood, manure, sludge, paper, organics, foodwaste, banknotes, plastics, green waste, cloth, tobacco, coffee, paper pulp rejects, metals, MSW, etc.

Improving on existing dewatering methods
Commonly used dewatering technologies such as screw presses generally show moderate drying results. Often, 40 to 60% of the moisture still remains after pressing. Through reaching a higher pressure per cm2, the OLP is able to deliver a more constant quality resulting in better dewatering effects.

Reduce weight up to 50%

Achieve a **moisture level of 20-35%**





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Kusters value adding technology

Royal Dutch Kusters Engineering is a fully family owned company and was founded in 1911. It has become one of the world's leading manufacturers of custom recycling equipment and specialized systems for currency destruction. Kusters has installed over 700 systems in more than 80 countries worldwide.

Contact us now for more information.

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