

SCREENER CRUSHER PROCESSING ATTACHMENT REVOLUTIONISES MATERIAL PROCESSING

What is a Screener Crusher Bucket?

Screener Crusher Bucket is a hydraulically operated attachment for earthmoving equipment. It can be mounted e.g. on excavators, wheel-, backhoe- or skid steer loaders. By attaching the Screener Crusher Bucket to your already existing base machine, you actually convert your loader into a efficient primary screening, crushing or mixing unit, which results in radically reduced investment costs for specialized machinery on the job sites. The Screener Crusher Bucket is also one of the most mobile machines that the market has to offer.

The Screener Crusher Bucket is driven with chain drive transmission to the drums and the power of the unit depends on the model varying from 30 kW up to 120 kW. The most effective Screener Crusher Buckets have up to four horizontally rotating drums, which are equipped with changeable hammers. There are different types of hammers for different materials. The weight of the material forces the material onto the drums which, while rotating, crushes big softer particles and screens out stones, metals or any other hard pieces. The mechanism is simple and very ridged and requires small service attention.

What does the Screener Crusher Bucket do and where is it used?

The Screener Crusher Bucket is a very versatile processing attachment. With it you can: **screen, crush, pulverize, blend, mix, aerate, carry, feed and load** different kinds of materials. All of these works are done in a one step operation. A Screener Crusher Bucket can process e.g. **normal topsoil, waste soil, lightweight concrete, clay, sand, light demolition waste, grinded asphalt, glass, sludge, bio waste, contaminated soil, compost, peat, bark, coal and many other materials**. The way the best Screener Crusher Buckets are constructed makes it possible to process even wet and sticky materials.

It is easy to realize that being able to do so many different kinds of works in one step, with one single machine, it results in time and cost savings. The productivity of the Screener Crusher Bucket is so high that it in several applications replaces conventional large screening and crushing equipment or blenders. But the most important thing is that it is commonly used where no other machine can perform the job.

There are today already hundreds of different applications worldwide where the Screener Crusher Bucket is used and more and more applications are found every day, thanks to the imagination of the advanced Screener Crusher Customers.

All kinds of work in the landfills and composting areas are an important application for the Screener Crusher Bucket. It crushes bio waste, mixes in bulking agents into the compost or contaminated soils to be cleaned, it aerates the compost in order to speed up the composting process and screens the ready compost. It's also possible to mix e.g. peat or sand with compost when loading the ready compost for transport to the final destination. And this is not only for bio waste. The Screener Crusher Bucket does all of the described

things above when the material is sludge, household waste or similar. The process is the same, only the material is different.

The Screener Crusher Bucket is not a stone crusher, but it crushes softer materials performing an excellent crushing result. It grinds materials like demolition waste, bricks, light construction concrete, granulated asphalt, glass, waste bark for heating plants, chalk stone, lime stone, soft stones in general, porcelain just to mention a few. One important thing in some crushing applications is that metallic parts do not damage the bucket.

In screening applications, all screening jobs which do not require 100 % less than 20 mm fragment size of the final product is a direct application for the bucket. One of the most important advantages when doing screening with the Screener Crusher Bucket is that it's able to screen with high capacity even when the material is soaking wet.

All mixing & blending of different soils or other materials together can easily be performed with the bucket. As examples are stabilization of sticky clay soil or wet peat in a swamp with i.e. chalk in order to make the load capacity of the soil higher. Soil remediation and filling of trenches at pipeline construction sites are one of the most rapid growing tasks for the Screener Crusher Buckets.

One increasing application for the Screener Crusher Bucket is also to use it as a pre screener, crusher and feeder to a stationary screening plant when screening fine fragment sizes. When doing it this way it's possible to take out the big particles before entering the screening plant (reducing wear and tear), crush big dirt lumps before entering (reducing the amount of over size which in normal case would never enter the mobile screen) and pulverize the material when working in wet conditions. In such way it's possible to reach even 40 percent higher production capacity and continue the season in spring and autumn.

Ten years history of the Screener Crusher Bucket

The Screener Crusher principle has been developed ten years ago by a Finnish company Ideachip Oy. It has also patented the main inventions in several countries. Since then new characteristics and new models have been developed for increasing amount of new applications.

The Screener Crushers are produced in many different sizes and they can be used all size of the base machines, starting from a skid steer loader and ending up to 25 tn wheel loader or 35 tn excavator.

Ideachip, the leading supplier of Screener Crusher Buckets world wide

Ideachip sell the Screener Crusher Buckets world wide under trade name ALLU. At this moment Ideachip has sold the ALLU's to appr. 40 countries and is the leading manufacturer of the Screener Crushers world wide, covering more than 80 percent of the market. In USA the ALLU processing bucket has become such a concept that the Customers are today not any more speaking about screening, crushing or aerating when working with ALLU, but using term "ALLUISING".

Ideachip's head office and production facilities located in Lahti, Finland with own subsidiaries or representative offices in USA, Germany, France, UK and China. Ideachip is strongly associated with quality and concern for the environment.

Advantages of the ALLU Screener Crusher Bucket

- more work opportunities with one single machine
- screens, crushes, pulverizes, mixes, aerates in one step
- capability to process a wide range of different materials
- higher capacity than with conventional machines
- capable to process wet and sticky materials
- reliable and ultimate ease in maintenance
- radically reduced investment costs
- more profit to the owner
- easy transportation



Picture 1. ALLU SM Screener Crusher Bucket



Picture 2. ALLU SM assembly line at Ideachip's factory Finland



Picture 3. ALLU SM aerating compost in Germany



Picture 4. ALLU SM filling pipeline in Ireland



Picture 5. ALLU SM crushing glass in Finland