





# ALLU ATTACHMENT



## ALLU Screener Crusher

### - hydraulic attachment for wheel loader, excavator or skid steer

With ALLU Screener Crusher you can screen, crush, pulverise, aerate, blend, mix, separate, feed and load materials all in one stage.

This versatile accessory can process many types of material such as topsoil, black top and dirt, excavated and waste soil, contaminated soil, clay, peat, bark, compost, biowaste, demolition waste, construction waste, milled asphalt, glass, coal, oil shale, lime stone and several other materials.

ALLU Screener Crusher can screen and crush materials from 15 mm to 150 mm fragment sizes.

### Widest range on market

ALLU has the widest range of screening buckets and screener crushers on the market. The units fit for almost any base machine size starting from the most compact ALLU DL Series to the massive ALLU M Series that will fit up to 160 tonnes excavator.

#### Excavator

weight (t)	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160
DL																
D																
M																

#### Wheel loader

weight (t)	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160
DL																
D																
M																

### Working principle



#### PHASE 1

» Start



#### PHASE 2

» Screening & Crushing of material  
» Normal drum rotation  
» Optimal material flow and circulation  
» Minimal vaulting  
» Approx. 2/4 of full bucket



#### PHASE 3

» Reversed drum rotation  
» Approx. 1/4 of full bucket



# APPLICATIONS



With ALLU you can process different materials such as topsoil, black top and dirt, excavated and waste soil, contaminated soil, clay, peat, bark, compost, bio waste, demolition waste, construction waste, milled asphalt, glass, coal, oil shale, lime stone and several other materials.

Look for more applications from [www.allu.net](http://www.allu.net)



### Pipeline and cable excavation

By using ALLU Pipeline Padder the excavated soil does not have to be transported away and replaced with new soil. This means significant savings in material and transport costs. No time is lost when waiting for replacement material. At the same time binders can be mixed, if the job requires stabilization.



### Industrial applications

Often in industrial applications big particles in the material flow cause problems in processes. With ALLU these big particles can be crushed and the material flow through e.g. conveyers is not interrupted. The unnecessary stops in feeding systems are often costly and time consuming.



### Composting , recycling and landscaping

ALLU Screener Crusher is versatile tool when you need to aerate or mix compost to speed up the composting process. By using ALLU mixing, aerating and crushing the bigger materials clumps can be easily done in one step operation.

This time saving operation is called ALLUizing.



### Soft rock crushing / mining

Crushing and loading the raw material is completed in one step. This reduces the need of buffer storage areas and material transportation.

Investment costs are lower compared to big stationary processing stations. Transportation from one site to another is easy and fast, no expensive special arrangements are needed. There is no need for on site electrics either.



Pipeline



Industrial



Composting



Mining



# ALLU DL SCREENER CRUSHER





## ALLU DL Screening buckets for compact base machines

ALLU DL Screening buckets are suitable for excavators max. 12 t, loaders max. 8 t, tractors and backhoe loaders.

The core of the ALLU DL Screening bucket is the unique top screen where the screening blades spin between the top screen combs. The end product size is defined by the space between the combs. DL units are an excellent choice for screening topsoil, compost and peat and are therefore perfect tool for landscaping applications.

### Specifications

Model	Recom. Excavators t	Recom. Wheel loaders t	Volume m <sup>3</sup>	Hydr. oil flow l/min	Weight 25 mm TS kg
DL 2 - 09	4 - 12	2 - 8	0,4/0,5	40-70	430
DL 2 - 12	7 - 12	3 - 8	0,5/0,6	40-70	540
DL 2 - 17	9 - 12*	4 - 8	0,8/0,9	40-70	695

### Options

#### Blades

Standard blades  
Axe blades

#### Other

Extra side  
Stabilisation drum  
Drum cassettes (TS15, TS25 and X50)



### Main application areas

Landscaping  
Top soil screening



\* Factory confirmation required

# ALLU D SCREENER CRUSHER





## Reliable tool for multiple screening and crushing tasks

ALLU Screener Crusher is a versatile accessory for screening, crushing, pulverising, aerating, blending, mixing, separating, feeding and loading materials all in one stage.

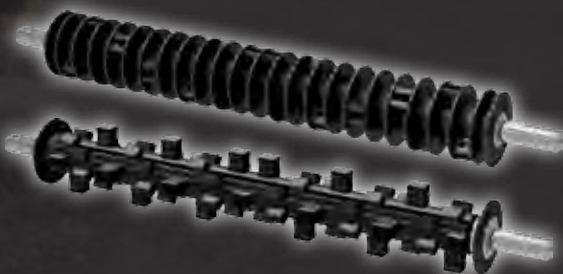
ALLU Screener Crusher can process many types of materials such as topsoil, black top and dirt, excavated and waste soil, contaminated soil, clay, peat, bark, compost, bio waste, demolition waste, construction waste, milled asphalt, glass, coal, oil shale, lime stone and several other materials.

### Specifications

Model	Recom. Excavators t	Recom. Wheel loaders t	Volume m <sup>3</sup>	Hydr. oil flow l/min	Weight 60 mm drums kg
DN 2-09	10 - 28	4 - 14	0,5/0,6	70-120	940
DN 2-12	12 - 28	6 - 14	0,6/0,7	70-120	1 070
DN 2-17	15 - 28	7 - 14	0,9/1,0	70-120	1 330
DN 3-09	12 - 28	6 - 14	0,7/0,8	70-120	1 150
DN 3-12	16 - 28	7 - 14	1,0/1,2	95-160	1 330
DN 3-17	20 - 28	7 - 14	1,3/1,5	95-160	1 660
DS 3-12	16 - 35	8 - 22	1,0/1,2	95-160	1 620
DS 3-17	20 - 35	9 - 22	1,3/1,5	95-160	1 990
DS 3-23	24 - 35	12 - 22	1,7/2,0	120-200	2 360
DS 4-12	20 - 35	10 - 22	1,2/1,4	95-160	1 940
DS 4-17	24 - 35	12 - 22	1,8/2,1	120-200	2 400
DS 4-23	30 - 35*	14 - 22	2,3/2,7	120-200	2 930
DH 3-12	18 - 45	8 - 30	1,0/1,2	140-235	1 890
DH 3-17	22 - 45	10 - 30	1,3/1,5	140-235	2 330
DH 3-23	26 - 45	14 - 30	1,7/2,0	140-235	2 870
DH 4-12	22 - 45	10 - 30	1,2/1,4	140-235	2 240
DH 4-17	27 - 45	14 - 30	1,8/2,1	140-235	2 770
DH 4-23	32 - 45	16 - 30	2,3/2,7	190-315	3 370
DH 4-27	36 - 45*	18 - 30	2,9/3,4	240-400	4 140

### Options

Drums	Blades	Other
40 mm drum	Universal blades	Extra side
60 mm drum	Long blades	Directional valve
Stabilisation drum	X blades	Drain oil eliminator
		Drain line relief valve
		ALLU DARE Data Reporting System



### Main application areas

Waste material handling  
Composting  
Pipeline backfilling/padding  
Stabilising clay  
Crushing asphalt, minerals...



\* Factory confirmation required

# ALLU TS SCREENER CRUSHER





## For fine screening and crushing, one unit - two fragments

Unique ALLU TS structure enables two different fragment sizes from same unit. Fragment size estimation is based on screening comb distance. It is quick and easy way to change from a one screening job to another. More versatile processing!

Due to ALLU TS's self cleaning design, it allows the best possible capacity even with wet material. We call this innovative design a non-clogging structure.

### Specifications

Model	Recom. Excavators t	Recom. Wheel loaders t	Volume m <sup>3</sup>	Hydr. oil flow l/min	Weight TS 25 kg
DN 2-12 TS	12 - 28	6 - 14	0,6/0,7	95-160	1 100
DN 2-17 TS	15 - 28	7 - 14	0,9/1,0	95-160	1 380
DN 3-12 TS	16 - 28	7 - 14	1,0/1,2	125-160	1 410
DN 3-17 TS	20 - 28	9 - 14	1,3/1,5	160-200	1 790
DS 3-12 TS	16 - 35	8 - 22	1,0/1,2	120-200	1 670
DS 3-17 TS	20 - 35	9 - 22	1,3/1,5	120-200	1 990
DS 4-12 TS	20 - 35	10 - 22	1,2/1,4	120-200	1 940
DSH 3-23 TS	24 - 35	12 - 22	1,7/2,0	140-235	2 360
DSH 4-17 TS	24 - 35	12 - 22	1,7/2,0	140-235	2 540
DSH 4-23 TS	30 - *	14 - 22	2,3/2,7	190-315	3 160
DH 3-12 TS	18 - 45	8 - 30	1,0/1,2	190-315	1 970
DH 3-17 TS	22 - 45	10 - 30	1,3/1,5	190-315	2 460
DH 3-23 TS	26 - 45	14 - 30	1,7/2,0	190-315	2 870
DH 4-12 TS	22 - 45	10 - 30	1,2/1,4	190-315	2 240
DH 4-17 TS	27 - 45	14 - 30	1,8/2,1	190-315	2 940
DH 4-23 TS	32 - 45	16 - 30	2,3/2,7	190-315	3 370

Note! DH and DSH models equipped with double motors.

### Options

Drums	Blades	Other
TS 16/32 drum	TS Standard blades	Extra side
TS 25/50 drum	TS Axe blades	Directional valve
TS 35 drum		Drain oil eliminator
		Drain line relief valve
		ALLU DARE Data Reporting System



### Main application areas

Waste material handling  
Composting  
Pipeline backfilling/padding  
Field bark crushing...



\* Factory confirmation required

# ALLU M SCREENER CRUSHER





## ALLU M Series for soft rock crushing

ALLU M Series mounted on an excavator is recommended for primary work in the mines, because of work speed & reach which results in almost double the processing capacity compared to a slow moving wheel loader as carrier.

ALLU M Series mounted on wheel loaders are recommended for secondary and service work for instance at harbours, power plants and storage areas, due to the mobility of the equipment.

The ALLU M series attachment provides an easy and very efficient solution when solving any problems in production or in the transportation of material heaps that are frozen in winter or clogged up because of moisture.

ALLU M Series is a hydraulic attachment powered by the carrier and it requires 2-way auxiliary hydraulic circuit installation.

## Specifications

Model	Recom. Excavators t	Recom. Wheel loaders t	Volume m <sup>3</sup>	Weight kg
M 3-20	50 - 70		3,8	7 000
M 3-25	70 - 120		4,7	9 000
M 4-25	120 - 160		6,2	12 000
M 3-27		30 - 50	4,5	7 500
M 3-32		50 - 70	6,5	10 500
M 4-32		60 - 90	8,5	13 500

## Options

### Drums

XHD 50 mm Drum

X75 Drum

Customized drum options available

## Main application areas

Mining operations

Secondary operations at  
harbours, power plants  
and storage areas



# FEATURES AND BENEFITS



## Efficient

- » Produces homogenous end product
- » High production even with wet materials
- » Self cleaning design
- » 30% bigger volume with extra sides

## Material flows easily

- » No nuts and bolts in the material flow

## Strong & Reliable

- » Fenders protect bearings against dirt
- » Heavy duty welded frame construction and wear parts made of special wear resistant steel
- » Built in power adjustment valve
- » Motors placed inside the frame to avoid any damages from the outside

## Long transmission life time

- » Lubrication grease inside the chain boxes





#### **Adaptability from jobsite to another**

- » Changeable blades

#### **Easy & comfortable to work with**

- » Processes material with one start-up without any back and forth rotation
- » High torque power transmission ensures powerful start-up and rotation

#### **Quick & Easy maintenance**

- » Service hatches behind the machine

#### **Your carrier, your way of working**

- » Can be mounted as front shovel or backhoe

#### **Easy mounting**

- » Adapter plates are easy to change

#### **Built for use**

- » Rigid frame design and strong power transmission

# SPARE PARTS - ACCESSORIES

With ALLU Spare Parts and Accessories you will be able to customize your ALLU as you wish for the application and situation needed.

By choosing the original, high quality, ALLU spare parts and accessories you'll ensure best possible working efficiency and a long lifetime for your ALLU.



Analyze and improve the working efficiency with ALLU DARE Data Reporting System.

ALLU DARE records performance and process data for analyzing and optimizing working efficiency.

It shows performance and process data to the operator.

It also gives possibility to monitor the working efficiency regardless of the location.

Production data from the display unit:

- ▶ Bucket count
- ▶ Processing time & total working time
- ▶ Processed tons

**ALLU DARE DATA REPORTING SYSTEM** - For better working efficiency





### Screening and crushing (25, 40 and 60 mm )

» changeable blades



### Stabilising, mixing, aerating and crushing (X75 and X100)

» changeable blades



### TS Screening drum

» changeable blades  
» change of fragment size without dismantling drums



### TS Crushing drum

» changeable blades  
» change of fragment size without dismantling drums

## ALLU DRUMS

For all screening applications. **TS Standard blade**

For crushing applications. **TS Axe blade**

- » 16 mm (3/4")
- » 2 x 16 mm = 32 mm (1 1/4")
- » 25 mm (1")
- » 2 x 25 mm = 50 mm (2")
- » 35 mm / (1 1/2")

### TS Blade options

For most applications and materials. Good durability.  
40 / 60 mm. **Universal blade**

Special blade for screening and aerating compost and other soft materials to increase capacity.  
40 / 60 mm. **Long blade**

For stabilising, mixing, aerating and crushing.  
Suitable for X75 and X100 drums. **X blade**



## ALLU BLADES



**ALLU - ONE STEP AHEAD**







## REDUCE COSTS

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- Landfill payments
- Transportation costs
- Investment costs
- Labour costs
- Maintenance costs

## INCREASE PROFITS

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- + More material to utilize and re-use
- + Faster process
- + Efficient material processing
- + Low operation costs

## GO WITH THE PRO

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- ▶ Strongest frame structure on the market
- ▶ Strongest power transmission on the market
- ▶ Most versatile on the market
- ▶ Patented construction and details
- ▶ Worldwide sales and service network

# ***ALLU, 30 years of experience at your service!***



The ALLU attachments are designed to perform cost-effectively on demanding job sites and materials so you can work faster and improve profitability.

The ALLU attachments are known for their reliability and superior quality for already 30 years.

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