



# **ALLU TRANSFORMER D-SERIES.**



**TRANSFORMER.™**

**ALLU.NET**

# IT TRANSFORMS...



## YOUR EFFICIENCY

One stop shop process. Screen, crush, aerate, mix and load all in a "one-step operation".



## YOUR PROFITS

Less material to a landfill means less expenditure. Re-use the material on site, so there is no need to purchase virgin material. Recycle and utilize the left-over materials and generate an income from it.



## YOUR GREEN CREDENTIALS

Less material to be transported to the jobsite means a reduction in fuel consumption. Less materials to a landfill and efficient utilization of waste materials supports sustainability.



## YOUR MACHINES

Your excavator, wheel-loader or skid-steer will transform into a multifunctional tool that will screen, crush, aerate, mix, load and pulverize all in a one-step operation - the ALLU Transformer screener crusher.

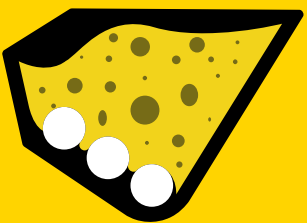
# ALLU TRANSFORMER FEATURES & BENEFITS.

The ALLU Transformer D-series screener buckets are designed for larger processing jobs. Everything from aerating compost, primary on-site screening and processing construction material. This is a bucket which screens, crushes, pulverises, aerates, blends, mixes, separates, feeds and loads materials. And best of all, it transforms the materials you work with. It's more productive, and more profitable.

## HOW IT WORKS.

### PHASE ONE

- Start



### PHASE TWO

- Screening & crushing of material
- Normal drum rotation
- Optimal material flow and circulation
- Approx. 1/2 of full bucket



### PHASE THREE

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



## STRONG & RELIABLE

- Strongest frame structure on the market
- Strongest power transmission on the market
- Motors placed inside the frame to avoid any damages from the outside
- Fenders protect bearings against dirt
- Lubrication inside the chain boxes ensure long transmission lifetime

## EFFICIENT

- Produces homogenous end product
- High production even with wet materials
- Quick and easy to maintenance
- Screens material without back and forth rotation
- Self cleaning design (TS)

## VERSATILE

- Fits both excavator or wheel loader
- Can be mounted to an excavator both as backhoe and as front shovel
- Handles many different materials - also wet ones
- Changeable wear parts & adapter plates
- Patented construction and details
- Screen, crush, mix, aerate and load in 'one step operation'
- Worldwide sales and service network



# APPLICATIONS.

## EARTHMOVING



LANDSCAPING



ENERGY PADDING



TOPSOIL SCREENING



SOIL MIXING

## COMPOSTING



SCREENING



SHREDDING



AERATING



MIXING

## WASTE RECYCLING



MATERIAL MIXING



WASTE SHREDDING



OVERSIZE SCREENING



FROZEN/LUMPY  
WASTE CRUSHING

## QUARRYING



PREScreening



OVERBURDEN SCREENING



QUARRY WASTE MIXING



WASTE DEPOSIT  
SCREENING



# ENERGY INFRASTRUCTURE



GAS



UTILITIES



OIL



SOLAR & WIND

# DEMOLITION



SCREENING DEBRIS



PRECRUSHING



CRUSHING BRITTLE MATERIALS



CRUSHING HARD MATERIALS

# FROM MONEY-DRAINING TO MONEY-MAKING





# EXAMPLES OF CUSTOMER CASE STUDIES.



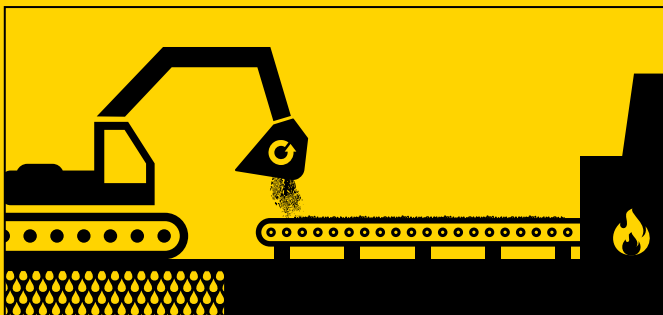
## PIPELINE PADDING

**PROBLEM:** ROCKY SOIL  
**JOB SITE:** PIPELINE JOB SITE  
**SIZE:** 250KM (157 MILES)  
**COUNTRY:** USA

**SOLUTION** MATERIAL IS SCREENED  
ONSITE AND BACKFILLED  
WITH ALLU TRANSFORMER  
DIRECTLY INTO THE  
TRENCH.

**RESULT**

- NO NEED TO PURCHASE FINE SOIL
- NO TRANSPORTATION COSTS
- NO LANDFILL PAYMENTS
- LESS ENVIRONMENTAL CONSUMPTION



## WASTE RECYCLING

**PROBLEM:** WASTE MATERIAL  
**JOB SITE:** WASTE CENTRE  
**SIZE:** 18 000 T/Y WASTE MATERIAL  
**COUNTRY:** THAILAND

**SOLUTION** PRE-CRUSHING THE WASTE  
WITH ALLU TRANSFORMER.

**RESULT**

- 50% MORE BIOMASS TO SELL TO THE POWER PLANT
- LESS WASTE MATERIAL TO THE LANDFILL
- LESS ENVIRONMENTAL CONSUMPTION



## CONTAMINATED SOIL

**PROBLEM:** CONTAMINATED SOIL  
**JOB SITE:** WASTE CENTRE  
**SIZE:** 2,5 HECTARES  
**COUNTRY:** FINLAND

**SOLUTION** PRE-TREATING THE  
CONTAMINATED SOIL WITH  
ALLU TRANSFORMER.  
SOIL IS STABILISED INTO A  
NON-TOXIC FORM.

**RESULT**

- SOIL IS UTILIZED IN EMBANKMENTS AT THE WASTE SITE
- NO NEED FOR WASTE TAX OR LANDFILL PAYMENTS



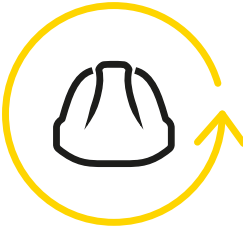
# ALLU APP.

Transform your efficiency and safety with ALLU App. The ALLU App provides an intelligent digital solution for customers and operators to obtain accurate and timely information regarding safe operations at job sites, thereby maximizing the use of the ALLU equipment.



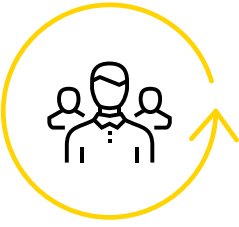
**YOUR  
PRODUCTIVITY**

- Notify about the need for maintenance or replacement of wear parts - minimize the downtime
- Real-time guidance for working angle ensures efficiency



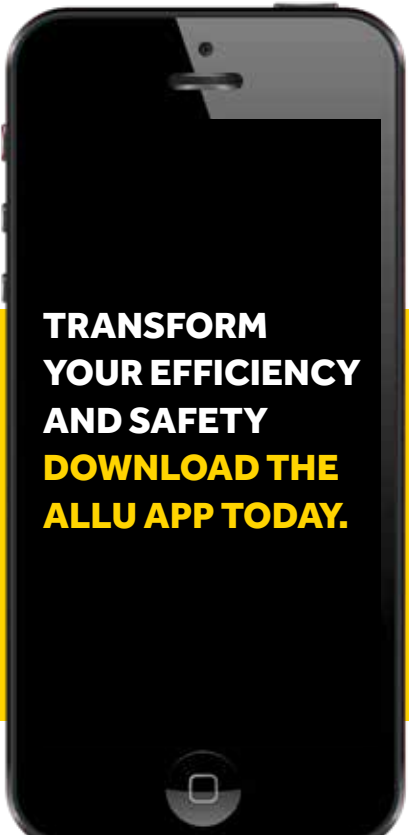
**YOUR  
SAFETY**

- Obtain accurate and timely information regarding safe operations at job sites



**EFFICIENT  
CUSTOMER SERVICE**

- Receive quick answers to frequently asked questions (FAQs)
- Check the right spare parts and accessories for your product
- Check the warranty information of your product
- Locate your closest ALLU distributor



**TRANSFORM  
YOUR EFFICIENCY  
AND SAFETY  
DOWNLOAD THE  
ALLU APP TODAY.**



Search for ALLU on the App Store or Play Store, or scan the QR code to get started.



## ALLU D SERIES SPECIFICATIONS.

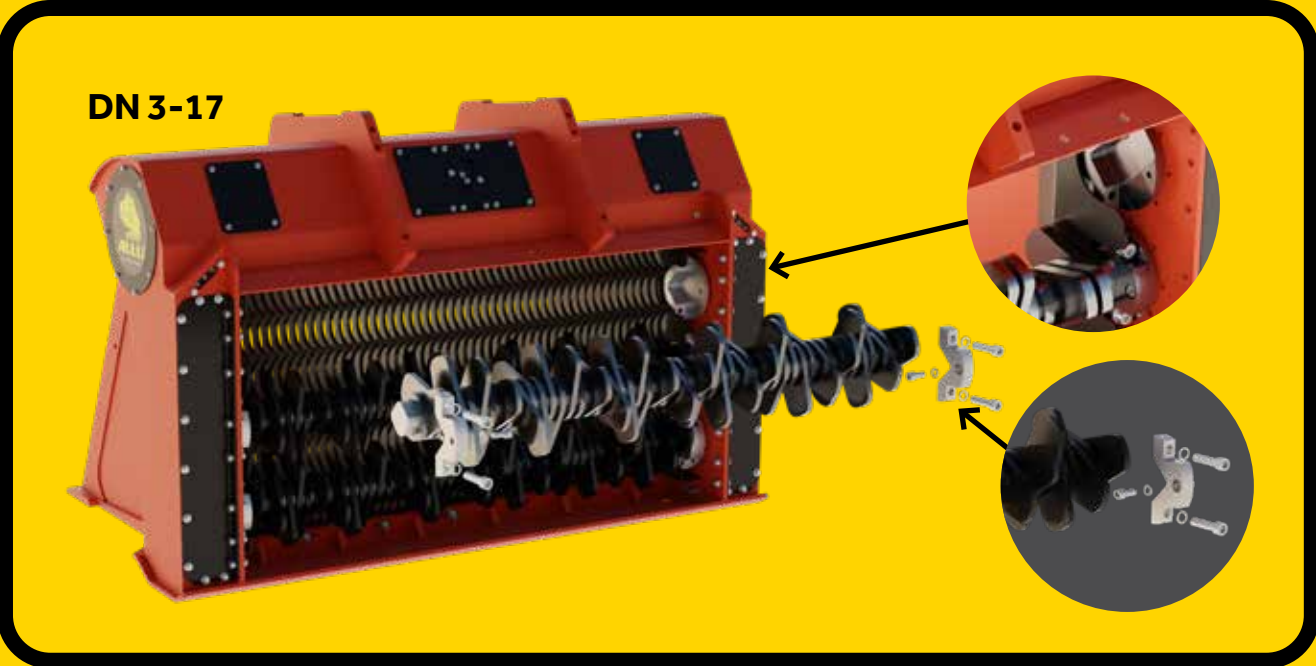
MODEL	EXCAVATOR		WHEEL LOADERS		VOLUME		OIL FLOW		WEIGHT	
	Tn	US Tn	Tn	US Tn	m³	cu yd	Lpm	Gpm	Kg	Lbs
DN 2-09	10-28	11.02-30.8	4-14	4.4-15.4	0.4-0.49	0.52-0.64	70-120	18.4-31.7	940	2072
DN 2-12	12-28	13.2-30.8	6-14	6.6-15.4	0.52-0.66	0.68-0.86	70-120	18.4-31.7	1130	2491
DN 2-17	15-28	16.5-30.8	7-14	7.7-15.4	0.76-0.99	0.99-1.29	70-120	18.4-31.7	1400	3086
DN 3-09	12-28	13.2-30.8	6-14	6.6-15.4	0.60-0.75	0.78-0.98	70-120	18.4-31.7	1220	2689
DN 3-12	16-28	17.6-30.8	7-14	7.7-15.4	0.79-1.01	1.03-0.9	95-160	25-42.2	1410	3108
DN 3-17	20-28	22-30.8	7-14	7.7-15.4	1.15-1.53	1.5-2.0	95-160	25-42.2	1760	3880
DS 3-12	16-35	17.6-38.5	8-22	8.8-24.2	0.83-1.04	1.09-1.36	95-160	25-42.2	1610	3549
DS 3-17	20-35	22-38.5	10-22	9.9-24.2	1.22-1.57	1.6-2.05	95-160	25-42.2	2000	4409
DS 3-23	24-35	26.4-38.5	12-22	13.2-24.2	1.61-2.10	2.11-2.75	120-200	31.7-52.8	2520	5555
DS 4-12	20-35	22-38.5	10-22	11-24.2	1.24-1.56	1.62-2.04	95-160	25-42.2	1930	4254
DS 4-17	24-35	26.4-38.5	12-22	13.2-24.2	1.82-2.38	2.38-3.11	120-200	31.7-52.8	2360	5202
DS 4-23	30-35	33-38.5	14-22	15.4-24.2	2.4-3.21	3.14-4.2	190-315	31.7-52.8	3020	6657
DH 3-12	18-45	19.8-49.6	8-30	8.8-33	0.85-1.07	1.11-1.4	140-235	36.9-62	1950	4298
DH 3-17	22-45	24.2-49.6	10-30	11-33	1.25-1.61	1.63-2.11	140-235	36.9-62	2400	5291
DH 3-23	26-45	28.6-49.6	14-30	15.4-33	1.65-2.16	2.16-2.83	140-235	36.9-62	2960	6525
DH 4-12	22-45	24.2-49.6	10-30	11-33	1.26-1.59	1.65-2.08	140-235	36.9-62	2280	5026
DH 4-17	27-45	29.7-49.6	14-30	15.4-33	1.85-2.43	2.42-3.18	140-235	36.9-62	2780	6128
DH 4-23	32-45	35.2-49.6	16-30	17.6-33	2.43-3.27	3.18-4.28	190-315	50.1-83.2	3490	7694
DH 4-27	36-45	39.6-49.6	18-30	19.8-33	3.02-4.12	3.95-5.39	240-400	63.4-105.6	4080	8994

## ALLU TS MODEL SPECIFICATIONS.

MODEL	EXCAVATOR		WHEEL LOADER		VOLUME		OIL FLOW		WEIGHT	
	Tn	US Tn	Tn	US Tn	m³	cu yd	Lpm	Gpm	Kg	Lbs
DN 2-12 TS	12-28	13.2-30.8	6-14	6.6-15.4	0.52-0.66	0.68-0.86	90-160	23.8-42.3	1160	2557
DN 2-17 TS	15-28	16.5-30.8	7-14	7.7-15.4	0.76-0.99	0.99-1.29	90-160	23.8-42.3	1420	3130
DN 3-12 TS	16-28	17.6-30.8	7-14	7.7-15.4	0.79-1.01	1.03-1.32	120-200	31.7-52.8	1440	3174
DN 3-17 TS	20-28	22-30.8	9-14	9.9-15.4	1.15-1.53	1.5-2.0	120-200	31.7-52.8	1830	4034
DS 3-12 TS	16-35	17.6-38.5	8-22	8.8-24.2	0.83-1.04	1.09-1.36	120-200	31.7-52.8	1630	3593
DS 3-17 TS	20-35	22-38.5	9-22	9.9-24.2	1.22-1.57	1.6-2.05	120-200	31.7-52.8	2010	4431
DS 3-23 TS	24-35	26.4-38.5	12-22	13.2-24.2	1.61-2.1	2.11-2.75	140-235	36.9-62	2620	5776
DS 4-12 TS	20-35	22-38.5	9-22	9.9-24.2	1.24-1.56	1.62-2.04	120-200	31.7-52.8	1940	4276
DS 4-17 TS	24-35	26.4-38.5	12-22	13.2-24.2	1.82-2.38	2.38-3.11	140-235	36.9-62	2520	5555
DS 4-23 TS	30-35*	33-38.5	14-22	15.4-24.2	2.4-3.21	3.14-4.2	190-315	50.1-83.2	3150	6944
DH 3-12 TS	18-45	19.8-49.6	8-30	8.8-33	0.85-1.07	1.11-1.4	190-315	50.1-83.2	1970	4343
DH 3-17 TS	22-45	24.2-49.6	10-30	11-33	1.25-1.61	1.63-2.11	190-315	50.1-83.2	2460	5423
DH 3-23 TS	26-45	28.6-49.6	14-30	15.4-33	1.65-2.16	2.16-2.83	190-315	50.1-83.2	3020	6657
DH 4-12 TS	22-45	24.2-49.6	10-30	11-33	1.26-1.59	1.65-2.08	190-315	50.1-83.2	2300	5070
DH 4-17 TS	27-45	29.7-49.6	14-30	15.4-33	1.85-2.43	2.42-3.18	190-315	50.1-83.2	2890	6371
DH 4-23 TS	32-45	35.2-49.6	16-30	17.6-33	2.43-3.27	3.18-4.28	190-315	50.1-83.2	3500	7716



# VARIABLE DRUM



Discover the latest innovation from ALLU—the Variable Drum, the new drum structure under our patented ALLU TS (Top Screen) design with a rapid blade change mechanism. Innovation that is designed to streamline your operations and boost your productivity up to 10%. It's available across our DN-, DS-, and DH-Series. The Variable Drum is a game-changer in material processing efficiency.

**Versatility Made Simple** - The Variable Drum brings flexibility to your workflow. Individual shaft removal allows for quick blade replacements or adjustments to output sizes, all within a matter of hours. This adaptability is crucial for those requiring varied operations from a single Transformer Screener Crusher bucket, enabling easy and fast modifications to meet job demands.

**Elevate Your Productivity** - Achieve superior screening performance with the Variable Drum, designed for up to 10% increase in efficiency over traditional drum setups. You can get higher output with fewer screening combs and less restriction on material flow. Adjusting output sizes is straightforward, allowing for more efficient operation with less effort.

**Effortless Maintenance** - The innovative design of the Variable Drum simplifies maintenance tasks. Its three-bolt drum attachment system allows easy changes. Changing wear parts or modifying output sizes has never been easier or cleaner, eliminating the need to access the drive compartment and significantly reducing labor time.

**VERSATILITY MADE SIMPLE**

Quick and easy changes of wear parts and output sizes.

**ELEVATE YOUR PRODUCTIVITY**

Up to 10% better efficiency with less effort.

**EFFORTLESS MAINTENANCE**

Simple maintenance with a quick lock system.



AVAILABLE VARIABLE DRUM MODELS & SPECIFICATIONS

MODEL	EXCAVATOR US (tn)	WHEEL LOADER US (tn)	VOLUME (cu yd)	OIL FLOW (gpm)	WEIGHT (lb)
DN 2-12	13.2-30.8	6.6-15.4	0,86	25-42.2	2359-2668
DN 2-17	16.5-30.8	7.7-15.4	1,29	25-42.2	2932-3329
DN 3-12	17.6-30.8	7.7-15.4	1,32	31.7-52.8	2932-3373
DN 3-17	22-30.8	7.7-15.4	2,00	31.7-52.8	3814-4255
DS 3-12	17.6-38.5	8.8-24.2	1,36	31.7-52.8	3461-3792
DS 3-17	22-38	9.9-24.2	2,05	31.7-52.8	4233-4784
DS 4-17	26.4-38.5	13.2-24.2	3,11	36.9-62	4938-5710
DH 3-12	19.8-49.6	8.8-33	1,40	50.1-83.2	4167-4586
DH 3-17	24.2-49.6	11-33	2,11	50.1-83.2	5137-5666
DH 4-17	29.7-49.6	15.4-33	3,18	50.1-83.2	6019-6724

ALLU VARIABLE DRUM BLADE OPTIONS



**TS Standard**  
Blade for screening e.g.  
soil, sand, and gravel.

Available blade sizes:  
8, 16, 25, 35



**TS Axe**  
Blade for screening and  
crushing tough or lumpy  
material.

Available blade sizes:  
8, 16, 25, 35



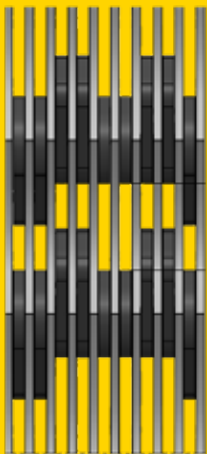
# ONE ALLU TWO FRAGMENT SIZES.

ALLU TS structure enables two different fragment sizes from the same unit.  
Fragment size estimation is based on the distance set by the screening comb.

The ALLU TS structure allows you to adapt your bucket for your screening needs quickly and effortlessly giving you the ability to have more versatile processing. The TS structure has been developed with a self-cleaning system allowing for the best possible capacity even with wet material. We call this innovative design a non-clogging system and is available across our entire TS range.

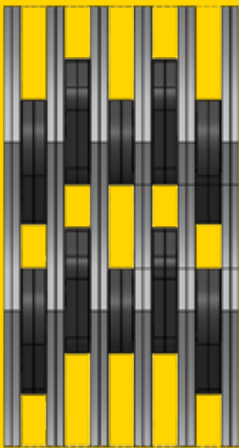
### SINGLE BLADE

Single blade setup:  
blade sizes 8mm, 16mm,  
25mm, 35mm.



### DOUBLE BLADE

Double blade setup:  
blade sizes 16mm, 32mm,  
50mm, 70mm.



## ALLU TS DRUMS & BLADES.

Innovative drum construction for screening and crushing applications



**TS Screening drum**  
■ changeable blades  
■ change of fragment size without dismantling drums



**TS Crushing drum**  
■ changeable blades  
■ change of fragment size without dismantling drums

**Characteristics:**  
08mm, 16mm, 25mm and 35mm drums

- Two different fragment sizes possible with one drum based on blade setup.
- Clog-proof construction



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



**TS Axe blade**  
For crushing applications.

**Applications:**

- Mixing and screening wet & sticky materials
- Crushing different materials

## ALLU XHD DRUMS & BLADES.

Screening and crushing – XHD 25, 40 and 60 mm



**Screening and crushing  
XHD 25/40/60**

■ changeable blades

**Characteristics:**  
Disc distance 25 mm, 40 mm, or 60 mm

**Applications:**

- Can be used in most screening, crushing and mixing applications.
- For customers who want to use the same bucket for different jobs.



**Universal blade 40 XHD**  
For most applications and materials. Good durability.



**Universal blade 60 XHD**  
For most applications and materials. Good durability.



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



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

## ALLU X DRUMS & BLADES.

Stabilizing, mixing, aerating, and crushing - X75 and X100



**Stabilising, mixing,  
aerating and crushing.  
Suitable for X75 and X100  
drums.**

■ changeable blades

**Characteristics:**

- Excellent mixing and pulverization capability combined with crushing effect.
- Clog-proof construction suitable.
- High processing capacity.



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

**Applications:**

- Mixing and stabilization of masses
- Crushing
- Pre-screening, pulverizing



# ALLU AROUND THE WORLD.

## HEADQUARTERS

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