



Coal Processing

CRUSHING – SCREENING – MIXING





A simple and durable solution that gets the **JOB DONE!**

What We Offer

- High capacity
- Multipurpose attachment | Coal crushing | Coal screening
- Coal crushing and coal rock (contaminates) removal in ONE STEP
- Coal crushing, screening and loading in ONE STEP
- Less fines
- Fuel production / coal mixtures (Power Plants)

REDUCED DOUBLE HANDLING OF COAL = REDUCED OPERATING COSTS



1STEP

Crushing and Feeding



1STEP

Crushing and Loading

Our Benefits

- Reduced double handling of coal.
- Coal crushing and loading in one step.
- Reduced running costs.
- Low capex equipment.
- Supreme mobility.
- Easy and flexible production equipment scaling - meet & match market demand.
- No external power source.
- Reduces down time risk – fast change solution in the event of machine malfunction.



Our solution can replace



SCREENING APPLICATIONS CRUSHING APPLICATIONS

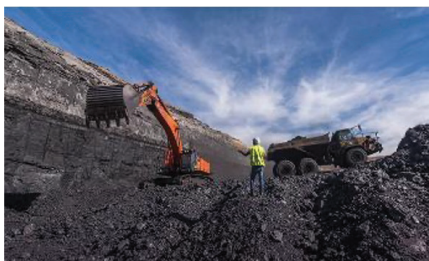
- | | |
|----------------------|-----------------------|
| • Stationary screens | • Stationary crushers |
| • Mobile screens | • Mobile crushers |
| • Trommels | |
| • Grizzlyls | |



From Money-Draining To Money-Making

Target Customers

- Open Pit mining
- Underground mining
- Coal storage facilities
- Coal classification sites
- Coal transportation depots
- Coal harbors
- Power Stations
- Heating plants
- Metallurgical factories



How It Works

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.

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

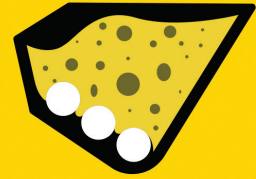
- Produces homogenous end product
- High production even with wet materials
- Quick and easy to maintenance
- Screens material without back and forth rotation
- Self cleaning design (TS)

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

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



Models recommended for coal

D-SERIES

Earth Moving Size Carriers



30-45t



12-30t

CRUSHING

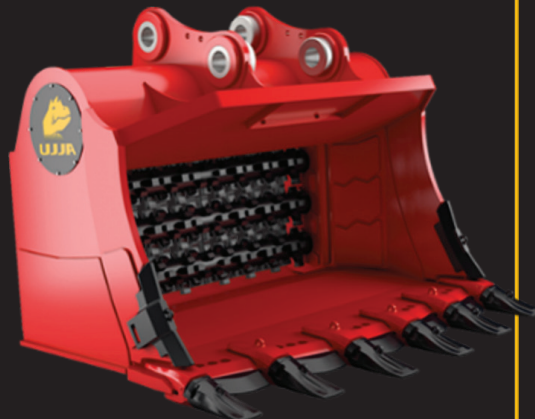
Metric - 0-1000mm

CAPACITY – mounted on excavator

3m³ (4yd³) bucket = +- 240 ton/h

M-SERIES

Mining Size Carriers



50-120t



35-70t

CRUSHING

Metric - 0-2000mm

CAPACITY – mounted on excavator

5 m³ (6,5yd³) bucket = +- 500 ton/h

BENEFITS | excavator vs. wheel loader

Average cycle time 45 seconds when operated on excavator.

For all types of coal



Lignite (brown) coal

Soft coal

ALLU crushability **EASY**
primarily used for
electricity



Sub-bituminous coal

Soft coal

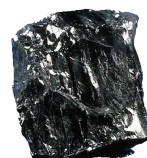
ALLU crushability **EASY**
primarily used for
electricity



Bituminous coal

Hard coal type

ALLU crushability: **MODERATE**
Used for electricity, heating,
“cooking”
Essential ingredient in steel
manufacturing



Anthracite coal

Hardest coal type

ALLU crushability: **HARD**
Used for heating
Used for water purification

Screening drums for different fragments



Drums & 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



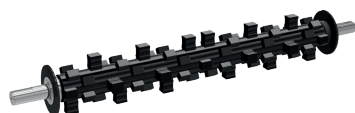
Screening and crushing

XHD 25/40/60

- Changeable blades

Characteristics:

Disc distance 25 mm, 40 mm, or 60 mm



Crushing Suitable for X50, X55, X75 and X100

Characteristics:

- Clog-proof construction suitable.
- High processing capacity.

Characteristics

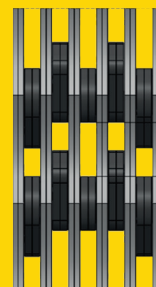
08mm, 16mm, 25mm and 35mm drums

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



Single Blade

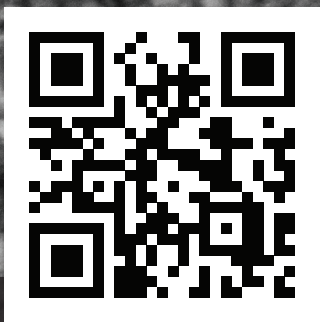
Single blade setup:
blade sizes 8mm, 16mm, 25mm, 35mm



Double Blade

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

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.



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