



SCREENING BUCKET

Screening

Crushing

Mixing

Aerating

Loading

Stabilizing



Anhui Motek Construction Machinery Co., Ltd.

www.motek.cn



About Us

Anhui Motek Construction Machinery Co., Ltd. is located in Hefei, Anhui. With over 20 years of experience in attachments R&D and manufacturing, we stand out as China's leading high-end attachment manufacturer. It is a national high-tech enterprise and a professional company integrating R&D, production, sales, leasing and technical services of construction machinery attachments.



MOTEK focuses on the R&D and production of construction machinery attachments such as crusher buckets, screening buckets, soil improvement products and drum cutters. We have formed a sales and service network all over the world with rich industrial experience in environmental remediation, solid waste disposal, in-situ solidification, demolition, dismantling and other fields.

Through our company's independently developed innovative patented technologies such as alloy blades, special material blades, drive systems, hydraulic control systems, and years of iterative optimization, our products have excellent stability, reliability, and cost-effectiveness. At the same time, our company can provide customized services based on customer requirements and actual working conditions to satisfy different customers.

Working Principle

MOTEK screening buckets are installed on general construction machinery (host), such as excavators and loaders.

Using the hydraulic power of the host machine, the rollers of the bucket are controlled by operating the foot valve.

The roller rotates in both forward and reverse directions to crush, mix and stir the materials in the bucket. The mixed materials fall under the action of the roller and the weight of the materials.

The loading process of materials by MOTEK screening bucket is the same as that of ordinary bucket. If the rollers do not move, the materials will not fall.



PHASE 1

- Loading materials



PHASE 2

- Roller rotates in the positive direction to crush and screen
- The roller with spiral line design transports the materials from both ends to the middle, ensuring screening effect and efficiency



PHASE 3

- Screening and crushing completed
- Impurities removed

Certificates

We possess 19 core patents, as well as other certificates including CE certificate, ISO 9001, SGS, Safety Production License, Quality Management System Certification and High-tech Enterprise Certificate. Our products have independent intellectual property rights.

MOTEK screening buckets are designed according to China's high-intensity and high-complexity working conditions and can also meet the needs of international customers.



Parts & Accessories

Hydraulic motor:

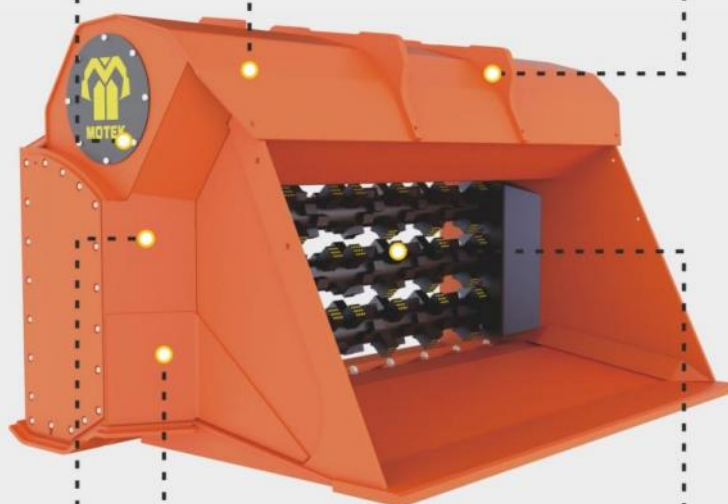
International top brand, stable, reliable, high torque. Unit power is much higher than ordinary hydraulic motors

Control valve block:

International top brand, Meet the needs of high-flow hydraulic systems, with large flow capacity and sensitive valve core action

Main frame:

International top brand, the yield strength is more than 3 times higher than that of ordinary steel plates with great wear resistance



Bearings:

International first-line brand, durable, high transmission efficiency

Chains:

International first-line brand, durable, high transmission efficiency. Excellent tensile strength and abrasion resistance, long service life

Shafts:

Screening cutter inlaid with carbide, super wear-resistant and durable. More than 5 times the wear-resistant products currently on the market

The core hydraulic parts of MOTEK screening buckets are all from international first-line brands, and the structural parts are made of high-strength wear-resistant steel. The product quality is stable with high efficiency.

Based on hard working conditions, MOTEK screening bucket is independently developed with a number of core patents, suitable for high-intensity and high-load working conditions at home and abroad.

The coarse screening buckets have 45mm and 75mm gaps for each series.

Customers can choose products with different gaps according to the construction condition.



L=75mm, outputs $\leq 75\text{mm}$ (90%)



H-75

L=45mm, outputs $\leq 45\text{mm}$ (90%)



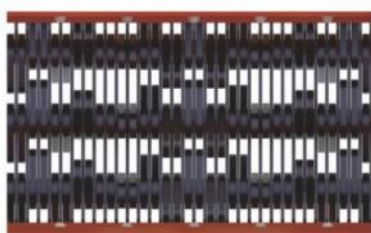
H-45

Model	Applicable Excavator (ton)	Applicable Loader (ton)	Bucket Capacity (m ³)	Hydraulic Flow (l/min)	Product Size (mm)	Weight (kg)
MTS204-H	5-10	2-8	0.32	50-100	1120*960*1000	540
MTS207-H	10-18	5-9	0.7	80-150	1545*1300*1180	1128
MTS312-H	18-25	9-14	1.2	120-200	1896*1502*1438	2010
MTS317-H	25-30	12-22	1.7	150-220	2276*1502*1438	2590
MTS320-H	30-45	14-30	2	200-320	2678*1502*1438	2900
MTS425-H	40-55	30-45	2.5	200-400	2678*1502*1695	3310
MTS430-H	45-60	35-50	3.0	250-450	3150*1502*1695	3950

We can provide fine screening buckets with different blade thicknesses.

Different blade thicknesses result in different outputs sizes.

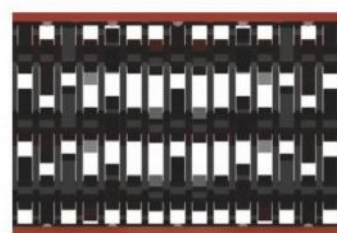
At present, MOTEK can provide blades with thicknesses of 8mm(can change to 16mm), 16mm(can change to 32mm), 25mm(can change to 50mm) and 35mm.



Blades thickness 25mm,
90% outputs size 25mm



same model can have 2
different outputs sizes
(combining 2 blades as
well as 2 grills)



Blades thickness 50mm,
90% outputs size 50mm

Model	Applicable Excavator (ton)	Applicable Loader (ton)	Bucket Capacity (m ³)	Hydraulic Flow (l/min)	Product Size (mm)	Weight (kg)
MTS204-DB	5-10	2-8	0.32	50-100	1120*960*1000	450
MTS207-DB	10-18	5-9	0.7	80-150	1545*1300*1180	1128
MTS312-DB	18-25	9-14	1.2	120-200	1896*1502*1438	2025
MTS317-DB	25-30	12-22	1.7	150-220	2276*1502*1438	2650
MTS320-DB	30-45	14-30	2.0	200-320	2678*1502*1438	3070



Remediation of Contaminated Soil

- The excavated materials are screened and crushed by MOTEK screening buckets to form a pile
- A solidifying agent or other additives are added to the pile according to the proportion
- The materials are mixed, stirred and aerated by MOTEK screening buckets
- The materials are mixed evenly by MOTEK screening buckets and then backfilled for use





Pipeline Fine Soil Backfilling

- Using MOTEK screening bucket with 16mm blades, 95% of the processed particles have a diameter less than 20mm, which can well meet the fine soil backfill requirements of pipelines.
- MOTEK screening bucket has changed the previous construction methods of pipeline foundation and backfill soil, reducing the construction cost and improving the efficiency of pipeline construction; it has improved the foundation quality of the pipeline, thereby increasing the service life of the pipeline. This construction technology can be widely used in the construction of water supply and drainage pipelines, gas and liquefied gas pipelines, power and telecommunication optical cable pipelines, etc.



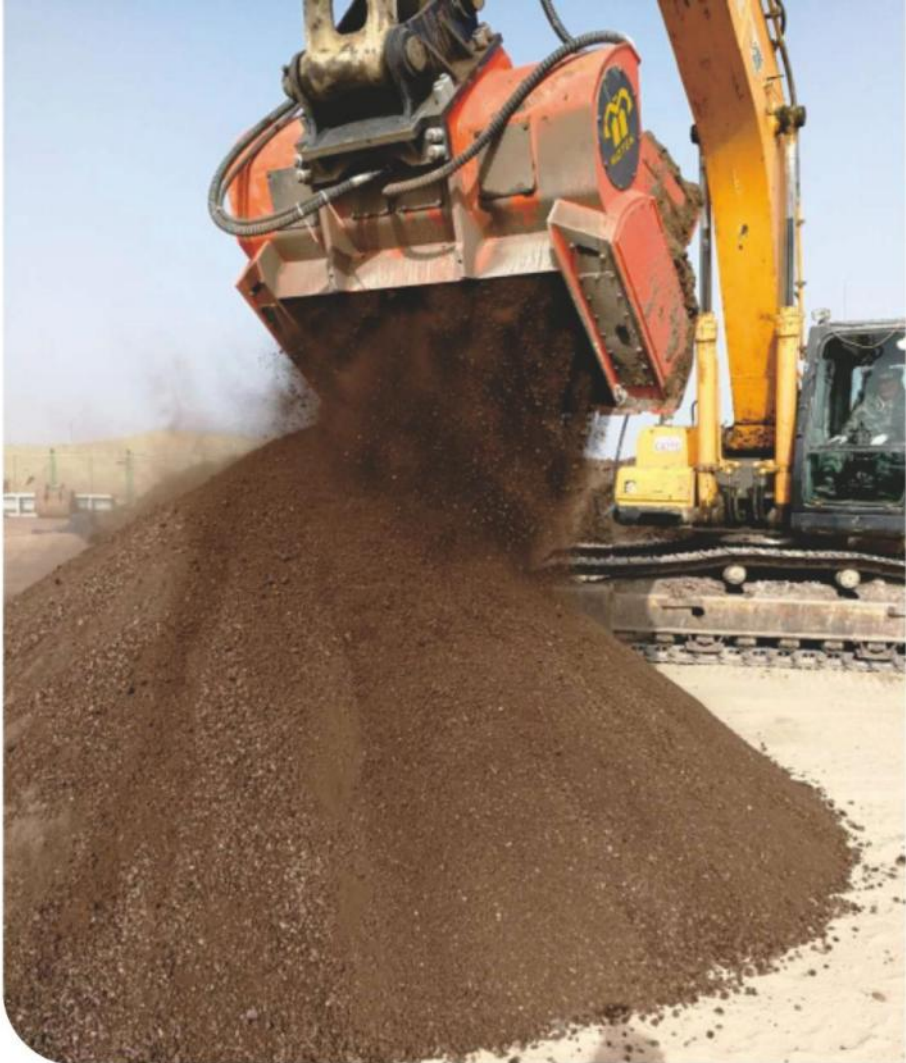
Used with Thermal Desorption Equipment

Using MOTEK DB series 25mm blade screening bucket, the diameter of the particles after crushing is basically controlled within 30mm, which well meets the needs of thermal desorption equipment, improves pyrolysis efficiency, and effectively treats organic pollution, sludge pollution, etc.



Oily Sludge Treatment

- MOTEK DB series 8mm or 16mm blade screening buckets can crush and screen the oily sludge.
- The diameter of the particles after treatment is small, and they can be directly purified by microbial degradation or thermal desorption in the later stage.





Tailings Treatment or Pebbles Screening

- In tailings treatment, there are many working conditions where soil is mixed with rocks, and traditional vibrating screens or drum screens cannot screen out the rocks at all.
- The use of MOTEK screening bucket can effectively solve the problem of being unable to screen well. Screening can be completed even if the moisture content is high.



Crushing, Screening and Aerating of Biocompost



- If a loader is equipped with MOTEK screening bucket to process biomass compost, one machine will have multiple uses.
- It can be used for crushing, screening, turning, and aerating, it can also be used for loading, reducing equipment investment.

Cooperated Excavators

DOOSAN



KATO



CATERPILLER



CASE



Cooperated Excavators



LiuGong

HITACHI



SANY



KOBELCO



Cooperated Excavators

VOLVO



HUNYDAI



KOMASTU



SUMITOMO

Cooperated Wheel loader





Factory Overview



Packing & Transportation



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