REMU

Screening Buckets

- Topsoil
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- Composting
- Industrial Applications
- Recycling
- Screening Peat
- Mine Clearance
- Stabilization

English

Topsoil

Preparing topsoil for landscaping, nurseries, sport fields and yards is probably the most common application for screening buckets. With screening, bucket material can be classified as clean, high quality topsoil without stone fragments, sticks etc. The screening bucket can also be used for mixing sand, clay and compost to achieve the desired mixture required for each usage.

Screening blade

x001

Screening crushing blade

x304

When more aggressive grinding or crushing is needed, we recommend the blade design above.

Grain size of screened material depends on blade spacing. When preparing topsoil the spacing is usually 27 or 32 mm (1″or $1\frac{1}{4}$″).

If the material needs to be transported, it can be screened directly to the truck.

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Padding Pipeline and Cable Excavation

The cost savings achieved when material from an excavation is screened on-site and used in the padding process of cable excavation makes this the fastest growing application for the screening bucket. Screening on-site, you save on both material costs and transportation. On-site bucket screening increases the time that machinery is used for profitable work by eliminating down time associated with waiting for the next sand truck.

When working with a screening bucket, you can screen the material from the excavation

- use it for padding
- dump the oversized material on top of the padding
- and even finalize the landscaping by using the topsoil from the job site

Screening blade

x001

This blade doesn't crush stones etc. and the final product is homogenous.

Normally required particle size for padding is 0–16 mm (–5/8"). With REMU screening bucket even the 0–8 mm (–5/16") grain size can be produced.

Composting

Green waste, bio waste, animal mortalities, manure and sewage sludge. Screening bucket is used for grinding the waste before composting and aerating the compost to accelerate the process. Furthermore, the screening bucket can be used for screening mature compost and mixing in other needed ingredients so that the final product is homogenous.

Screening blade

x001

This blade design is recommended for screening.

Screening crushing blades

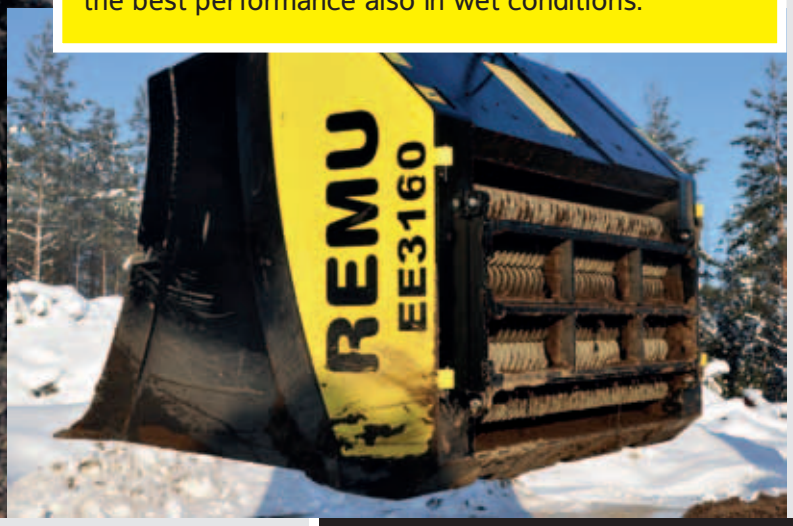
x304

x311

These blade models are used to grind wood sticks, bones, etc. X304 is also suitable for ripping of food casings.

Blade spacing is usually from 35 to 70 mm ($1\frac{3}{8}$" to 3"), since material is mostly wet and sticky.

Cleaning scrapers keep the rotators clean and ensure the best performance also in wet conditions.



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Industrial Applications

Grinding and classifying material is one of the most common applications. With a screening bucket and the right blade design, it is easy to process different chemicals or fertilizers that have lumps or frozen clods. By grinding and screening the homogenous mixture can be achieved while moving the material with a wheel loader.

Blade spacing depends on the quality of material and expected end product.

Screening blade

x001

This blade design is recommended for screening.

Screening crushing blade

x304

When more aggressive grinding or crushing is needed, this blade design is recommended.

Spiral rotors combined with crushing blades can effectively grind lumpy material. Spiral shaped configuration reduces needed power.

Recycling

In most cases, the first step is to separate fines from recyclable material. For example, sand can be cleared out of wood stumps before chipping and using in heating plants.

Sometimes recyclable materials have to be crushed or classified before those can be used again or processed further. With a screener-crusher bucket glass, gypsum board, tiles etc. can be crushed.

Screening blade

x001

Screening crushing blades

x304

x201

Screening Peat

As peat is very light material even the biggest screening buckets can be used for separating stones, stumps etc. The biggest REMU screening bucket has got volume of 5,5 m³ (7,2 yd³) (SAE).

Screening blade

x001

Screening crushing blade

x311

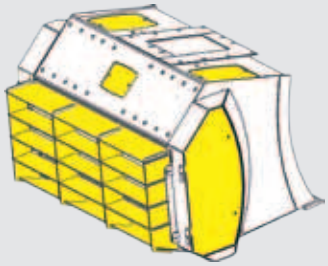
Mine Clearance

Special screening buckets can be used for clearing anti-personnel mines. In the areas where floodwater carries soil to rice fields, or desert where sand moves along with the wind, mines can be buried deep, out of the reach of mine clearance devices.

Screening blades

x001

x101



When bucket is manufactured for mine clearance purposes, standard bucket is reinforced and equipped with explosion director element.

Stabilization

Every now and then the wet soil at the construction site causes delays. To keep the construction work going, the structure of unstable, moist and clayish soil can be transformed by treating it with lime. Chemical reaction between lime and combined water effectively dries the soil.

The screening bucket is the perfect tool for mixing lime into the soil. Screening also reduces the size of clay fractions and speeds up the drying.

Screening blade

x001

Screening crushing blades

x304

x302

Screening – Screening Crushers

The screening bucket is made to genuinely classify and separate materials. In most applications it is more effective and economic to screen materials first. The screener crusher is a bucket that can be used for grinding and light crushing.

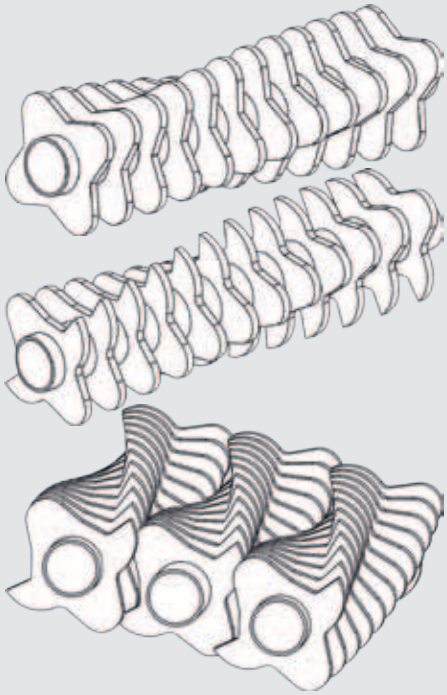
With proper blade choice and spacing it easily grinds

- grass lumps
- roots
- wood sticks
- glass
- tiles
- asphalt (with certain limitations)

The screener crusher is not suitable for crushing concrete or hard stones.

Spiral rotators

With spiral rotators REMU provides a new generation of screening pattern for challenging conditions. With this registered and protected design, screening and crushing can be done even more efficiently.



Heavy Duty – HD

HD structure gives you an advantage when a bucket is used in rough conditions and when heavy wearing can be expected. When you choose to have a heavy-duty version of the REMU bucket you will have the reinforced frame structure as pictured below.

Main cutting edge

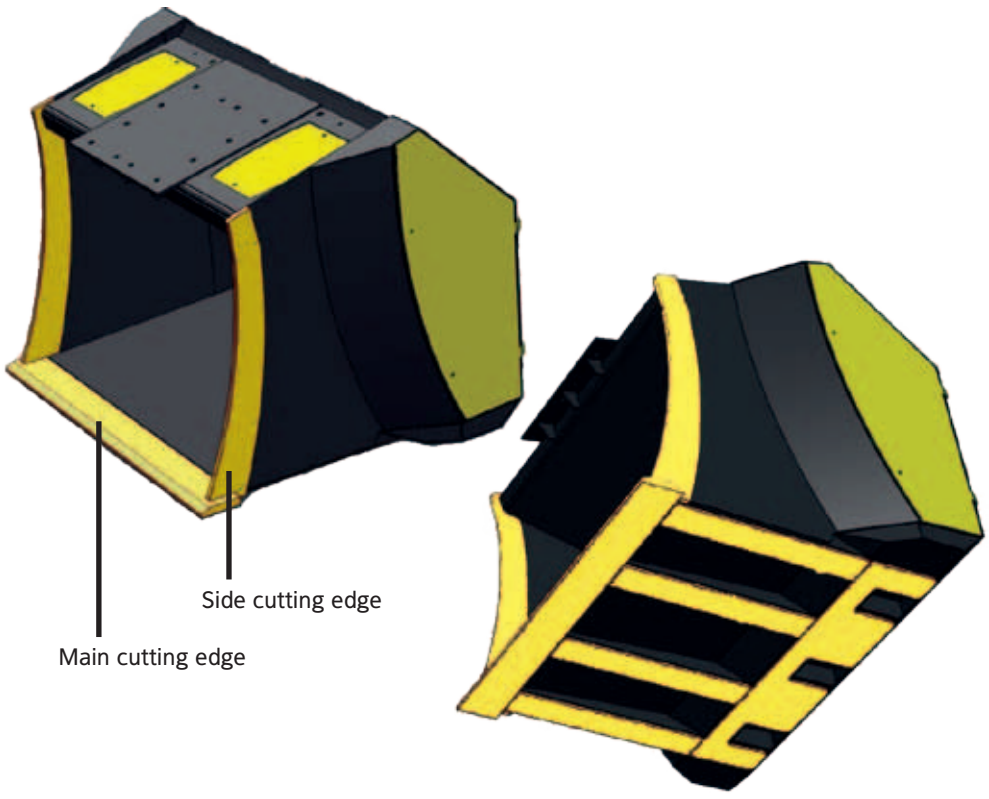
- EE Series:
  40 mm wear plate, HB500
- EP Series:
  25 mm wear plate, HB500

Side cutting edge

- EE Series:
  25 mm wear plate, HB500
- EP Series:
  16 mm wear plate, HB500

Extra reinforcement and protective plates added to the bottom of the bucket

- EE Series:
  10 mm wear plate, HB500
- EP Series:
  8 mm wear plate, HB500



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Technical Data

	Model	Carrier Size[1]		Hydraulic Flow[2]	Bucket volume	Screening area	Measures			Weight[3]	
		Excavator	Loader	Min - Max	ISO/SAE		Height	Width	Depth	Basic	HD
		Tons		l/min	m³	m²	cm			kg	kg
Metric units	EL 2085	3	1	23 - 60	0,15/0,18	0,2	64	109	63	240	N/A
	EP 2095	6	1,5	28 - 125	0,5/0,5	0,5	100	135	123	690	770
	EP 3095	8	2,5	28 - 125	0,6/0,7	0,5	119	135	123	840	940
	EP 2150	10	3	45 - 125	0,8/0,8	0,8	100	190	123	920	1030
	EP 3150	12	4	45 - 125	1,0/1,1	1,1	119	190	123	1140	1250
	EP 4150	16	5	55 - 250	1,3/1,4	1,4	139	190	123	1420	1490
	EE 3160	25	8	115 - 250	2,1/2,4	1,4	158	200	169	2300	2460
	EE 4160	28	10	150 - 250	2,7/3,0	1,8	180	200	169	2670	2830
	EE 3220	30	12	190 - 250	3,0/3,3	1,9	158	260	169	2830	3020
	EE 4220	35	15	180 - 250	3,7/4,2	2,5	180	260	169	N/A	3500
	EE 4290	40	21	180 - 250	4,8/5,5	3,3	180	330	175	N/A	4500
	EX 80	12	N/A	75 - 125	0,7/0,9	0,7	137	101	128	1300	N/A
	EX 140	16	N/A	150 - 250	0,9/1,1	0,9	137	126	128	1600	N/A
	EX 180	21	N/A	150 - 250	1,3/1,5	1,4	165	151	145	2360	N/A
		1000 lbs.		g/min	yd³	ft²	inch.			lbs.	lbs.
Imperial units	EL 2085	7	2	6 - 16	0,20/0,24	2,2	25	43	25	530	N/A
	EP 2095	13	3	7 - 33	0,6/0,7	5	39	53	48	1520	1700
	EP 3095	18	6	7 - 33	0,8/0,9	5	47	53	48	1850	2070
	EP 2150	22	7	12 - 33	1,0/1,1	9	39	75	48	2030	2270
	EP 3150	26	9	12 - 33	1,3/1,5	12	47	75	48	2510	2760
	EP 4150	35	11	15 - 66	1,6/1,9	15	55	75	48	3130	3290
	EE 3160	55	18	30 - 66	2,7/3,1	15	62	79	67	5070	5420
	EE 4160	62	22	40 - 66	3,5/3,9	19	71	79	67	5890	6240
	EE 3220	66	26	50 - 66	3,9/4,3	20	62	102	67	6240	6660
	EE 4220	77	33	48 - 66	4,8/5,5	27	71	102	67	N/A	7720
	EE 4290	88	46	48 - 66	6,3/7,2	36	71	130	69	N/A	9920
	EX 80	26	N/A	20 - 33	0,9/1,2	8	54	40	50	2870	N/A
	EX 140	35	N/A	40 - 66	1,2/1,4	10	54	50	50	3530	N/A
	EX 180	46	N/A	40 - 66	1,7/2,0	15	65	59	57	5200	N/A

1) Carrier minimum weight recommendations listed here are meant only for reference. For more accurate calculations concerning the lifting capacity and tipping load of the carrier, please contact the authorized dealer of the machine. Operating the bucket in carrier which is beyond the optimal weight range is possible as long as the operator is properly trained in matters concerning mechanical structure of the buckets frame.

2) Needed hydraulic flow and pressure may vary with different materials and selected configuration of hydraulic motors in bucket. For more detailed information on speed of rotors contact authorized REMU dealer.

3) Weight of the bucket and all other values in this table have been calculated for average operation of a screening bucket. To meet every customers special needs consulting of the authorized REMU dealer is highly recommended before purchase.

MORE V
Less Unnec
More production w

Even more volume with extra sides.

Double shaft structure keeps bearing safe from dirt and impacts and does not need extra plates to cover, it cleans itself every time when greasing.

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Technical Data

Particle size of screened or crushed material are matter of many circumstances like weather conditions, moisture, skills of operator, blade design, setting of counter blades, content of material etc. Approximate particle size is about 8 mm smaller than used blade spacing.

Blade spacing

Series EL	EP	EE/EX	Blade Spacing	Particle Size	Blade Spacing	Particle Size
			Metric units		Imperial units	
			mm	mm	inch.	inch.
x	x		15	0 - 8	5/8"	0 - 5/16"
x	x		18	0 - 11	3/4"	0 - 7/16"
x	x	x[1]	20	0 - 13	3/4"	0 - 1/2"
x	x	x[1]	25	0 - 18	1"	0 - 3/4"
	x		27	0 - 20	1"	0 - 3/4"
x	x	x	34	0 - 27	1 3/8"	0 - 1"
x	x	x	48	0 - 41	1 7/8"	0 - 1 1/2"
	x	x	60	0 - 53	2 3/8"	0 - 2"
	x	x	75	0 - 68	3"	0 - 2 3/4"

[1] not available in EE 4290

Boltable mounting for every machine type.

Can be installed shovel front or digging configuration.

Blade designs are registered community designs 001878158-0001–0011. Spiral rotors are registered community designs 001956780-0001–001956780-0004.

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