REMU

Screening Buckets

- Topsoil
- Padding pipeline & cable excavation
- Composting
- Industrial Applications
- Recycling
- Screening Peat
- Mine Clearance
- Stabilization

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Topsoil

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

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

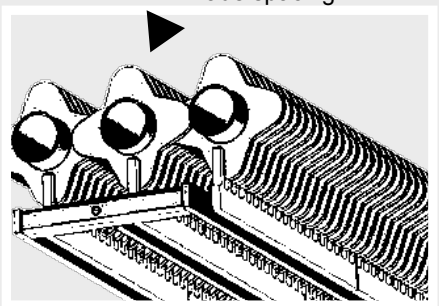
Screening blade, no. 2001/4001.

When more aggressive grinding or crushing is needed, we recommend blade models 2304/4304 SC.

Blade no. 2304 SC

Grain size of screened material depends on blade spacing. When preparing topsoil the spacing is usually 22 or 32 mm (7/8" or 1 1/4").

Blade spacing



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Padding Pipeline and Cable Excavation

Padding pipeline and cable excavation is the fastest growing application for screening bucket. The reason is savings that can be achieved by screening the material from the excavation on site and using that for padding. When screening on-site, you save the cost of padding material, transporting costs, and probably you will increase the time, when machinery is used for profitable work instead of waiting for the next sand truck.

When working with 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 bucket is easy to transport for the jobsite where the sand truck cannot go.

Normally required particle size for padding is 0-16 mm (-5/16”). With REMU screening bucket even the 0-8 mm (-3/8”) grain size can be produced.

Widely used blade model for padding is no. 4001. This blade doesn’t crush stones etc. and the final product is homogenous.

Half of the REMU buckets that are sold to the North America are for pipeline industry.

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Composting

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

For screening we recommend the blade 2001/4001.

When more aggressive grinding or crushing is needed, blade no. 4304 SC is recommended. This blade model is used to grind wood sticks, bones, etc. It is also suitable for ripping of food casings.

Also 4311 SC can be used for screener crusher bucket.

Blade spacing is usually from 35 to 70 mm (1 3/8" to 3"), since material is mostly wet and sticky.

REMU screening bucket has got cleaning scrapers specially designed to keep the blades clean when processed moist materials.

REMU sales personnel has long practical experience about materials and they can find suitable blade configuration for almost any material. In some cases it is necessary to see the material and make a test, before we can make our recommendation.

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Industrial Applications

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

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

For screening recommended blade model is 2001/4001.

When more aggressive grinding or crushing is needed, blade no. 2304/4304 SC is recommended.

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

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Recycling

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

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

Screening blade 2001/4001.

Screening crushing blades 2304/4304 SC and 2201/4201 SC.

Sometimes the screener-crusher buckets can also be used for grinding the asphalt. Depending on quality of asphalt, the toughness can vary making it difficult to predict the capacity or lifetime of the rotors.

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 2001/4001.

Screening crushing blade 4311 SC.

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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 2001/4001 or 2101/4101.

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.

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

Screening blades 2001/4001.

Screening crushing blades 2304/4304 SC and 2302/4302 SC.

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Screening - Screening Crushers

Screening bucket is made to genuine classify and separate materials. In most applications it is more effective and economic to screen material first. Screener crusher is bucket that can be used for grinding and light crushing. When bucket has configuration of grinding blades and proper blade spacing, it can easily grind grass lumps, roots, wood sticks and so on. It can also be used for crushing glass, tiles and asphalt with certain limitations. Screener crusher is not suitable for crushing concrete or hard stones.

Spiral rotators

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

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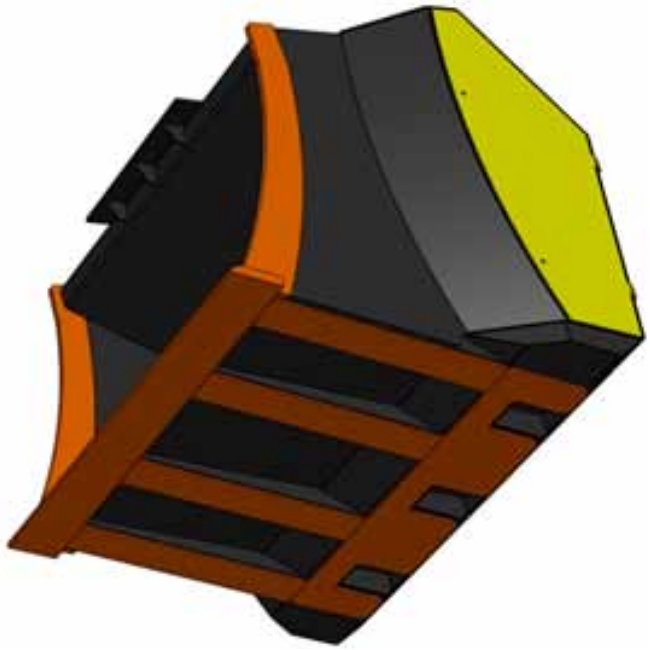
Heavy Duty - HD

HD structure gives you advantage when bucket is used in rough environment and when heavy wearing can be expected. When you choose to have heavy duty version of REMU bucket, you will have reinforced frame structure as shown in the picture, indicated with orange colour. In addition bucket is equipped with two hydraulic motors.

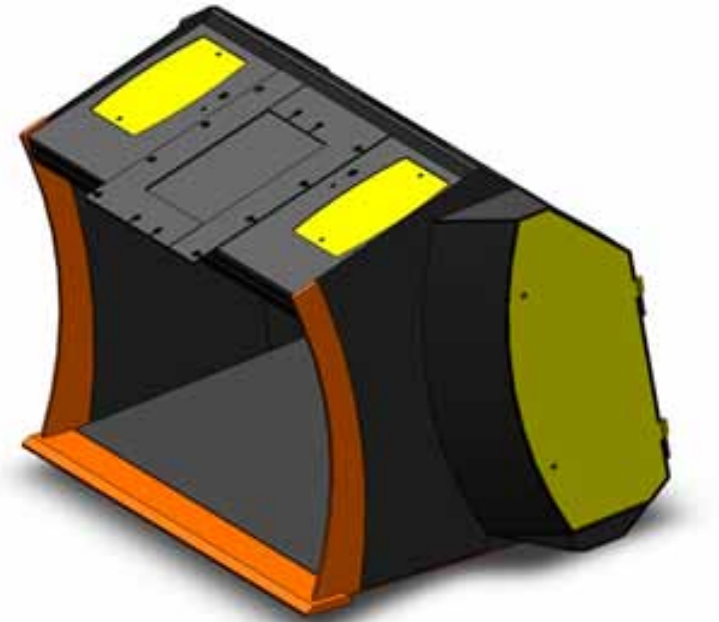
Differences of EE basic and HD -models

Main cutting edge: 40 mm wear plate, HB500.
Side cutting edge: 25 mm wear plate, HB500.



Extra reinforcement and protective plates added to the bottom of the bucket:10 mm wear plate, HB500.

Differences of EP basic and HD -models



Main cutting edge: 25 mm wear plate, HB500
Side cutting edge: 16 mm wear plate, HB500.

Extra reinforcement and protective plates added to the bottom of the bucket: 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
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.
EL 2085	7	2	6 - 16	0,20/0,24	2,2	25	43	25	529	N/A
EP 2095	13	3	7 - 33	0,6/0,7	5	39	53	48	1521	1698
EP 3095	18	6	7 - 33	0,8/0,9	5	47	53	48	1852	2072
EP 2150	22	7	12 - 33	1,0/1,1	9	39	75	48	2028	2271
EP 3150	26	9	12 - 33	1,3/1,5	12	47	75	48	2513	2756
EP 4150	35	11	15 - 66	1,6/1,9	15	55	75	48	3131	3285
EE 3160	55	18	30 - 66	2,7/3,1	15	62	79	67	5071	5423
EE 4160	62	22	40 - 66	3,5/3,9	19	71	79	67	5886	6239
EE 3220	66	26	50 - 66	3,9/4,3	20	62	102	67	6239	6658
EE 4220	77	33	48 - 66	4,8/5,5	27	71	102	67	N/A	7716
EE 4290	88	46	48 - 66	6,3/7,2	36	71	130	69	N/A	9921
EX 80	26	N/A	20 - 33	0,9/1,2	8	54	40	50	2866	N/A
EX 140	16	N/A	40 - 66	1,2/1,4	10	54	50	50	3527	N/A
EX 180	21	N/A	40 - 66	1,7/2,0	15	65	59	57	5203	N/A

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Technical Data

Series EL	EP	EE/EX	Blade Spacing mm	Particle Size mm	Blade Spacing inch.	Particle Size 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	13/8"	0 - 1"
x	x	x	48	0 - 41	17/8"	0 - 11/2"
	x	x	60	0 - 53	23/8"	0 - 2"
	x	x	75	0 - 68	3"	0 - 23/4"

[1] not available in EE 4290

1) Carrier (base machine) minimum weight recommendations listed here are meant only for reference. For more accurate calculations concerning the lifting capacity and tipping load of the base machine, 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.
4) 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 designs are registered community designs 001878158-0001 - 0011.

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Your dealer

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