VSE

Mini Exc. | Midi Exc. | Excav. | Backhoe

1.5 - 50 TON

SCREENING BUCKETS

VSE 2 | VSE 3 | VSE 5 | VSE 10 | VSE 20 | VSE 30 | VSE 40 | VSE 50

WATCH THE VIDEO

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INSTANT ADJUSTMENT OF OUTPUT SIZE (EXCEPT VSE 2, VSE 3 AND VSE 5).
With a simple control in the cabin, the Simex designed and patented mechanism allows the shafts to be distanced or closed by means of a hydraulic system. This feature makes it possible to vary the output size of the screened material instantly.
Alternatively, if the excavator is fitted with a double-acting auxiliary system, this adjustment is made using joysticks.

PRODUCTIVITY
Shafts are composed of elements with varying-sized disks that produce an intense whirling of the material to be screened.

FIT: NEW SCREENING TOOLS (EXCEPT VSE 2 AND VSE 3)
Easily replaceable screening elements, with different profiles for processing different materials.
Tool replacement is quick and does not require shaft disassembly.

EASY TO LOAD
Wide mouth, shaped as standard bucket.

SIMEX • patented •

Designed for separating different-sized materials directly on the work site, Simex VSE screening buckets for excavators are unique for their easy loading, very simple operation and high productivity. The exclusive Simex patent allows instant adjustment of output size of the screened material in only seconds via a control in the operator cabin.

FIT: THE SIMEX-PATENTED TOOL SYSTEM

The patented FIT tool system, which is modular and customizable, allows multiple configurations depending on the materials to be screened. Tools are easily and quickly replaced, thanks to interlocking elements with no welding, which means saving up to 75% in maintenance costs.

AVAILABLE CONFIGURATIONS:

RECYCLING CONFIGURATION

Indicated for: dry soils, with dry clay, gravel, silt and peat.

Recommended application: backfilling excavations and pipelines. Selecting demolition aggregates.

DISGREGATION CONFIGURATION

Indicated for: topsoil, plant waste, clay and peat.

Recommended application: Screening and aeration of compost, growing medium for the landscape and horticultural sector.

MIXED CONFIGURATION

Indicated for: humid soils, mixed with stones, gravel and clay. Light crushing of demolition waste.

Recommended application: screening plant waste, soil remediation of debris, stones and roots. Selecting demolition aggregates.

AGGRESSIVE CONFIGURATION

Indicated for: separating damp and wet material that tends to adhere to stones, roots and demolition waste. Greater crushing thanks to the presence of only toothed elements.

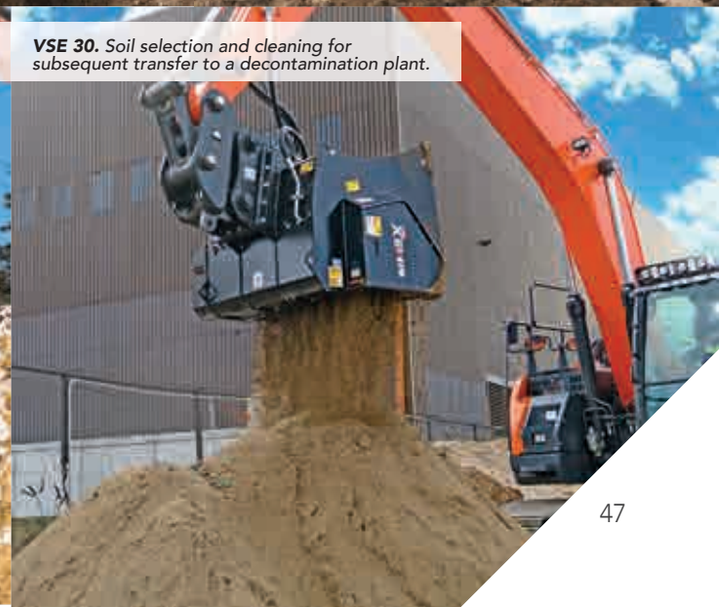
Recommended application: screening and separation of plant waste, clayey soils, very humid or wet demolition waste.

LEARN MORE ON PAGE 50

VSE 10. *Selecting excavation waste material for later reuse in backfilling water mains pipes.*

VSE 20. *Removal of natural soil aggregates for establishing new green areas within a construction site.*

VSE 40. *Construction of installation bed and later backfilling of underground conduits.*



VSE 30. *Soil selection and cleaning for subsequent transfer to a decontamination plant.*

VSE 30. *Aeration and screening of topsoil for later resale in horticultural field.*

VSE 10. *Separation of waste material from excavations for reuse as aggregates for road foundations.*

VSE 20. *Soil remediation of stones and debris for reuse in backfilling underground pipelines.*

VSE 2, VSE 3 AND VSE 5: GREEN AREAS AND HORTICULTURE

The smallest models in the range do not employ rapid output size adjustment but benefit from **high-performance tools**, made of different-sized disks, available in various configurations, depending on the application field. The VSE 5 model also benefits from the patented FIT tool system, which are modular and interchangeable tools to make maintenance and replacement of screening elements easier, thanks to interlocking discs with no welding, which means saving up to 75% in maintenance costs.

For **mini and midi excavators from 1.5 to 8 tons**, the VSE 2, VSE 3 and VSE 5 models are specifically designed for use in the **horticultural field**, for maintenance of **green areas**, for **gardening** and for soil remediation of roots and stones.

INSTANT ADJUSTMENT OF OUTPUT SIZE: SIMEX PATENT

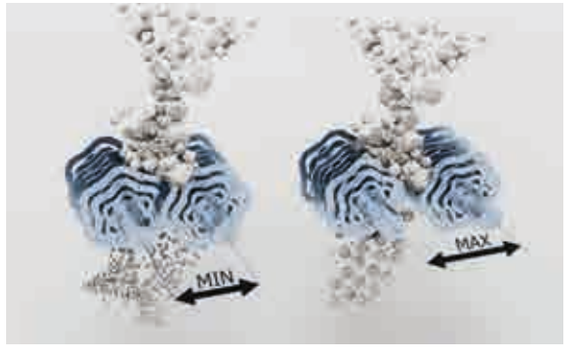
With a simple control in the cabin, the Simex designed and patented mechanism allows the shafts to be distanced or closed by means of a hydraulic system. This feature makes it possible to vary the output size of the screened material in only seconds.

The patented system allows distancing and closing the shafts on which the screening tools are fixed, with a maximum travel of 40 mm, to instantly change the particle size of the screened material.

This ensures the operator:

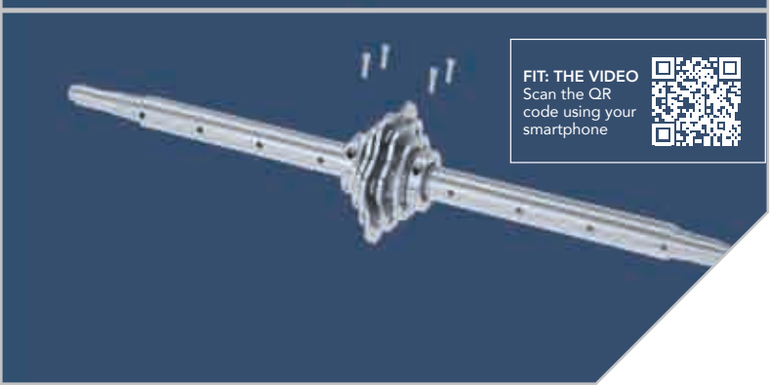
1. ***speed of execution***
2. ***considerable time saving***
3. ***high versatility***

In fact, it is possible to work on different materials, eliminating downtimes due to spacing the shafts or changing tools, as occurs with conventional systems.



With a simple control in the cabin, the operator can get **three different particle sizes of the output material with the same bucket**: a fine screening size of 0-15 mm, a medium particle size between 15 and 55 mm, and coarse aggregates greater than 55 mm.*

**Other sizes available on request*



FIT: THE VIDEO
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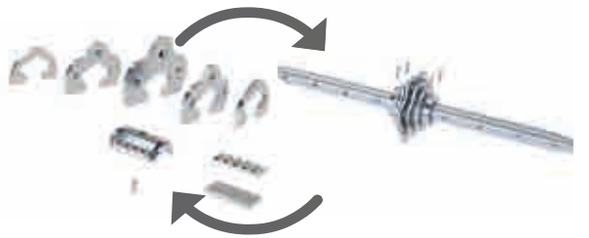
FIT: THE SIMEX-PATENTED TOOL SYSTEM

All models in the VSE range (with the exception of VSE 2 and VSE 3) benefit from the FIT screening tools, Simex patented, which allow the operator to get the best bucket configuration for the intended use and the material to be screened.

1 UP TO 75% LESS IN MAINTENANCE COSTS

The system features independent screening **elements**, which can be **dismantled and replaced individually**. The tools are then fixed to the shaft by means of clamps and two screws, with no welding. All this means saving up to 75% on maintenance costs (compared to the previous system). **Replacement**, in fact, **does not require shaft disassembly**: each element can be replaced individually, in a few minutes, directly on site.



2 HIGH PRODUCTIVITY EVEN WITH HUMID SOILS

Screening shafts are composed of disks of different diameters that interlock perfectly thus producing an intense whirling of the material. **Moist material is easily screened**, without the risk of sticking to the screening tools or the inside walls of the bucket.

3 MULTIPLE CONFIGURATIONS AND REPLACEABLE DISKS

The system allows multiple configurations depending on the materials to be screened. **Simex offers 4 configurations,** but others are possible thanks to the interchangeable disks that make up the screening tool. The new tools are backward compatible with the previous system.

FIT: MAIN CONFIGURATIONS

RECYCLING CONFIGURATION

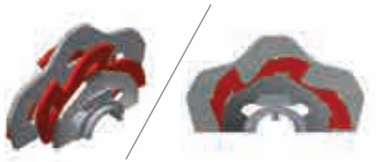
The recycling configuration is indicated for dry soils, for backfilling excavations and for separating waste demolition material.

DISGREGATION CONFIGURATION

The disgregation configuration, with central blade, provides light crushing of demolition waste or damp or clumped topsoil.

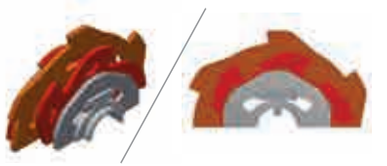
MIXED CONFIGURATION

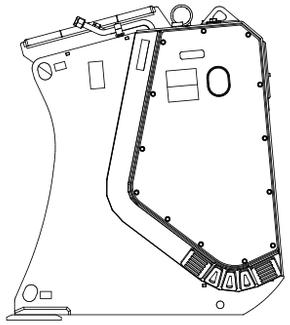
The mixed configuration is specific for screening topsoil, even humid or wet, for the agricultural, horticultural sector and for the restoration of green areas.

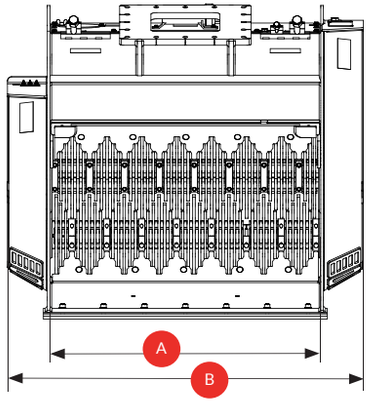


AGGRESSIVE CONFIGURATION

The aggressive configuration was created to handle more compact materials, whether of plant origin, or debris from construction and excavations, where in addition to separation it is necessary to shake off soil adhering to stones, roots, gravel and demolition waste.







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TECHNICAL DATA		VSE 2	VSE 3	VSE 5	VSE 10	VSE 20	VSE 30	VSE 40	VSE 50
Recommended excavator weight *(1) (2)*	ton *lbs*	1.5 - 3 *3300 - 6600*	*3 - 5* *6600 - 11000*	4 - 8 *8800 - 17500*	8 - 13 *17500 - 29000*	12 - 18 *26000 - 40000*	16 - 30 *35000 - 66000*	30 - 45 *66000 - 99000*	*35 - 50* *77000 - 11000*
Mouth width (A)	mm *inch*	510 *20*	*510* *20*	620 *24*	860 *34*	1100 *43*	1260 *50*	1340 *53*	*1420* *56*
Total width (B)	mm *inch*	715 *28*	*750* *30*	900 *35*	1220 *48*	1485 *58*	1650 *65*	1835 *72*	*1880* *74*
Bucket capacity (SAE)	m^3 yd^3	0.05 *0.06*	*0.12* *0.15*	0.20 *0.26*	0.40 *0.52*	0.70 *0.92*	1.00 *1.30*	1.80 *2.35*	*3.00* *3.90*
Screening area	m^2 yd^2	0.13 *0.15*	*0.19* *0.22*	0.26 *0.31*	0.56 *0.67*	0.80 *0.96*	1.00 *1.20*	1.36 *1.63*	*1.36* *1.63*
Instant adjustment of output size		*no*	*no*	*no*	*yes*	*yes*	*yes*	*yes*	*yes*
Shaft travel	mm *inch*	-	-	-	40 *1.6*	40 *1.6*	40 *1.6*	40 *1.6*	*40* *1.6*
Number of screening shafts	no.	2	*2*	2	2	2	2	3	*3*
Operating weight *(3)*	kg *lbs*	105 *230*	*200* *440*	360 *790*	965 *2125*	1400 *3080*	1845 *4060*	2725 *6000*	*3500* *7715*
Required oil flow	l/min *gpm*	20 - 50 *5 - 13*	*30 - 70* *8 - 18*	40 - 90 *10 - 24*	90 - 125 *24 - 33*	100 - 150 *27 - 40*	165 - 220 *44 - 58*	180 - 280 *48 - 74*	*180 - 280* *48 - 74*
Maximum oil pressure	BAR *psi*	250 *3600*	*250* *3600*	250 *3600*	250 *3600*	250 *3600*	250 *3600*	250 *3600*	*250* *3600*

(1) The operating load permitted for the excavator, when added to the weight of the standard bucket, must match or exceed the weight of the crusher bucket at full load.
(2) The installer is responsible for ensuring that the equipment meets the excavator's specifications and weight requirement.
(3) Without mounting bracket.

Simex does not accept responsibility or liability for the information provided. Technical modifications may vary without prior notice.