

SIFTER SYSTEMS | ARMTRAC SIFTER

Armtrac Ltd. | United Kingdom

GENERAL DESCRIPTION

The *Armtrac Sifter* is designed for towing behind the Armtrac 100/400 or other prime movers that can prepare the ground suitably for soil sifting and separation. The drawbar of the sifter has a robust construction, with a depth indicator on the ram.



ARMTRAC 400 | Pulling Sifter

CLEARANCE METHODOLOGY ¹

A single share covers the full width of the machine and the soil is lifted from a depth down to 40 cm and any ERW or other debris is raised to the top of the star bed. Large, serrated, independently-sprung discs with a large rolling radius reduce skipping in the soil and maintain downward pressure. Shaped blades are designed to stop stone trap and maintain an unrestricted flow onto the stars.

A steel roller transfers the soil and stones evenly from shares onto the star unit. The flow rate is provided by a constant hydraulic pump, and the drive system is protected by a slip clutch on the input transmission. The star bed consists of 12 rows of stars in a spiral configuration. The stars move the soil away from the middle of the machine towards the sides of the star bed, where the reverse configuration moves it back and away from the end discs. Choice of star spacing ensures the most effective soil and stone separation. Star shafts are mounted individually with plastic end discs and active stars: adjustable rubber fingers are mounted above the stars to assist with breaking up clods.

The Vari-Flow hillside kit has remote variable speed. This maintains an even flow of stone, clod and ERW over the star bed, particularly on hillside work. As an optional extra, a Cross Conveyor can be provided. It is 55 cm wide with hydraulic variable speed and can work either side of the machine. It is mechanically auto folding with manual locking choice of 28 mm or 40 mm pitch. A manually operated magnet system allows collection of ERW and other metallic objects. Steel-based wheels and tyres are available as options.

MACHINES IN USE TO DATE

- > One old model is in service in Bosnia and Herzegovina.
- > The new sifter is in use in Jordan and Bosnia and Herzegovina.



ARMTRAC Sifter picking up mines

ENGINE, FUEL AND OIL

Depends on the prime mover used.

OTHER CATEGORIES

No information provided.

ENDNOTES

¹ see: <http://www.armtrac.net/Sifter.php>.

DIMENSIONAL DATA

1. Length without attachment	6,450 mm
2. Length total	Depends on the prime mover used
3. Width without attachment	Depends on the prime mover used
4. Width total	2,400 mm
5. Clearing Working width	Adjustable to the width of the prime mover used
6. Height Overall	2,200 mm
7. Mass Basic vehicle	N/A
8. Mass Detachable unit(s)	7,000 kg
9. Mass Overall	Depends on the prime mover used

OPERATIONAL DATA

10. Wheels Tracks (description)	Sifter has wheels
11. Ground Bearing Pressure (kPa)	N/A
12. Hill climbing ability (in degrees)	N/A
13. Number of Chains Chisels Tools	N/A
14. Beat pattern (hits per m ²) at different operating speeds	N/A
15. Length of Chains Tools	N/A
16. Diameter of flail drum	N/A
17. Rotation Speed	N/A
18. Clearance Working depth in varying terrain	
19. Working Speed (m ² /h)	
> Light Soil Medium Vegetation	
> Medium Soil Medium Vegetation	
> Heavy Soil Dense Vegetation	
20. Control of Clearance Working depth	Automatic
21. Additional attachable working tools	N/A
22. Armour	
23. Remote controlled	N/A
> greatest distance	
24. Transportation	Can be towed short distances by prime mover ie Armtrac 100 or by low bed truck
> short distances	
> long distances	
> sea transport	
> air transport	

SYSTEM STATUS AND DEPLOYMENT

25. Machines in use	2
26. Other types	
27. Location of use	Jordan and demonstration
28. Totally cleared so far (m ²)	Unknown

ENGINE | FUEL | OIL

29. Engine	N/A
30. Engine power at the flywheel	N/A
31. Sufficient power supplied to working tool	N/A
32. Fuel capacity	N/A
33. Fuel consumption	N/A
34. Separate engine for working unit	N/A
35. Cooling system	N/A
36. Oil capacity (both engines)	N/A
37. Hydraulic oil capacity (both engines)	N/A

COSTS

38. Cost of system	On request
39. Other costs	On request
> training	
> spare part set chains belts	
> repair costs for one year	
40. Availability for hire	No

OTHER

41. Operator comfort	N/A
42. Air conditioning	N/A