



SAMPO ROSENLEW

www.sampo-rosenlew.fi



HR46x HARVESTER

Thinning Specialist

An enterprise has a future only if it is economically sound, and forest is no exception to this rule.

Economy in the forest

When growing wood in a forest, we aim at maximizing the yield - not only in the terms of volume but also in terms of quality. Thinning is the most important tool for controlling wood production.

The purpose of thinning is to concentrate the soil production capacity and growth on certain chosen trees. The goal is normally to grow large trees with high technical quality. The entire land area is reserved for a dense, healthy forest.

The forest owner/wood producer is merely interested in what is mentioned above. Technical details are only relevant if they contribute to correct, good thinning harvesting.

Economy of the contractor

Forest contracting is an economical activity that must be profitable. Factors that make thinning harvesting difficult are the small yield per hectare and the fact that the remaining trees must not be damaged. Cost control is the contractor's most efficient tool when aiming at profitability.

Sampo Rosenlew forest machines are designed with special emphasis on the conditions in thinning. Not only are their technical features perfect for thinning, but they are also economically superior. Appropriate size for thinning, durability and well thought-out construction result in capital and running costs clearly lower than those of the competitors.



The history of Sampo Rosenlew forest machines

The founder of Sampo Rosenlew, mr Timo Prihti was born and raised on a farm. In Finland this means that he got used to work hard not only on the fields but also and especially in the forest. In this environment mr Prihti learned that it is not only the fields that require constant attention but also forest. It must be managed – and managed well.

When mr Prihti in the early 1990's decided to continue the long industrial traditions of the Rosenlew Company by launching an enterprise of his own, Sampo Rosenlew, there was a demand for new products. At the same time he noticed that management of young forest was suffering from a lack of manual workers and a lack of suitable machinery. This led to a decision to start production of special harvesters for thinning harvesting.

Mr Prihti is now very pleased to see that it was a good decision. Forest machines manufactured by Sampo Rosenlew are nowadays used to manage hundreds of hectares of young forests every day. These forests will produce high-quality wood for the needs of future generations.



HR46x Harvester

PROFITABLE DECISIONS ARE MADE IN THE CAB

Sampo Rosenlew HR46x cab is a silent, safe and comfortable place for the operator. Visibility is good even over tree tops. There are also special lights on the roof pointing upwards to ensure the necessary visibility. The outside dimensions and forms are planned to minimize damage to the trees and the cab.

UNBEATABLE MANEUVERABILITY

Sampo Rosenlew HR46x is specially designed for thinning conditions. The maneuverability of the harvester is unique thanks to the big turning angle and small dimensions. This helps the harvester to move in the terrain and improves the work quality. It also helps the forwarder to work more efficiently.

HR46x - SMALL BUT STRONG

Plenty of power is packed in the small dimensions of the HR46x. The diesel torque is high even in low rpm. The big hydraulic pump in the work circuit utilizes the engine power in full. Harvesting work goes on swiftly, and the tree trunks run through the head without disruption.



THE HR46x IS EASY TO USE

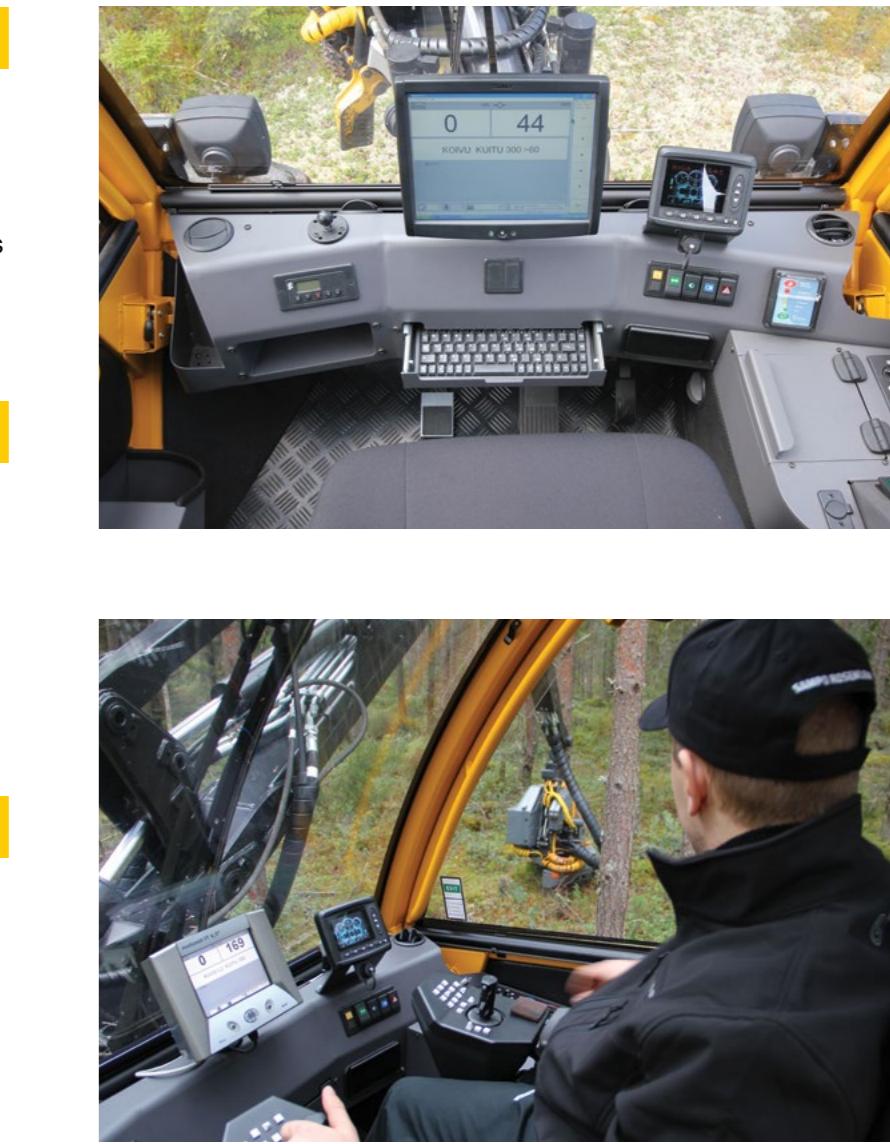
A small harvester is easy to move from one site to another. Since the Sampo Rosenlew HR46x is a 4-wheel harvester, it is also practical to drive on the road. Filters and lubrication points are easy to reach, which enables quick service measures. This leaves more time for productive harvesting work.

DESIGN IS VERY PRACTICAL

The Sampo Rosenlew HR46x -harvester design is the result of thorough consideration. Maneuvering in a dense young forest requires that the outer surface is even. This helps to avoid damage both to the remaining trees and the harvester. Visibility is unobstructed in all directions without any blind spots.

THE HR46x MAKES SENSE

The Sampo Rosenlew HR46x harvester has everything that is necessary. What is not needed has been left out. This means that the capital and running costs are low but the machine yield is higher than that of many heavier competitors. The HR46x is the choice of a smart contractor.



Features

Economic and dependable

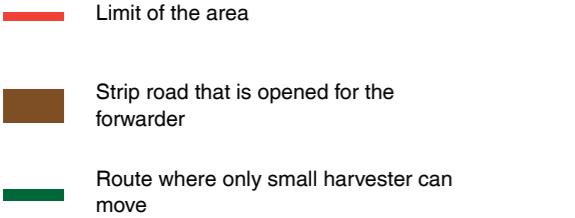
The profitability of HR46x in thinning has been improved further, setting it in a class of its own among its competitors. The machine is extremely dependable and pleasant to operate.

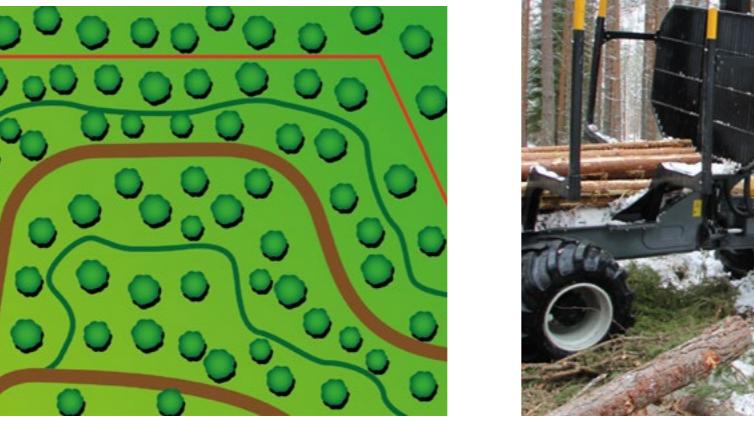
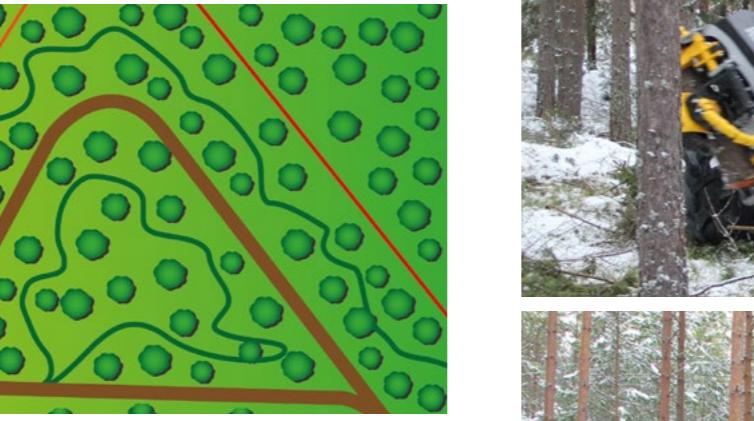


Sampo-thinning

The Sampo Rosenlew HR46x –harvester utilizes Sampo -thinning method. The basic idea is that since the thinning harvester is small and very maneuverable, it can move in the forest outside the road system opened for the forwarder. This brings a number of benefits.

1. The distance between the forwarder roads can be flexibly changed.
2. Forwarder road system can be very simple and clear with straight roads.
3. If the terrain is difficult, the roads can follow the best possible routes.
4. After thinning the density of trees is the same in all parts of the forest.


— Limit of the area
— Strip road that is opened for the forwarder
— Route where only small harvester can move



Less damage to soil

TRAIL DEPTH

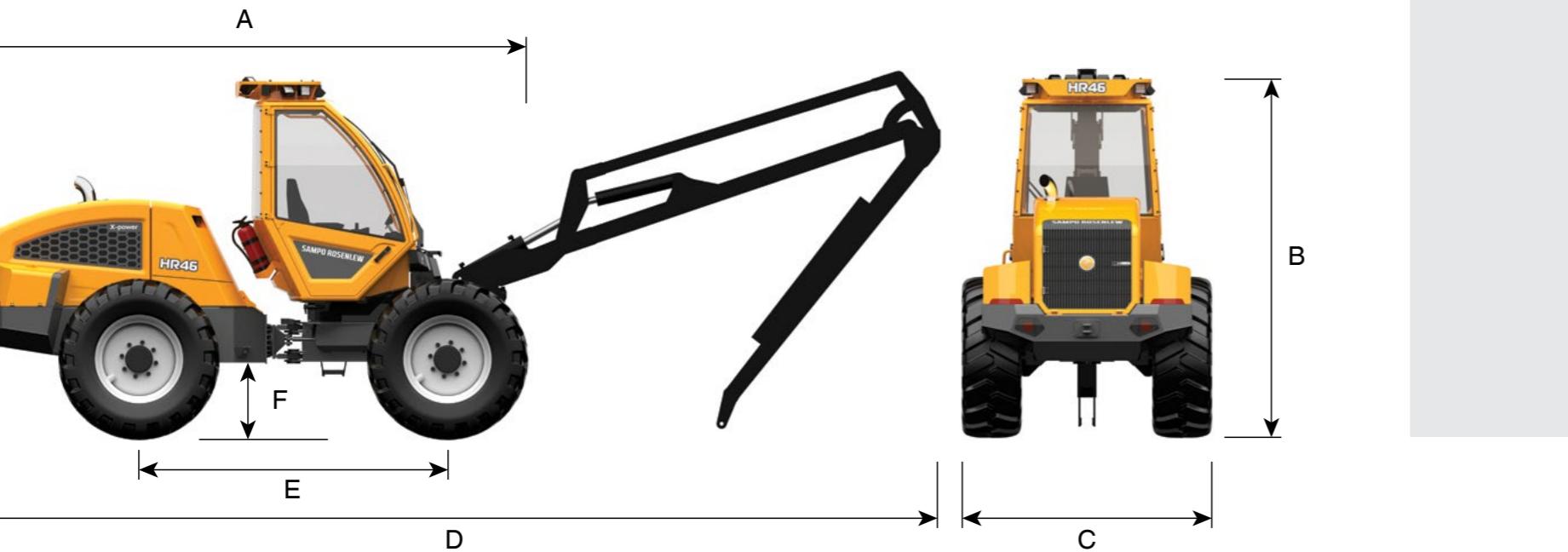


Sampo Rosenlew HR46x wheel size: 650/60-26.5
6-wheel harvester wheel size front 650/45-22.5 (boogie), rear 650/60-26.5

Trail depth comes from a calculation model for forest machine ground pressure and trail depth. This model was developed by the research institutes VTT and Metsäteho Oy. For further information please consult www.metsateho.fi.

Dimensions

A	Length mm	4900
B	Height mm	3200
C	Width mm	2100 - 2400
D	Length with crane mm	8760
E	Axle to axle mm	2735
F	Ground clearance mm	670
G	Turning radius mm	4020
H	Turning angle (degrees)	50°

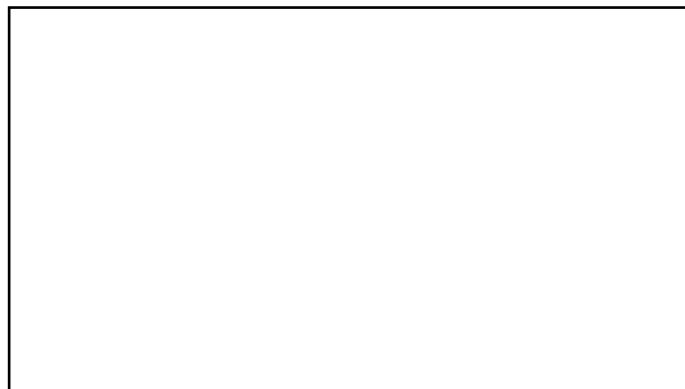


Technical information

Weight & dimensions	Weight at work	8,000-9,500 kg
	Length	4950 mm
	Width	2100-2400 mm
	Wheelbase	2735 mm
	Ground clearance	670 mm
	Height	3200 mm
Engine	Agco Power	49AWF, max. 124 kW @ 2100 rpm
	Fuel tank	180 l
Transmission	Type	Hydrostatic
	Turning radius	4020 mm
	Steering angle	50°
	Speed	0-13 km/h
	Traction force	90 kNm
Wheels	Front and rear	500/70-28, 540/65-28, 650/60-26.5
Hydraulics	Pump	Rexroth A10V0 140cc/ 294 l/min/2100 rpm
	Hydraulic oil tank	130 l
	Working pressure	230 bar
Electrics	Batteries	24 V, 2 x 145 Ah
	Charging generator	100 A
Crane	Reach	7,1 m
	Lifting torque, gross	55 kNm
	Turning torque	17 kNm
Head	Keto 51 Eco Supreme	
	Kesla 18RH-II	
	n. 320 mm	
Max. delimiting diameter	Mittalaite	
	Technion	
	Motomit	
Brakes	Type	Multi-disk brakes
Cab	Standards	Quiet safety cab (FOPS, ROPS, OPS)
	Windows	12 mm polycarbonate



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