SP Simulator

SP Simulator
– The key to more efficient forestry

Have you just started your journey to become a forest machine operator? Or perhaps you're a seasoned operator with several years of harvesting and forestry experience? Either way, SP's simulator is the tool to take you and your skills to the next level.

With plenty of different exercises of varying difficulty, as a beginner you'll learn the basics and develop your skills step by step – all in a highly realistic yet completely safe environment. If you're already working in the forestry industry, our simulator is an excellent tool for honing and optimizing your work methods and techniques for even more productive harvesting.

Thanks to the simulator's evaluation and scoring system, you can track your development curve, analyze your performance, and find out what works best for you – with absolutely no risk of damage to either the head or the environment. For an even more realistic experience, SP's Simulator can be paired with a VR headset, providing a 360-degree view with depth perception.

Start your journey to more efficient forestry today with SP's simulator.

SP
— ALWAYS AHEAD —

Exercises

SP Maskiner's simulator is a complete training tool for head operation that takes the user from no prior knowledge to final felling. Step by step, the exercises become increasingly more advanced, enabling the user to develop at their own pace. All exercises are based on real-world machines.

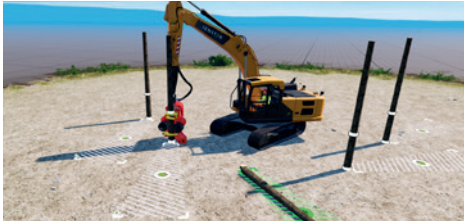| Exercise	Purpose	Description	Features
Driving, turning & positioning			
Basic driving	• Teach how to drive the excavator • Practice driving	The student must learn to drive, reverse, turn, and turn on the spot.	VR TRR
Drive straight and turn	• Practice driving	During the exercise, you will be able to practice driving the machine straight and turning on a limited surface area.	VR TRR TSS
Drive the routes and turn	• Practice driving	During the exercise, you must drive through different passages without overturning any obstacles; you must also turn the machine at the end of each passage.	VR TRR TSS
Boom, stick and attachment			
Basic controls	• Teach basic controls to handle boom, stick and the harvester head	During the exercise, you will receive instructions about which controls do what, and you will try to position the attachment.	VR TRR
Controls for attachments	• Practice controls for the harvester head	During the exercise, you will receive instructions about how to use the attachment to grip, saw, and feed.	VR TRR

TSS Score report card

VR VR compatibility

TRR Recording function

Exercise	Purpose	Description	Features
Practice exercises			
Clamping	• Practice clamping the attachment to trunks.	During the exercise, you will position the attachment and grip the trunks in the correct place.	🥽 TRR TSS
Clamping and cutting	• Practice clamping and felling trunks in one direction.	During the exercise, you will be able to clamp the attachment to several trunks, which you will then fell in a certain direction.	🥽 TRR TSS
Clamping and felling	• Practice clamping and felling trunks in one direction	During the exercise, you will be able to clamp the attachment to several trunks, which you will then fell in a certain direction.	🥽 TRR TSS
Felling and moving	• Practice clamping, felling and positioning trunks	During the exercise, you will be able to clamp the attachment to several trunks, which you will then fell in a certain direction in order to then position them within a certain area.	🥽 TRR TSS
Harvesting	• Allow the user to set their own practice parameters	This is an open exercise simulating a real-world final felling assignment in which the user learns planning and methodology.	🥽 TRR TSS
Thinning	• Allow the user to set their own practice parameters	This is an open exercise simulating a real-world thinning assignment. The user learns how to plan and conduct thinning without damaging the standing forest.	🥽 TRR TSS
Demonstration exercise	• Be able to quickly start and demonstrate the harvester head	A small forest area where the machine is ready for operation. Practical exercise to quickly test or demonstrate a function on the machine.	🥽 TRR TSS

Evaluation

Score report card

The simulator includes an evaluation tool to easily track each user's development. A score report card (TSS: Tenstar Scoring System) is created for all completed exercises. The time it took the user to complete the exercise is recorded, and the user can track their learning curve and accuracy.

Recording function

The recording function (TRR: Tenstar Record and Replay) enables you to follow up and evaluate every training session. It allows all exercises to be recorded and stored in a small file. Video sequences can then be played back in slow motion or paused, enabling detailed analysis of exercise performance.

Equipment

Three levels
The simulator is available in several different versions. The table on the right presents the three standard versions and the equipment included.

Option – VR compatibility 360°
A virtual reality headset that enables you to look around the entire work area. For even higher levels of realism.

Control
The simulator can be integrated with a bucking system – H50, H60, or H70 – and is equipped with professional controllers.

Transport box
A specially designed transport box for easier transport. The same size as a Euro pallet for easier handling. The ingenious box design keeps all products in place.

Equipment	Level 1	Level 2	Level 3
Desktop	X		
Mobile Simulator Unit		X	X
1 x 43" horizontal screen	X		
3 x 43" vertical screens		X	X
Professional Be-Ge seat		X	X
Table-mounted armrests	X		
Professional armrests on seat		X	X
Joysticks	X	X	X
Pedals	X	X	X
Motion platform			X

Options			
VR headset	X	X	X
1 x 43" horizontal rear screen		X	X
Bucking computer	X	X	X
Headtracking	X	X	X

Dimensions
Installed: 2076x1677x2000 mm
Transport box: 1200x800x1570 mm

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