

Ponsse Scorpion King



Finland has a lot of peatland and other areas with soft terrain. The challenge is that the soft terrain does not enable harvesting in the summertime.

The stability of the harvester comes from its eight wheels and active stabilization system. The patented stabilization system is based on detecting the crane direction and position, on the basis of which the rear frame is pressed in the working direction. Pressing the rear wheels against the ground and the weight of the rear frame improve the machine's stability significantly when working on the side of the machine – also when the machine is moving.

The Cabin leveling, balances the cabin, also in difficult terrain. The frame of the machine consists of three parts linked by rotating joints. The cabin is located in the middle frame, which is kept hydraulically balanced, while the front and rear frames tilt according to the terrain.

Scorpion King is a three-frame harvester equipped with a fork boom. Its balancing keeps the cabin horizontal in all conditions. In addition, visibility from the cabin is perfect thanks to large glass surfaces and as the crane does not block the view in any direction. Its double-circuit hydraulics ensure that power does not run out even in difficult conditions. The balanced machine is at its best in demanding conditions and uneven terrain.

DETAILS

ORIGIN OF WOOD

Forest

TYPE OF WOOD

Stemwood

KIND OF WOOD CONCERNED

Stemwood

IMPACT ON ENVIRONMENT & BIODIVERSITY

Positive

INCOME EFFECT

Positive

EXPLOITATION POTENTIAL

--

HUB

Northern Hub

ECONOMIC IMPACT

Medium

SPECIFIC KNOWLEDGE NEEDED

Good driving skills

MOBILIZATION POTENTIAL

Not possible to assess

SUSTAINABILITY POTENTIAL - VALUE

--

EASE OF IMPLEMENTATION

Medium

EASE OF IMPLEMENTATION - EVALUATION

--

KEY PREREQUISITES

Access to forest assets in challenging terrains

TYPE OF EVENT WHERE THIS BPI HAS BEEN FEATURED

--

JOB EFFECT

Positive

COSTS OF IMPLEMENTATION (EURO - €)

--

MORE DETAILS

CHALLENGE ADDRESSED

5.- Enhance economic and environmental performance of forest supply chains

KEYWORDS

--

COUNTRY OF ORIGIN

Finland

DOMAIN

Forest management, ecosystem, resilience
Harvesting, infrastructure, logistics

DIGITAL SOLUTION

No

SCALE OF APPLICATION

National

TYPE OF SOLUTION

Smart machinery, equipment

INNOVATION

No

START AND END YEAR

--

CONTACT DATA

OWNER OR AUTHOR

Ponsse

sampo.pulju@ponsse.com

REPORTER

REFERENCES AND RESOURCES

MAIN WEBSITE

<https://www.ponsse.com/en/web/guest/products/harvesters/product>

PROJECT WEBSITE

https://www.ponsse.com/products/harvesters/product/-/p/scorpion_king#/

PROJECT REFERENCE

--

RESOURCES

--

LOGO OF BEST PRACTICE

LOGO OF MAIN ORGANIZATION



PROJECT UNDER WHICH THIS FACTSHEET HAS BEEN CREATED

POST DATE

Rosewood

17 Sep 2019



[Link to Rosewood 4.0](#)



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 862681

A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY

