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.

DéTAILS

ORIGINE DU BOIS

Forêt

TYPE DE BOIS

Grume

TYPE DE BOIS CONCERNé

Stemwood

IMPACT SUR L'ENVIRONNEMENT ET LA BIODIVERSITé

Positive

EFFET SUR LE REVENU

Positive

POTENTIEL D'EXPLOITATION

--

HUB

Pôle Nord

IMPACT éCONOMIQUE

Medium

CONNAISSANCES SPéCIFIQUES REQUISES

Good driving skills

POTENTIEL DE MOBILISATION

Not possible to assess

POTENTIEL DE DURABILITé - VALEUR

--

FACILITé D'IMPLéMENTATION

Medium

FACILITé D'IMPLéMENTATION - ÉVALUATION

--

PRéREQUIS CLéS

Access to forest assets in challenging terrains

TYPE D'éVéNEMENT Où CETTE ICPE A éTé PRéSENTéE

--

EFFET SUR L'EMPLOI

Positive

COûTS D'IMPLéMENTATION (EURO - €)

--

PLUS DE DéTAILS

DéFI CONCERNé

5. Accroître les performances économiques et environnementales de la chaîne logistique forestière

DOMAINE

Getsion forestière, sylviculture, services écosystémiques, résilience

Récolte, infrastructure, logistique

TYPE DE SOLUTION

Machines et équipements intelligents

MOTS-CLéS

--

SOLUTION DIGITALE

Non

INNOVATION

Non

PAYS D'ORIGINE

Finlande

ECHELLE D'APPLICATION

Nationale

DéBUT ET FIN D'ANNéE

--

INFORMATIONS DE CONTACT

PROPRIéTAIRE OU AUTEUR

Ponsse

sampo.pulju@ponsse.com

RAPPORTEUR

REFERENCES AND RESOURCES

SITE WEB PRINCIPAL

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

SITE WEB DU PROJET

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

RéFéRENCE DU PROJET

--

RESSOURCES

--

LOGO DE LA BONNE PRATIQUE

LOGO DE L'ORGANISATION PRINCIPALE



PROJET SOUS LEQUEL CETTE FICHE D'INFORMATION A éTé CRééE

Rosewood

DATE DE PUBLICATION

17 sep 2019

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