VISCAN-Portable: A new grading machine for local structural timber



The strength grading of timber is mandatory for structural uses. Most of the sawmills in the area are small or medium-sized enterprises that cannot acquire an automatic classification line because of the very high costs. For this reason it was decided to develop a new portable machine, with significantly reduced costs, which could be shared between the sawmill of the territory. The new grading machine was design starting from the technology ViSCAN of Microtec With these results, it becomes possible to introduce the machine strength grading among small/medium sawmills. Thanks to this new opportunity the companies can enjoy advantages both in terms of quantitative yields and efficiency in the classification. On the other hand, the portability of the machine is an interesting stimulus to its possible spread: neighboring sawmill could share the purchase or lease the equipment, reducing the amount of initial investment and operating costs. This sharing mode is well suited also to a non-continuous production of lumber. The machine was then set on the timber species present in the FMMF territory already used or potentially suitable for construction: ViSCAN-portable was officially certified as strength grading machine on March 2014. At the same date the settings for Douglas fir and black pine were approved, while for fir and chestnut they were approved on October 2014. Some local sawmills have already used the machine to grade their sawnwood for structural uses, but the VISCAN-portable has also been requested by other Italian regions, especially to grade chestnut timber.

DETALHES

ORIGEM DA MADEIRA

Floresta

TIPO DE MADEIRA

Tronco

TIPO DE MADEIRA EM CAUSA

sawnwood

IMPACTE NO AMBIENTE E BIODIVERSIDADE

Implementation of the use of underutilized species as sawnwood

IMPACTE NAS RECEITAS

Added value to the raw material with consequently higher incomes for the sawmills

POTENCIAL DE EXPLORAçãO

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HUB

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IMPACTE ECONOMICO

Improvement of grading yields

CONHECIMENTOS ESPECIFICOS NECESSáRIOS

POTENCIAL DE MOBILIZAçãO

N/A

SUSTENTABILIDADE POTENCIAL - VALOR

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FACILIDADE DE IMPLEMENTAçãO

N/A

FACILIDADE DE IMPLEMENTAçãO

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PRE-REQUISITOS CHAVE

Knowledge of the technical regulation on strength grading for structural uses

TIPO DE EVENTO EM QUE ESTE BPI TEM SIDO APRESENTADO

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IMPACTE NO EMPREGO

Increase of the manufacture of local products with a consequent improvement for the supply chain and the whole sector

CUSTOS DE IMPLEMENTAçãO (EURO - EUR)

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Need of short training for use

MAIS DETALHES

DESAFIO ABORDADO

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DOMíNIO

Gestão florestal, silvicultura, serviços do ecosistema, resiliencia

TIPO DE SOLUçãO

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PALAVRAS-CHAVE

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SOLUçãO DIGITAL

Não

INOVAçãO

Sim

PAíS DE ORIGEM

Itália

ESCALA DE APLICAçãO

Nacional

ANO DE INíCIO E FIM

2014 -

DADOS DE CONTACTO

PROPRIETáRIO OU AUTOR

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REPóRTER

REFERENCES AND RESOURCES

WEBSITE PRINCIPAL

http://www.ivalsa.cnr.it

WEBSITE DO PROJETO

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REFERêNCIA AO PROJETO

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RECURSOS

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PROJETO NO âMBITO DO QUAL A FOLHA DE DIVULGAçãO FOI CRIADA

Rosewood

DATA DE ENTRADA

1 Out 2019

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