



fibres-gen

HITMAN PH330

VALUE RECOVERY AT POINT OF HARVEST
FOR SUSTAINABLE FOREST MANAGEMENT





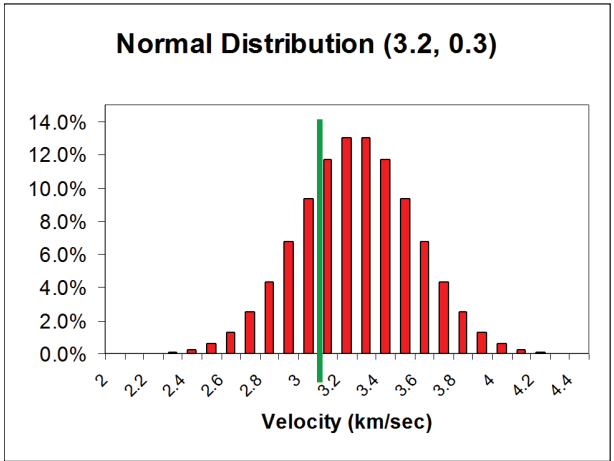
WHY HITMAN PH330 is important to forest owners and contractors today?

- ▶ Age of harvest is declining so there is less mature wood
- ▶ Length of rotation is shorter and lower stiffness species are being grown
- ▶ Older forests are increasingly further from the mills
- ▶ Transport costs are increasing
- ▶ Mills need to buy the right log properties
- ▶ Harvest processes are being automated for safety

Fibre-Gen's mission is to segregate wood at the point of harvest to maximize value recovery, minimise waste and improve safety



SCIENCE OF SONICS



Stiffness (MOE) of trees in any given stand

speed of sound through
wood provides a direct
measure of stiffness

$$\text{MOE (stiffness)} = \text{density} \times (\text{sonic velocity})^2$$

TREE BREEDING | FOREST MANAGEMENT
HARVESTING | LOG MAKING
WOOD PROCESSING

ALL REGIONS | ALL SPECIES



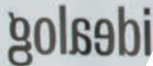
HITMAN *PH330*

FOR HARVESTERS & PROCESSOR HEADS

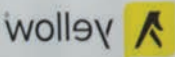
**Real time automated sonic measurement
during log making**

1. Head clamps tree or stem
2. Operator activates saw
3. Probes inserted by hydraulics
4. Saw cut finishes
5. Velocity measured and data sent to optimizer
6. Probes retract
7. Operator confirms log making decision for next log to be cut
8. Head moves to next cut position and repeats process
9. Log cut to right pile for the right mill
10. Data sent to data server

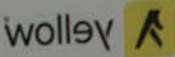
Additional production time required = 0 secs



WINNER
NEW ZEALAND
INNOVATORS
AWARDS 2015



For A Better Life





Adopting single pass automated processor-head-based segregation has the potential to deliver logs which are otherwise inaccessible and will yield suitable stiffness veneer for LVL manufacture.

Source: J Moore, Scion and M Lausberg
SWI internal report

HITMAN PH330

THE GOLD STANDARD

IN WOOD STIFFNESS MEASUREMENT

fibre-gen

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