Walz Volumetric Payload Scanner Timber Solutions

Timber Measurement Society April 7, 2016

How much am I hauling?



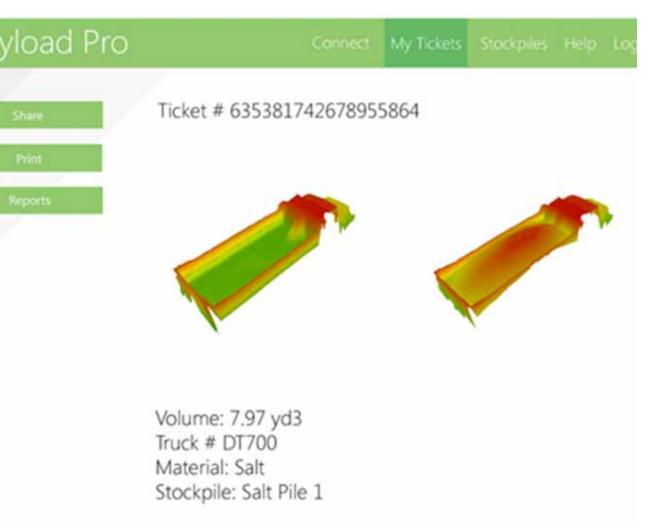


What is volumetric payload scanning?

Create a "tare" reference by scanning the truck empty.

Subsequently scan loaded trucks for determination of "net" volume





How does it work?

Create a mesh of data points that represents the profile of the truck

Compare the z-coordinates of the empty and loaded truck.....the difference is the carried volume.

Weight can be calculated by applying the known bulk density of the carried product, and/or bulk density can be determined by applying the known net weight of the load from the truck scale.

What does it consist of?

Scanner

RFID Reader

Stop & Go Light

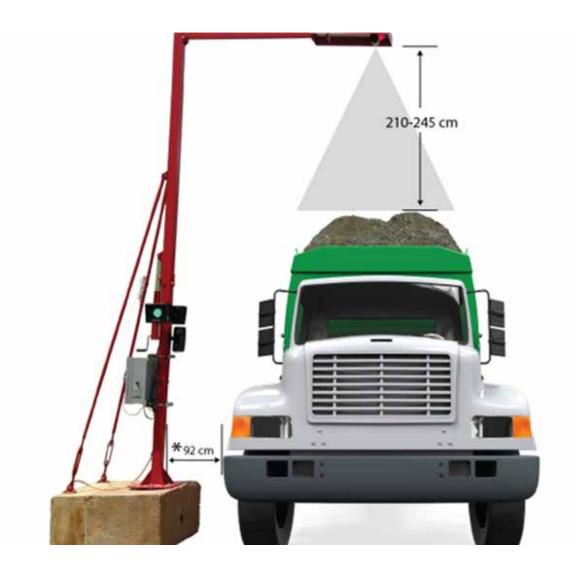
Network Control Box

Laptop Computer

PayloadPro-V Software

Cloud Interface

Mounting Method (often supplied by customer)





Sight Requirements

Nominally level for 2 to 3 truck lengths

Trucks slow down to first gear idle

Open top trailer. Scanner can't analyze what it can't see.

115/230 VAC Power

Non-fire walled Internet/Cloud access

Applications

- For measurement of bulk solids
- Track inventory by type
- Determine individual truck units hauled (pay contractors)
- Determine shrink



Al Clyde – Log Scaling Challenges

• "Take the solution to the logs, and not the logs to the solution."

 Mobile weighing method that is not new, but may be applicable to your industry

Mobile scale for Material Handlers

Scale replaces existing hanger between stick and log grapple

As log is picked up, weight can immediately be determined

Is weight necessary in the log scaling process?

For sure, the weight is necessary when loading shipping containers.



Loading Containers

Weigh one log at a time

Accumulate weight for the entire load

Stop when max weight is achieved

Too late once the truck with container gets to the truck scale

Also for compliance with International Maritime Organization SOLAS requirements?



Questions?