

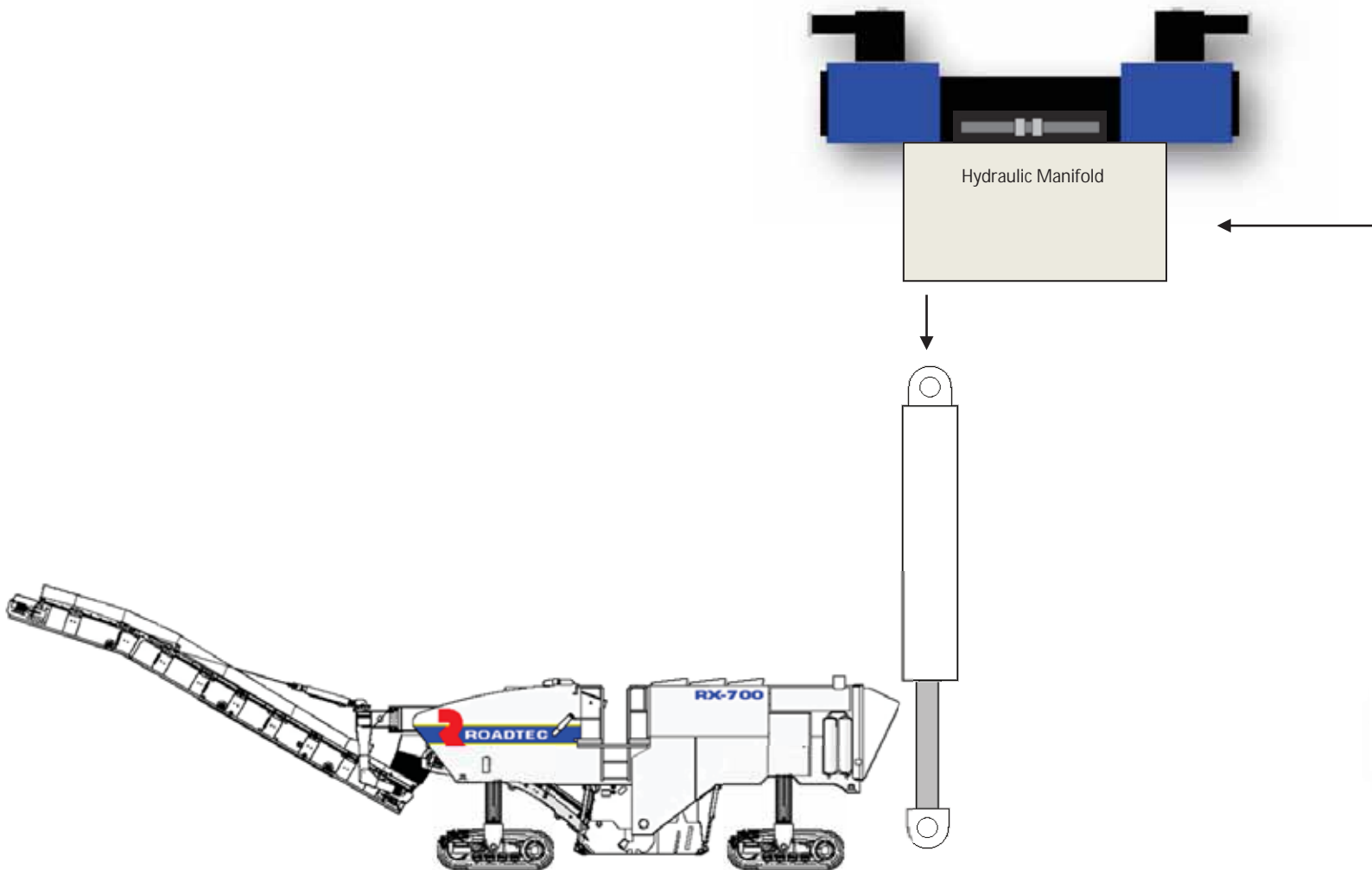
Control Systems for Paving Milling Machines



Don't they just plug in?



What are we controlling



Clean up

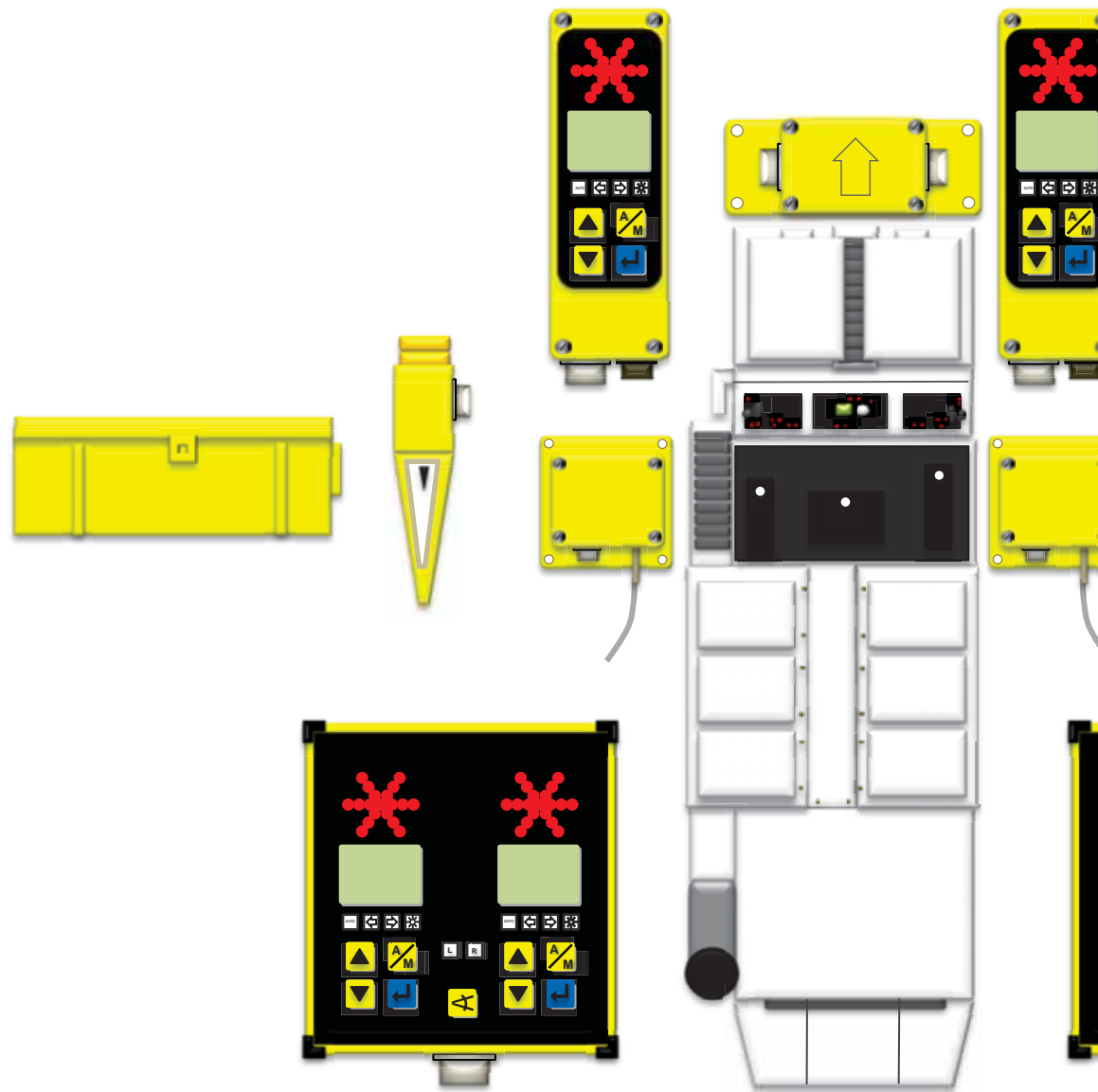


How can you mill with th
If you have this to work w
never achieve grade.

Why?



Standard Mill Setup



Wire Rope Sensor



Setting up Sonics

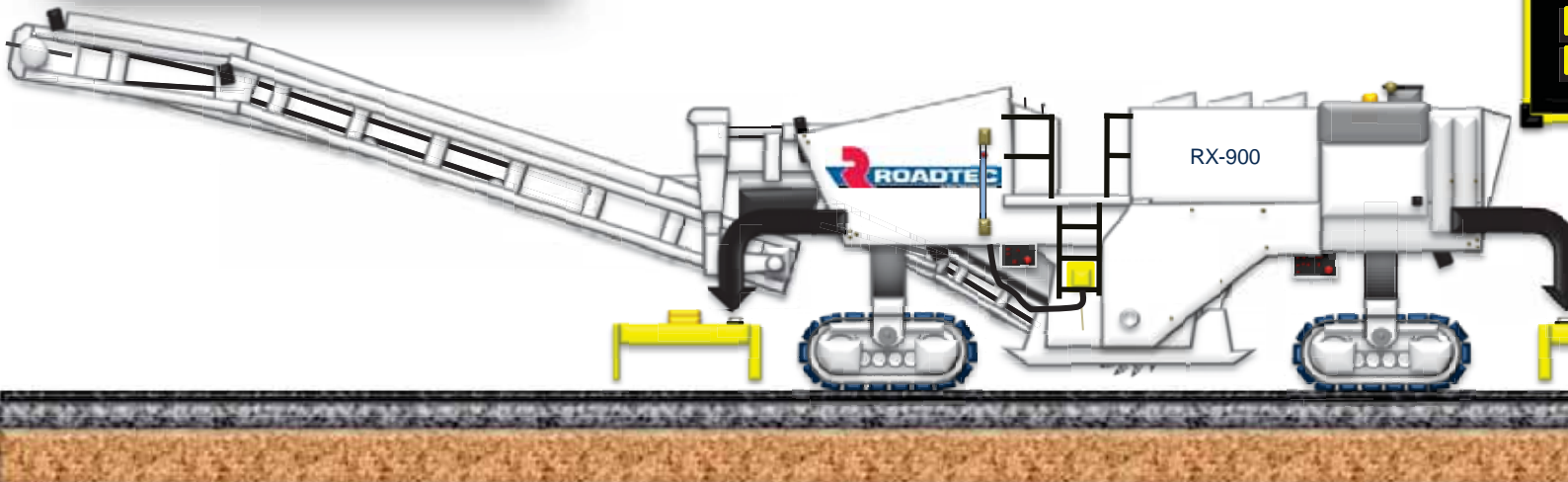
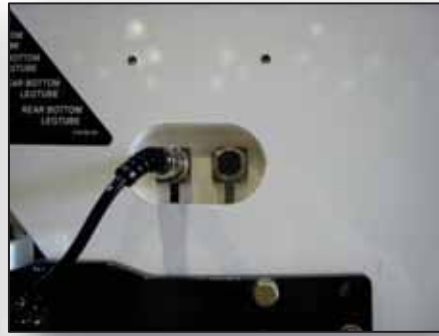


Watch where you
sensor.

You will see a lot of
Flying around in the

Keeping the front
Door down will help

Smooth Mill Ski



What Mills Can Average

All manufactures mills should have no problem adapting to a Ski.



TOPCON MM GPS



Trimble GCS900 for Milling Machines



Fine Space & Micro Milling

This is also becoming more popular.

What is it doing for me?



Paving Electronics

Why is this box important?

Can I use any box?

Each control box should be programmed for a specific machine?

Things are important like, is this a machine with:

On / Off or (Bang Bang) valves.

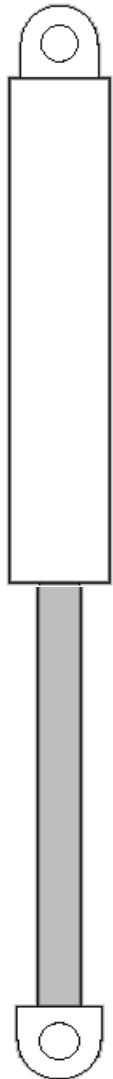
Proportional valves, and do they Switch hot or ground.

Servo valves.

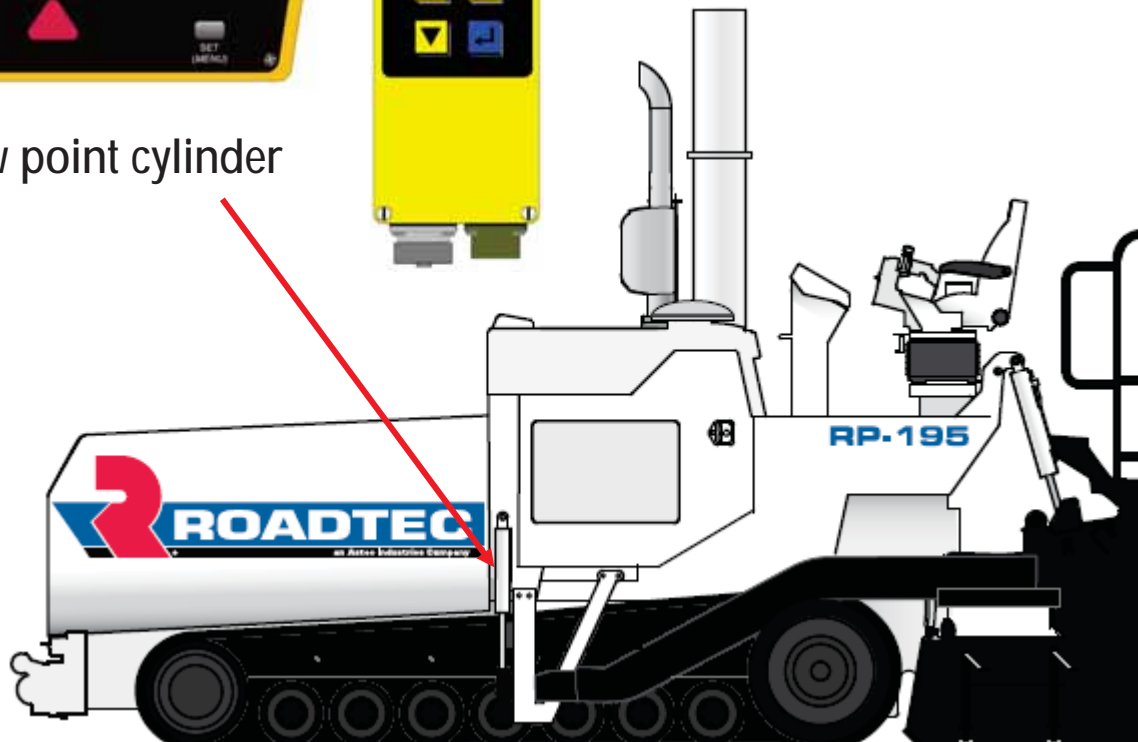
Valves that use low to high frequency.



What do we control



Tow point cylinder



TOPCON System 5 SAS

This is a non-contact averaging system

This system uses 4 trackers to get an average of the surface.

Do I need to run all 4 Sensors?

This system just has one cable that will plug into the control box.

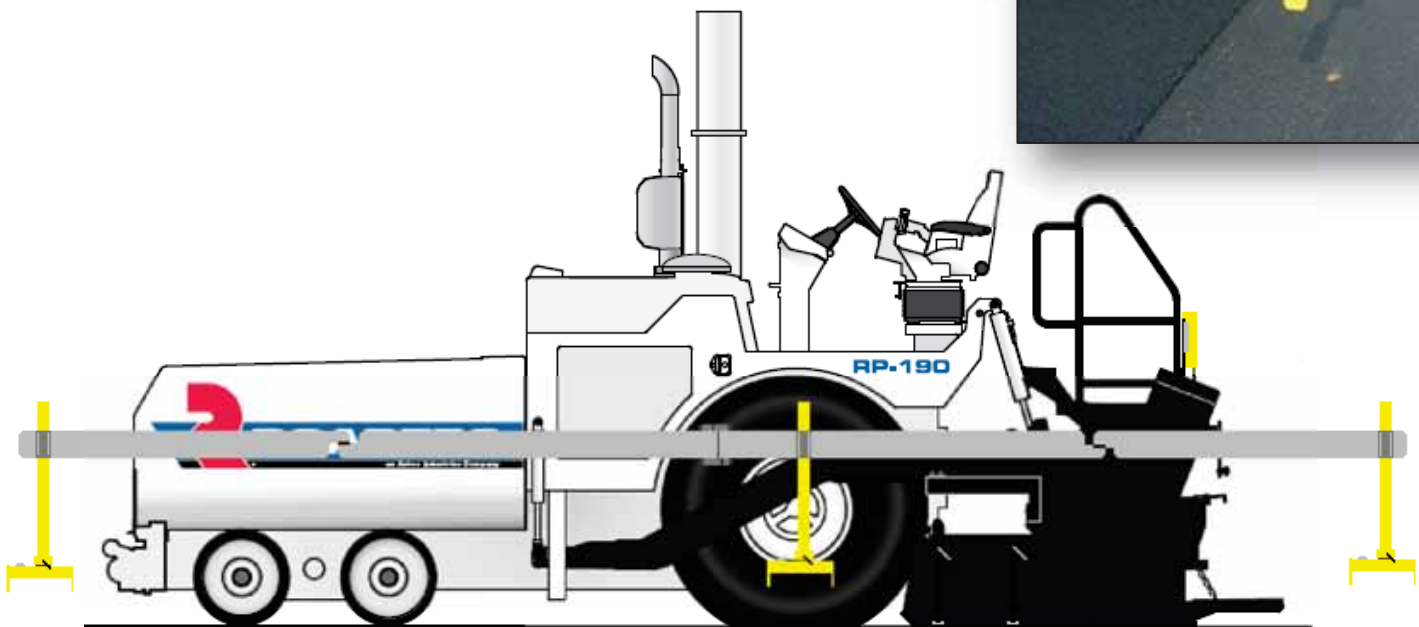


Moba Big Ski

Three sensors mounted together on a fixed beam,

Typically you run all three sensors but you have the option to run just the middle.

The same sensor height applies. (14")



Averaging

Mount the sensor in the middle of the averaging platform.

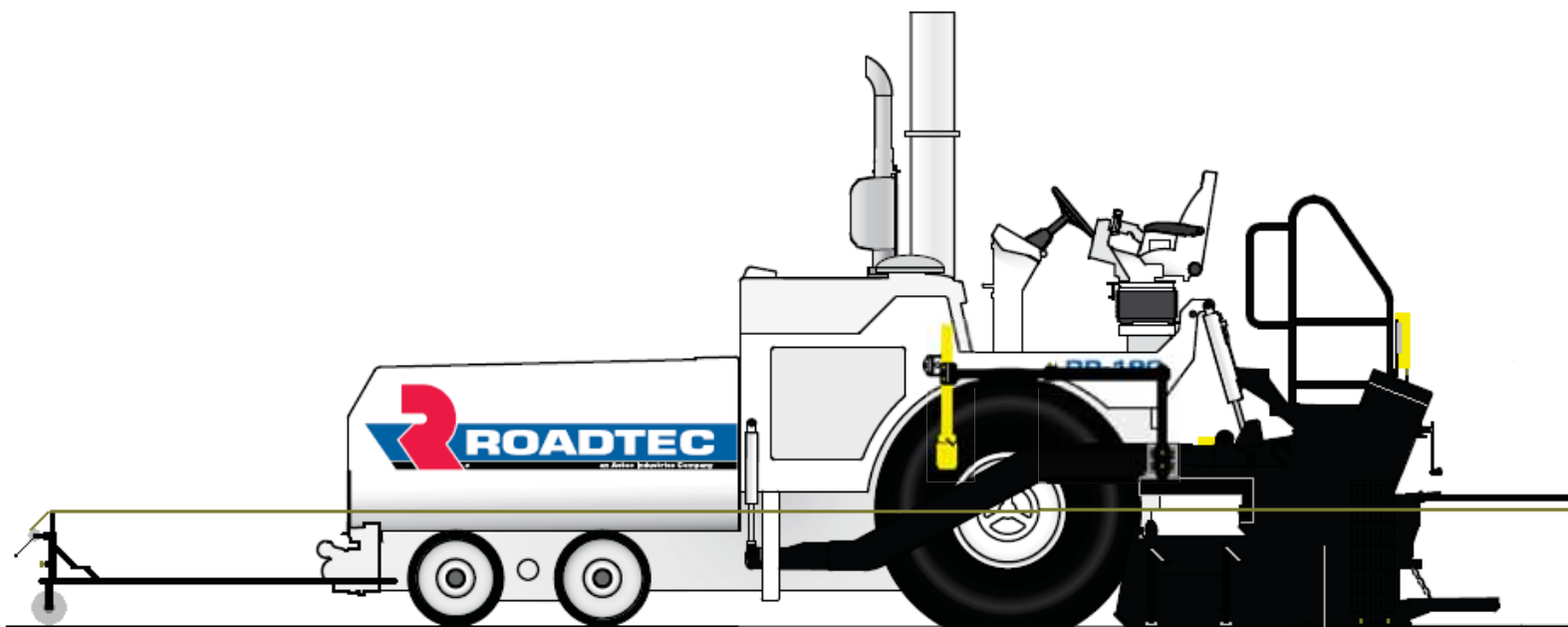
Sensor mounting is the same as in String-line.

What to watch out for:

- Build up of tack and material on the front wheel.

- Rear section not heated and leaves streak in the mat.

- Loose and vibrating cable.



Contact Ski

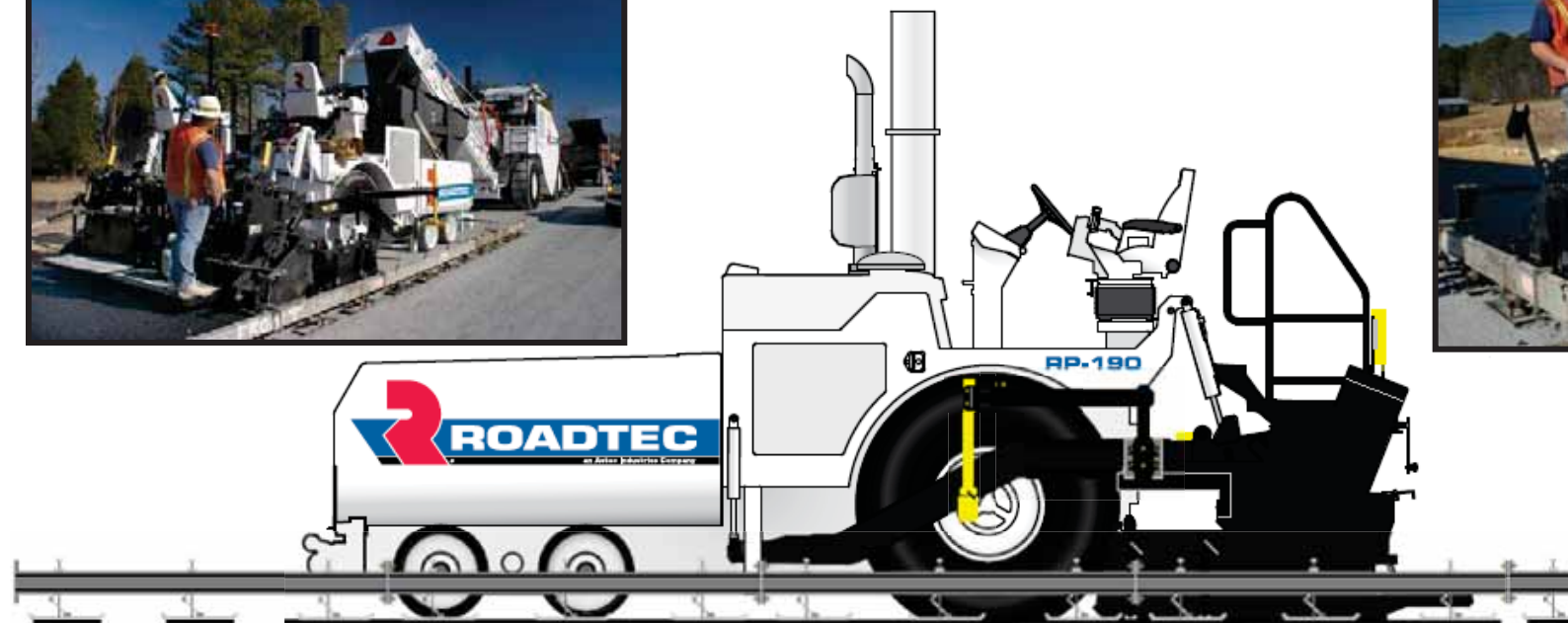
Mount the sensor in the middle of the averaging platform.

Sensor mounting is the same as in String-line.

If the beam is wide enough you may get away with running in ground mode.

What to watch out for:

Build up of tack and material on the Skids. (This causes the ski to Hop
Not mounted parallel to the machine.

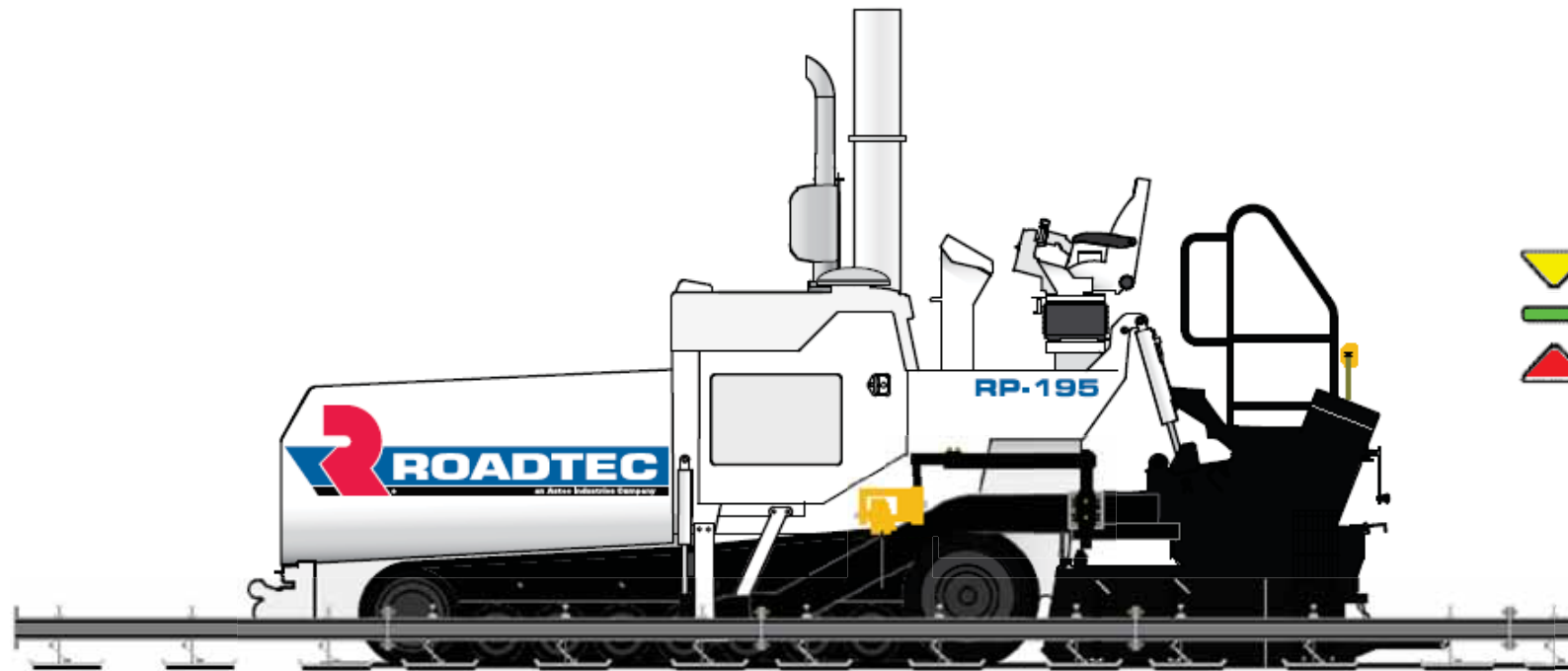


We Pave With It Too.



System Operation

This is the reaction when you want to see when you average.



Questions



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