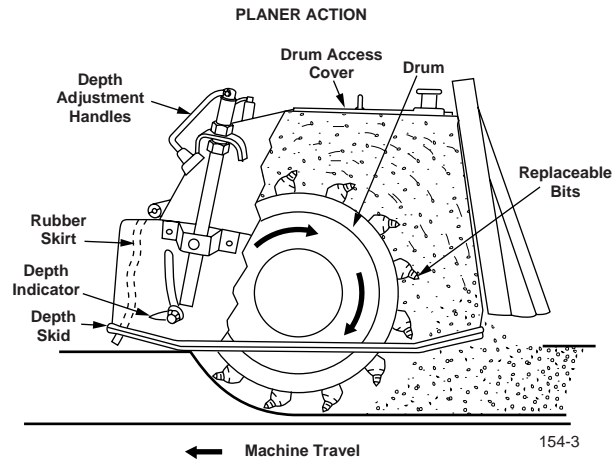


GROUP EXERCISE THREE APPLICATIONS, PERFORMANCE, AND MAINTENANCE

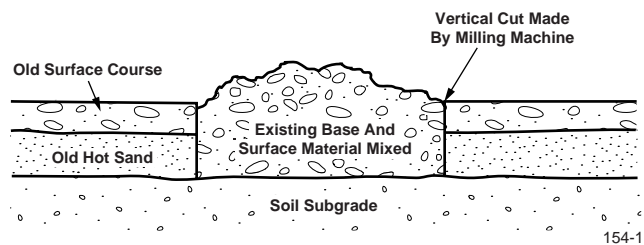
Planer Applications The following discussion covers some of the principles of milling and common applications for small milling equipment such as the Bobcat planer.

Principles of Milling



Planer Action

Milling machines use a series of mining type tool bits mounted on a revolving drum that uniformly pulverize pavement material. The drum can be set to cut a certain amount of material with each pass of the planer. The depth of cut is determined by the application. The bits leave a textured surface to form a better bond between the new and old material.



Mill Down To Sub-Grade

After the deteriorated material is removed, the milled surface can then be overlaid with recycled pavement.

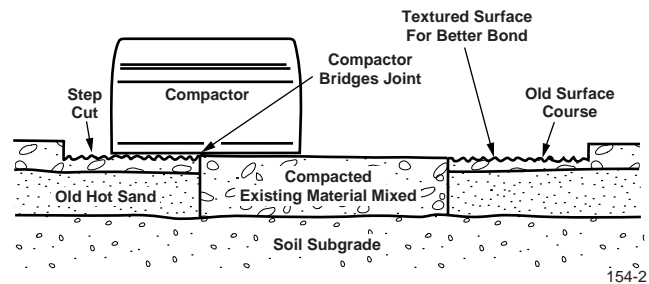
Depending upon the condition of the old surface material, it may be mixed with rejuvenator additives to bring back its structural load bearing capability to near new.

continued, next page ▶

APPLICATIONS, PERFORMANCE, AND MAINTENANCE (Continued)

Planer Applications (Cont.)

This material is then compacted into the hole using a small vibratory roller such as the Bobcat vibratory roller attachment. The roller rides partly on the recycled material and partly on the step-cut to produce a uniform density of the recycled base material. This example shows a step-cut which is explained in detail later in this manual.



Compact Into The Hole

Area Milling

One of the easiest ways to mill an open area is to mill multiple passes, slightly overlapping each consecutive pass to ensure full coverage.

1. Make the first pass, setting the drum for the desired cutting depth.



Planer Making First Pass

2. Return to the starting point and position the drum on either side of the first pass.
3. Align the ski or edge of the planer drum so it just overlaps the edge of the first cut. One ski is in the cut and the other is on the unmilled surface.

continued, next page ▶

APPLICATIONS, PERFORMANCE, AND MAINTENANCE (Continued)

Planer Applications (Cont.)



Planer Making Second Pass With Skis Adjusted For Level Cut

4. The ski depth on the unmilled surface remains the same as the first cut. The ski on the milled surface should be adjusted so the planer drum housing remains level.
5. Mill a short distance, then inspect the milled surface to make sure it is level and at the correct depth. When a level milled surface is achieved, only minimal depth adjustments are needed for the rest of the milling area.



Planer With Guide Rod Kit Installed

A guide rod kit is available for high flow planers to help align the attachment with the previous cut.

continued, next page ▶