

T3RRA



5.4 | Limits Tab

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5.4 | Limits Tab

Blade shift increment

Blade Shift Increment sets the height adjustment applied by the up/down elevation adjustment buttons in the implementation wizard step.

Settings

Application | Equipment | COMMAND | Project | Limits | GPS | Advanced

Blade Shift Increment: 0.005 m
(How far to shift the blade per button click)

Static Blade Limit
Will statically limit the cut or fill to be a set distance away from the design. Use this if you want work layer by layer. You set the limits on the implementation screen (not here).
Total cut/fill limit type: None ☐ Ignore cuts

Dynamic Blade Limit
This ensures that you do not cut or fill more than the set amount using the 'as-applied surface'. If you set a cut limit, each individual pass will not try to cut to the full design depth, but rather will only take the amount set by the limit.
☐ Enable cut limit Max Cut: -.030 m
☐ Enable fill limit Max Fill: 0.000 m
Enable 'As Applied' on the Machine tab to use dynamic blade limits.

Limits tab with Blade Shift Increment, Static Blade Limit and Dynamic Blade Limit controls; As Applied is required

NOTE — The recommended blade shift increment is 0.03 - 0.06 feet (0.4 - 0.8 inches, or 0.01m - 0.02m).

Static blade limit

Static Blade Limit temporarily changes target design heights by a specified amount. At 50%, target cut and fill heights become 50% of the design values. It can also overfill a design by a percentage to allow for soil to sink over time: at 110%, a 100mm fill becomes 110mm to allow for future compaction.

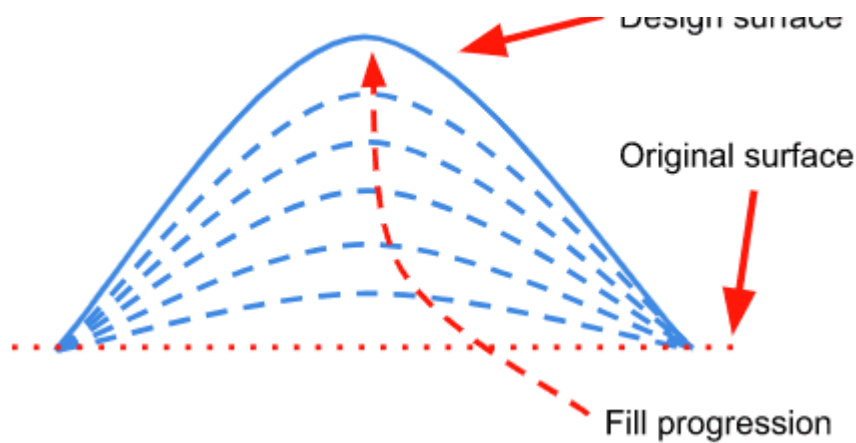
Build banks, roads or mounds in gradual steps to allow even compaction of dirt.

Ignore cuts is useful when gradually building a mound. Use the vertical nudge to lower the design surface below the current surface, then slowly nudge it upwards so filling begins at the apex and proceeds outwards. In this case, avoid cutting where the nudged mound design is below the original surface. **NOTE:** Ignore cuts can be activated even when Static Blade Limit is set to “None”.

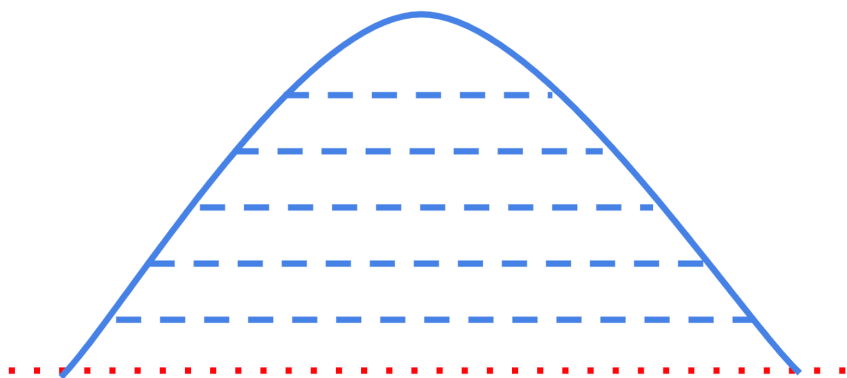
Set the static blade limit amount on the implementation screen.

Methods for progressively adding layers of dirt to a fill area

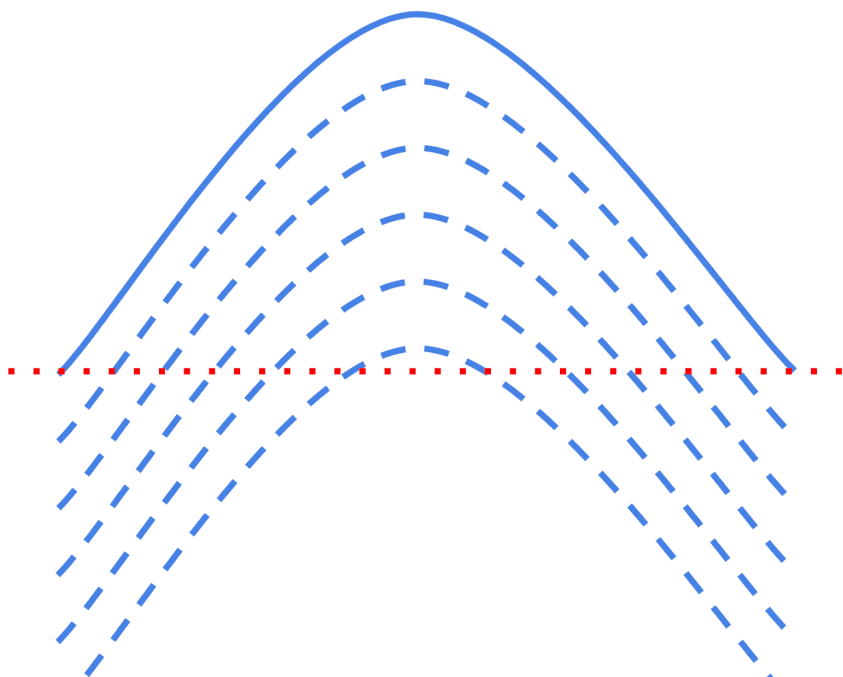
Design surface



Static Blade Limit by Percent — Static Blade Limit by Percent: dashed curved layers progressing from the original surface towards the mound design



Static Blade Limit By Absolute Value — Static Blade Limit by Absolute Value: horizontal dashed fill layers beneath a curved mound design



Combination of vertical blade offset + Ignore cuts — Vertical blade offset with Ignore cuts: dashed mound profiles rising from below the original surface