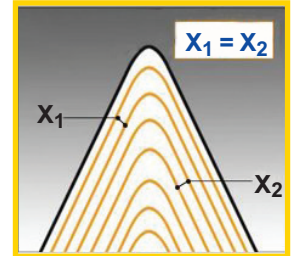


Tip 1

Thread turning - CONSTANT DEPTH chip method

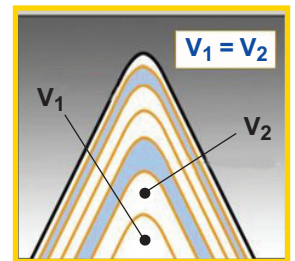
- The insert cuts a constant depth ($X_1, X_2 \dots$) in each pass
- The high load on the last passes reduces the tool life
- Easy to program the machine
- As the insert advances, more material is removed. As a result, the load on the cutting edge is increased
- Not recommended



Tip 2

Thread turning - CONSTANT VOLUME chip method

- The insert removes the same amount of material ($V_1, V_2 \dots$) in each pass
- The load on the cutting edge is constant
- Tool life is improved in comparison to constant depth chip method
- Since each pass removes the identical volume, the first pass requires a deeper cut. This sometimes causes a higher load on the first pass

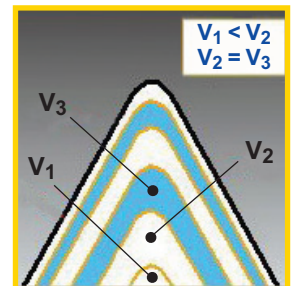


Tip 3

Thread turning - MODIFIED VOLUME chip method

Recommended!

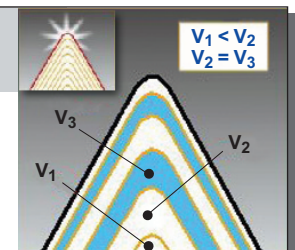
- Modified constant volume chip passes uses the same principle as the constant volume method, except that the first pass uses a smaller depth of cut (smaller volume)
- Advantages:
 - Constant load on all passes
 - No overload on the first pass
 - Improved tool life



One Final Tip

Super finish - Zero cut

- One or two additional passes taken at the same position as the final pass can provide improved surface finish



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