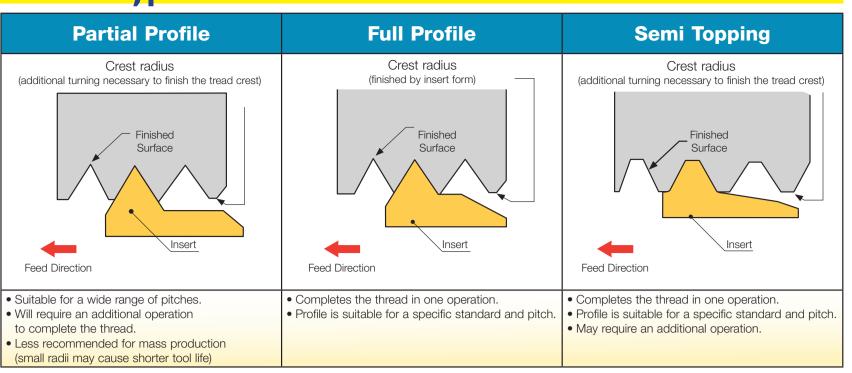
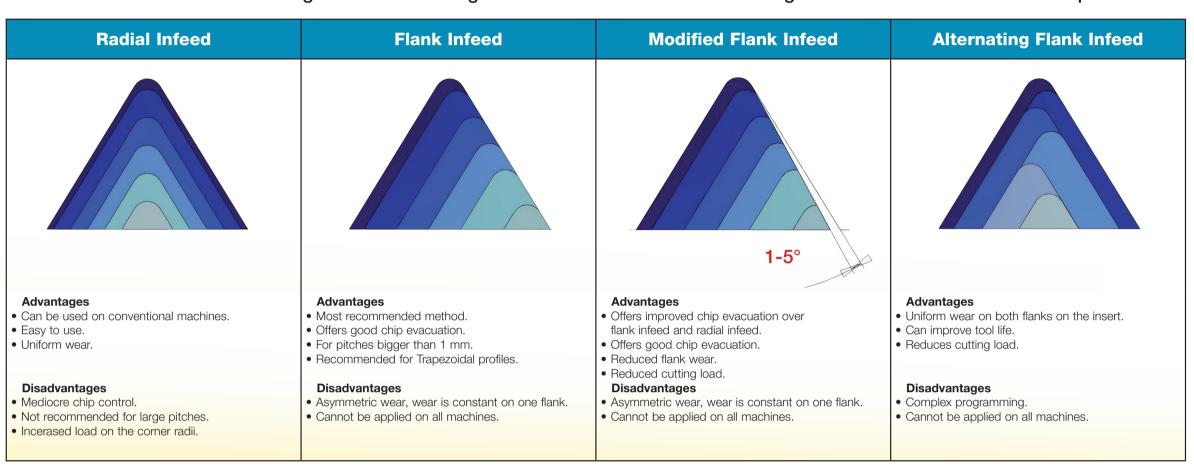
Insert Types

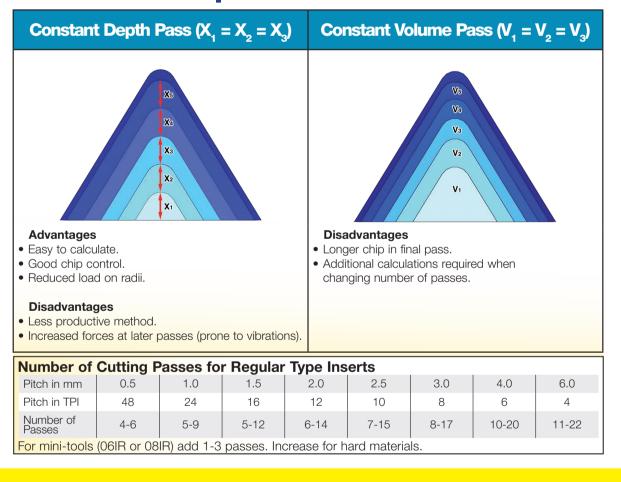


Infeed Methods

There are four main Infeed Threading methods. Choosing the correct one is crucial for achieving best tool life surface finish and chip evacuation.



Threading Depth, Constant Depth or Volume



Troubleshooting

Plastic Deformation	Premature Wear	Insert Breakage	Build Up Edge	Vibration	Incorrect Thread Profile	During 1st Pass
Cause	Cause	Cause	Cause	Cause	Cause	Cause
• Excessive heat in	Cutting speed too high	Wrong turned dia.	Cutting edge too cold	• Incorrect workpiece	Unsuitable threading profile	Cutting edge too cold
cutting zone	• Infeed depth too small	prior to threading	Wrong grade	clamping	Incorrect center height	Depth of cut too large
Wrong carbide grade	Highly abrasive material	Wrong grade	Inadequate coolant supply	• Incorrect tool setup	• Incorrect pitch in	Wrong grade
Inadequate coolant supplyDepth of cut too large	Inadequate coolant supplyWrong inclination anvil	Poor chip controlIncorrect center height	Incorrect cutting speed	Incorrect cutting speedIncorrect center height	the program	Wrong turned dia. prior to threading
 Depth of cut too large Cutting speed too high 	Wrong freination and Wrong turned dia.	• Incorrect center neight		Incorrect center neight		• Incorrect center height
Nose radius too small	prior to threading					Infeed depth too shallow
14000 Idaide too official	• Insert is above center line					Wrong inclination anvil
						Tool overhang tool long
Solution	Solution	Solution	Solution	Solution	Solution	Solution
• Reduce RPM /	Reduce RPM	Check turned dia.	Increase RPM / Increase	 Use soft jaws 	 Adjust to correct tool, 	Reduce RPM
Reduce depth of cut /	Modify flank infeed /	Use tougher grade	depth of cut	Check tool overhang /	anvil, and insert	Reduce depth of cut/
Check turned dia.	Increase depth of cut	Change to M-Type /	Use coated grade	Use anti-vibration bars	Adjust center height	Increase number of
Use coated grade /	Use coated grade	B-Type inserts and use	Apply coolant	• Increase cutting speed	Change the program	infeed passes
Use harder grade	Apply coolant Decelerate applies	modified flank infeed	Increase cutting speed	Check center height		Use tougher grade Chapter trumped alia
Apply coolant Paduse depth of out /	Reselect anvil Check turned dia.	Check center height				Check turned dia. Adjust conter height
 Reduce depth of cut / Increase no. of passes 	Check turned dia. Check center height					Adjust center heightChange depth of cut
 Reduce cutting speed 	• Officer center fleight					Reselect anvil
If possible use insert						Reduce tool overhang /
with larger radius						Use Anti-vibration bar
The larger radias						CCC, titti vibiation bai

Broken Nose