



# INFO

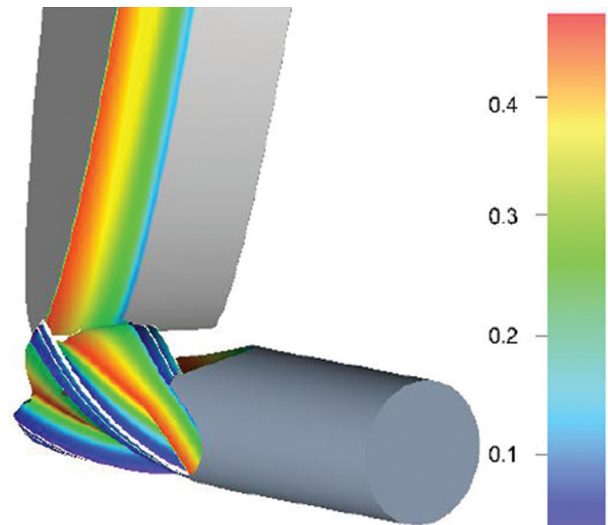
March 2011  
Feedrate Optimizer

## Feedrate Optimizer cuts cycle times up to 40%

**F**eedrate Optimizer is a new add-on to Walter's Helitronic Tool Studio grinding software that speeds up the feedrates to optimum values. This saves you up to 40% cycle time on some tools.

Feedrate Optimizer uses Tool Studio's intricate knowledge of grinding moves and the tool simulation model to calculate the instantaneous wheel load and machine load. It then sets the optimum feedrate at each point in the grind based on wheel load you specify. Moves with low wheel load are sped up and moves that exceed the desired wheel load are slowed down.

Besides cutting the cycle time, Feedrate Optimizer also extends wheel life and reduces dressing intervals, because wheels are designed for use with particular loads and surface footage values. Grinding either too fast OR too slow causes high rates of wheel wear.



*Feedrate Optimizer models the wheel load throughout the grind and adjusts accordingly*

Over for more 

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KÖRBER  
SCHLEIFRING



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Grind	OK	M	C	Clr	Operation	R-P	Appr	ΣNc...	ΣN...	L-O	R-R	Time
✓	✓	✓			End Of Tool Probing							00:05
✓	✓	✓		■	Fluting	↑↓	↻	0	0	↑↓	↑	02:28
✓	✓	✓		■	Gash	↑↓	↻	0	0	↑↓	↑	00:30
✓	✓	✓		■	Notch	↑↓	↻	0	0	↑↓	↑	00:08
✓	✓	✓		■	2. Od Clearance	↑↓	↻	0	0	↑↓	↑	00:46
✓	✓	✓		■	1. Od Clearance	↑↓	↻	0	0	↑↓	↑	00:47
✓	✓	✓		■	2. Ef Clearance	↑↓	↻	0	0	↑↓	↑	00:17
✓	✓	✓		■	1. Ef Clearance	↑↓	↻	0	0	↑↓	↑	00:16

Time
00:05
02:07
00:21
00:05
00:40
00:32
00:14
00:13

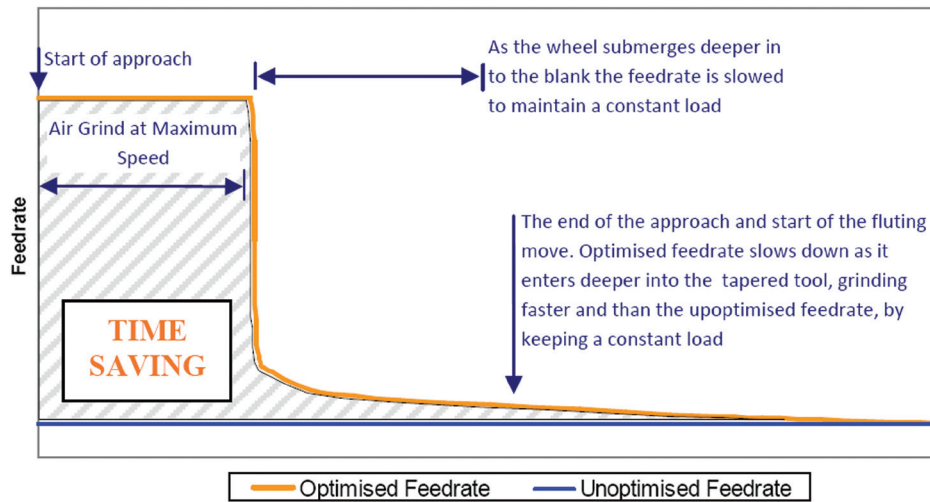
Optimize each operation with a click of a button

### In one recent example...

The grinding time for a standard 10 mm square endmill was reduced from 5:21 to 4:39, a saving of 13%. A more careful analysis that accounted for wheels shared between operations resulted in a grinding time of 4:20, a saving of 19%. For complicated tools, savings of 40% or more are possible.

### Will it work for you?

Feedrate Optimizer is an add-on that works with Tool Studio Version 1.8 and later versions. And it works with any tools you created with these versions, so you can optimize existing IDNs with one click.



**Give us a call!**  
**(540) 898-3700, Ext 2**  
*or click here for more info*

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