
"Green Motion" Mode

TISIS Optimove

Contents

1	Go Green!	3
2	The mode	3
3	The advantages	4

1 Go Green!

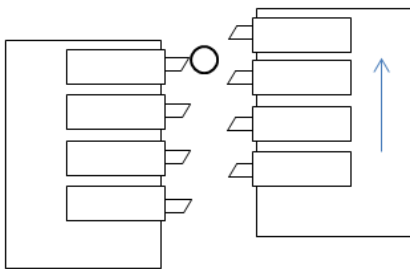
All programs on Optimove machines benefit from "Green Motion" mode as standard.

2 The mode

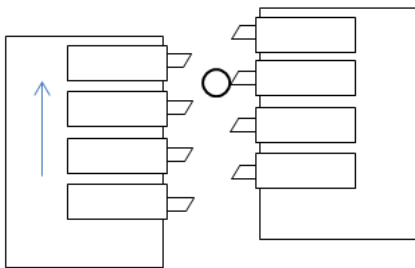
"Green Motion" mode allows you to slow down unproductive rapid movements (G0, G903, G905) if doing so does not penalise the overall cycle time for the workpiece.

In other words, it allows a tool to move into position to start machining just in time.

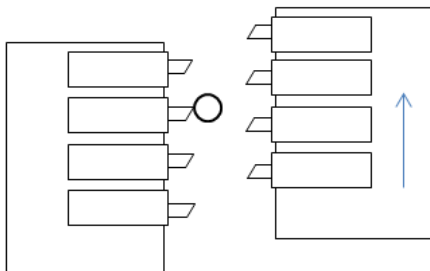
Example:



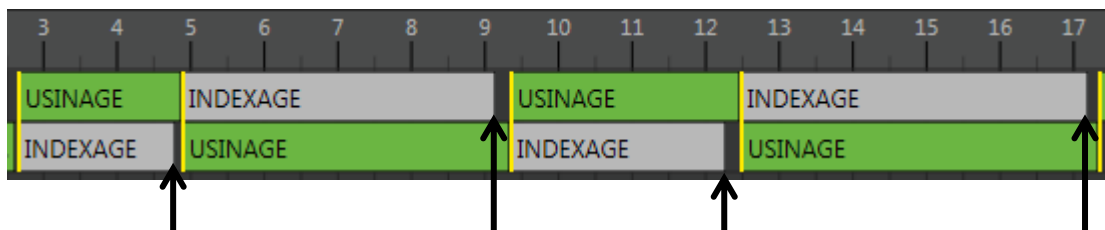
Machining with a tool on gang 2
In parallel, the tool on this gang 1 takes all of the time available to it to move into position.



Machining with a tool on gang 1
In parallel, the tool on this gang 2 takes all of the time available to it to move into position.



Machining with a tool on gang 2
In parallel, the tool on this gang 1 takes all of the time available to it to move into position.



The tool being indexed arrives in position to start the next machining just in time.

By default, this mode is active in TISIS Optimove.

If required, it can be deactivated in some program sections via G101, then reactivated using G100.

3 The advantages

"Green Motion" mode offers a number of advantages:

- Increased service life of mechanical components (*ball screws, bearings, etc.*)
- Reduced risk of collision during programme test phase
- Increased service life of tools
(*no jerking caused by sudden movements of the axes whilst a tool is in the material*)
- Improved surface finish quality
(*no jerking caused by sudden movements of the axes whilst a tool is in the material*)