

Optimized Contour Milling

TNC 640 Option #167

MEBINAR





CONTENT

- 1. Overview of possible applications
- 2. Optimized Contour Milling
- 3. Programming
- 4. Examples of use



Application possibilities at a glance

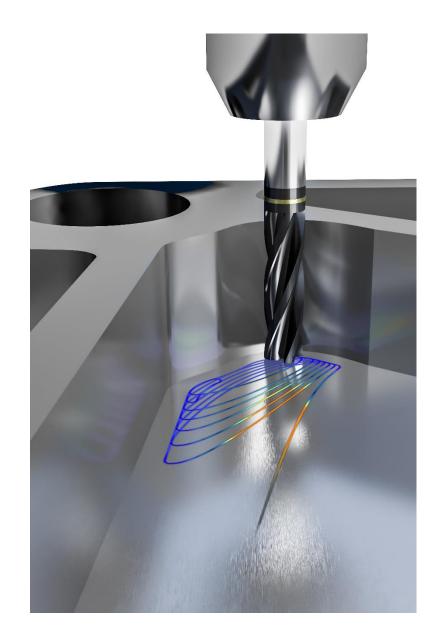
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Application possibilities at a glance

- Workshop-oriented programming of any pockets and islands
- Uniform engagement conditions allow significantly increased cutting parameters
- Particularly precise maintenance of the web overlap - even at inside corners



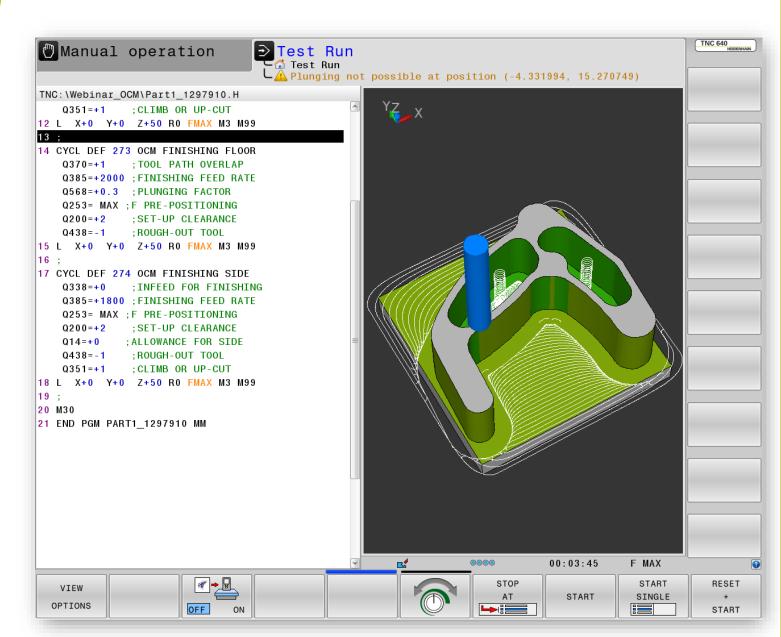
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- Easy programming
- Open, closed or partially open Outer frame
- Constant pressure angle
- Residual material detection

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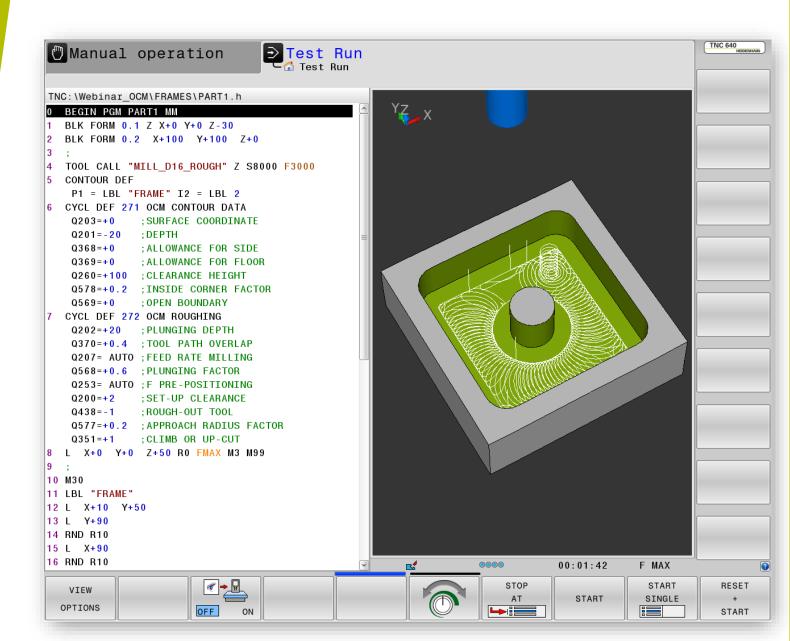






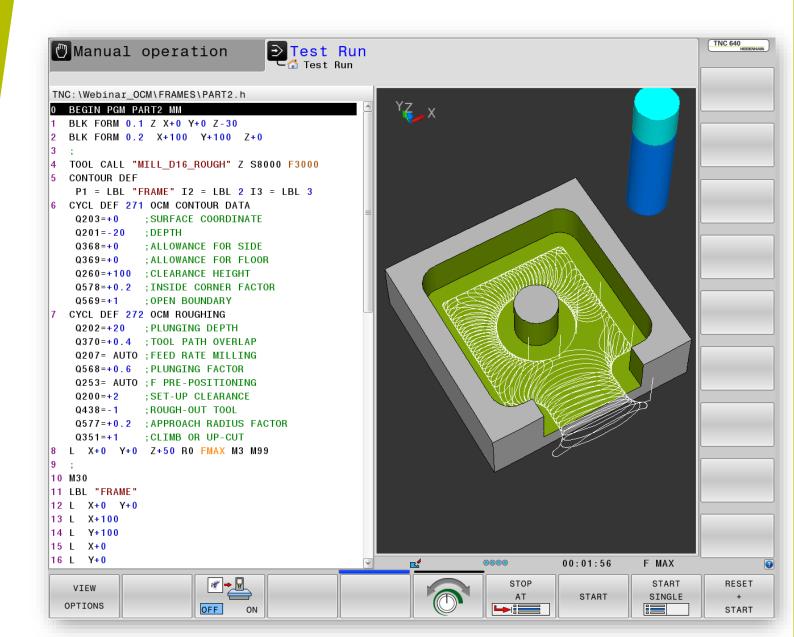
- Set contours, e.g.
 - Closed frame
 - Island





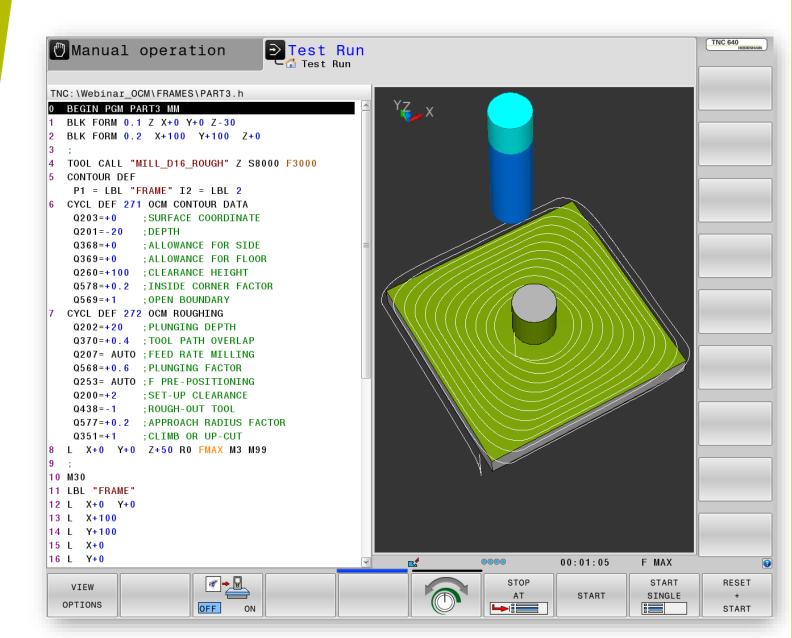
- Set contours, e.g.
 - Partially opened frame
 - Island





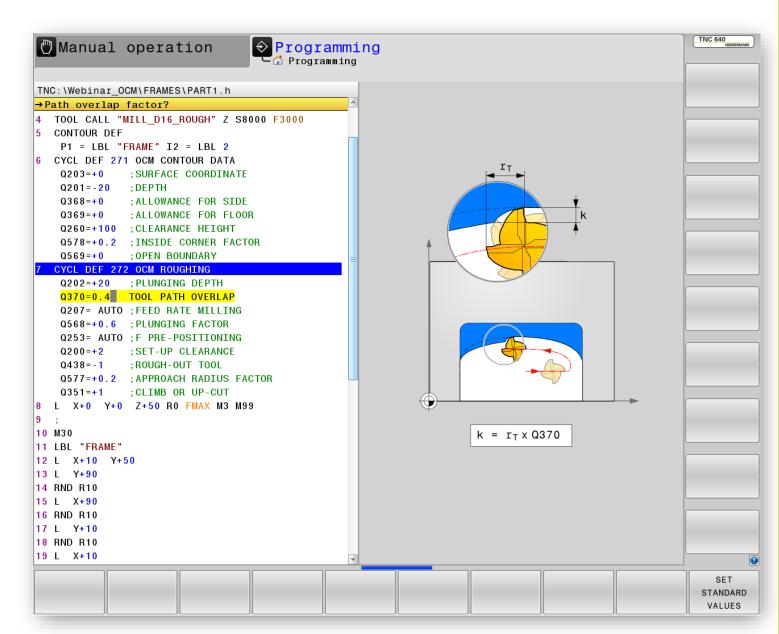
- Set contours, e.g.
 - Open frame
 - Island





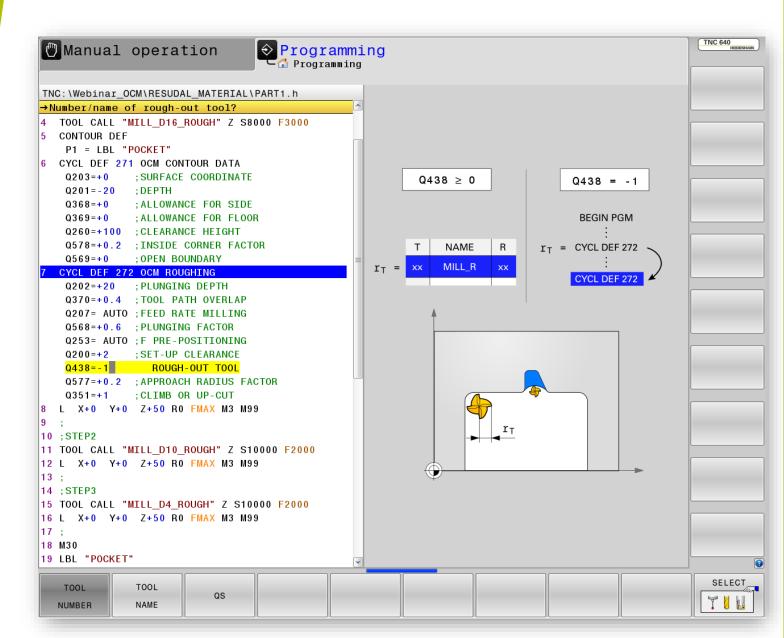
- Roughing
 - Path overlap (constant pressure angle on the tool)





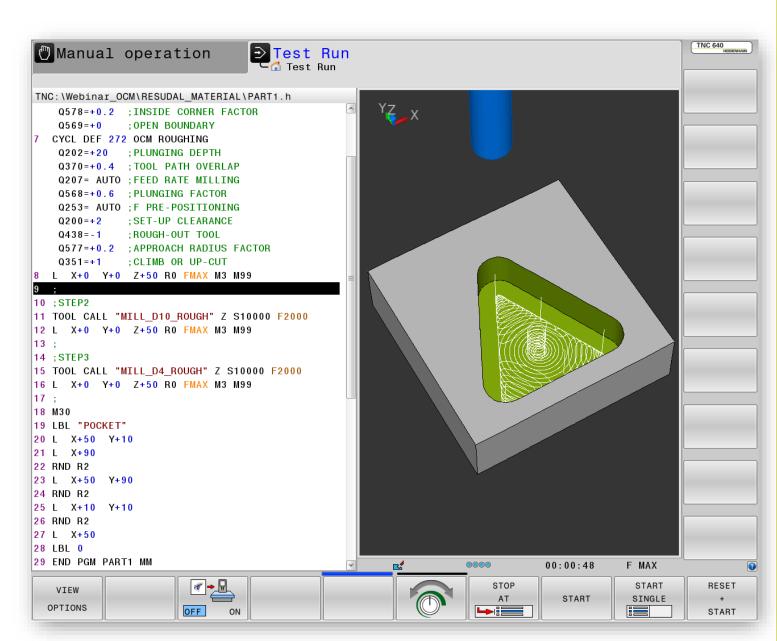
- Roughing (rest material)
 - Q438=-1 The tool radius is taken fromCycle 272





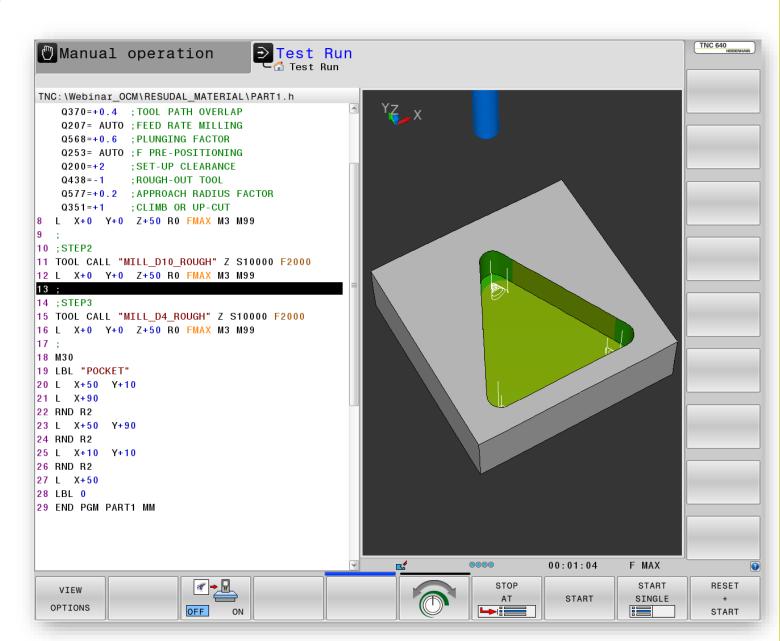
- Roughing (rest material)
 - Q438=-1 The tool radius is taken fromCycle 272
 - Tool end mill D16





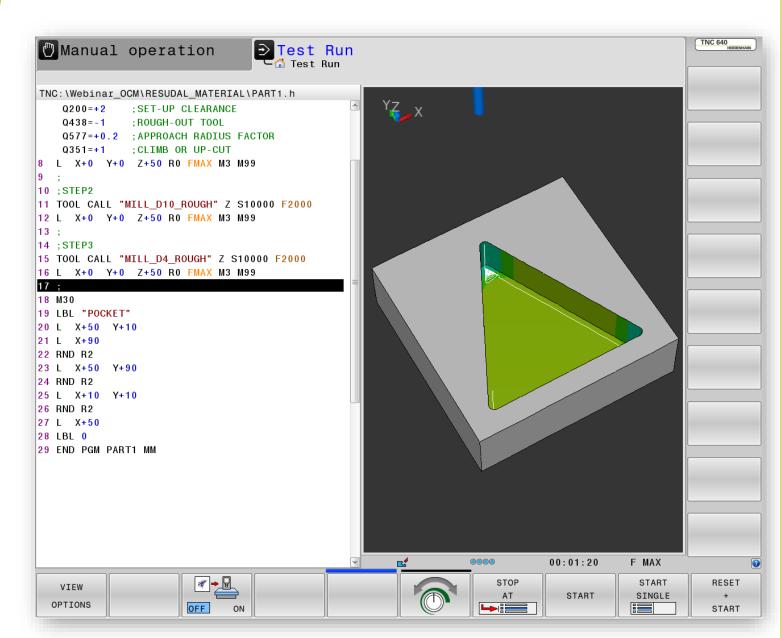
- Roughing (rest material)
 - Q438=-1 The tool radius is taken fromCycle 272
 - Tool end mill D10Remaining material from the D16 is removed





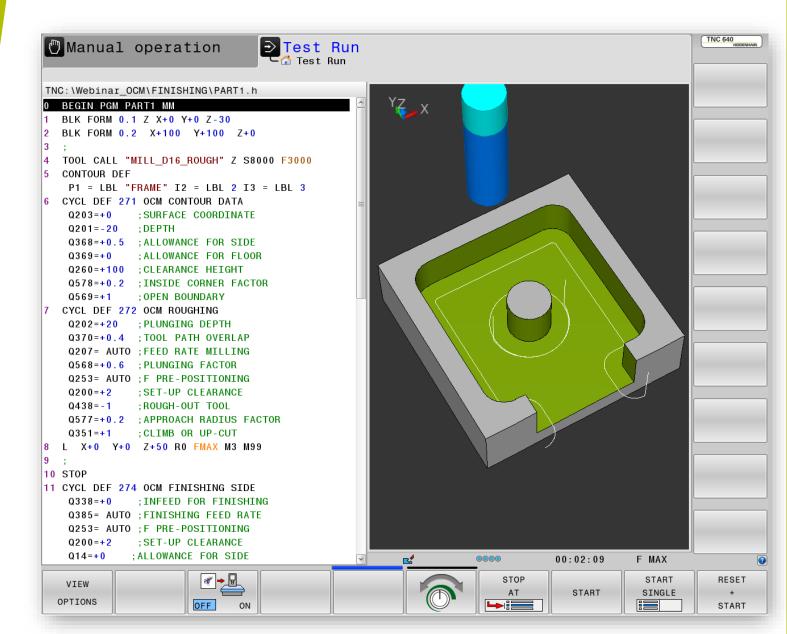
- Roughing (rest material)
 - Q438=-1 The tool radius is taken fromCycle 272
 - Tool end mill D4Remaining material from the D10 is removed





- Finishing
 - Optimum approach and departure movements

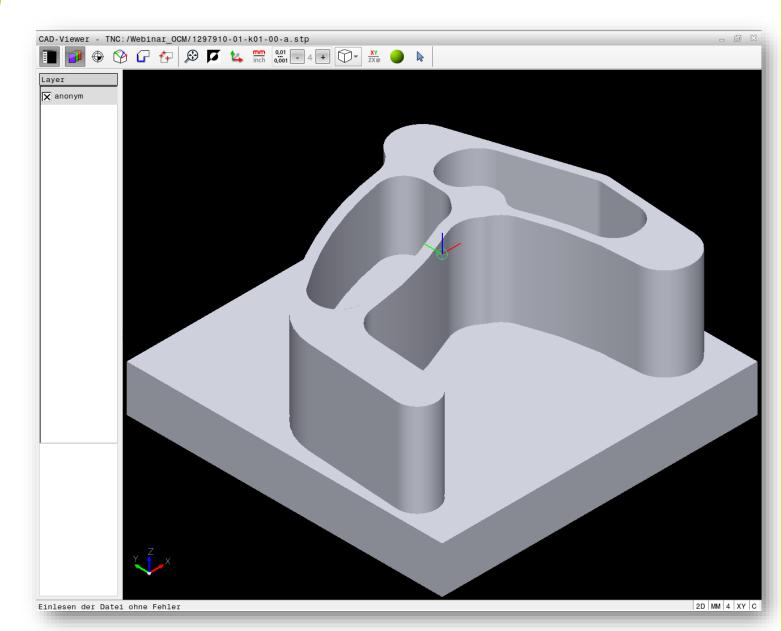






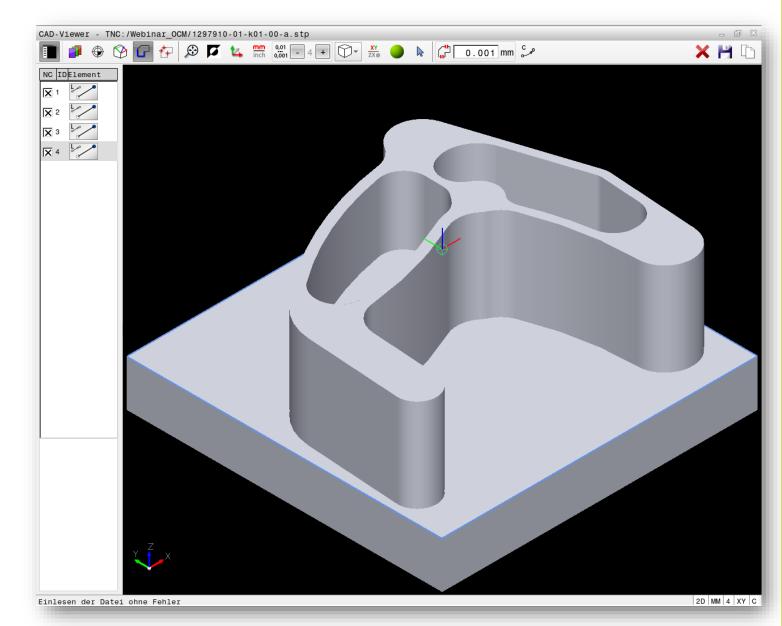
- Select contours
- Roughing T D16
- Residual material T D10
- Finishing





- Select contours
 - External contour FRAME
- Roughing T D16
- Residual material T D10
- Finishing

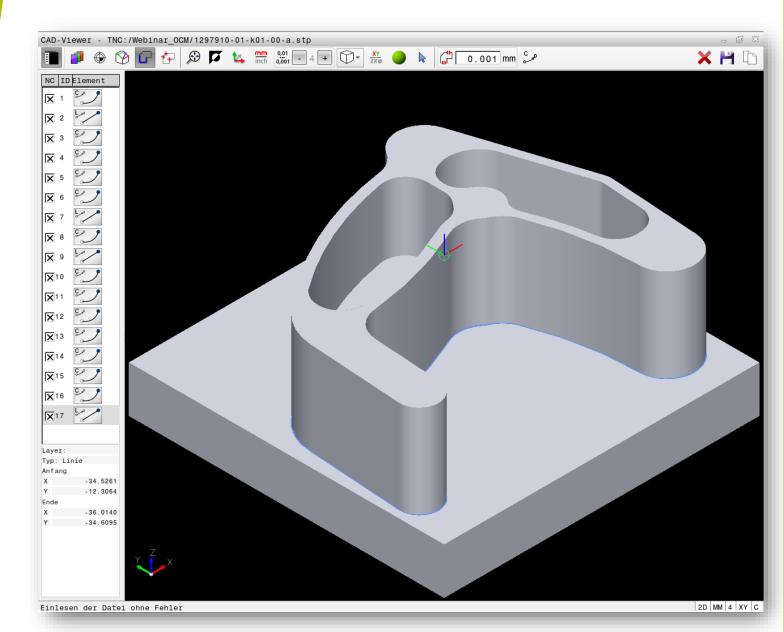






- Select contoursIsland contour ICELAND
- Roughing T D16
- Residual material T D10
- Finishing

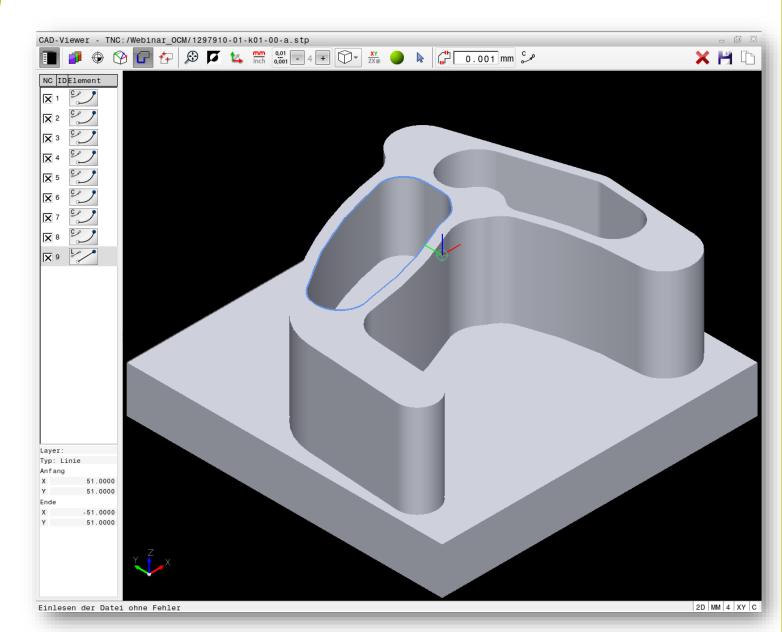






- Select contours
 - Bag 1
- Roughing T D16
- Residual material T D10
- Finishing

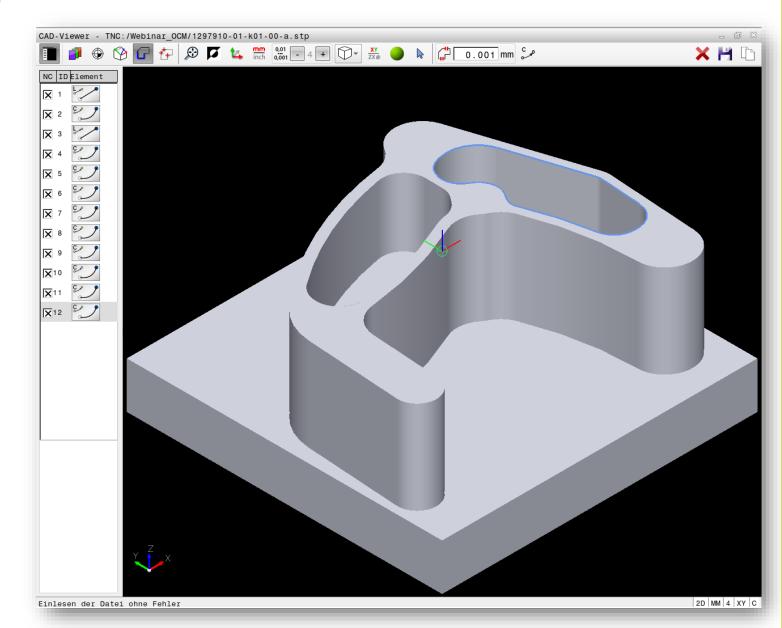






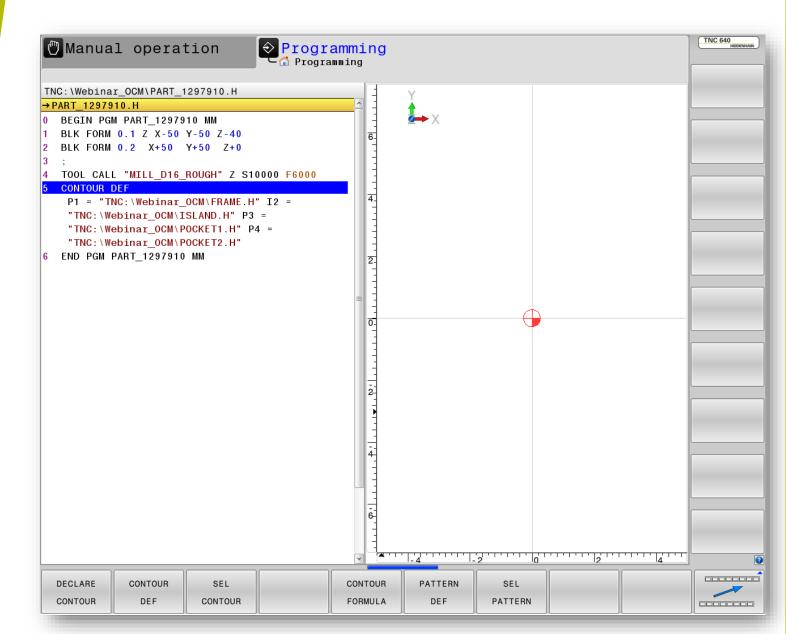
- Select contours
 - Bag 2
- Roughing T D16
- Residual material T D10
- Finishing





- Select contours
 - **Contour Def**
 - Combining four contours
- Roughing T D16
- Residual material T D10
- Finishing

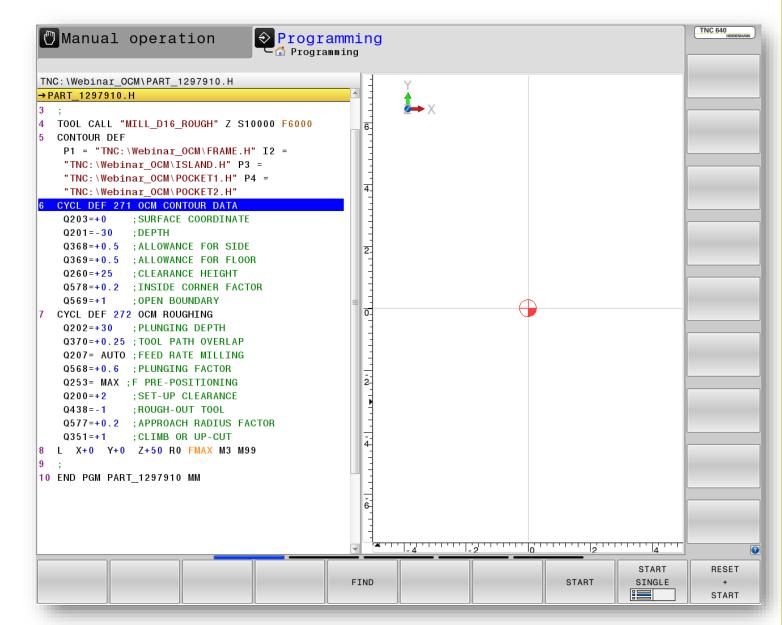




- Select contours
- Roughing T D16
- Residual material T D10
- Finishing

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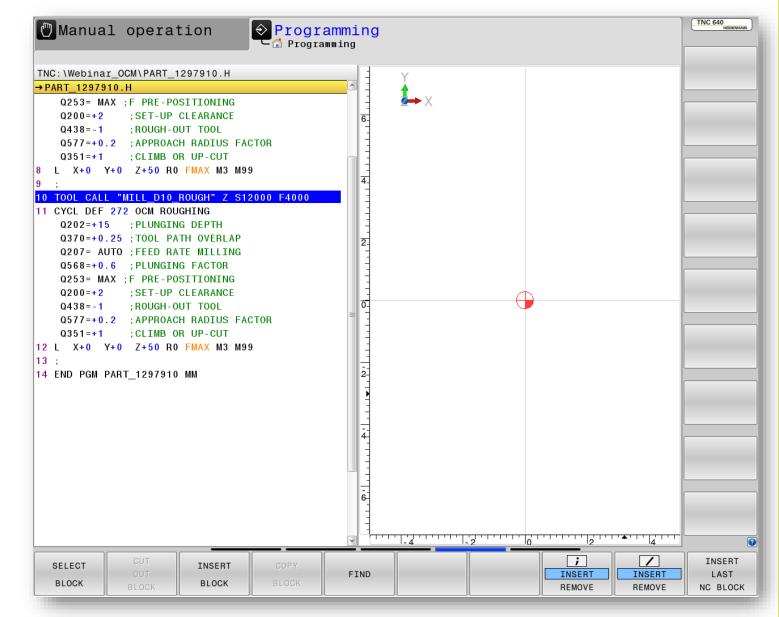




- Select contours
- Roughing T D16
- Residual material T D10
- Finishing

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- Select contours
- Roughing T D16
- Residual material T D10
- Finishing

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INSERT

REMOVE

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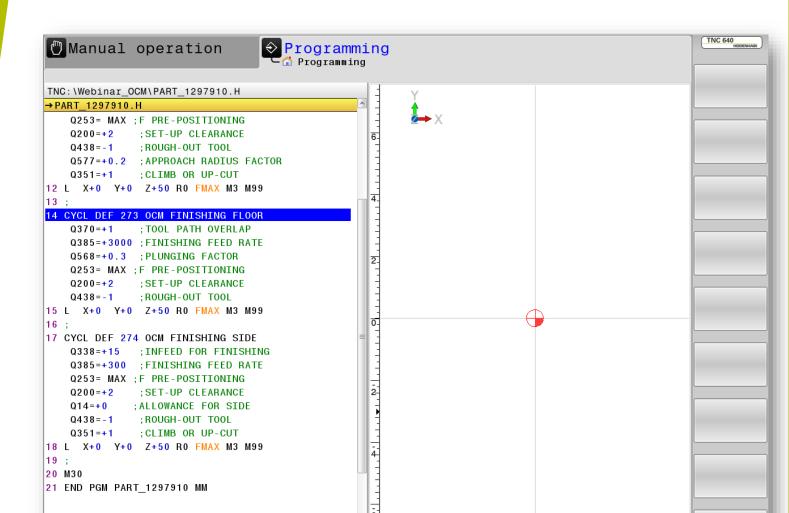
INSERT

REMOVE

INSERT

LAST

NC BLOCK



FIND

SELECT

BLOCK

INSERT

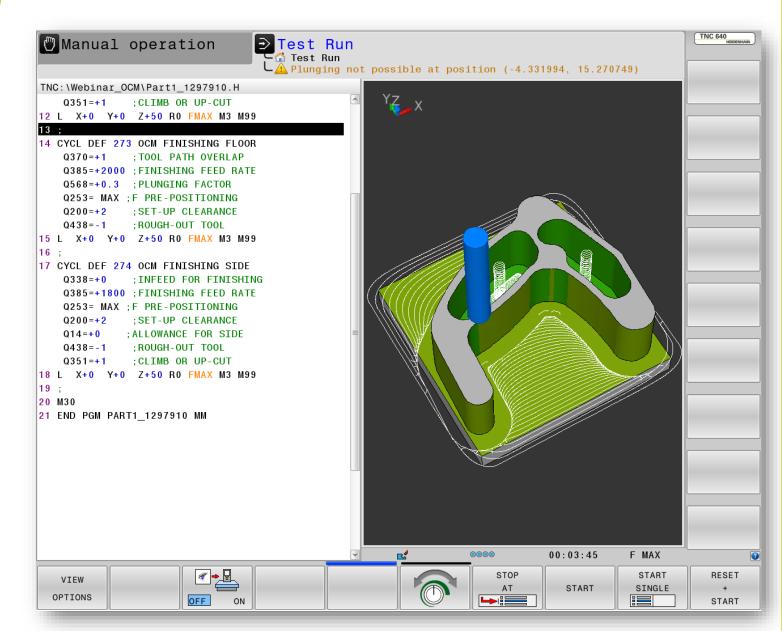
BLOCK

- Select contours
- Roughing T D16
- Residual material T D10
- Finishing

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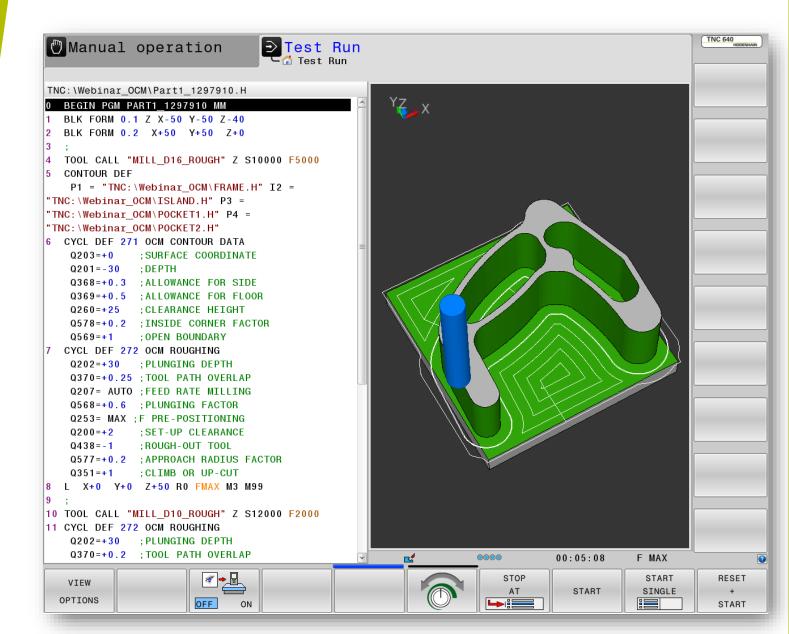
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- Select contours
- Roughing T D16
- Residual material T D10
- Finishing







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