

# NCSIMUL Machine | NCdoc

## Automatic generation of technical data for the workshop

## How do you manage your machining documentation?

- Do you spend too long creating and editing your production documents?
- Do you need to inspect parts at different stages of machining?
- Have you already worked with outdated document releases?
- Do you struggle to find the technical data sheet on time?
- Do you have errors in interpreting documents already caused quality defects?

**If you answered **yes** to any of the questions above, you need NCdoc**

## Benefits of NCdoc

- Edit and publish technical reports in one click (In-process control, tool sheets, etc.)
- Use standard documents to enhance communication between services
- Access all technical data sheets dynamically linked to the current NC program
- With clear, up-to-date instructions, reduce the risk of errors (accurate dimensional information) during machining

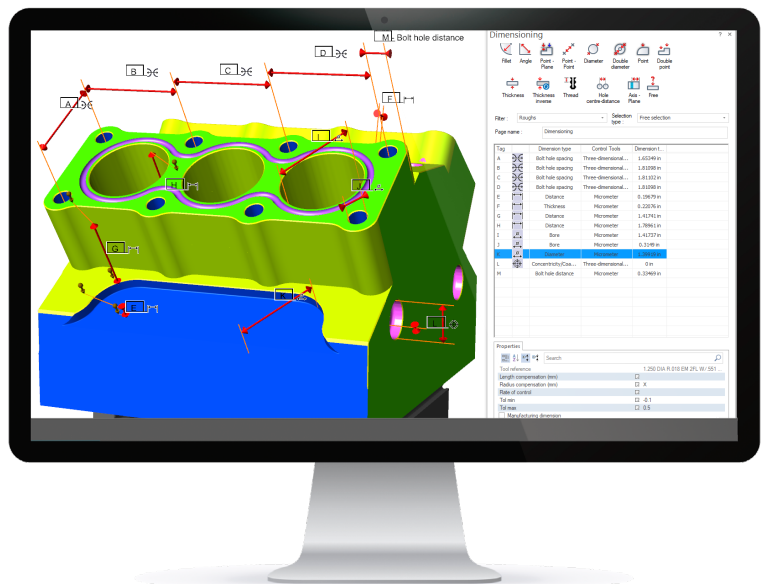


**If we can provide more information to do the setups faster, we're looking at a good return on the software investment"**

**Mark Erickson,**  
CNC programmer at Paragon Medical Inc.

## The NCdoc difference




- Smart wizard for data sheet editing: automated input, automatic collection of machining simulation data (3D, cycle time, cutting conditions, etc.)
- Predifined, customisable document library in corporate format





## Automatically edit and publish technical data sheets in the workshop

### 1 | Tool reports: tool characteristics

- Tool References
- List of components
- List of settings
- 3D tool visuals

T21 Ref: Bull_Nose Ø16 R1.6			
	Tool reference	Bull_Nose Ø16 R1.6	
	Tool type	Standard end	
	Tool length	80 mm	X gauges 0 mm
	Maximum depth of cut	0 mm	Y gauges 0 mm
	Corner radius	16 mm	Z gauges 126 mm
	Corner radius	16 mm	Radius 0 mm
	Coating type	0 mm	
	Non-coating value	0 mm	
	Length under spindle	0 mm, 10 mm, 126 mm	
	Tool type	Accessories 3D CAD	
T16 Ref: Flat Ø10R1			
	Tool reference	Flat Ø10R1	
	Tool type	Standard end	
	Tool length	80 mm	X gauges 0 mm
	Maximum depth of cut	0 mm	Y gauges 0 mm
	Corner radius	10 mm	Z gauges 140.35 mm
	Corner radius	10 mm	
	Coating type	0 mm	
	Non-coating value	0 mm, 10 mm, 140.35 mm	
	Length under spindle	0 mm, 10 mm, 140.35 mm	
	Tool type	Accessories 3D CAD	
T17 Ref: Flat Ø10R1			
	Tool reference	Flat Ø10R1	
	Tool type	Standard end	
	Tool length	80 mm	X gauges 0 mm
	Maximum depth of cut	0 mm	Y gauges 0 mm
	Corner radius	10 mm	Z gauges 110.35 mm
	Corner radius	10 mm	
	Coating type	0 mm	
	Non-coating value	0 mm, 10 mm, 110.35 mm	
	Length under spindle	0 mm, 10 mm, 110.35 mm	
	Tool type	Accessories 3D CAD	

Sequence 1/7		T30 Bull_Nose Ø25 R2.75				
Original used	G04	Compensation (mm)	20	(+/-) mm	10-2 mm	20-150 mm
Length compensation used		Compensation (mm)	20	(+/-) mm	10-2 mm	20-150 mm
Sequence time	0:20:21	Cutting time	0:01:18	Rapid time	0:01:18	
Comment		Cutting distance	200 mm	F Max	200 mm/min	F Range
					100-100 mm/min	0-200 mm
						
Sequence 2/7		T30 FLAT Ø16				
Original used	G04	Compensation (mm)	20	(+/-) mm	10-2 mm	20-150 mm
Length compensation used		Compensation (mm)	20	(+/-) mm	10-2 mm	20-150 mm
Radius compensation used		Compensation (mm)	20	(+/-) mm	10-2 mm	20-150 mm
Sequence time	0:20:21	Cutting time	0:01:18	Rapid time	0:01:18	
Comment		Cutting distance	200 mm	F Max	200 mm/min	F Range
					100-100 mm/min	0-200 mm
						

### 2 | Process reports: description of machining process

- Part setup
- Spindle speed, feed rate and tool compensation data

### 3 | Instruction reports: customisation based on user needs

- Description of actions (machine stops)
- Machining history
- Operation check list

HEXAGON   NCSIMUL		ORG WORK DATE		TODAY'S DATE	
PROJECT TYPE		ISSUE NUMBER NO		DOCUMENT NO	
Machine name		Tool PROJECT		Tool REPORT NO	
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