NCVIEW 2020 NCVIEW Neo 2020 NCVIEW MC3 2020

NCVIEW / NCVIEW Neo / NCVIEW MC3 2020 Release Notes

- A) New Feature Overview
- B) Main Improvements and Modifications

(Improvements and modifications after release of NCVIEW / NCVIEW Neo /NCVIEW MC3 are listed)

- C) List of Support Reception Numbers
- D) Operating Environment

The numbers listed in parentheses () in the descriptions below are Support Reception Numbers See the Previously reported Support responses.

Marks indicate supported modules:

Neo: NCVIEW Neo, MC3: NCVIEW MC3, SOLID: NCVIEW SOLIDwatch

MULTAX: NCVIEW MULTAXwatch, **TURN**: NCVIEW TURNwatch, **TOOL**: NCVIEW TOOLwatch

A) New Features Overview

- **1.** Expanded the Tilted Working Planed command.
- Added to support Tilted Working Plane command based on Roll-Pitch-Yaw (201605003)





- 2. Added to support automatic tool offset amount settings
 - It possible to set tool length compensation amount and cutter compensation amount collectively from the registered tool shape

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👺 Manu	ial attachment	Switch	Delete	Delete all	View 🐨	© 8 D H F	Milling	Furning				
lumber	Туре	Comment	Dimension	15	Whole	Holder	Tool					
1	Flat end		D:24.0000	L:100.0000 E:	300.0000	6	TTT I	Flat end	TT .	Ball end	Ш	Bullnose
2	Ball end		D:30.000	L:100.0000 E:	160.0000	5			•			
3	Flat end		D:30.0000	L:100.0000 E:	300.0000	6		Taper	-	2-tier taper	-	Ball taper
4	Flat end		D:30.0000	L:200.0000 E:	400.0000	6	V		V		V	
5	Flat end		D:20.0000	L:200.0000 E:	400.0000	2		Elet terrer		T also with D	-	T a lat with a st D
6	Drill		D:15.0000	L:200.0000 E:	320.0000	4	\mathbb{V}	riat taper	d d d	I SIDE WIRLE	1	I SIDE WITHOUT R
7	Flat end		D:35.0000	L:200.0000 E:	400.0000	6		_				
8	Drill		D:30.0000	L:100.0000 E:	200.0000	7		Тар		Boring		Drill
9	Flat end		D:40.0000	L:100.0000 E:	140.0000	8						
10	Drill		D:20.0000	L:100.0000 E:	500.0000	9	Ŧ	User definition				
11	Ball end		D:6.0000	L:65.0000 E:50	165.0000	0						
12	Taper		D:0.6000	L:100.0000 E:8	200.0000	0	Holder					
13	Ball end		D:10.0000	L:100.0000 E:	200.0000	0		1 tier	W 7	Taner		2 tiers
14	Flat end		D:10.0000	L:100.0000 E:	200.0000	0		i dei	<u> </u>	raper		2 tiers
15	Bullnose		D:30.0000	L:100.0000 E:	200.0000	0						
16	Mill		D:27.0000	L:100.0000 E:	200.0000	0	\square	2-tier taper	T T	User definition	T T	Combination
1/	Drill		D:12.0000	L:100.0000 E:	200.0000	0						
18	Boring		D:18.0000	L:100.0000 E:	200.0000	0	Attachr	ient				
19	Ball end		D:9.0000	L:200.0000 E:1	300.0000	0		FixedC		FixedBC		FixedEILE
20	Plat end		D:12.0000	1 L:90.0000 E:6	190.0000	0						
90	Dall end		D:30.0000	L:200.0000 E:	300.0000	E		LINIPC		UND-DC		INDO-EV
01	Flat end		D:80.0000	L:100.0000 E:	160.0000	5	U U	UNIBC		UNID-BC		UNIBO-EA
07	Patiend		D:10.0000	L:100.0000 E:	200.0000	0			_			
05	Dalleriu		D:20.0000	L:100.0000 E:	200.0000	2	144	Template ·	•			
0	1 tier		D:40.0000	L:100.0000 L.	330.0000							
H 1	2-tier taper		D: 70,0000	1.1.40.0000			Offeret	alua				
W 2	Taper		D:120.000	0 1:200 0000			Unserv	aiue	_			
W 3	2 tiere		D:40.0000	1 :350 0000			_ − I →	Diameter	-Tr	Length	وللغ ا	Lathe
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- 3. Enabled to more precise totaling of processing time and process flow
 - Expanded to set individually of rapid traverse feed rate on additional axis (U, V, W Axis)
 - Expanded to process flow can be divided and output with M00

Tool length + holder length Tool control point Process change condition	» > < «	Cutting distance Rapid traverse time Cutting time Auxiliary time Processing time End time Holder comment Z minimum Sequence number	^	*
Process change conditions :				

4. Added the check function of cutting depth for Canned cycle

It possible to specify the upper limit of cutting depth parameter Q in drilling tool when deep hole cycle commanded

Milling tool settings			? ×
Tool number T	0	Report Cutting condition Drilling condition	
Comment		Tool number in the previous process	
Holder number	0 ··· Details	© (vone) ↓ 0 (vone) ↓ 0 (vone) ↓	
Cutting color	11 🗸	process just before Use one of the tool numbers from the previous	
	No cutting by the bottom of the too	Use all of the tool numbers from the previous	
	Attachment-integrated type	Cutting depth 30.0000	
Preview		Shape parameter	Control point
		Type Drill Tool length Tool length 5.7735	0.0000 V Parameter registration
н	older length 100.0000	Tip angle	
Cutting part displa	hole length 200.0000	Tool diameter 20.0000 V	
Continue registratio	Add template	Master	egister Close

- 5. Expanded the OSP controller
 - Supported "IF-THEN" directive
 - Supported contour generation and coordinate system conversion (201102006)
 - Supported XZC 3-axis simultaneous control of G101 contour generation
 - Supported common variable V
 - Expanded workpiece coordinate system on MULTUS
- 6. Expanded SIEMENS controller
 - Supported Helical interpolation
 - Supported parameter of maximum retraction in tool direction in CYCLE800 (201906004)
- 7. Expanded the FANUC controller
 - Expanded P-CODE variables

- 8. Expanded the HEIDENHAIN controller
 - Added to support Three-dimensional tool compensation (LN X_Y_Z_TX_TY_TZ_)
- 9. Expanded the TOSNUC controller
 - Added to support Symbol Definition operation (DS operation) based on TOSNUC
- 10. Expanded the option parameter of tool offset number

Added the following machine commands. Please refer to the HELP.

NC_PARAM SETD_OFFSET NC_PARAM SETD_WEAR NC_PARAM SETL_OFFSET NC_PARAM SETP_OFFSET NC_PARAM SETP_WEAR

- 11. Improved usability
 - Increase the maximum number of MACLIB file
 - Reload configuration file

B) Main Improvements and Modifications

- Improved scope of coolant and spindle rotation check when cutting off
- Fixed G53 fixture offset cancel directive for TOSNUC
- Fixed unauthorized processing at tool tip boundary point of "user defined turning" and "user defined drilling" settings
- Fixed canned cycle repetition during tool position offset (201802009)
- Fixed model comparison
- Fixed temporally files failure
- Fixed STL file input of VirtualMachine
- Improved the movement of slant rotating axis
- Fixed slide operation error in Workpiece Jig Settings Dialog
- Fixed Tool change process when the axis name and address are different in VirtualMachine
- Fixed "Set Component" of VirtualMachine
- Improved processing of incorrect format NC data in SIEMENS
- Fixed SIEMENS drilling cycles with _AMODE parameter

- Fixed Status Display (SIEMENS Tool length offset)
- Improved Status Display (HEIDENHAIN)
- Fixed coordinate system comparison of CUTCOMP_T
- Fixed input process of attachment number
- Improved collision and approach adjudication (201901001)
- Improved Status Display (SIEMENS compensation amount)
- Fixed allowable axis direction of SIEMENS CYCLE800 (201902007)
- Fixed R variables processing (201903006)
- Fixed Tool Center Point Control operation (when pivot length is negative)
- Fixed stroke error processing of SIEMENS CYCLE800 (_ST parameter)
- Fixed retraction process of SIEMENS CYCLE800 (_FR parameter)
- Fixed loading process of MACHINE file (.mch)
- Fixed the adjustment amount of STL operation
- Fixed conversion process from STL to workpiece shape
- Show the current file name at project file saving (201908001)
- Improved collision adjudication when the turning tool contacts the workpiece (201310003)
- Improved accumulated time accuracy of axis motion time in tool center point control operation (201604005、201905005)
- Fixed rotate direction failure during tool center point control operation (201902006)
- Improved macro argument processing
- Fixed delete operation of combination holder process
- Fixed preview of "user defined holder"
- Fixed ESC key process at holder settings dialog
- Improved break point process after create the process flow
- Improved "Excessive offset vector" process of cutter compensation on FANUC (201908003)
- Improved false recognition of sub-program on MELDAS (201909003)
- Fixed incorrect model comparison of specific workpiece placement
- Fixed file list error at DXF Drawing

C) List of Support Reception Numbers

201802009、201901001、201902007、201903006、201908001、201310003、 201604005、201905005、201902006、201908003、201909003、201605003、201906004

D) Operating Environment

< NCVIEW / NCVIEW Neo 32-bit Version >
Windows 10 / Windows 10 64bit
Windows 8.1 / Windows 8.1 64bit
Windows 7 / Windows 7 64bit
XAlso operates on 32-bit if installed on a 64-bit OS.
< NCVIEW Neo 64-bit Version/ NCVIEW MC3>
Windows 10 64bit
Windows 8.1 64bit
Windows 7 64bit
16 GB or higher (64bit) / 2 GB or higher (32bit) recommended
Intel Core i7 recommended
NVIDIA recommended

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