

A2 OPERATION PROCEDURE

HEIDENHAIN_PROCEDURE FOR

BACKUP&RESTORE BY BUILT IN WAY.DOCX





Online Backup procedure	3
Online Restore procedure	8





Online Backup procedure

Move cursor to bottom screen of commend column

Select Menu > Tools > NC/PLC Backup



Select Complete backup (TNC: and machine configuration) Press FORWARD soft key

Manual	operatio	n		PL	C progra	mming	Non		
Complete data	backup								
+ Select + type +	Exit the NC +	DEM + Excl password + rule	usion + Generate ; s + list	a + Check the list	+ Select a target	+ Generate a backup	+ Finished		
			Specify the type of	of backup					
O Back up the "	TNC:" partition								
O Back up the d	irectory tree								
		TNC:							
Back up the n	Bark up the machine configuration								
 Complete bac 	kup (TNC: and mach	ine configuration)							
Comment:									
BACK	FORWARD	SELECT A	SELECT A				END		
		MODE	FOLDER						

3 表單編

AXILE agile smart machining Press FORWARD soft key

	-1	onoration	101									progr	amn	ning		A DECEMBER OF THE OWNER OWNER OF THE OWNER
Complete da	ta	backup														_ 0 ×
+ Select type	+	Exit the NC	+ 0 p;	EM assword	÷	Exclusion rules	+ 1	Generate a ist	÷	Check the list	+	Select a target		+ Generate a backup	+	Finished
	ī					C	lose th	ne NC so	ftwa	re						
	The	anntan lin still su		a and sught												
	fine	control is still ru	unnin weisele	ig and ough		e stopped.	ma datu	a maximat k		naistant						
	Exar Con	nples include the firm the emerge	ie too ncy s	bl table or an stop before y	ny ex ny ex ny ex	isting encry un the "STO	pted PL P NC S	C partition. OFTWARE" :	soft k	ey.						
			_													
васк		FORWARD		STOP I SOFTW	NC ARE											END

Password for OEM: enter 807667

Press FORWARD soft key

Manual operation		PLC programming	
+ Select + Exit the + OEM 	+ Exclusion + Generate a rules + list	+ Check the + Select a + Generate list + backup	a + Finished
807667 Password for OEM:	Enter the OEM pas	ssword	
BACK FORWARD			END

Select "Use the default exclusion rules" Press FORWARD soft key



AXILE						
	ı			C progra	imming	And a state of the
Complete data backup + Select + Exit the + Of type + NC + pa	EM + Exc assword + rule	lusion + Generate a	a 🕂 Check the list	+ Select a target	+ Generate a backup	+ Finished
Use the default exclusion rules Duse customized exclusion rules Do not archive the following files: Intervention Note: No		Specify the exclus	sion rules			
BACK FORWARD	USER RULES	RESET THE FILTER				END

Press FORWARD soft key

Manual	operation	.on		(tele second se	PLC progra	imming	And a state of the
Complete data	backup						_ = ×
+ Select + type +	Exit the + NC	OEM + Ex password + ru	clusion + les	Generate + Check a list + list	the + Select a target	+ Generate a backup	+ Finished
			Che	ck the file list			
	File nome	L Eve	ĩ	Director	~) ci	
0122	File fiame	Exc	TNC	Director	у	51	194
0134			TNC:				184
✓ 036A			TNC:				1kB
✓ 03-R8L70			TNC:				255kB
✓ 042A1		d.	TNC:				1kB
✓ 042A2		.i	TNC:				1kB
✓ 042Aa		.i	TNC:				1kB
✓ 042A		.i	TNC:				3kB
✓ 045A		.i	TNC:				1kB
✓ 067A		.i	TNC:				2kB
✓ 0913		.i	TNC:				1kB
✓ 12345		.н	TNC:				111
✓ 154A-0612		.i	TNC:				1kB
🔽 196A		.i	TNC:				1kB
✓ 1		.h	TNC:				190
20180510		.SCO	TNC:				1MB
✓ 2093a		,i	TNC:				3kB
✓ 3038A		.i	TNC:				1kB
5058 / 5160	Files			461 / 1328 MByte	2S		
васк	FORWARD	SELECT/UNSLT	SORTIN	G MULTIPLE SELECTION			END

Select save to USB stick or Save to another folder

Next example is indicated as "Save to another folder".

Select "Save to another folder"





agile	smart	machinina						
٢	Manual	operation	on		Ð	PLC progra	amming	North Contraction of the second secon
Comp	lete data	backup						_ 0 🛛
+ Sel typ	ect +	Exit the + NC	OEM + Ex password + ru	clusion + Gen les + a lis	erate + Check t t list	the + Select a target	+ Generate a backup	+ Finished
			Def	îne the target di	rectory and file na	ame		
	Arch	ive name: nb-r21-3	40595-2019-11-15-fu	II			.tn	cbck
	O Sa	ave to USB stick						
	• Sa	ave to another folde	r					
		~						
	E		lider does not exist					
	Free	memory: 0 MB. Exp	ected size: 231 MB		1	()		
		FORWARD	USB/ FOLDER	SELECT A FOLDER				END

Select TNC

Press OK soft key

Manual	operation		PLC programming	A Marine Marine
Complete data	hackup		La T/O force list is est	X
oomproto data	Select the targ	et directory		
+ Select + type +	⊘ Recent	mnt tnc	II.	+ Finished
	🔂 Home	Name	Size Modified	
		🗎 1.h	190 bytes Yesterday	
	Desktop	3AXIS_RUN.H	156 bytes Yesterday	
Archi		03-R8L70.I	261.2 kB Mon	cbck
	PLC:	📄 3run.h	225 bytes Yesterday	
O Sav	_	📄 5run.h	225 bytes Mon	
	PLC:\config	📄 013A.i	2.0 kB Yesterday	
		📄 036A.i	1.9 kB Mon	
• Sav	PLC:\config.bak	042A.i	3.1 kB Yesterday	
	1	042A1.i	1.9 kB Yesterday	
	PLC:\table	042A2.i	1.9 kB Yesterday	
	- cc	042Aa.i	1.9 kB Yesterday	
	🔄 SF:	045A.i	1.9 kB Mon	
_	SYSTEM-	067A.i	3.0 kB Mon	
		0123.h	184 bytes Yesterday	
	TNC:	154A-0612.i	2.0 kB Yesterday	
		196A.i	1.9 kB Yesterday	
	L Other Legations	0913.1	1.9 kB Mon	
		2093a.1	3.1 KB Mon	
		3038A.I	1.9 kB Mon	
		0000 U	1.9 KB testerday	
		B 13245 H	94.7 KD Testerday	
		E 12343.11		
			Cancel Open	
Free				
OK				CANCEL
UK				GANGEL

Press FORWARD soft key



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Manual operati	on	Ð	PLC progra	mming	and the second
Complete data backup			T/O forno li	ot is set	- • ×
+ Select + Exit the + NC +	OEM + Exclusion - password + rules	Generate + Check a list + list	the + Select a target	+ Generate a + backup +	Finished
	Define the tar	get directory and file n	ame		
Archive name: nb-r21-	340595-2019-11-15-full			.tncbc	k
O Save to USB stick					
Save to another fold	er				
TNC:)
Free memory: 17852 M	IB. Expected size: 231 MB				
BACK	USB/ SELEC FOLDER FOLDE	T A R			END

Press OK soft key

Manua	al operation	Lon				LC progra	amming	and the second s
Complete da	ta backup							_ 0 ×
+ Select type	+ Exit the + NC +	OEM password	Exclusion rules	+ Generat a list	e + Check th list	ne <mark>+</mark> Select a target	+ Generate a backup	+ Finished
			The ba	ackup has b	een created			
т	he backup was made	e without warning						
Ir	nformation on the arc	chive:						
F	ile name		nb-r21-34	0595-2019-11	-15-full.tncbck			
	lumber of files:		5058 186MB					
	Incompressed size:		461MB					
BACK								
SAON	ОК							END
	OK							LND

Backup complete, the backup file is save in instructed path (TNC:\)





AXILE agile smart machining Manual operatio	n PLC programmi	Ng programming			and the second second
IH-⊐ LOG: IH-⊐ PLC: IH-⊐ SF:	TNC:*	s active full.tncbck			"Manhathi
œ-⊜ TNC:	♣ File name	Bytes Sta	tus Date	Time	
	pp_r21_3/0595_2019_11	187M	15,11,2019,01	2 • 5 4 • 4 2	
	water	716	13 11 2019 0	9.29.42	
	Water RUN-ACaxis-S.H	385	13-11-2019 0	9:29:42	
	TCHPR451 A.A	977	13-11-2019 09	9:29:42	
	AC-TEST.h	201	13-11-2019 05	9:29:42	
	3069A.1	1865	13-11-2019 09	9:29:42	
	042Aa.i	1888	13-11-2019 09	9:29:42	
	042A2.i	1884	13-11-2019 09	9:29:42	
	042A1.1	1913	13-11-2019 09	9:29:42	
	042A.1	3084	13-11-2019 09	9:29:42	
	TOOL_P.TCH	8188	13-11-2019 09	9:29:41	
	TNC.SYS	246	13-11-2019 09	9:29:41	
	PRESET3.PR	162	13-11-2019 09	9:29:41	
	LOGBOOK . A	215K	13-11-2019 09	9:29:41	
	herosdiagnose.txt	24128	13-11-2019 09	9:29:41	
	CVREPORT . A	43926	13-11-2019 09	9:29:41	
	%TCHPRNT.A	137	13-11-2019 09	9:29:41	
	\$MDI.H	837	13-11-2019 09	9:29:41	
	TOOL.T	480K	13-11-2019 09	9:29:40	
	PRESET2.PR	309	13-11-2019 09	9:29:40	
	PRESET.PR	147K	13-11-2019 09	9:29:40 🍵	
	195 file(s) 17 25 GB va	ant			
PAGE PAGE	SELECT COPY	SELECT	WINDOW	LAST	
1	ABC→XYZ	ТУРЕ		FILES	END

On line Restore procedure

Select Menu > Tools > NC/PLC Restore

Manual operation	Programming V I/O force list is act	A CONTRACTOR OF A CONTRACTOR OFTA CONTRACTOR O
X +568.150 I Y +350.000 I	ACTL. X +668.270 A -0.022 Y +350.000 C +39.964 Z +679.887 S17 +0.000	
Z +1004.985 + A -0.022	T : 1 R3 L +180.1515 R +7.0000 DL-TAB +0.0000 DR-TAB +0.0000 DL-PGM +0.0000 DR-PGM +0.0000	
+C +39.964 S1? +0.000	м50 M5	8.
	ocument Viewer ile Manager iseqie iseque snumeric expad horizontal expad horizontal expad horizontal expad vertial eafpad CCPLC Backup CCPLC Bac	

8 表單編

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agile smart machining Choose "Select archieve from USB stick or Select archieve from the file system

Next example is taking "Select archieve from the file

Choose Select archieve from the file system

Manual	operation				amming	soft
Restore data -						
+ Select the archive	+ Generate a list	+ Check the list	+ Exit the NC	+ OEM password	+ Extract the archive	+ Finished
			Select an arcl	nive		
	nive from a USB stick					
Select arch	nive from the file system					
INC:/						
BACK	FORWARD	USB/	SELECT			FND
		FULDER	FILE			

Choose Restore file and press OK soft key

Manual	operation		Programming	Summer State
Restore data -				
Soloct the	Select archive	to be unpacked	• 🛛	
+ archive	⊘ Recent	mnt tnc		Finished
	☆ Home	Name	Size Modified	
O Select arch	🛅 Desktop	 JM06007_G6_1071101 Kinematic Kinematic BPK07070-2 G6 	1 Nov Yesterday Yesterday	
	PLC:	Kinematic-ELM06001-1	Mon 1 Nov	
	PLC:\config	Kinematic measurement	resterday Mon	
	PLC:\config.bak	lost+found	3 Jul 2018	
 Select arch TNC:/ 	🔄 PLC:\table <	MEUS 1 nb-r21-340595-2019-11-15-full.tncbck	Mon 196.1 MB 02:54	
(🗐 SF:	POS_Auto_measure	Yesterday Yesterday	
	SYSTEM:	service	Yesterday Yesterday	
	TNC:	system table	1 Nov Yesterday	
	+ Other Locations	<pre>trcguide TNCopt y4</pre>	25 Sep Mon Yesterday	
			Backup files Cancel Open	
				J
ок				CANCEL

Press FORWARD soft key





Manual	operatio	n		Progr	amming	A REAL PROPERTY AND A REAL
Restore data	- nb-r21-34059	5-2019-11-15-full	.tncbck			- • ×
+ Select the archive	+ Generate a lis	st + Check the list	+ Exit the NC	+ OEM password	+ Extract the archive	+ Finished
			Select an arc	chive		
	hive from a USB sticl					
 Select arc 	hive from the file sys	tem				
TNC:/nb	-r21-340595-2019-1	1-15-full.tncbck				
Version infor	mation on the selec	ted archive:				
TNC BACKUP MODEL = TI NC SOFTWA PLC SOFTWA SIK = PCsir CREATOR =	File - Version 2.0 VC640 RE = 340595 09 Ho ARE = No version giv nulation user	tfix1 en				
	5000000					
BACK		USB/ FOLDER	SELECT FILE			END

Press FORWARD soft key

Manual	operatio	'n		Ð	Programmi	ng	Com Zall
Restore data -	nb-r21-34059	5-2019-11-15-fu	ll.tncbck				_ 0 ×
+ Select the archive	+ Generate a list	+ Check the	list + Exit the	NC + OEM p	bassword + Ex	tract the +	Finished
			Check th	e file list			
	File name	Ext		Directory	1	Siz	e M A
0123		.h	TNC:/				184
✓ 013A		.i -	TNC:/				1kB
✓ 036A		.1	TNC:/				1kB
✓ 03-R8L70		J	TNC:/				255kB
✓ 042A1		.i	TNC:/				1kB
✓ 042A2		.1	TNC:/				1kB
✓ 042Aa		.i	TNC:/				1kB
✓ 042A		.i	TNC:/				3kB
✓ 045A		.i	TNC:/				1kB
✓ 067A		.i	TNC:/				2kB
✓ 0913		.i	TNC:/				1kB
✓ 12345		.н	TNC:/				111
✓ 154A-0612		.i	TNC:/				1kB
✓ 196A		.i	TNC:/				1kB
✓ 1		.h	TNC:/				190
20180510		.SCO	TNC:/				1MB
✓ 2093a		.i	TNC:/				3kB
✓ 3038A		.i	TNC:/				1kB
5026 / 5058 Fi	les			460 / 461 MBytes			
BACK	FORWARD	SELECT/UNSLT	DESELECT MACHINE BACKUP	SORTING	MULTIPLE SELECTION	SELECT ALL USERS' DATA	END

Press FORWARD soft key



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Manual	operation			Program	nming	Comment of the
Restore data	- nb-r21-340595-2	019-11-15-full.1	tncbck			_ 0 ×
+ Select the archive	+ Generate a list	+ Check the list	+ Exit the NC	+ OEM password	+ Extract the + archive +	Finished
			Close the NC softwa	e		
The	control is still running a	nd ought to be stoppe	ed.			
	les are restored when NI minimales include the tool to imples include the tool to firm the emergency stop	C control is running, ce able or any existing en o before you run the "S	irtain data may not be writ crypted PLC partition. Stop NC software* soft key	ten or can become inc.	onsistent.	
васк	FORWARD	STOP NC SOFTWARE				END

Password for OEM: enter 807667

Press FORWARD soft key

Manual	operation		abak		mming	<u> </u>	~
+ Select the archive	+ Generate a list	+ Check the list	+ Exit the NC	+ OEM password	+ Extract the + archive	Finished	~
		En	ter the OEM passv	vord			
Passw	807667 rord for OEM:	<u>,</u>					
BACK	FORWARD					END	

Press EXTRACT ARCHIVEV soft key



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a	The Siliaic II	lacining					
l	Manual	operation			Progra	mming	Land Land
F	Restore data -	nb-r21-340595-	2019-11-15-full.tr	icbck			
+	Select the archive	+ Generate a list	+ Check the list	+ Exit the NC	+ OEM password	+ Extract the archive	+ Finished
			The	archive is being r	stored		
			The	archive is being re	stored		
		The data are resto	ored with "Extract archive	.			
		Existing files will be This action cannot	e overwritten without any : be undone.	further questions.			
r	PACK][
	BACK	EXTRACT					END
		ARCHIVE					LIND
10.00			11				

Press RESTART NC soft key

Manual	operation				amming	A A A A A A A A A A A A A A A A A A A
Restore data -	nb-r21-340595-2	019-11-15-full.tr	ncbck			_ 0 ×
+ Select the archive	+ Generate a list	+ Check the list	+ Exit the NC	+ OEM password	+ Extract the archive	+ Finished
		The a	rchive has been r	estored		
The fo	llowing problems occu	rred when restoring the	archive:			
	SELinux relabel is n	eeded to run *.py files				
	*.py type (python sc To be able to run t configuration dialog	ripts) executable progra hem, too, with active SE J.	ams were restored wit	h this archive. • partitions must be rela	ibeled in the SELinux	
Inform File n Numb Size: Uncor	hation on the archive: ame er of files: npressed size: You have changed i You must restart th	nb+r21- 5026 186MB 460MB A60MB	340595-2019-11-15-fi îguration. changes to go into el	ull.tncbck fect.		
BACK	RESTART NC					END

Restart machine and Restore complete

