

در این قسمت بخش جدید اضافه شده به نرم افزار CNC CAD 9.0 قرار داده شده است

جهت آموزش عملي نرم افزار CNC CAD (متالیکس) و دانلود سایر فایلهای آموزشی با شماره ۹۱۳۳۲۱۰۳۹۸ تماس حاصل فرمائيد.





New in cncKad version 9.0

1	Ne	w General Features	. 3
	1.1	cncKad is Now an MDI Application	. 3
	1.2	Parametric Parts Library	. 4
	1.3	CAM Layers	. 5
	1.4	User Data in File Preview	. 6
	1.5	Enhanced Checking for Part Destroying Punches	. 7
	1.6	AutoPunch, AutoCut and Cut Settings Machine Specific	. 7
	1.7	Editing Multiple Bend Lines	. 7
	1.8	System Origin is Now Machine Specific	. 7
	1.9	Context Sensitive Right-Click	. 8
	1.10	Entity Highlighting	. 9
	1.11	Customizable Keyboard Shortcuts	. 9
	1.12	Open Files without Existing Tools	10
	1.13	Load and Replace Parts in a Nest	10
	1.14	Push Out Movement	10
	1.15	Bounding Box	11
	1.16	Break Lines into Segments	12
	1.17	Find Bend Step	12
2	Ne	w Punch Features	14
	2.1	AutoPunch Crunches Irregular Shapes and Notches	14
	2.2	Maximal hit number for Crunch in AutoPunch	14
	2.3	Free Hand Single Punch with Auto Snap	15
	2.4	Sorting Per-Side in Tool Library	15
	2.5	New Tool Options	16
	2.5	5.1 New Print Tools Option	16
	2.5	5.2 CR Tool with MJ	16
	2.5	5.3 Cluster Tools Support in AutoPunch	18
	2.5	5.4 Set ToolN From Library	18
	2.5	5.5 Multi Radius Tools	18
	2.6	Linear Turret	19
	2.7	Set start placement position for X	20
3	Ne	w Laser Features	21
	3.1	Wire Joint for Common Cuts	21
	3.2	MicroJoints in AutoCut	21
	3.3	Vaporize Sheet Before Cutting	21
	3.4	Marking Before Cutting	22
	3.5	Freehand Entry Point for Cut	22

	3.6	Reduced Feed Rate	22
	3.7	Path Finder (Adjust Tool-Path)	23
4	Ne	ew in Tube Cutting	25
	4.1	3D Simulation for Intersections	25
	4.2	Graphical Enhancement	25
5	Ne	ew in AutoNest	27
	5.1	Automatic DXF to NC Solution	27
	5.2	Avoid Predefined Clamps Area	27
	5.3	Full Support for Hole Filling	27
	5.4	Edit Part Common Cuts Parameters in AutoNest	27
6	Ne	ew in CAD Link	28
	6.1	cncKad File Path	28
	6.2	cncKad Settings	28
7	Im	port and Export	30
	7.1	Import Dimensions from AutoCAD	30
	7.2	AutoCAD2008 DWG Supported	30
	7.3	Export to DXF/DWG Non Solid-white Entities	30
8	Fe	ature Enhancements	31
	8.1	New Option in Check for Duplicates	31
	8.2	Changes for Check Process	31
	8.3	Added Price Precision in Estimation	31
	8.4	Changes in Sheet Transformation	32

1 <u>New General Features</u>

1.1 cncKad is Now an MDI Application

MDI is an acronym for Multiple Document Interface.

This means that it possible to open as many files as needed in main **cncKad** window: cncKad2008 V9.0.003 - C:WetalixVP\Ex_Amada\demo2I.DFT 'C' FLAME / MICROSTEP NONE



You can switch between the windows using the ALT+Tab shortcut.

In addition to that, you can switch between the open parts from the new **Window Menu**, as well as **Tile**, **Cascade**, etc:

44.8	
	New Window
	Cascade
	Tile
+	<u>A</u> rrange Icons
	1 C:\Metalix\P\Ex_Amada\12345.DFT 'U' FINNPOWER / F525-840 U_TURRET LASTSET.UET
	2 C:\Metalix\P\Ex_Amada\demo11.DFT '5' TRUMPF / TRM120R2 TR16 LASTSET.5ET
	3 C:\Metalix\P\Ex_Amada\Tube2.TUB 'Q' AMADA / FO_PIPE NONE LASTSET.2ET
	4 M:\Anna\EX_AMADA\46598.DFT 'U' FINNPOWER / F525-840 U_TURRET LASTSET.UET
~	5 C:\Metalix\P\Ex_Amada\demo2l.DFT 'C' FLAME / MICROSTEP NONE

There are also new features in **File Menu**, allowing you to **Save/Close** not just one window, but all of the windows at the same time:



This feature is useful for instance when you work with nests and you want to edit some parts.

For example:

We added two circles to the part below, saved it and switched to a nest (open at the same time) which includes this part.

We immediately receive a message saying that the parts in the nests were updated – and all this was done in just one **cncKad** window opened on our tray!



1.2 Parametric Parts Library

cncKad now offers you a completely new and easy way of creating new parts. You can create parametric parts like the one presented on the picture below directly from the **New Part** dialog:

What's New

New Part			
General User Data	C:\MetallX\P\para_11-2.D Sheet Type	FT Run the Program: Once per sheet Twice with Rotation Twice with Flip 0.4	Library Part Parameters $\begin{array}{c} F\\ \hline D2\\ \hline D1\\ \hline F\\ \hline B\\ \hline A\\ \hline A\\ \hline A\\ \hline 300.00\\ \hline B\\ 250.00\\ \hline B\\ 5.00\\ \hline \end{array}$
Part Type C Rectangular Part E Library Part Technology paran Ga Hea	art Library Part Numl neters: as 02	Der LPN006 Part Library Technology Table Material: 0 Steel Thickness: 1.00	D1 80.00 D2 20.00 E 200.00 F 150.00 Clear All
Ler	15 Inches		OK Cancel Help

The **Part Library** mechanism provides the capability to select, configure and create part geometries from a **predefined Shapes' Library**:



1.3 CAM Layers

A single cncKad part can now contain different processing definitions, CAM Layers,

corresponding to one unique geometry.

Each layer can contain its unique processing, and one part can be used to generate NC codes for different machines (Punch, Cutting, Combined etc.).

This means that you don't need to save the same part several times, each time with different processing definitions – whenever you update your part's geometry, the processing will be updated for all the layers.

To add processing definitions, select the **CAM Layers** option from **CAM Menu**, or click the

icon in the **CAM Toolbar**. This will open the dialog allowing you to create, edit and delete layers:

1 0 TCL4030-TUBE, TRM5000R3, PEGA357 2 0 TCL6030 90 PEGA357	Master
0 TCL6030	
90 RECA357	
JU FIGACI	

This feature is useful when you have the same part nested at an angle of 0° but also at 90°:



In the above example, in both Layers the horizontal Slitting is done with an **RE 50 5** (in green) and the vertical with an **RE 65 5 90** (in blue).

1.4 User Data in File Preview

When opening a part you can now see not only the part preview, but also the **User Data** as well as part's **Material** and **Thickness**:

Open Part Look in:	🕞 Ex Amada		- E 😤 T	demo11.DFT	×
My Recent Documents Desktop My Documents My Computer	2.DFT 3.DFT 4.DFT 4.LDFT 4.568.DFT 3.12345.DFT 3.12345.DFT 3.12345.DFT 3.123456.DFT 3.123456.DFT 3.2466.DFT 3.2456.	demo4l.DFT bemo5.DFT demo5.DFT demo6l.DFT demo6l.DFT demo6l.DFT demo6l.DFT demo7l.DFT demo7l.DFT demo7l.DFT demo11.DFT demo12.DFT demo12.DFT demo12.DFT demo12.DFT demo12.DFT demo12.DFT demo12.DFT demo12.DFT demo12.DFT demo12.DFT demo12.DFT demo12.DFT demo12.DFT demo12.DFT demo12.DFT	Image: Second	Hide Preview Hide CAM Steel 0.5 mm Drawing Number 123456 Project/Customer Square Box	
My Network Places	File name: Files of type:	demo11.DFT Draft File (*.dft)	Open Cancel	Programmer Computer Description Box for tools Order Number 098765 Revision (Version) abc Note	

1.5 Enhanced Checking for Part Destroying Punches

The feature of checking whether a punch destroys the part has been extended to all punching types.

1.6 AutoPunch, AutoCut and Cut Settings Machine Specific

Auto Punch, **Auto Cut** and manual **Cut Settings** are now per machine. A workstation with several machines can have different settings for each.

1.7 Editing Multiple Bend Lines

You are now able to edit several Bend Lines at the same time, setting the parameters for **Angle**, **Text Size**, etc.

1.8 System Origin is Now Machine Specific

The System Origin selection is specific for each machine and can be set in the default **Machine Settings** dialog, on **Machine tab**:

Sheet Processing T	echnology	Cut And Split Sheet	Frim Sheet	Reposition
Machine	Auto	Punch Processing Constants	1	NC Report Template
ichine				
TRUMPE / TRM120	R2 TR16	<u>×</u>		
Offsets From Origin dX: 130	From End dX: 10 dY: 10	Distance Between Parts dX: 15 dY: 15 Start Parts Placement From Clamps Opposite Clamps	Bottom-I Bottom-I Top-Left Top-Rig	Left Right t
rivate Tool Library —			Ť	

1.9 Context Sensitive Right-Click

When you right-click in **cncKad**'s window you will be presented with **Zoom Menu** options, allowing you easier manipulation of the sheet:



When you right-click next to an entity (entities) you will be presented with **Delete Menu** options, **Zoom** options, as well as a few others:



1.10 Entity Highlighting

Anytime you now place the cursor next to an entity, the latter one will be highlighted, as shown in the picture below:



1.11 Customizable Keyboard Shortcuts

Activating this option from **Settings Menu** allows you to create your own shortcuts for various **cncKad** functions, as well as changing the existing ones:



1.12 Open Files without Existing Tools

Up until now when you opened a part and some special tool file didn't exist, **cncKad** would delete all the processing definitions.

Now it deletes only those punches processed with the missing tool, and loads the other tooling definitions.

1.13Load and Replace Parts in a Nest

You can now replace part of selected nest instances.

1.14 Push Out Movement

This feature of **View Menu** allows the user to see the push out movement and prevent unnecessary machine crashes:



The push out movement will be displayed when you select the **"Show Push Out Movement**" menu item or when you select an entity on the drawing:

What's New



1.15 Bounding Box

This new feature of the **Draw Menu** allows you for drawing bounding rectangle of the part, with the option of offsetting it from the boundaries of the box.

Bounding Box	X
Mar 10	gin:
ОК	Cancel

Example: Before:

After (with margin of 10):



1.16 Break Lines into Segments

Located in the **Draw Menu**, this function breaks selected lines into segments with the following parameters:

- A Distance from edge
- **B** Gap distance
- C Internal break distance

Distance from edge	5		
Break distance	10		
Break gap	2		
ОК	Cancel		
ee the following e	example:		
A	В	L C	

1.17 Find Bend Step

This new feature of **Draw Menu** is useful in finding the number of bends and their corresponding angles, required to approximate an arc.

What's New

Arc Length	31.416	-
Radius	20	AB .
Required Step	8	A A A
	Calculate	V 14
Actual Step	7.854	·
Bend Angle	22.5	Step Angle 157.5
Num of Bends	3	1

After entering the desired length of each step, the actual step for the arc will be calculated.

Actual Step Stop and a

2 <u>New Punch Features</u>

2.1 AutoPunch Crunches Irregular Shapes and Notches

Now the **AutoPunch** option automatically crunches orthogonal, rectangular shapes and notches. See the following example:

Part before crunch:



And after being automatically processed:



2.2 Maximal hit number for Crunch in AutoPunch

Now in **AutoPunch** the user can define a maximum number of hits for crunch. In case when the amount of the hits in crunched entity (notch or whole) is bigger than the quantity entered in the dialog, the crunch will be replaced by slitting:

11000		(mm)	ar trainings [
Tools' Spacing Defaults		(mm)		
Minimum Tool Overlap:		1		
Scallop For Round Tools:		0.2		
Cutting Tools Restrictions				
Minimum Width:		2		
Maximum Width:		15		
Crunching (Notches and Ho	oles)			
Use Crunch Up To 300	Hits			
If More, Use Slitting				
Use Only Tools With Av	vailable Die	2		
I♥ Holes	☐ Delete Old B	efore Running		
Notches F Perform Crunches	C Delete Old B	efore Running		
Maximum Urunch Tool Ratio (Width/Height):	•			
Minimum Offset: 2	Maximum Off:	set: 15		
🔽 Slitting	T Delete Old B	efore Running		
For Notching And Slitting — Use Tool Library				
C H C El	S	elect Setup		

2.3 Free Hand Single Punch with Auto Snap

Free Hand Single Punch can now be used with **Auto Snap** option. This means that when the Auto Snap option is selected a punch is placed on one of the end points or the center point of the closest entity.

2.4 Sorting Per-Side in Tool Library

You can now click on the **Tool** column in the **Tool Library** in two ways – according to tool length (first size parameter) and width (second size parameter): Sorted by tool length: Sorted by tool width:

cncKad.90

Tool:	
RE 6 2	
RE 6 3	
RE 10 5	
RE 12 6	
RE 14 7	
RE 20 10	
RE 21 4	
RE 25 4	
RE 25 5	
RE 25 12	
RE 28 3	
RE 50 5	
RE 65 5	

Tool:					
RE 6 2					
RE 6 3					
RE 28 3					
RE 21 4					
RE 25 4					
RE 10 5					
RE 25 5					
RE 50 5					
RE 65 5					
RE 12 6					
RE 14 7					
RE 20 10					
RE 25 12					

2.5 New Tool Options

There are new features for handling tools:

2.5.1 New Print Tools Option

There is now a new option in the **Tools' Library**, allowing you to print the current tab:

ool Selecting							
Tool Library							
Tool RE 50 5 RO RE RR	SQ	OB CR	A	dd Tool to library		Create Tool	
Tool:	Die	Allowed Angles	Tools Quanti	Comment:	ToolN	Tool ID	
RE 6 2	0.2(1) 0.4(1)	0,90	1	(RECTANGLES)			- 20
RE63	0.2(1) 0.4(1)	0,90	1				
RE 10 5	0.2(1) 0.4(1)	0,90	1				
RE 12 6	0.2(1) 0.4(1)	0,90	1				
RE 14 7	0.2(1) 0.4(1)	0,90	1				
RE 20 10	0.2(1) 0.4(1)	0,90	1				
RE 21 4	0.2(1) 0.4(1)	0,90	1				
RE 25 4	0.2(1) 0.4(1)	0,90	1				
Tool Data	Сору	Tools	D	elete Tool			
Print	Print Cu	irrent Tab	T	ool Report			
	a)			ОК	Ca	incel	Help

2.5.2 CR Tool with MJ

From now on **Corner Radius** tools can be defined with **MicroJoint** edges.

your tool:



As you can see below, the **CR tool with MicroJoint** is denoted with "–" sign preceding the tool's parameters:

Tool Selecting							
Tool Library							
Tool CR 5 15 15 5	55			Add Tool to library		Create Tool	
RO RE RR	sq	OB CR	SD	DD TR	мј	F	
Tool:	Die	Allowed Angles	Tools Quanti	Comment:	ToolN	Tool ID	11
CR 5 15 15 5 5	0.2(1) 0.4(1)	0	1	(RADIUS 5)			
CR 6 17.5 17.5 5 5	0.2(1) 0.4(1)	0	1	(RADIUS 6)			
CR -6 21 21 7 7	0.2(1) 0.4(1)	0	1				
Tool Data	Сору	Tools		Delete Tool			
Print	Print Cu	irrent Tab		Tool Report			
				ОК	Ca	ncel H	elp

When used on a part we will get the following result:



2.5.3 Cluster Tools Support in AutoPunch

AutoPunch now checks the possibility of using defined cluster tools, and uses them whenever possible.

2.5.4 Set ToolN From Library

This new option of Used Tools dialog enables you to replace the ToolN parameter for all the used tools with the value from current tool library.

For example: for DFT with the following settings:

Used tools	ý.														
Used tools															
Cł	hange To		[ool [Data				Qua	ntity	5					
Stations	Lock	Current Tool	Loc k Die	Die	Seq	Grou ped	Auto ndex	Hits	Tool Opt	Optimize Path	Minimize Rotation	Tool Subrouti ne	Functions	Tool ID	
1	Γ	RØ 2 N=24	Г	None	0			12	ম	i î					
2		RO5N=19		None				12	V						<u> </u>
3		SQ 7 N=4	Г	None				8	V						+
4	Г	QB84 N=18		None				10	V						
5		RG 20 5 90 N=8	Г	None				6					1		
		\sim													
C	elete To	pol loc	Orde	er by List		Tu	irret Se	etups						\sim	\sim
Mak	Make Optimization Tool Functions						Use C	Current	NC	Г	- NC ex	ists	(Set ToolN From Libra	^{wy})
Orc	Order by Mouse Group / Ungroup						D SET	UP		•	Create	Setup From	n Used Tools	\sim	
-													OK[Cancel	Help

these changes were applied after the Set ToolN From Library button was pressed:

Ch	ange To	ool	Tool D)ata				Quar	ntity	5					
Stations	Lock station	Current Tool	Loc k Die	Die	Seq	Grou ped	Auto ndex	Hits	Tool Opt	Optimize Path	Minimize Rotation	Tool Subrouti ne	Functions	Tool ID	1
		RO 2 N=1		0.2		li i		12							
S.		RO 5 N=6		0.2				12	V						+
P .		SQ 7 N=100		0.2				8	V						1
		OB 8 4 N=250		0.2				10	V						-
i .		RE 20 5 90 N-0		None				0	V						
Delete Tool Order by List Make Optimization Tool Functions							innet Se Use C	Set ToolN From Library]						
Ord	er by Mi	ouse	group	/ Ungrou	P	IN	JOEI	UF			Cicolo	, occup i ion	rosco roois		

2.5.5 Multi Radius Tools

AutoPunch and Manual Punch support the option of crunching circles with multi-radius tools:



2.6 Linear Turret

In V9, a Linear Turret can be defined: Edit Turret: YAGET.TRT (Read Only)



And a Turret Setup as well:



Linear Turrets are useful for machines such as Buss-Bar, Coil, and even some standard machines such as Amada OCTO.

2.7 Set start placement position for X

On the **Sheet tab** in the **Set Sheet and Clamps** dialog a now the a user can choose the start position from left (from origin) or from right (from end):



3 New Laser Features

3.1 Wire Joint for Common Cuts

This new feature refers to Laser, Plasma, Flame and Water Jet cutting machines, allowing the user to define tool path breaks during common cuts. It is accessible from **Common Cuts** section of **AutoCut tab** in **Auto Cut dialog**:

Common Cut Parameters	\mathbf{X}
Preparatory: 5	Overlap: 2
I▼ Use Wire Joint - Wire Joint Break every: 100	Width: 2
ОК	Cancel

3.2 MicroJoints in AutoCut

You can automatically add MicroJoints when you use the AutoCut feature:

Auto Cut	
Auto Cut Global Cut Cutting Optimization Technology MicroJoi	nt
Holes Enable From Up to size: 0	
Parts Enable 🔽 From 0 Up to size: 9999	
Min Number of MJ 8	
MJ Width: 1	

3.3 Vaporize Sheet Before Cutting

On the **Cutting Parameters** tab in **Set Sheet and Clamps** dialog you will now find Vaporization features, allowing you for more efficient work.

You are now able to choose whether to vaporize the whole sheet, a cut or a pierce, before processing the sheet with cutting.

In the past you could only set these options by adding vaporizing functions before the cut. Now you can define in one place both their sequence and the vaporizing area:



3.4 Marking Before Cutting

This option of **Cutting Optimization** tab in either the **Set Sheet and Clamps** or the **Machine Settings** dialogs, allows you to execute Marking on the part or on the whole sheet:



3.5 Freehand Entry Point for Cut

You can now set the Entry Point of a cut to any location on your contour:

CAM Nest Tube Tools Estimation Settings	Window Help
Cut CAM	🗏 Add Cut Alt+Ctrl+C
Punch CAM	😓 Add Pierce
Shear CAM	🔣 Engrave Entities 🚽
<u>M</u> ill CAM	Lec Engrave Text
Edit Offsets	Lic Cut Text 사업 Auto Cut
Set All Offsets	Connect
Go Change Tool for Existing Punches Ctrl+T Market Edit CAM E	Cutting Order
™ Add MicroJoint Shift+M * Set Tool Sequence	Auto Enter Point

You can use **Snap None** to position the Entry freehand, or any of the standard Snaps to position it automatically.

3.6 Reduced Feed Rate

The **Cutting Technology Table** contains a column of Reduced Feed Rate for each feed rate. This parameter is used for better accuracy of the job time estimation of the part.

Switch	To Current	1						Thick	Current Materia	al Content	
Mater	Naterial 0 Steel		Cop	ру	Edit Cut Technology I	ting Material	1.00, 1.50, 2.00, 2.50, 3.00, 4.00, 5.00, 6.00, 8.00				
Thickne	Thickness 1.00		•	New /	Сору	Delete Thio	:kness	Gar			
G	as O2		•	New /	Copy	Delete (Gas	02			
He	d Standard 👻		New (Copy	Delete Head		Head				
le			Nou /	Copy	Delete I		Lens	uaru			
20	is la more	55	-	New /		Delete L	ens	5 Inc	hes, 7.5 Inches		
Cutting Ge	ometry G	eneral Piero	ing	♥ Use	Diameter Fo Area For Co	r Contour Siz	es				
	Feed Rate	Reduced Feed Rate	Beam Diameter	Gas Pressure	Used Gas	SprintLas	Use Ser	nsor	Corner Time		
Param Type	A	0.6	0.15	15	0	0	YES		1		
Param Type E ngrave	8.2	percent o	D 4 5	5	0	0	YES		1		
Param Type Engrave Small	8.2 0.6	0.6	9.15	74	0100		27.027.02				

3.7 Path Finder (Adjust Tool-Path)

This automatic option calculates a path from one hole to another, trying to avoid passing through already cut holes. See the following examples before and after utilizing this function:



After:

cncKad.90











4 New in Tube Cutting

4.1 3D Simulation for Intersections

Tube Cutting has been significantly enhanced with 3D simulation of the finished cuts. After using **Create Intersection** to add cuts to your tube, you can now simulate these cuts in 3D. After processing your intersections, select the **3D View** option from the **Tube** menu: Tube

	Per de la constante de la const	
	Create Intersection	
	Edit Intersection	
	Explode Intersection	
	Delete Intersection	
*	Process	
	Set Plane Cut	
	Measure Cycle	•
	Move Support	•
	3D View	
	Settings	

You will now see how your tube will look after cutting it:

Flat view:		3D View:
360		
270	ζ	
180	0/	
90	$\boldsymbol{\zeta}$	
0		

4.2 Graphical Enhancement

The **Create Intersection** dialogs now show the intersection parameters in 3D, making adding cuts easier and more intuitive:

Create Intersection		X
D	- Main Tube Circular Tuk	08
z Z	D Diameter	200
	Length:	2000
	Intersecting Body	
	Circular Tube	-
	D Diameter	100
	Intersection Type	
	Double-sided penetratio	n 💌
	L Distance	500
	V Offset	0
	Clearance	1
	Intersection Angles	4
	A1 Cutting Angle	30
	A2 Rotation Angle	0
	ОК	Cancel

5 <u>New in AutoNest</u>

5.1 Automatic DXF to NC Solution

It is now possible to load a nested DXF in **AutoNest module** and create NC for it, skipping the necessity of converting the parts into DFTs and processing them in **cncKad**.

5.2 Avoid Predefined Clamps Area

This option of the **AutoNest** tab in the **Workspace Settings** dialog allows you to avoid predefined clamps area so that the automatic nesting will not place parts on clamps. This allows you to create nesting solutions without the necessity of Repositions.



5.3 Full Support for Hole Filling

The **Fill Holes** and **Fill Holes for All Subnests** options now work both for Rectangular and True Shape nesting strategies:



5.4 Edit Part Common Cuts Parameters in AutoNest

Now it is possible to Edit Part Common Cuts parameters.

6 New in CAD Link

The CAD Link module now has better support for exporting entire assemblies with a single button click, with better support for user customization.

The CAD Link toolbar\menu now has a new option – cncKad Properties:



This opens a dialog where you can set your part's material from cncKad's Material Database (as before), but you now have new options:

cncKad P	art Prop	perties					
- Material Curren Name	t Material	Steel					
🗆 0 - S	PC Stee						
□ 1 - 0 □ 2 - S □ 3 - 0	-SUS Sta PH Steel	ainless St Ilvanized	eel Steel				
∐ 4 - S	S400 Ste	el					<u> </u>
- cncKad I	File Path						
Path:	E:\Solic	ls∖SolidW	orks\BO	IX RFI	185.DFT		
						В	rowse
cncK	ad Setting	s			OK		Cancel

6.1 cncKad File Path

After you have exported your model to cncKad, the **cncKad File Path** shows you where your DFT file was saved. This is the file that will be updated when you use CAD Link's **Update** feature.

If you want to update a different file, simply Browse to it, or type the path you want.

6.2 cncKad Settings

The cncKad Settings button opens a new dialog:

What's New

cncKad Workspace	Settings		
General Settings			
Path of Solid Parts:	E:\Solids		Browse
cncKad parts Path:			
DFT File Path:	DFT path is path of the solid pa	t	
Assembly Mode:	DFT files are saved in the asse	mbly's report directory	•
Add prefix to the DF	Part name:		
Add Property			
Add Property from M	odel to the end of DFT Part name		(e.g. "Revision")
ORD Creation Create ORD for Asse	embly 🎓 Create in the assem	bly's report file directory e path below	
	E:\Solids\SolidWorks		Browse
1			
Options specific to Inv	entor:		
- Flat Pattern		Create DXF	
Create Flat Pattern	if Not Found:	Create DXF for Each	part
	🔿 No 🌘 Yes	No	o 🤆 Yes
		0	K Cancel

Here you can set various options that will determine where your exported cncKad part will be saved, under which name, and other options.

7 Import and Export

7.1 Import Dimensions from AutoCAD

You can now import parts with their dimensions from AutoCAD. Supported dimension types are: linear, aligned, radius, diameter and angular. Angular dimensions are only partly supported.

7.2 AutoCAD2008 DWG Supported

DWG files from AutoCAD2008 are now fully supported for import.

7.3 Export to DXF/DWG Non Solid-white Entities

AutoNest can now export non solid-white entities to DXF/DWG files.

8 <u>Feature Enhancements</u>

8.1 New Option in Check for Duplicates

The Check for Duplicates option now applies to text as well.

8.2 Changes for Check Process

The **Check Process** algorithm now verifies whether each entity has been processed or not instead of examining the contour as a whole.

8.3 Added Price Precision in Estimation

Now the **Time Estimation Settings** dialog is split into two tabs, allowing you to define the price estimations for your machine efficiently and precisely.

The first tab contains general pricing settings with a new Price Precision field:

ime Estimation Settings	E
General Additional Time Constants	
Preparations	
Engineering Price/Hr	40
Default Engineering Time	01:00:00
Programming Price/Hr	45
Default Programming Time	00:00:00
AMADA / PEGA357	
Setup Price/Hr	50
Default Setup Time	00:00:00
Machine Price/Hr	65
General]
Price Precision	5
<u> </u>)
ОК	Cancel Help

A second tab consists of Additional Time Constants:

me Estimation Settings		
General Additional Time Constant	:s	
Bending		
Setup Price/Hr	35	
Default Setup Time	00:25:00	
Bending Price/Hr	45	
Drilling Price/Hr	40	
Tapping Price/nr	100	
ОК	Cancel	Help

8.4 Changes in Sheet Transformation

Now it is possible to set offsets for the transformation option "NONE".

		Reposition And Head Position						ormations	ansh
Head Pos. Y	Head Pos. X	Total:	Size	Туре		Offset Y	Offset X	Туре	
**	-	÷	+	NONE	1	100	200	NONE	
	<u> </u>	-	-	NONE		100	200	NONE	

Set CAMs to Current option gives you possibility of selecting either all punches placed on the sheet, or all punches made with same tool.

