Instructions for using CypNest

The main process of CypNest can be divided into eight parts: Register and Login, creating new nesting tasks, adding parts, Nesting, sorting, Remnant and skeleton editing, report customization and exporting processing files.

1. Register and Login

For Subscriber

The CypNest software supports a free trial for one month, and each user can only try it once on one computer. Overseas users need to register an email and fill in relevant information for trial purposes. Require Internet access.

		x
欢迎使用CypNest Welcome to CypNest 2024V1	WeChat login Email login	
CypNest	Email Please Input Email Password:	
您的投入物超所值 CypNest Nesting Software Well Worth Your Choice	Login Cancel Register Forgot password Auto login for 7 days	
	Use IE proxy Use WinHttp	

For dongle users

Ensure the dongle is successfully connected to your computer before open CypNest (light is on). No internet required to use.

WeChat login	Email login	WeChat login	Email login
		Email	
		Please Input Em	ail
		Password:	
ER CA			
		Login	Cancel
Tarte and the	eviaa.	Register	Forgot password
Cancel		Auto login for 7 day	/5
Use IE proxy	Use WinHttp	Use IE proxy	Use WinHttp
Please scan the code wit	h WeChat to login.	Please enter email an	d password to login.

Click cancel on either of the two interfaces to login

CypNest	×
Login is not completed and local lice	ense will be used.
	ОК

Click OK

2. Create new nesting task

New Nesting task

When the parts to be nested have only one material and thickness

^{st Task}	Task					
Task Nam Material:	ε 20240125001 SPCC		- х т	nickness	20.00 -	mm Gas: Air ~
	Auto Technique 💿	1		art gap:	0.10 -	mm
ID F	Import Rem Ame X Standard Ple 6000	Y 2000	Delete Margin 2	Up Qty Infinite	Down	Margin
						2
						Y Machine Coordinate System
						✓ OK X Cancel

After checking Enable Auto Technique, user can set the auto technique parameters for leadline, compensation, corner technique, microjoint, cooling point and gap/overcut.

ate Auto Technique						
Auto Lead Auto Compensate	Auto add leadline	ldentify	Inner/Outer Cont	our Leadline		
Corner Technique Auto MicroJoint	Leadin Type: Arc	Lengt	3mm 🔻			
- Auto Cooling Point - Auto Gap/Overcut	Angle 60° -	Radiu	1mm 🝷			
	Add holes at leadlines	Hole radius:	0.5mm -			
	Leadout					
	Type: None 🗸	Lengt	3mm 🔻			
	Angle 30° 🕶	Radiu:	1mm -			
	Lead position					
	Auto select lead position					
	Lead in from part tip Lead in from long edge	Skip di	stance On	nm 🔻		
	O Set a global parameter (rang	ge: 0~1)	0.	50 -		
	○ Set lead position by direction	n	Upper lef	t ~		
	Apply to					
>	Apply to closed graphics					

Processing task information:

Task name, Plate material, Thickness, Cutting Gas, Part gap

Board information:

Adding and Deleting boards, Importing Remnant File, Order of Plates in the plate list, Size of each plate and Margin.

Open a File

Supported file types to open

Workstation-CypNest 2024V1				
-				
S CypNest		Q		
bochu plane nesting software(超级管理员)	+ New layout \vee	+ New drawing	🗁 open a file	
recent files				
Co Parts library			G	
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	Modified on 7minutes ago	Modified on 1Days ago	Modified on 1Days ago	Modified on 1Days ago
	s		G	BUILLE Shee
	20(1).nsds	{72DCBE13-B2C1-4EE	bug.nsds	bug.nsds
	Modified on 2Days ago	Modified on 2Days ago	Modified on 3Days ago	Modified on 3Days ago

All Supported Files
Nest Session(*.nsds)
Nest Session(*.nsd)
CypNest Job (*.json)
nest plate file(*.nspf)
All Supported Files

Multi Texture

Part drawings of various materials and thicknesses

Supported file types to open

G Workstation-CypNest 2024V1			
互 CypNest 🌔	search	Q	
bochu plane nesting software(超级管理员)	+ New layout	+ New drawing	🗁 open a file
🔁 recent files	New layout Multiple materials	_	
Co Parts library	Bevel import	G	5
	{D474DCC3-BE93-428	1-5083.nsds	00.nsds
	Modified on 7minutes ago	Modified on 1Days ago	Modified on 1Days ago
	5		5
	All Supported Files Laser Cut Document V2 Laser Cut Document(*.lx AutoCAD DXF(*.dxf) AutoCAD DWG(*.dwg) Adobe Illustrator(*.ai) Gerber file(*.gbx;*.bi) CNC Standard G Code(* CypNest Part Edit(*.cpc)	d) .nc;*.g;*.cnc)	
	All Supported Files		

Bevel Import

Import parts with bevels (T2F format file)

Tips: User should subscribe Bevel nesting pack

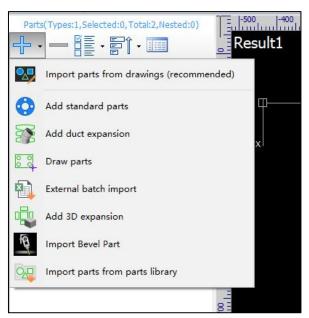
Support Draw parts, import parts, and set bevels

Workstation-CypNest 2024V1			
互 CypNest	search	Q	
bochu plane nesting software(超级管理员)	+ New layout V	+ New drawing	🗁 open a file
🔁 recent files	New layout Multiple materials		
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	Modified on 7minutes ago	Modified on 1Days ago	Modified on 1Days ago

FANest Bevel Nesting Editor 1.11.2312.5		_						
Nest: Parts 注 詰 磁 前 配		Display ← Hevel Display ← [_] User Parameter			⊥Lead ▼ & Clear ▼	i Lead Pos -		↔ Micr 1↓ Reve ← Gap
4		View		Geometry			Layer	
•	E. Martine and a	Thickness: 10.00	0 mm	n Multi-mate	erial multi-	thickness mo	ode	
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3. Adding parts

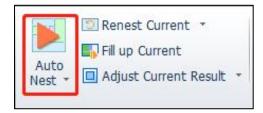
There are many ways to import parts, including Importing Drawings, Adding Standard Part, Adding duct Expansion, Drawing Part, Batch import and Adding 3D Unfold.



4. Nesting

Nesting interface can be divided into four parts: Menu bar at top, Part list on the left, Current layout in the middle and Nesting result list on the right

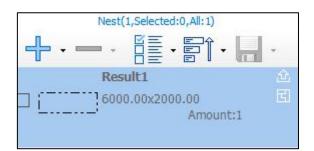
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Select View View Tech Parameter	Story of Control Difference Control Part point (Imm +) Part point (Imm +)
Part List	
Hide arranged parts Replenish all parts (× -



Click Auto Nest to set the parameters

All parts in the list	O Selected Parts	Strategy O Primary Professional
est Settings Current All results Sheet list prio Advanced Mode: Coiling Mode te List Select V Up	Recommendation O Auto Select Plate	Nest Parameters Advanced parameters Nest Params Auto Nest Direction Auto Rotate: Arbitrary Image: Prill hole first Image: Part group first Min Nested Plate Part group first Nest strategy Speed Utilization Nest:
SheetName X SheetName X Result1 6000.00 Standard Plate 6000.00	Y Qty. Total 2000.00 1 1 2000.00 9999 Infinity	 ✓ Enable Co-edge Min Co-edge Length: 1mm ▼ ⑦ Co-edge Mode: ● All ○ To Part Only to same parts ○ Check part gap ⑦ Max Co-edge Num: 2 ▼

After nesting, the results will be displayed on the Nesting Result list on the right



5. Sorting

When nesting is completed, you can click Auto Sort to set the cutting order.

Auto Sort	Simulate Remnant Skeleton	Imm Imm
Auto Sort Auto Sort Set cut sequence and co-edge for nested results.		○ Keep inner contos ⑦
Auto Modify St Anywhere Auto Modify St Anywhere Forbid to change cutting direction Smaller Figure Prior Set Grid Set	Leadline position Lead from vertex Type: Line	pe cutting O Co-edged first O Lead from long edge Lead Length 3mm ▼
✓ InnerSort Sort: Left to Right ∨ ⑦ ✓ Auto Modify St Anywhere ∨	Radius 0.5mm ▼ Add holes at StartPt Cut Param OverCut Dis: 0mm ▼ ?	Leadin angle 90° ▼ Hole Radius: 0.5mm ▼
Forbid to change cutting direction Smaller Figure Prior Grid Set	☐ Overcut path cut once ⑦ Gap Size: 0mm ▼ ☐ Island path ⑦	Overcut Island
Display Travel Path		Advanced Param
Apply All		OK Cancel

6. Remnant and skeleton editing

Remnant

If there are large remnants in the layout, you can add the remnant cutting lines and export the drawings to reuse the remnant.

mnant			
Remnant Select remnant cut	ting pattern 🕞		
param		Select Remnant	
Margin:	5mm 👻	Max Area 💿	
sheet Gap:	10mm 🔻	Diag	ram
Step Height	20mm 🔻 Rect or	Line	
	from outside and exter	T	
Margin		Sheet Gap Angle	
00		Step	
		Step Heigh Any	
0			Maria I.
0 0			
		✓ Apply current ✓ Apply all	plates(A) Cancel

Skeleton

If the remaining skeleton of the sheet metal is too large to handle after cutting the parts, the skeleton function can be used to cut the skeleton into small pieces for easy handling.

Break Scrap	reak plate skeleton.	(2)		
	car plate she com	~		
Set Break Grid				
◯ Interval	② Max Latitude	e Cr		6 🔻
Grid	🕐 Max <mark>M</mark> eridia	n Cr		5 🕶
Break parameters				
Part gap:	2mm	•	0	
Min cut length:	1mm	•	0	
Plate gap:	Omm	•	0	
Skeleton:	Layer 11	~	0	Cut first by default can be sorted again
Other				
Optimize Sta	rtPos		1	
From the p	art and outward			•
○ From the m	iiddle and sideway		•	
Set as Cutoff I	line			
(Must Onti	mize StartPos)			

7. Report customization

There are different types of reports: WorkReport, PriceReport, Report and Single Part PriceReport. These reports are for the convenience of cutting workers to view part and layout information and clients to check the quotation information.

Kan Custom Report			– a ×
Customer Name: CustomerX Report Name: 20240125002			Print Export PDF •
Cadoret Hane; Cadoreta Cadoret Hane; Cadoreta Cadoret Hane; Cadoreta Cadoret Hane; Cadoreta Cadoret Hane; Cadoreta Cadoreta Cadoreta Cadoreta Cadoreta Stage Ant NotAport Stage	NestResult Detail	Report Netfeuit	
		Procession Processine s 000our Sare 0.00m Ontrin length 0.0 Catole 500our Catole 0 Weight Parts/Count	•

8. Exporting processing files

Export file format and available versions

CypNest	Cutting software	
Nrp	HypCut, CypCut 712.5 and earlier versions	
	731.5 and earlier versions	
Nrp2	HypCut、CypCut Version after 731.5	
Lxds	HypCut, CypCut 739 and later versions	
Dxf	Exclude Technique, not recommended	
Slp	FACut	

Differences:

Nrp/Nrp2: Processing task package, with multiple nesting results in one file.

Dxf: Exclude Technique, and it is generally not recommended to export this format.

Lxds: A type of nesting result generates a corresponding file

Slp: Machining files with beveled parts