

TurboCAD Furniture Maker v21

for TurboCAD 2020 Platinum, Professional and Deluxe 2020



What's new in TurboCAD Furniture Maker v21

DAEX-Generator:

• New UI design and dark mode of TCFM.



• TCFM tools enabled for you to use in Suppress Hidden Lines render mode and perspective view.



• You no longer must draw the line to generate a worktop. Simply select cabinets and click Generate to create a worktop.



• The list of cabinets is now viewable in a thumbnail format, allowing you to quickly find the one you need to use!

😼 Composing acc. to Vector			\times
TCFM Chairs IS IK Ktchen Accessories Ktchen COMFORT Bottom 30 High Top 24 Top 24 Top 23 Top 35 Office			<
Faranieters Compose Alian Offset			
● Left ● Front edge ✓			
Right Back edge Y 1.5			
From vactor From zero From zero By reference point Z Z 70			_
Hedat			
A → Serie HV24MW	2	C	>
S18L			•
HV30-2V			-
4 Y SR436L			\$
INCO 21			
Dimension Serie 2		New	serie
H 30.375		Can	cel
D 12.25		0	к

• Select whether you want to search desired material by ID or Name.



• Want to go back to Composing according vector dialog and apply functions on already inserted cabinets? Go for it, version 21 makes it possible!



• In version 21, you will find a current range of wood product textures from Egger and Kronospan.

DAEX-CUT:

• Materials are now ranked according their type (square, length, or piece material) in the Materials table and the Operations listed in order.

	MATERIA	LS AND OPER. IN ORDER	
Туре	ID	Name	*
	18-1700_Steel_grey	K_1700 Steel grey(0.7)	2
	18-348_ES_Ash_light	K_348_ES_Ash_Light(0.7)	LC.
	5-348_ES_Ash_Light	K_348_ES_Ash_Light(0.2)	10
-	42-18-1111	chrome(0.08)	10
-	ABS-K_348_ES_Ash_Light(2)	ABS-K_348_ES_Ash_Light(0.08)	10
T	7KG15484	Oven-7KG15484	10

• In the Material and Operations table, materials are highlighted in the currently selected part of the Tree below.

1 0	ntacts and da	tes 📲 Iter	ns - productio	n Not	es and	agreem	ient												
N +9	et 🍸 +Part	- +Part	🕇 +Part 🜔	+Operation	1 +B	undle	В Я	ili al		C SCP	X	🔹 📮 F-	OPE	Info	式 Ass	ortment->Ma	at 🔅 Grooves	Export CNC 🖺 🕵 EK	*
ID	ENTIFICATION			PAR	AMETE	RS					PART MATERIA	L					MATERIALS	AND OPER. IN ORDER	
		Amou	nt 1	MUIDCS	X	1			-	ID 18-34	8_ES_Ash_light	t	Туре	ID	9		Name		
ID SR	990P		v 20.35							NMK 34	BES Ash Light	(0.7)		18	-1700_St	teel_grey	K_1700 Steel	grey(0.7)	
MM SR	990P		A 20.33	0 V	X	2 ABS-	K_348_ES	_As	-					18	-348_ES	_Ash_light	K_348_ES_A	sh_Light(0.7)	10
		Grain		21	85	ABS-K_	348_ES_As	sh_)	(110			21	-05-4568		calvados(0.2)		K
		00		21.	Y	1 ABS-	K_348_ES	_As	-	Grain				21	-18-4568		calvados(0.7)		10
IDRS	1	(° Χ		Z	/	ABS-K_3	348_ES_As	sh		C O	8	0	0	5-3	348 ES	Ash Light	K 348 ES A	sh Light(0.2)	IC.
NM Rig	ht Side	CY		0 0.7	1 Y	2 ABS-	K_348_ES	_As	- 🔽	CY			12	42	-18-1111		chrome(0.08)		100
			ő		/	ABS-K_3	348_ES_As	sh_						40	10 1660		colupidos(0.09	2)	No.
<																			>
#	Tree	T T Si	ub Position	Group	Ope-	Color	Atyp	Origin	ID		Name	х	Y		ZI	Pcs MatID		MatName	^
1	₽ S1					0	Product		SR99	0P	SR990P	35.4	3 35	5.43	28.35	1			
2	- S1_p1	N D s	Q						LS1		Left Side	28.3	15 21	1.65	0.71	1 18-348	ES_Ash_light	K_348_ES_Ash_Light(0.7)	
3	- S1_p2	\	Q						RS1		Right Side	28.3	15 21	1.65	0.71	1 18-348	ES_Ash_light	K_348_ES_Ash_Light(0.7)	
4	— S1_p3	N D s	Q						BL2		Back Left	26.9	3 34	1.02	0.71	1 18-348	_ES_Ash_light	K_348_ES_Ash_Light(0.7)	

- Window layouts are now saved automatically in version 21. You can drag the columns in the order you want to have them displayed, and have them set this way the next time you open program.
- You can enlarge or reduce the preview size of the Cutting Plan.

🗱 Previous 🌣 Next 📇 Patterns*+Part	🚔 Ogenview 🚔 Igdex Eb 📇 Mat.costs+O(1) 🛛 🚔 •	🔹 🏟 NP->DXE 🌒 NP->SINUMERIK			
51.65×11.73 Top	51.65⊀11.73 Bottom	G 31.65×11.14 Shelves	11.02×11.53 Top	60 110 MATERIAL IC: 19-348_E5_Ash_ight	
			R 11.02×11.53 Bottom	NAME: K_340_E5_Ash_Light[0.7] X+10 V 80 Z 0.7 TRM: 0.4+0.4 Num. of repeat = 1x	
A 34.72×34.72 Top	A 34.72×34.72 Bottom	26,938,34,72 Back Right	R 11.02×11.53 Sheives	Pattern #: 1 / 4	
			212 11.02×11.34	Total medicrel yield 74. 6650 % Material yield (with offouts): 94.7759 % Total met consumption:	
E 34.02×21.57 Too	84.027 21.57 Bottom	E 34.02×21.57 Top	23	244.464 601 Met.consumption (with offouls): 192.5774 scfl	

- Now you can go back to the time backup of the order. After every saving of the order its backup iscreated.
- There is a new column "Order" in the Optimization tab you can now see to which Order the part belongs.
- From the top menu bar you always see the Order ID in the Optimization window.

10	DAEX-CUT -	[List of contra	cts]							
Orc	lers d	CodeBooks	Ext)/imp Cu	86 stomer	rs		·		
List	Order list	We Busines	s 🎉	Preparation of p	oroduct	ion 🛓	Goptimiz	ation	n 🛃 Nesting 🏹 Work plan	
Oper	n New	Merge	😫 Cancel	D Search	8 My	All	Offers	o	Enter a name for the new folder.	a ump
#	State 1	Creation d	ate	Delivery date	Con	tract ID			Archive - 2019	Custo
1	Offer	12/18/2012	2	12/18/2012	Typ_	Atyp_To	talATyp_Ba	sic	OK Cancel	Doe
2	Offer	12/19/2012	2	12/18/2012	Typ_	Atyp_To	talAtyp_All			Doe
3	Offer	6/23/2014		6/23/2014	Style	s			Styles	Doe

- The process of Adding files to file Archives is now much easier to do.
- You can move the Order to the desired file directly in the tab Order list.
- You can make visible only those columns that you need to use in the List of Columns.
- The order of the columns can be changed by arrows at the bottom of the box.



• The list of Materials by Suppliers now includes their logos.

Materials by suppli	ier	ORDER:	Sa	mple_kitchen_02
			ACTION: TERM: PREPARED BY:	Doe 12/11/2012
ID	NAME		AMT	MU Price/MU
blum				
ZS700	ST CLIP 110°		18.000 pc	s \$0.16
		Tot	al w/o VAT:	\$2.88
1 Dēmos				
54864874578	Confirmat		148.000 pc	s \$0.02
		Tot	al w/o VAT:	\$2.96
hronospan				
ABS-K_348_ES_Ash_Light(2)_1	8-348_ES_As ABS-K_348_ES_Ash_Light(0.08)	190.650 ft	\$0.18
18-348_ES_Ash_light	K_348_ES_Ash_Light(0.7)		244.843 sq	ft \$1.06
5-348_ES_Ash_Light	K_348_ES_Ash_Light(0.2)		56.090 sq	ft \$0.91
		Tot	al w/o VAT:	\$344.89
	Material w/o	o VAT - to	tal :	\$350.73

What's new in TurboCAD Furniture Maker v20 DAEX-CUT

New:

Time Backups

Each time you save the order its backup is created market with time stamp. It is possible to go back to these backups.

Settings		
Standard Administrator Manufacturer settings		
Save O Close		
PASS		
Sequence Distributor Dilling Discounts Destarocesor 1 Pos	torocasor 2 Postprocesor 2 Password	
Distributor Binnig Discounts Postprocesor 1 Pos	iprocesso 2 Posiprocesso 5 Password	
Parameter	Value	
Path for Pracant XML		
Dir of DXF files for imp.TC -> Nesting	\DAEX\Export_Nesting	
Dir of DXF files for export (+CSV)		
Dir of pictures for import to order	ITCFMUPG	
Open attach.also outside of the contract folder?	NO	
Contacts DB - ConnectionString		
Create time backups?	YES	
Max number of time backups	5	
Filter MAT: Columns number	3	
Dir for CSV and XLS exports of times		
Default tab: 0=Business, 1=Production, 2=Studio	1	
Contacts DB - dir for imports		
Dir for ESSEMPIO import		
Automatic ESSEMPIO import	NO	
Automatic order saving	NO	
Path to CSV file for Assortment actualization		
Automatic Assortment actualization	Ю	
Dir for export TPV		
Dir for export IOPV		
Disferiment CODV		

- There is an easier way of assigning particular material items or operations to elements
- There is an option to define the room for placing theset
- There is new option now to export Cutting Plan -> DXF
- There is new option now to export Cutting Plan -> Sinumerik
- There is a new column "Last edited order"

Enhancements:

- Well-arranged design of assortment
- There are advanced settings for edge subtraction according to type of Edge BandingMachine technology ("premilling")
- Optimization output overview of cutting plans in bookmarks
- Enhanced function of combined format.
- Other general adjustments.

DAEX-Generator

New:

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- The icons has a new design: 🕂 🏷 🕱 👘 🖉 😳 📝 🔌 3D 2D 🏛 🛅 1 1 1, £ Ŷ T Ŷ Ŷ Ŷ Π, Ŷ 1, Ŷ Ţ, J, ₽ ₽. 🗑 🛒 🙆 🕦 🏪 🚺 😥 🐴 😪 🕦 3D 2D 祠 S -JPG **T**
- Composing according to vector:
- There is a new option to insert the sets aligned to front edge. This is useful when the cabinets have different depths.

- TCFM - Chairs - IS - Kitchen Accessories	Parameters Compose O Left	
 → Kitchen COMPORT → Bottom 30 → High → Top 24 → Top 30 → Top 35 → Office → Semi-Ainshed 	Align Front edge Back edge By reference point	
- Tables - Wadrobes 2D - Wadrobes 3D - Window Door	Distance X 1.5 ∨ Distance Y 1.5 ∨ Distance Z 4 ∨	
Search	Insert ->	Rotate
S12L S12P S15L S15P S18L S18P	Space	Dimension ₩ 11.875 H 30.375 D 24.125
S21L S21P S24	Delete مرا	Cancel
\$24L \$24P <	♥ Down	OK

	Parameters	
E TCFM	Compose	
Chairs	O left D = C	and the second se
IS		
E- Kitchen Accessories	() Right	
Bettern 20		
Bottom 30	Align	
Top 24	() Front edge	
Top 30	🔘 Back edge 🛛 🚽 🏲	
Top 35	O By reference point	
Office	C Dy ford and point.	
Wardrobes 2D Wardrobes 3D Window Door	Distance X 1.5 V Distance Y 1.5 V	
Search	Insert -> Serte 1	Relate
S12L	S12L	Dimension
S12P	<- Remove	11 11 075
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S15P		H 30.375
010	4	
STOL	4 0.00	D 24 125
S18P		D 24.125
S18L S18P S21L	Delete	D 24.125
518L 518P 521L 521P	Delete	D 24.125 Cancel
518E 518P 521L 521P 524	Delete	D 24.125 Cancel
S18E S18P S21L S21P S24 S24L	Delete Up	D 24.125 Cancel New serie
S18L S18P S21L S21P S24 S24L S24P	Up Delete	D 24.125 Cancel New serie

-	Parameters		Accessories		
	Identifier:	ID-58581507	- Fittings	^	
	Name:	S12P	Hinge		
	Group:		Support		
<u> </u>	Room:		Excentric	in the second second	
	Position:	TurboCA	D Furniture Maker		×
	Width:	12.875			
	Height	30.375	You have changed the size. Do atvnical?	you want change the :	ign as
stepport Ktohen	Depth:	24.125	addisen.		
lodel:	Resize:	Variant 1	Vez	No. 1	Concel D
1DoO_RSO_LSO_BaR_Rails	~ Parametriz	ation	res	NO	ancer
Elements Ex	cabinet Do	ors	Pull		
	No door		No handle	^	
	Door_01 Door_02		Pull_01 Pull_02		
Cancel	JK Door 03 Door 04		Pull_03 Pull_04		
	Door_05		Pull_05		
	2001_00		Pul 07	V	

There is an option to mark the set as ATYP when modifying its dimensions.

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- Visible content of all inserted sets that are editable.



- Dynamic dimension of vector length.



- The user has an information about the exact space left for the next cabinet.
- Group definition just for one set and room definition for the set.



There is an option to resize the dialog box of Elements and Composing acc.vector.There are new options in Setting.

						What's n	ew
						Help onli	20
						Help on	ne
· <u>5-</u>						Video Tu	torials
						Video Tu	torials on-line
• -						Settings	
- -						About	
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tions		-			×		
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th to symbols		cumente) TCEM	Sumbole Mar C	umbole)	_		
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Dimension text h Offset X	sight [mm]: 0		×		•		
Dimension text h Offset X Offset Y	sight [mm]: [0 [0		X		•		
Dimension text h Offset X Offset Y Offset Z	eight [mm]: 0 0 4		x x x				
Dimension text h Offset X Offset Y Offset Z Space	sight [mm]: 0 4 4		x x x x				
Dimension text h Offset X Offset Y Offset Z Space	sight [mm]: 0 4 4 al designation		x x x x				

- For example, now it is possible to preset the distances for inserted symbols.
- Enhanced export for generating data of the set.
- Data are automatically exported into the file in which the symbol is saved.
- The floor and the ceiling are created automatically according to the designed room.

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R .		Manually	
	+		

• Simplified creation of hole into the worktop.

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JPG export – there is an option of the print set to choose which visualization will be inserted.

Save view)
Wireframe	Offer
O Hidden lines	O Utility lines
O Draft rendering	O Plane view
Quality rendering	O Additional documents 1
	O Additional documents 2
	O Technical description 1
	O Technical description 2

What's new in TurboCAD Furniture Maker v21



NEW: The order of the edge gluing



NEW: Composing according a vector: Feature "New series" – create new row of cabinets according to already specified vector

Composing acc. to Vector				- 🗆 X
	Parameters O Compose left O Compose right			
High <u>Top 24</u> Top 30 Top 35 Office Tables	X Distance	1.5 1.5 4	~	
Wardrobes 2D Wardrobes 3D v	Insert ->			Rotation
HND12L A HND12LS HND12P HND12PS HND15L HND15LS	< Remove Space 4 v			Dimension W 11.875 H 24.775 D 12.25
HND15P HND15PS HND18L HND18LS	<u>D</u> elete			<u>C</u> ancel New serie
< >				<u>O</u> k

NEW: Composing according to vector: Feature "Space" – insert a space of specified dimensions between two cabinets.

		D				
TCFM Chairs TS Free Kitchen Accessories Kitchen COMFORT Bottom 30	^	Compose left O Compose right	-			
···· High ···· <mark>Top 24</mark>		X Distance	1.5	~		T
Top 30	10-10-10-10-10-10-10-10-10-10-10-10-10-1	Y Distance	1.5	~		
- Office Tables		Z Distance	4			
Wardrobes 2D Wardrobes 3D	~					
Search		Insert ->			E	Intation
HND12L	^	< Remove			Din	nension
HND12L HND12LS HND12R	^	< Remove			Din	nension 11.875
HND12L HND12LS HND12P HND12PS	^	<- Remove			Din W H	11.875
HND12L HND12LS HND12P HND12PS HND15L	^	< Remove Space 4 v			Din W H	11.875 24.775
HND12L HND12LS HND12P HND12PS HND15L HND15LS HND15LS	^	< Remove Space 4 V Delete			Din W H D	11.875 24.775 12.25
HND12L HND12LS HND12P HND12PS HND15L HND15LS HND15P HND15PS	^	< Remove Space 4 ~ Delete			Din W H D	11.875 24.775 12.25 <u>C</u> ancel
HND12L HND12LS HND12P HND12PS HND15L HND15LS HND15P HND15PS HND18L	^	< Remove Space 4 ~ Delete			Din W H D	11.875 24.775 22.25 12.25 Cancel
HND12L HND12LS HND12P HND12PS HND15L HND15LS HND15P HND15PS HND18L HND18LS HND18P	~	< Remove Space 4 ~ Delete Up Down			Din W H D	11.875 24.775 12.25 <u>C</u> ancel ew serie

IMPROVEMENT: Nesting – Taking in account the direction of fibres **IMPROVEMENT: Nesting** – The legend inside the parts

NEW: Settings – the possibility to set the path to symbols for composing according to vector

Options	×
Project documentation Drilling	
Elements shift [mm]: 250 Size of legend [mm]:	25
Areas for elements shift	
Depth for Door/Pull/ detection [mm]:	250
Depth for Back detection [mm]:	35
Depth for Left Side detection [mm]:	25
Depth for Right Side detection [mm]:	25
Depth for Top detection [mm]:	25
Depth for Bottom detection [mm]:	25
Symbols directory: C:\Users\Milan_S\Documents\TCFM\Symbols	\My Symbols\
OK Cancel	Apply

NEW: Formulas in the cell – the possibility to enter mathematic functions into cells X 110 Grain 0 H112 30 Grain **Y1** -Г O 0 Y O 0 Э Х Ζ 80 • X ΟY 0 0.4 Y2 ... -F ΟY Х ... Position Group Ope- Color Atyp Origin ID Name Y Ζ 0 Bottom Bottom 20-2 30 0.4 o. 1 ••• ~~ ~ •

IMPROVEMENT: Image filter – can display over 2000 items, now it can be used in both in materials and series

막	📕 🖬 🔘 🔥 🚠 🗢			🗙 😫 Info 🗔 🔎	SES PPL PDL	POS OPE MPL MDL	MOS E
	📶 FILTR	1 PS . Map . Pa	Pass ad. D				×
	E	HD50LS		HD50P		HD50PS	* 7 7 7 7 7
	0	HD60		HD60L		HD60LS	7 7 7 7 7 7
		HD60P		HD60PS		HD60S	7 7 7 7 7 7
	n	HD80	FF	HD80S		HD90	Ŧ
						🗶 STO	ORNO
L							

NEW: New print set Label A1_2



NEW: New print set Technical description –TP1/1, TP1/2, TP1/4



NEW: New button Return - Go back to the lately saved order status

🔰 🛛 DAEX-CUT - [Order]



NEW: Export MOS (other material) into XML DG+MAT – export the piece material into the DAEX-Generator configuration files

M © DAFX-CUT - [Order]

		3	20			
Orders	CodeBooks	Exp/Imp	Customers	÷		
tmport	t TCFM 🚺 Impo	rt TCFM -> Assort	ment 🙀 Import of	Assortment 🎠	Export of Assortment	MPC->XML,MAT

NEW: Feature Bin for deleted orders



Ord	ers C	odeBooks	Ē	xp/Imp	Customers	÷
	Order list	😻 Busine	ss 🦓	Preparation	of production	🌉 Optimization
List	of con	tracts				~
Oper	-	Herce	Cano	 @Archive		ars Or
#	State1	Creation	date	@Samples		
1	Offer	12/19/20	12	@Bin	,	p_All
2	Offer	12/18/20	12	12/18/2012	2 Typ_Atyp	_TotalATyp_Basic
3	Offer	6/23/2014	1	6/23/2014	Styles	

NEW: The possibility to change ID of an existing order



NEW: Possibility of sorting by Idx column



NEW: User setting column – by right-clicking user can choose which columns to display

Columns			x
✔ #			^
□ ldx			
Tree			
 Type 			
SubType			
✓ Name			
✓ 1			
VAdd			
✓ YAdd			
✓ XCP			
✓ YCP			
✓ Pcs			
Sum			
Cons/Mu			
Consumption	ı		
 MatMu 			
Grain			
 TypeM 			
TypeM			
✓ MatID			
MatName			
Ctg. general			
Ctg. position			
Ctg. Line			
✓ Room			
Color			
Supplier			
Price type			~
			Ŧ
	X STORNO	🕢 ОК	
		-	

IMPROVEMENT: Improved combined formats Sample at DAEX-CUT: order "Combined_formats" Sample at DAEX-Generator: Documents\TCFM\Samples\Combined_formats.tcw

Settings in the columns SF type, SF Id, SF Pos

SF Type	SF Id	SF Column	SF Row

SF Type – Selection of options A, B = arrangement for cutting plan, not for graphic in TurboCAD.

A = compose vertically , B = compose side by side

(For type "A" it is assumed that the parts in one row have always the same height, for the type "B" it is assumed that the parts in one column have always same width)

SF Id – the user defines – order marking in cutting plan in the contract

SF Column – the user defines - this is the order of the columns of combined format

SF Row - the user defines - this is the order of the row of combined format

Slab is oriented by longer side X..



Combined format (SF) e.g. front drawers



1. The texture is oriented horizontally.

Required SF looks like this. Overall dimensions are in blue. Setting of cutting joint in optimization is 4 mm.



The SF parts are undrneath – that is why they are called A

ID	SF Type	SF Id	SF Co	SF Row	A111	<u>1</u>	=				
front_1									_		
front_1-001	A	1	1	1	A112		=-		-		
front_1-002	А	1	1	2	A113	-	<u></u>				
front_1-003	А	1	1	3	A114						
front_1-004	А	1	1	4		-	=				
Optimal Head Overview Options	🖩 🖽 Long 🌆 St	oort 🧱 Con	ibination 📆	All	2 🔹						
ID	Name		х	Y	Z	Grain	Pcs				
21-18-4567	beech(0.7)		110	80	0.7		0				
Parts											
Parts Parts ID T #A-1	Nam *33.5	e x6.6*33.5x6.6	*33.5x6.6*33	X 5 33.5	Y 26.88	Z 0.7	Pcs 1	Grain X	X1 X2 0 0	Y1. 0	Y2. 0
Parts ID #A-1 Optimal Head # Verview Options Out First & Previous 3	Name *33.5 ■ Long I Short put] > Next	a 66.6*33.5x6.6 ₩ Combinatio **Part ♣ 0	5*33.5x6.6*33. n 麗 All gerview 🚔 Ind	X 5 33.5 2 ♀ Matc	Y 26.88 psts+O(1)	Z 0.7	Pcs 1	Grain X	X1 X2 0 0	2Y1. 0	. Y2 0
Parts Parts ID #A-1 Optimal Head # Verview Options Out First & Previous 3 33.5×26.88	Nama *33.5 ■ Long III Short put] Next	e (6.6*33.5x6.6 © Combination **Part	5*33.5x6.6*33 m ಔ All gerview 🚔 Ind 2 26.88	5 33.5 2.€ Nex Eb ≧ Mat ci	Y 26.88 Dosts+O(1)	Z 0.7	Pcs 1	Grain X	X1 X3 0 0	9	. Y2 0
Parts Parts ID #A-1 Optimal Head Dependence Preview Options Out First Previous 3 A 33.5×26.88	Name *33.5 E Long I Short put] Next Patterns	8 66.6*33.5x6.6 Combination *+Part → Og 22 75.94×	x*33.5x6.6*33. m ಔ All rerview ≧ Ind 2 26.88	X 5 33.5 2 € Matco	Y 26.88 Dosts+O(1) → 10 MATERIAL ID: 21-1 STOCK B:	Z 0.7 8-4567 = 1x	Pcs 1	Grain X	X1 X 0 0	L. Y1. 0	. <u>Y2</u> . 0
Parts Parts ID #A-1 @ Optimal Head # Overview Options Out First & Previous 3 33.5×26.88	Name *33.5 Long III Short put] Next Patterns Z 109.6	e c6 6*33.5x6.6 Combinatic *+Part → O 75.94x 1 52.56	x*33.5x6.6*33. n ☶ All renview	X 5 33.5 2 : ex Eb Adator	Y 26.88 26.89 26.8	Z 0.7 8-4567 = 1x	Pcs 1	Grain X	X1 X2 0 0	2 Y1. 0	. <u>Y2</u> 0

2. Drawer texture is oriented vertically.







ID Name X Y +A-4 *26.5x18.9*26.5x18.9 26.5 37.96 Pcs Grain X1... X2... Y1... Y2... 1 X 0 0 0 0

Z 0.7



Combined formats (SF) e.g. drawer fronts

	columi	n 1	colum	12	column 3	column	4 column 5	. 🛉
row 1	B511 -		B521		B531	B541	B551 —	4,0
row 2	B512 -		_=	-			B552	4,0
row 3	B513 -		B522			B542	B553 —	4,0 .16 0 40
row 4	B514 -						B554 ———	4,0
	10	0	10.0		12.0	12.0	12.0	4
8	12,	0	.16	, -	0.16	0.16	0.16	
ID	SE Type	SEId	SE Co SE	Row	1516			
front 5	or type	or io	01 00 01	1001				
front 5 001		5						
front 6 002	0	5	-	2				
front 5 002		5		2				
Iront_5-003	в	5	1	3				
Iron(_5-004	8	5	1	4				
Tront_5-005	в	5	2	1				
Tront_5-006	в	5	2	2				
front_5-007	в	5	3	1				
front_5-008	в	5	4	1				
front_5-009	в	5	4	2				
front_5-010	В	5	5	1				
front_5-011	В	5	5	2				
front_5-012	В	5	5	3				
front_5-013	В	5	5	4				
Optimal Head Overview Options Out	Long 🔢 Short put]	Combination	III All	2 🗘				
ID N 21-18-4567 b	lame eech(0.7)	X 11	Y 0 80	Z 0.7	Grain X			
Parts Parts ID	Name		X	Y	Z Pcs	Grain X1 X2 Y1 Y2		
D #8-5	*12.2x4.2/4	.2/4.2/4.2*12.2x8	0.2/8.2 61.64	17.28	0.7 1	X 0 0 0 0		
Overview Options Ou	tput]							
61.64	д ×17.28		47.8×17.28		110			
			J	/	MATERIAL ID: 21-18-4567 STOCK D: NAIE: beech(0.7) X110 Y80 Z 0.7 TRIM: 0.4×0.4 Num of ropost = 1x			
	109.6	Z1 5×62.16			Pattern #: 1 / 1			
					Total material vield			
				~	12.1039 %			







NEW: Parametrization of cabinets

That function is turn-off at default state, to turn-on you have to close TurboCAD and open file *Setup.xml* at path:

C:*Users*\[*user*]*AppData**Roaming**Spinar-software**TurboCAD Furniture Maker*\18.0\Data\Configs or at path:

C:\Program Files (x86)\Spinar-software\TurboCAD Furniture Maker 64bit\Data\Configs

and change

<parametrization>0</parametrization>

to

<parametrization>1</parametrization>

Help for that feature: www.spinar.cz/download_2/TCFM18/Parametrization.pdf

Model is assigned for these cabinets:

Inch-version of TCFM:

HVD12L; HVD12LS; HVD12P; HVD12PS; HVD15L; HVD15LS; HVD15P; HVD15PS; HVD18L; HVD18LS; HD12L; HD12LS; HD12P; HD12PS; HD15L; HD15LS; HD15P; HD15PS; HD18L; HD18LS; HND12L; HND12LS; HND12P; HND12PS; HND15L; HND15LS; HND15P; HND15PS; HND18L; HND18LS; V15L; V15P; V24L; V24P; VL24L; VL24P; VSTR24L; VSTR24P; VTR24L; VTR24P; S12L; S12P; S15L; S15P; S18L; S21L; S21P; S24; S24L; S012

Metric-version of TCFM:

HD30L; HD30LS; HD30P; HD30PS; HD40L; HD40LS; HD40P; HD40PS; HD45L; HD45LS; HVD30L; HVD30LS; HVD30P; HVD30PS; HVD40L; HVD40LS; HVD40P; HVD40PS; HVD45L; HVD45LS; HND30L; HND30LS; HND30P; HND30PS; HND40L; HND40LS; HND40P; HND40PS; HND45L; HND45LS; VSTR60L; VSTR60P; VTR60L; VTR60P; V40L; V40P; V60L; V60P; VL60L; VL60P; S60; S30P; S40L; S40P; S45L; S45P; S50L; S50P; S60L; S30L

IMPROVEMENT: Refreshed order is highlighted in List of Contracts **IMPROVEMENT:** Improved scrolling in the order **NEW:** Select the default module – Business/Production **NEW:** Position and group – for all elements in drawing can be allocated position and for select group of elements indication.



After selecting the cabinet, there is now in the cabinet dialog new item - Position. Now, it is possible to edit the cabinet's position.

G HO30 P1 Category: Kitchen Elements Export	Accessories

In this way, we can enter the position for individual elements in the drawing.





Identification of a group can be assigned to selected elements in a drawing. Select the required cabinets and click on the icon 'Generate'.



	Parameters	Accessories	
	Count of selected objects: 3 Group: G Prefix auto-poetion.		(08)
ategory Kitchen 🔻	Cabinet Doors	Pull	
Elements Export	No door	No hendle Pull 01	
	Door_02 Door_03	Pul_02	
	Door_04	Pull_04	
Cancel Ok	Door_06	Ful_02	

We can see in the dialog box how many objects are selected and we can enter the name for this Group, for example, ,Kitchen'.

 Parameters	Accessories	
Count of selected objects: 3		
Group: Kitchen Prefix auto-position:	-Support -Excentric -Confirmat -Cooktop -Oven	



In this way we <u>can</u> create required groupsGroups.



If the marked objects come from different Groups, the Group name in the dialog box is written with an asterisk (*).

		•		
Kitchen	Kitchen	Kitchen	G4	G4
HO30	HO60	HD60	HD60L	× HD60P
P1	P2	P3	P4	P5
		U U	U	1



Deleting this asterisk (*) clears the marking of objects that come from different Groups:

Kitchen				G4
HO30	HO60	HD60	HD60L	HD60P
P1	P2	P3	P4	P5
			U	

NEW: Prefix auto position – makes it possible to add a prefix indication of position together with the numbered position, according to the sequence in which the objects were entered into a drawing. The sequence is marked with blue numbers.





IurboCAD Furniture Maker 16.0 - Days left to trial version : 5





HO30	HO60	HD60	HD60L	HD60P
PP1	PP2	PP3	PP4	PP5
			U U	

• <u> </u>	4	3	2	5	
HO3 A	0 HD60L D	HD60 Z	HO60 B	HD60P	_•X
			•		
TurboCAD Furniture Maker 16.0	- Days left to trial version : Parameters	5	Accessories		
	Count of selected obj Group: Prefix auto-position:	ects: 5	Fittings Hinge Peg Support Excentric Confirmat Appliance Cooktop Oven Refrigerator	-> <-	DB
Category: Kitchen	Cabinet Doors No door Door_01 Door_02 Door_03 Door_04 Door_05	-	Pull No handle Pull_01 Pull_02 Pull_03 Pull_04 Pull_05		
Cancel Ok	Door_06				



NEW: The minimum and maximum element size.

Now, we can define minimum and maximum size for an element in (X, Y, Z). If you exceed this size limit, the resizing will not be implemented.

It is necessary to set Size minimums and maximums for the X, Y and Z variables.

-	Parameters	Accessories	
	Identifier ID-52270520		
	Resize configuration		
-	Resize X	Resize Y	Resize Z
	Division count 2	Division count 2	Division count 3
	Size 300	Size 300	Size 720
	Size min. 250	Size min. 250	Size min. 600
	Size max. 450	Size max. 600	Size max. 1200
gory: Kitchen ·	NO distance resize % 1 100 50 2 200 50	NO distance resize % 1 100 50 2 200 50	NO distance resize % 1 180 33,33333 2 360 33,33333 3 540 33,33333
Cancel Ok	Update	Update	Update
	Resize 9 Name of resize v	ariant (displayed name of resize variant)	Cancel OK

When the size	limit is exceeded.	the program w	ill display the	e following notification:
				J

	Parameters		Accessories			
	Identifier: Name: Position: Width:	ID-52270520 A_HO30 200	 ➡ Fittings → Hinge → Peg → Support → Excentric → Confirmat ➡ Appliance 	* = ->		
Category: Kitchen Elements Export	Depth: Resize:	B Wa	iture Maker rning: Change size Width to va	lue 200. Minimum value	is 250.	DB
Cancel						

NEW: Blum, -3D Cabinet hinges and fittings symbols Library All Symbols Favorites BLUM\17_ **+**•• 171A5010 171A5040 171A5070 171A5500 173H7100 173H7130 173L6100 173L6130 173L8100 173L8100.21 P Ø 194 SB Ż S 173L8300 173L8330 174E6100.01 174E610Z 174E6130.01 174E6300 174E6330 174H7100E 173L8130 174H7100I 1.82 19 X w 19 20 10 30 a. 174H710ZE 174H7130E 174H7130I 174H713ZE 174L6100.05 174L6130.05 175H3100 175H3130 175H4100 175H410Z Care o 0 ٥s ħ٥ 175H5400 175H4130 175H5430 175H5A00 175H5B00 175H5B00_L 175H7100 175H7130 175H7190 175H7190.22

Gioaps	Perameters Type: Panel D: PANEL1 Bize X: 2000 Size Y: 100 Thickness: 100 Excess X: 0 Excess Y: 0 Venser VFront VEsck	Moterial Grain direction: A B M M Plastic black metal(18) d-mmy, tree(18) poor tree(18) K-381PR Been, Bevand(18) Foreit Suffice S Front S Back
Resize Copy parameters	VI	X2:
Ates Ing Items - production 2 ^A * Notes and agreement		
TION PARAMETERS PA	RT MATERIAL BOD MATERIALS AND OPER. IN ORDE	R
Amount 25 MU[pcs] ID Massive x 2000	TFID Name T Massive Panel	

	ACTION: TERM: PREPARED BY:	OF15_000002_TCFM Doe 8/10/2015 Walsch	
Material name		Amount	
Panel_2000x100x100 (25 pc	cs)	0.500 m3	
	Material name Panel_2000x100x100 (25 pc	Material name Panel_2000x100x100 (25 pcs)	

MATERIAL CO	STS (ORDER:	OF15_0	00002_TCFM
			ACTION : TERM: PREPARED BY:	Doe 8/10/2015 Walsch
Material ID	Material name	Sum:	Amount	Price
T Piece material				
Massive	Panel_2000x100x100 (25 pcs)	\$20.00	0.500 m3	\$10.00
1			Sum:	\$10.00
		82		10 - O

Materials by su	oplier order	e <u>o</u>	F15_00	0002_TCFM
		ACTIC TER PREPARED I	N1: M1: 811:	Doe 8/10/2015 Walsch
ID	NAME	AMIT	MJ	PriceML
Massive	Panel_2000x100x100 (25 pcs)	0.500	m3	\$20.00
		Total w/o VAT	:	\$10.00
	Material w/o VAT	- total :		\$10.00

NEW: Work schedule – Simple planner of works.

Dr	ders	Cod	eBooks Exp/lr	np Customers	Ţ							
1	Order	list 🚴 Refre	Business 縼 Press	eparation of production Strain Optimiz	zation Ant	9	Work pla	IN	Hours to	bleave: 5	хо	h / day : 8
# 1	() E	Auri.	ID Formatting	Name	AIVI I	h	1.4	day	PTOTT	02 07 2015		Days excluded:
2	Ö		Drilling		20	h	2,5	day	02.07.2015	06.07.2015		Tue 30-06-2015
3	0	1	Package		9	h	1,1	day	30.06.2015	01.07.2015		Wed 01-07-2015

Wo	rk plan	1				Order No: Action: Term: Prepared by:	OF14	_000021_TCFM 29.6.2015
Attr.	ID	Name	Color	Amt MU	h/day	Numb.of d MU	From	То
	Formatting			11,0 h	8,0	1,4 day	1.7.2015	2.7.2015
	Drilling			20,0 h	8,0	2,5 day	2.7.2015	6.7.2015
	Package			9,0 h	<mark>8,0</mark>	1,1 day	30.6.2015	1.7.2015

Work pla	ın 2																					Pre	Orde A epare	er No Iction Tern ed by	D: 1: 1: /:		OF1	4_0	0002 2	1_то 9.6.2	FM 015
Attr ID	Name	Cha	rt																												
-		30.6	.201	5													15.7	.201	5												
		30	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Formatting																															
Drilling																															
Package																															

NEW: The numbering of edges – allows you to define the sequence of machining the edges.

	IDENTIFIC/		N				PAR	AMETE	RS		P	ART MATE	RIAL		
					Amount		MUpcs	X	1 ABS-K_7935S	U_Have 🔽	ID 18-7935	SU_Hava	na] <u>Ty</u> .
ID H	1030								BS-K_7935SU_	Havanna(C	NMK_7935	SU_Havai	nna(18)	_	í C
NM H	1030				^		0 Y	Х	2		v	2800			1-
	_				Grain o F		27				Craina -	2000			
				_				Y	1				Y		- Ç
ID 3	HELF_FREET						Z				o x l		2070		C
NM S	Shelf free						⁰ 18	Y	2		O Y		_		1 C
													-		
#	Tree	T	T	Sub	. Room code	Color	Atyp	Origin	ID	Name	Х	Y	Z	Pcs	MU
1	<mark>₽ S1</mark>	⊠	⊠			0			HO30	HO30	300	300	720	1	pcs
2	- S1_p1	V		SQ					TOP1	Тор	264	300	18	1	pcs
3	— S1_p2	Þ		SQ					SHELF_FREE1	Shelf free	263	270	18	1	pcs

NEW: Group, Position – transfer of information from the graphical part of TurboCAD into the Group column and position in DAEX CUT:

10	Contacts and dat	es 🛙	📕 Iten	ns - bu	siness	B	* Notes a	nd agreement					
₿+	Set 🍸 +Part 🔹	- +P	art 📘	+Part	t () +	Oper	ation 🛛 🖣) 🖬 🖬 📥 🥏 🛛	🔋 🕱 SCP 🛛 🗙 🛛 4	🕨 🔹	F-OPE	In <u>f</u> o 🔳	🕏 Assortme
#	Tree	Туре	Тур	Sub	Origin	C	Atyp	ID	Name	Group	Position	Pcs	MU
1	<mark>₽ S1</mark>	⊠	⊠			0		HO30	HO30	Group	P1	2	pcs
2	- S1_p1	P		SQ				TOP1	Тор	Group	P1	1	pcs
3	- S1_p2	P		SQ				SHELF_FREE1	Shelf free	Group	P1	1	pcs
4	- S1_p3	P		SQ				BACK1	Back	Group	P1	1	pcs
5	- S1_p4	P		SQ				BOTTOM1	Bottom	Group	P1	1	pcs
6	- S1_p5	P		SQ				SHELF_FREE2	Shelf free	Group	P1	1	pcs
7	- S1_p6	P		SQ				SIDE_LEFT1	Side left	Group	P1	1	pcs
8	- S1_p7	P		SQ				SIDE_RIGHT1	Side right	Group	P1	1	pcs
9	₽ S2	⊠	⊠			1		HO60	HO60	Group	P2	2	pcs
									_	-			

Improved: Nesting – Optimized cuts allows for special treatment for Nesting. This combination allows for more complete machining of elements directly on the CNC.

Improved: Print report. List of the parts A2 (Optimization) – There are now new columns for allowance of X and Y- X NP and Y NP.

INDEX A - part dimensions incl. allowance

```
Order: OF14_000023_TCFM;
```

_													_						
	set	#	cod	x	Y	Z	pcs		part	X PPV	A dd Y			material	edges	X 1	X2	¥1	¥2
	HO30			300	300	720	2				0	0							
		1		702	282	5	2	V	Bac		0	0		5-7935SU_Havanna					
		2	C	274	300	18	2	7	Botton	1	0	0		18-7935SU_Havana	X1	ABS-K_7935SU_Havanna			
		3	D	263	270	18	2	7	Sh elf fre		0	0		18-7935SU_Havana	X1	ABS-K_7935SU_Havanna			
		4	D	263	270	18	2	7	Sh elf fre		0	0		18-7935SU_Havana	X1	ABS-K_7935SU_Havanna			
		5	A	720	300	18	2	7	Side le		0	0		18-7935SU_Havana	X2Y1Y2	2	ABS-K_7935SU_Havanna	ABS-K_7935SU_Havanna	ABS-K_7935SU_Havanna
		6	Α	720	300	18	2	V	Side righ		0	0		18-7935SU_Havana	X2Y1Y2	2	ABS-K_7935SU_Havanna	ABS-K_7935SU_Havanna	ABS-K_7935SU_Havanna
		7	В	274	310	18	2	V	Το	1	0 1	10		18-7935SU_Havana	X1	ABS-K_7935SU_Havanna			

Improved: Summation of storage cards. At the end of the print report, there is now a summation of all items.

7	10 Hood			Quantity in stock Price per pcs Total price	110 20.0 2200	pcs
	8/11/201	5 💌		👍 ltem 📇 ltem+movements 🚔 All 📇 All+movements	X CANCEL	<u>ы</u> ок
				Movement list		
Show r	novements 🥅 Virtual ma	iterial				
Date	Descr.	+/-	Pcs			_
Date 7/28/2015	Descr. Buy	+/- +	Pcs 100			

Stock card					Status to dat	e: 02.08.2015
ID	NAME				PC	s M2
10	Hood				10	o o
		Code	Х	Y	PCS	M2
		21-			Price/MU Total price	\$20.0 \$2,000.0

Improved: Floor / ceiling – added views on the chosen material for the floor and ceiling.

Floor	Ceiling
Create Thickness: 0	Create Thickness: 0
Materials	High: 2500 Materials
Categories: Kronospan\FANTASY decors	Categories: TurboCAD Furniture Maker\Worktop
Materials: 8413_SM_Imeneo_Light	✓ Materials: WT amarella granite 28
Luminances	Luminances
Categories:	✓ Categories:
Luminances	✓ Luminances
	Close