

EMX 13.0.3.10





New components:

- New MEUSBURGER cooling components E20767, E20769 and E20809
- New STRACK pneumatic components Z139 Z5144, Z5145 and Z5146
- New STRACK slider holding device Z5129, Z5130, Z5131
- New STRACK stroke cylinders Z5100, Z5101, Z5102
- New STRACK thrust pieces Z3152, Z3154, Z3153, Z3156 and Z3158
- New knockout STRACK Z5085





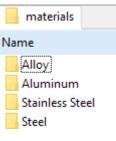
EMX 13.0.3.6





Improved MATERIAL_PATH behavior

Materials can be structured in subfolders



- Config Option MATFILE_EXTENSION is no longer active.
- *.mtl files are handled with higher priority then *.mat files
- Search priority is now:
 - 1. Files from Material Path
 - 1.1 *.mtl
 - 1.2 *.mat
 - 2. Files from USER_CONFIG_PATH
 - 2.1 *.mtl
 - 2.2 *.mat
 - 3. Files from INSTALLATION
 - 3.1 *.mtl
 - 3.2 *.mat



EMX 13.0.3.5



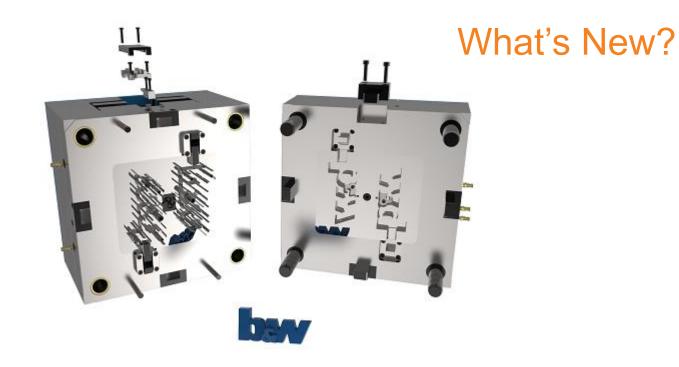


- New XML based recipe files Deprecated text-based files still work
- New MEUSBURGER ejector pins E1770 (with air ventilation), E1780, E17109
- New PEDROTTI guides EBU2, EBU2B, EZP1H, EBU3B, EZP1
- New PEDROTTI ejector pins EES2CB, EES2DLC, EES2NL, EES2CL_2RAD, EES2CL_4RAD
- Option "Force cutout in surface owner" removed for guides, ejectors and screw

Not required anymore due to improved cut out algorithm



EMX 13.0.3.4





- New weblink button in Library Component Dialog
- New and updated PEDROTTI guide components

EBU1, EBU1B, EBU1BG, EBU1H, EBU1HBG, EBU1S, EBU1SBG, EBU1SH, EBU3, EBU3B, ECO1, ECO1H, ECO1S, ECO1SH, ECO2, ECO2E, ECO2L, ECO2LC, ECO2SG





EMX 13.0.3.1





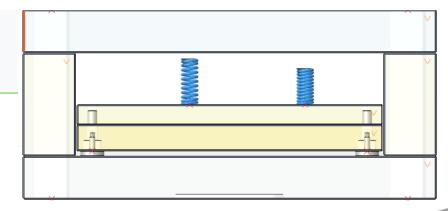
New Flexible Springs:

- Springs can now be assembled as flexible models.
- Implemented for Hasco, Meusburger and Strack springs.
- The same model can be assembled multiple times, but with different lengths

	Dimension Name DM2 - Diameter	Value 19	Type
	LG0 - Length	90	
	DM1 - Inner Diameter	10	
	Ln - Minimal length	73	
	Fn - force	1669	
	L_un - Length unload	90.000	Ţ≑
F un = 0.00 F lo = 1669.00	L_lo - Length loaded	73.000	Ţ≑
S = 17.00	OFFSET - Offset	0	[<u>_]</u>]

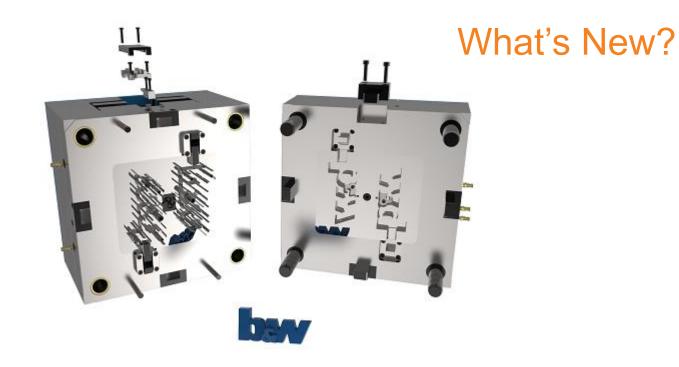


- 3123_SPRING_20.PRT
- Group EMX_REF_POINT_PLANE_1
- 123_SPRING_20.PRT





EMX 13.0.3.0





New Config Option:

LIBRARY_DISABLE_MANUAL_PLACEMENT_WITH_INCOMPLETE_REFERENCES:

Default value: NO

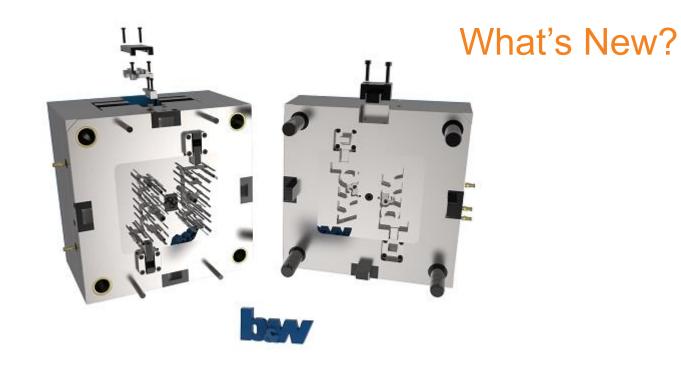
Disable manual placement by component interface assembly for library components in case of incomplete assembly references.

This option can hale to avoid incompletely placed components in mold base assemblies





EMX 13.0.2.4





New and updated DME EUROPE components available:

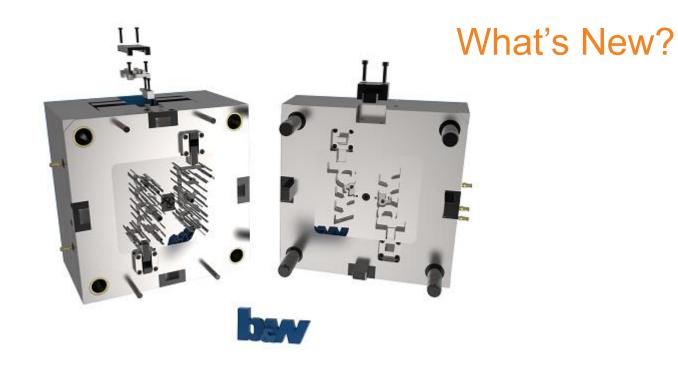
- Locating Rings: F1360, F1367, RB, DHR21, R19, R20, R22, R23, R40, R60, R60L, RB60 and RB90
- Guide components: R01, R02, R03, R03W, R04, R04W, R05, R08, R09, APD, IPWC, IPNH, FBC, FBN, FSC, FSN, FB120, FB140, FW14, GB112, GB113, GB114, GEB, TD, ZH, F1000, F1010, F1020, F1030, F1040, F1100, F1110, F1120, F1121, F1125, F1126, F1127, F1140, F1144, F1145, 1150, F1332 and FW1213
- Support Pillars: SP, FW28, FW29
- Ejector Pins: CHE28, EAH28, ENA05, ENC05, EOA05, EPA05, EPC05, EPD28, ERA05, ERFAQ, EDC, EDH, PCM, FW, FK, S, KS, EAV, F2R and F4R
- Knockout: F1050 and 1515

New and updated MEUSBURGER components available:

- Knockout: E1514 and E1515
- Guiding package: E1325 and E1330



EMX 13.0.0.4







Introduce command to calculate size parameter of all models in assembly:

Calculate size for all solid models without opening the Bill of Materials

	View	ew Applications		5 E	EMX Assembly	EM)	KC	Compon	ents					
•							ļ	•	R					
	Bill of Materials	Edit BOM Parameters	Model Size				Options	Help)	Color Coding		er Tools Only)	Component Sta (Debug Only	
	Docume	entation 🔻	EMX Tools 🔻		Administrator Tools 🔻	Help	•			Utilit	ties			
				Calcula Set Acc Export (nnology Colors te Clamping Force uracy CSYS Position te size for all solid mode	els	2	2 3,	0, 🖬), ing '	⁷ *, 🔁 🎾 🛆			
							C	Calculate s	ize for all	solid m	blid models nodels in the result			



When recalculating size parameter in BOM, all changed values are highlighted:

Bill of Materials			- 🗆 X
	ρ	∢ ► 0 Hit	s/ 41 Models
/IBER	SIZE	NOTE	LIST_EXAMI
36/1730	446.000x346.000x36.000		AB-123 📤
256/ 22/1730	346.000x256.000x22.000		AB-123
256/ 17/1730	346.000x256.000x17.000		AB-123
44/86/1730	346.000x86.000x44.000		AB-123
44/86/1730	346.000x86.000x44.000		AB-123
36/1730	346.000x346.000x36.000		AB-123
56/1730	346.000x346.000x56.000		AB-123
76/1730	346.000x346.000x76.000		AB-123
36/1730	446.000x346.000x36.000		AB-123
	Ø10.000x16.000		AB-123
	0x0x0		AB-123
	Ø20.000x4.000		AB-123
	Ø18.000x172.000		AB-123
	Ø18.000x52.000		AB-123
	Ø13.000x33.000		AB-123 🚽
			Þ
	t → + +		Cancel
		OK	Cancel



Recalculate size parameters of selected models only from Right Mouse Menu:

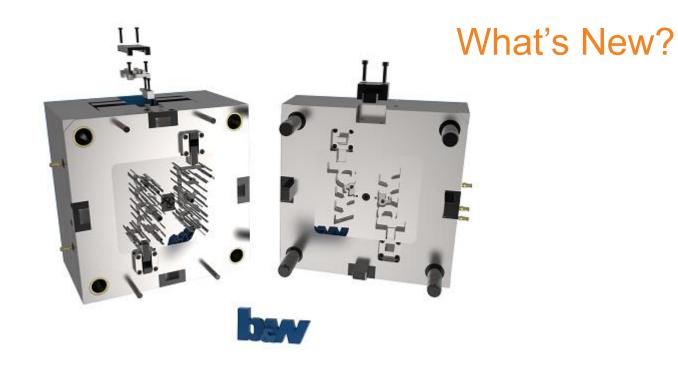
Bill of Materia	ls			>	¢
	Q			0 Hits/ 41 Models	
	R	SIZE	NC	DTE	
F20 /346 346/ 36/	1730	156.000x156.000x27.000			
F85 /346 346/ 256	/ 22/1730	200.000x156.000x15.000			
F80 /346 346/ 256	/ 17/1730	156.000v92.000v9.000			
F70 /346 3	Edit BOM Para	ameters			
F70 /346 3 🍾	Cut				
F60 /346 3	-				
F50 /346 3	Paste				
F50 /346 3 🌋	Show/Hide Ite	ems			
F20 /346 3	Tag or uptag a	as a purchased part or assembly.			
E1220/5x1	lag of unitag a	as a purchased part of assertioly.		_	
E1500/20	Calculate size	of selected models			
E1500/20	Reset model s	ize to current parameter value			
E1200/12x		010/00/112/000		1	
E1200/12x40		Ø18.000x52.000			
E1000/0-05		G12 000-22 000			

Reset the model size to the current parameter value for selected components from the Right Mouse Menu:

		- 🗆 ×
		 ♦ → 0 Hits/ 41 Models
	SIZE	NOTE
	156.000x156.000x27.0	000
1730	346.000x256.000x22.0	000
1730	346.000x256.000x17.0	000
730	346.000x86.000v44.00	00
730	156.000x40.00	Edit BOM Parameters
	156.000x156.0	Cut
	156.000x156.0	
	156.000x156.0	Paste
	156.000x156.0 X	Show/Hide Items
	Ø10.000x16.0	Tag or untag as a purchased part or assembly.
	0x0x0	lag of unlag as a parenased part of assembly.
	Ø20.000x4.00	Calculate size of selected models
	Ø18.000x172.	Reset model size to current parameter value
	Ø18.000x52.0	
	Ø13.000x33.000	v
		4
t	+ +	
		OK Cancel



EMX 13.0.0.2





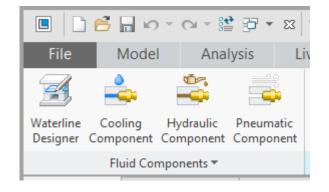
New Commands for Hydraulic and Pneumatic components:

New Hydraulic components:

• Meusburger E1700, E7140

New Pneumatic components

• Festo GS-G-I, QS-R-I





New Dialog to delete all components of a selected type:

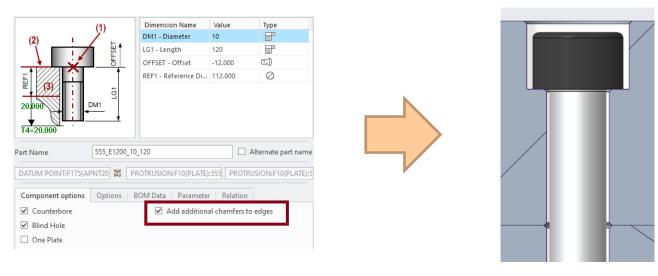
Current function to delete all cooling components or all ejector pins is extended for all different components types.

Remove Comp	onents By Type 🛛 🗙						
Select to remove all corresponding components:							
 Guide Components Equipment 							
Screw	1						
Stop System Dowel Pins	ī l						
Cooling Component	-						
Ejector Pins	3						
Support Pillars							
Lifter Assemblies	5						
Latch Locks] }						
Library Components							
 Hydraulic Pneumatic 							
С	Cancel Kemove						





New Option in Component Dialog to automatically create chamfers on edges in cutout UDFs for all kind of components:



A rule set for chamfer sizes can be defined in EMX options.

0	ptions			Parameter	Projec	t Parameter	Part Names	Technology	Cooling Bore Data
	Ejector Bore Data		Scre	ew Hole Data		Export to Excel	Order Number Rules	Chamfer Size	
UDF	Cate	Supp		Lower Bound	Upper Bound	Chamfer Size			
*	*	*	mm	0	1.5	0.2			
*	*	*	mm	1.5	3	0.3			
*	*	*	mm	3	22	0.5			
*	*	*	mm	22	100	1			



New Command to transfer surface parameters from reference part to mold volumes:

- Manufacturing information can be transferred from the reference part to further derived models in the cavity.
- Supports model-based definition approach.





New Option SOLID_TOLERANCE_STANDARD:

• Set solid tolerance standard independet from unit.

IGES, STEP, DXF export in BOM works with active Windchill workspace

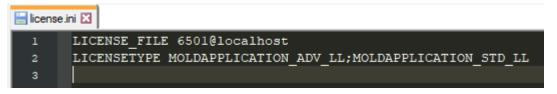
New MEUSBURGER guide components

• E5140, E5152 an E5202

Option BOM_BALLOON_CUSTOM_PARAM works now with component parameters

License.ini supports multiple license types on same license server

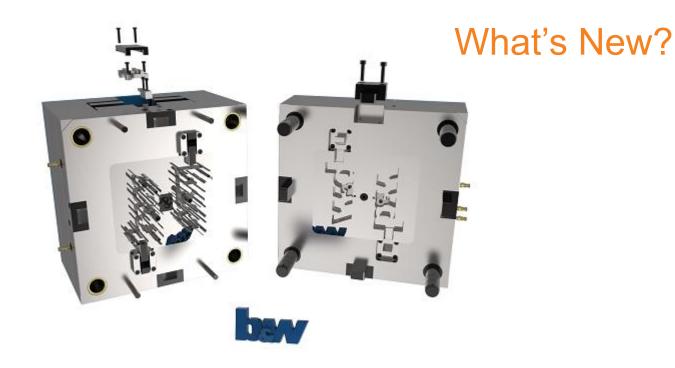
• In case multiple licenses types are defined a license can be selected from a dialog box.







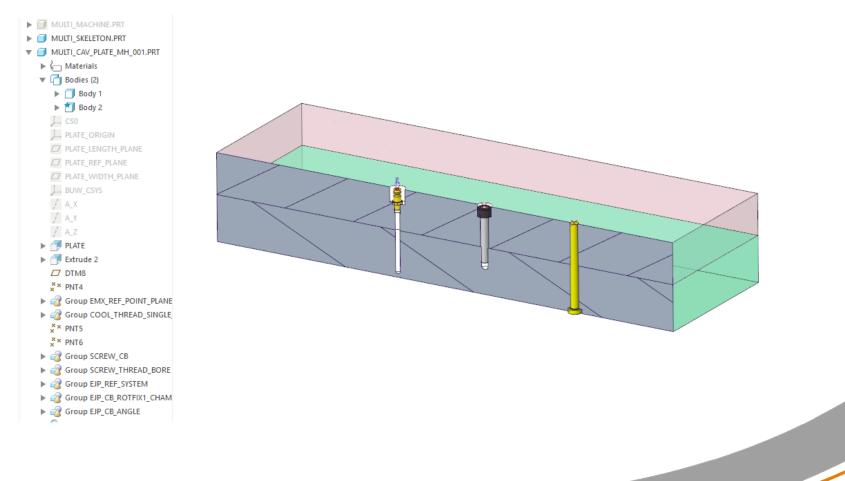
EMX 13.0.0.0





EMX is ready for Multi Body with Creo7!

- All Cut out UDFs are updated to work with multi body parts.
- Cut out mechanism detects multi bodies.





"Trimmed " and "Shortened length" can be added to Ejector Pin notes parameter:

- Create an ejector pin pre or post note string using the EMX options EJP_NOTE_PRE_STRING or EJP_NOTE_POST_STRING
- In case the configuration option contains the placeholder
 <geometry_option> it will be replaced with "trimmed" or "shorted_length"





New configuration file customer_number.cfg introduced:

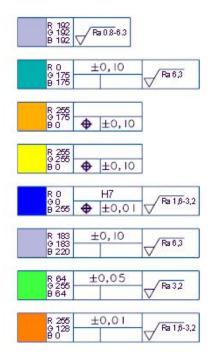
- This config file can be used to overwrite the content of the USER_NUMBER parameter based on supplier, category, type and instance of a component.
- This allows the configuration of custumer number values without modifying the component *dat files at all.

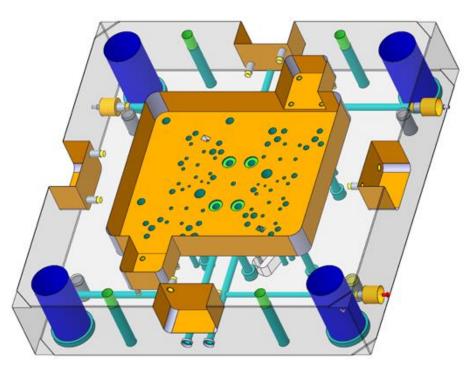




EMX is now SMARTColor ready!

- Apply color coding rules with B&W SMARTColor application
- More information on our website: <u>SMARTColor in EMX</u>







New EMX Tutorial is now available!

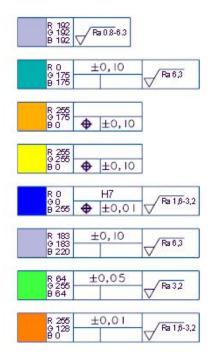
- We finally finished our new Tutorial
- You can download the PDF here: Tutorial

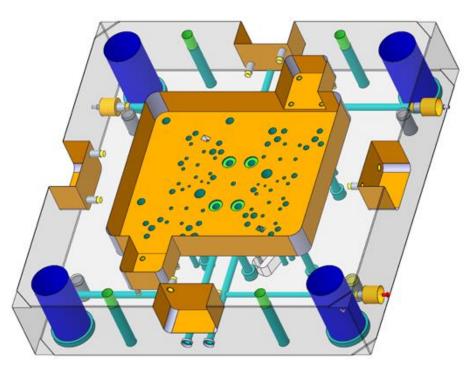




EMX is now SMARTColor ready!

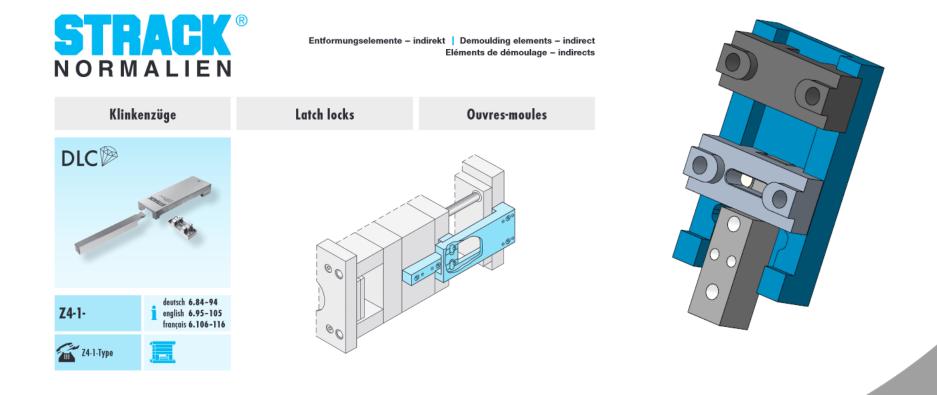
- Apply color coding rules with B&W SMARTColor application
- More information on our website: <u>SMARTColor in EMX</u>





New STRACK Z4 latch lock assembly

• New assembly contains all variation of the Z4 latch lock



Enhancements





Streamlined UI of Component Dialog:

Screw								×
● mm ○ inch	neusburg	er	-	123				-
	(1)	E1	200 Socket	Head	Cap Sci	ew		-
(2)	/	Dim	ension Nam		Value			
	OFFSEI		DM1 - Diam					
X	<u> </u>	_	LG1 - Lengtl					
	Ī		OFFSET - Of		2.200			
- 19/	5		REF1 - Refer)			
; ;	0M1							
Part Name 123_E1200_	2_6							
(1) Point Axis	(2) Sur	face			(3) Th	ead Sur	face	
Select items	Selec	t item	15		Selec	t items		
Component options	Options B	ом р	ata Para	meter	Relat	ion		
Counterbore								
Blind Hole								
One Plate								
	TA		Value	Tolera	inces	Rule		
	36.2	D1	4.500			SCR_CE	3_DIA	Â
■ D2 ■		T1	2.200				3_DEPTH	
D3		D2	2.200			SCR_DI	A_M	
I 100 100 100 100 100 100 100 100 100 10	44	D3	2.200			SCR_DI	A_M	
-D4-	T4 T5	D4	2.000			-	REF_DIA	
D5-		T4	3.000			SCR_TH	READ_DEPT	
AXX		D5	1.760				DRE_DIA	-
			5.000			500 C) 	
	Set to default Reset default	V] Add to BC	M				
			රිෆ්			ОК	Cance	1

• Old

Subassembly	TUTORIA	L					
Unit	• mm	⊖ inc	h				ĸ
Supplier	meusbur	ger					
Туре	E1200	Socket H	ead Cap Sc	rew		- 6	
	(1)	Din	nension Na	me Val	lue	Туре	
(2)	<i>Y</i> .	DM	1 - Diamete	r 2			
	OFFSET	LG1	- Length	6			
	- Ho	OFF	SET - Offse	t -2.2	200		
La Contraction	l t	REF	1 - Referen	ce Di 0		\oslash	
(1) Point Axis	22	(2) Surf	ace		(3) Thread	d Surface	
(1) Point Axis Component options		(2) Surf		ameter	(3) Thread	d Surface	
Component options				rameter		d Surface	
Component option				rameter		d Surface	
Component option: Counterbore Blind Hole One Plate	s Options			Tolerand	Relation	d Surface	
Component options Counterbore Blind Hole		BOM	Data Par		Relation		
Component option: Counterbore Blind Hole One Plate	s Options	BOM	Data Par		Relation res Rule SCR_CE		
Component option: Counterbore Blind Hole One Plate	s Options	BOM [Value 4.500		Relation res Rule SCR_CE	B_DIA B_DEPTH	
Component option: Counterbore Blind Hole One Plate	s Options	BOM [Value 4.500 2.200		Relation Relation SCR_CC SCR_CT	B_DIA B_DEPTH IA_M	
Component option Counterbore Blind Hole One Plate	s Options	BOM [D1 T1 D2	Value Value 4.500 2.200 2.200 2.200		Relation Relation SCR_CC SCR_CC SCR_DI SCR_DI	B_DIA B_DEPTH IA_M	
Component option Counterbore Blind Hole One Plate	s Options	BOM [D1 T1 D2 D3	Value 4.500 2.200 2.200 2.200 2.200		Relation Relation Relation SCR_Ct SCR_Ct SCR_DI SCR_DI BORE_	B_DIA B_DEPTH IA_M IA_M	
Component option Counterbore Blind Hole One Plate	s Options	BOM [D1 T1 D2 D3 D4	Value 4.500 2.200 2.200 2.200 2.200 2.200 2.200		Relation Relation Relation Relation Relation Relation Relation Relation Relation Relation Relation Relation Relation	B_DIA B_DEPTH IA_M IA_M REF_DIA	н

• New

- Type selection improved
- Buttons moved from bottom area to related UI elements
- Dialog is resizable and can be maximized
- Missing UI descriptions added

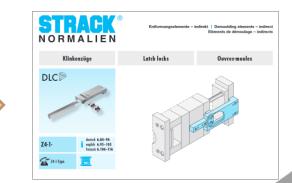


New weblink button in Component Dialog:

• Access data sheets on supplier website with one click!

Screw			x				meusburger
Seren .						Zylinderkopfschraube mit Innensechskant	
Subassembly	TUTORIAL		•	E 1200		Cylinder head screw with hexagon socket	
Unit	● mm ⊖ inch		2				
Supplier	meusburger		•			ta la SW	
Туре	E1200 Socket Head Cap Screw	- 📾 🛛	K.	SW Iz I3 15 6 2 8	12.9 ISO 470 d1 d1 l1 3.8 M 2 6	62 (DIN 912) Nr. No. E 12000 2 x 6 E 12000 2 x 6 E 12000 2 x 10 E 12000 2 x 10 E 12000 2 x 10	d1 Nr. No. M 6 75 E1200 6 x 75 80 E1200 6 x 85 90 E1200 6 x 85 90 E1200 6 x 90 91 E1200 6 x 90
				10 12 16	10 12 16	E 1200 2 x 10 E 1200 2 x 12 E 1200 2 x 18	85 E 1200 6 X 85 90 E 1200 6 X 90 95 E 1200 6 X 95

Latch Lock		- 🗆 X
Subassembly	TUTORIAL	
Unit	⊚ mm ⊖ inch	n n
Supplier	strack	T
Туре	Z4 Latchlock flat	r 🃾 🔍
Subcomponents	Z4	



Plates



HASCO plates updated:

• All plates and instance updated to latest revision

New KNARR plates added:

 KNARR – F (Meusburger compatible) and K (Hasco compatible) plates are now available



Components

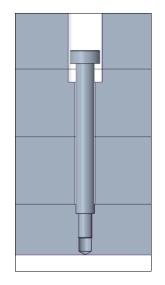


New KNARR guide components:

- 551000, 551000DLC, 551010, 551010DLC and 551100 New KNARR ejector pins:
- 539111, 39111DLC and 39414
- New KNARR insulation plates:
- 77335 and 77336

Improved shoulder screw functionality:

• Meusburger E1240, Hasco Z38, Knarr 40038, DME WZ412 and DIN 7379



Unit	● mm ○ inch								
Supplier	meusburger								
Туре	E1240 Sho	-	Ę						
(<u>2)</u>		Dimension Name DM1 - Diameter	Value 5	Type					
	t	LG - Fit Length	40						
E E	on o	FIT - Fitting Depth	0	≑					
		ST - Stroke	0	⊤_≑					
		REF1 - Reference Di	-1.000	\oslash					
? ↑ \\!	× +	OFFSET - Offset	0	\oslash					
	(1)	B - Length	8	⊤_≑					
?									



New configuration section: Define custom order number rules

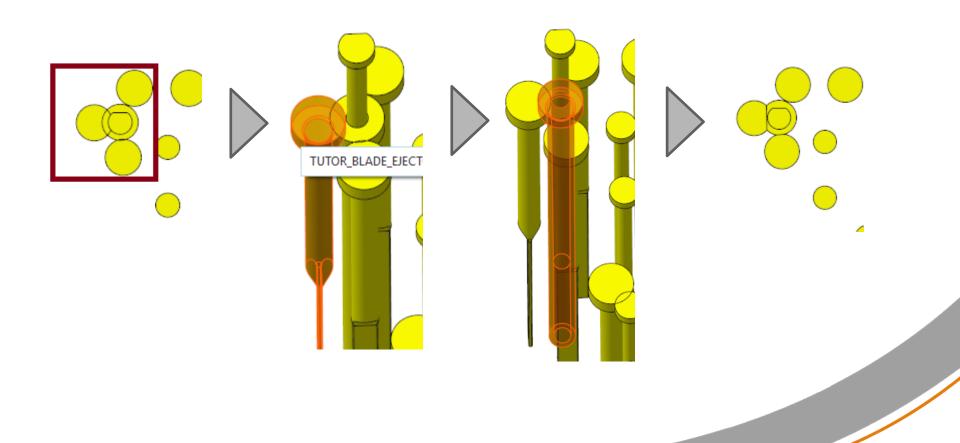
 Rules can now be different for different suppliers, type, units and file names

:\buw\EMX\build\run\Debug\													
Options	s Parameter		Project Parameter		Part Names	Technology	Cooling Bore Data	Ejector Bore Data	Screw Hole Data	Export to Excel		Order Number Rules	
File Name	T	S	Supplier		Order Number	Rule							
plate_4*	Ρ	*	meusburger	mm	P* <rail_width></rail_width>	* <length>*/*<t< th=""><th>hickness>*/*<mat></mat></th><th></th><th></th><th></th><th></th><th></th><th></th></t<></length>	hickness>*/* <mat></mat>						
plate_*	Р	*	meusburger	mm	P* <width>*<le< td=""><td colspan="7"><width>*<length>*/*<thickness>*/*<mat></mat></thickness></length></width></td><td></td></le<></width>	<width>*<length>*/*<thickness>*/*<mat></mat></thickness></length></width>							
plate_1	*	*	meusburger	mm	<typ>*/<main_< td=""><td colspan="8">yp>*/<main_width>*<main_length>/*<thickness>/<mat></mat></thickness></main_length></main_width></td></main_<></typ>	yp>*/ <main_width>*<main_length>/*<thickness>/<mat></mat></thickness></main_length></main_width>							
plate_2	*	*	meusburger	mm	<typ>*/<main_< td=""><td colspan="8">yp>*/<main_width>*<main_length>/*<thickness>/<mat></mat></thickness></main_length></main_width></td></main_<></typ>	yp>*/ <main_width>*<main_length>/*<thickness>/<mat></mat></thickness></main_length></main_width>							
plate_3	*	*	meusburger	mm	<typ>*/<main_< td=""><td colspan="8">typ>*/<main_width>*<main_length>/*<thickness>/<mat></mat></thickness></main_length></main_width></td></main_<></typ>	typ>*/ <main_width>*<main_length>/*<thickness>/<mat></mat></thickness></main_length></main_width>							
plate_4*	*	*	meusburger	mm	<typ>*/<main_< td=""><td>width>*<main_< td=""><td>length>/*<rail_width></rail_width></td><td>/<thickness>/<mat></mat></thickness></td><td></td><td></td><td></td><td></td><td></td></main_<></td></main_<></typ>	width>* <main_< td=""><td>length>/*<rail_width></rail_width></td><td>/<thickness>/<mat></mat></thickness></td><td></td><td></td><td></td><td></td><td></td></main_<>	length>/* <rail_width></rail_width>	/ <thickness>/<mat></mat></thickness>					
plate_5*	*	*	meusburger	mm	<typ>*/<main_< td=""><td>width>*<main_< td=""><td>length>/*<thickness>,</thickness></td><td><mat></mat></td><td></td><td></td><td></td><td></td><td></td></main_<></td></main_<></typ>	width>* <main_< td=""><td>length>/*<thickness>,</thickness></td><td><mat></mat></td><td></td><td></td><td></td><td></td><td></td></main_<>	length>/* <thickness>,</thickness>	<mat></mat>					
plate_6	*	*	meusburger	mm	<typ>*/<main_< td=""><td>width>*<main_< td=""><td>length>/*<width>/*<t< td=""><td>hickness>/<mat></mat></td><td></td><td></td><td></td><td></td><td></td></t<></width></td></main_<></td></main_<></typ>	width>* <main_< td=""><td>length>/*<width>/*<t< td=""><td>hickness>/<mat></mat></td><td></td><td></td><td></td><td></td><td></td></t<></width></td></main_<>	length>/* <width>/*<t< td=""><td>hickness>/<mat></mat></td><td></td><td></td><td></td><td></td><td></td></t<></width>	hickness>/ <mat></mat>					
plate_7	*	*	meusburger	mm	<typ>*/<main_< td=""><td>width>*<main_< td=""><td>length>/*<width>/*<t< td=""><td>hickness>/<mat></mat></td><td></td><td></td><td></td><td></td><td></td></t<></width></td></main_<></td></main_<></typ>	width>* <main_< td=""><td>length>/*<width>/*<t< td=""><td>hickness>/<mat></mat></td><td></td><td></td><td></td><td></td><td></td></t<></width></td></main_<>	length>/* <width>/*<t< td=""><td>hickness>/<mat></mat></td><td></td><td></td><td></td><td></td><td></td></t<></width>	hickness>/ <mat></mat>					
plate_8	*	*	meusburger	mm	<typ>*/<main_< td=""><td>width>*<main_< td=""><td>length>/*<thickness>/</thickness></td><td><mat></mat></td><td></td><td></td><td></td><td></td><td></td></main_<></td></main_<></typ>	width>* <main_< td=""><td>length>/*<thickness>/</thickness></td><td><mat></mat></td><td></td><td></td><td></td><td></td><td></td></main_<>	length>/* <thickness>/</thickness>	<mat></mat>					
plate_4*	Р	*	hasco	mm	P/ <rail_width>></rail_width>	<length>x<thi< td=""><td>ckness>*/*<mat></mat></td><td></td><td></td><td></td><td></td><td></td><td></td></thi<></length>	ckness>*/* <mat></mat>						
plate_*	Р	*	hasco	mm	P/ <width>x<le< td=""><td>ngth>x<thickne< td=""><td>ess>-<mat></mat></td><td></td><td></td><td></td><td></td><td></td><td></td></thickne<></td></le<></width>	ngth>x <thickne< td=""><td>ess>-<mat></mat></td><td></td><td></td><td></td><td></td><td></td><td></td></thickne<>	ess>- <mat></mat>						
plate_*	*	*	hasco	mm	<pre>styp>/<main_width>x<main_length>x<thickness>-<mat></mat></thickness></main_length></main_width></pre>								
plate_4*	Р	*	strack	mm	<pre>-<rail_width>x<length>-<thickness>-<mat></mat></thickness></length></rail_width></pre>								
plate_*	Ρ	*	strack	mm	P- <width>x<le< td=""><td>ngth>-<thickne< td=""><td>ss>-<mat></mat></td><td></td><td></td><td></td><td></td><td></td><td></td></thickne<></td></le<></width>	ngth>- <thickne< td=""><td>ss>-<mat></mat></td><td></td><td></td><td></td><td></td><td></td><td></td></thickne<>	ss>- <mat></mat>						
plate_*	*	*	strack	mm	<ordnumber></ordnumber>								
plate_4*	Ρ	*	dme_euro	mm	P/ <rail_width>></rail_width>	<length>x<thi< td=""><td>ckness>*/<mat></mat></td><td></td><td></td><td></td><td></td><td></td><td></td></thi<></length>	ckness>*/ <mat></mat>						
plate_*	Ρ	*	dme_euro	mm	P/ <width>x<le< td=""><td>ngth>x<thickne< td=""><td>ess>*/<mat></mat></td><td></td><td></td><td></td><td></td><td></td><td>Ŧ</td></thickne<></td></le<></width>	ngth>x <thickne< td=""><td>ess>*/<mat></mat></td><td></td><td></td><td></td><td></td><td></td><td>Ŧ</td></thickne<>	ess>*/ <mat></mat>						Ŧ
	\build		Debua\configu	uration	ordernumber_ru	ller cfa						OK Can	•



New Feature: Trim Ejector Pin heads against each other

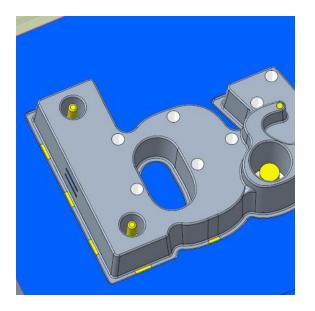
 Interfering ejector pin heads can be trimmed by selecting to different ejector pins

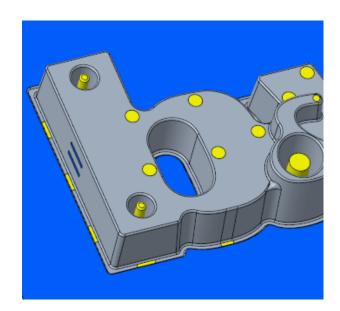




New Feature: Update Existing Ejector Pins Dialog

- New command in Ribbon
- Update ejector pins length and order number in case required reference distance has changed.

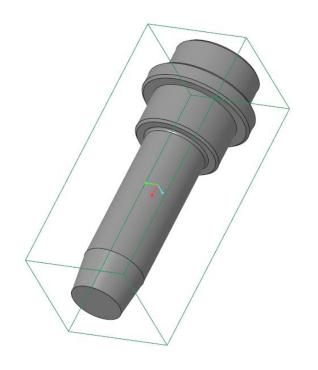






Improvement for Model Size Dialog

- Display outline values in drawing area
- Allow user to toggle between cubical and cylindrical result in case cylindrical result was determined.
- Improve algorithm to detect cylindrical parts

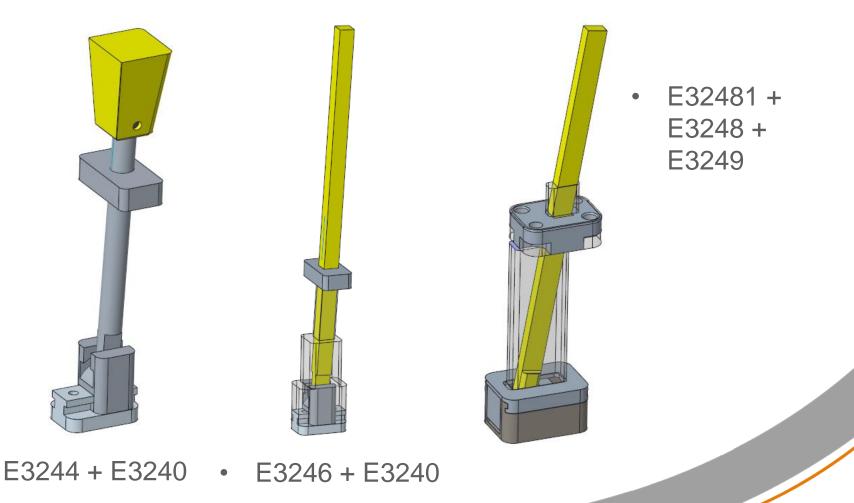


Model Size	х									
Selected Model GUIDE_4										
Selected CSYS CS0										
Convert outline result to:										
Calculated Size 11705.574 Ø18.000x46.000										
Ø18.000x46.000										
]									



New MEUSBURGER Lifter assemblies added

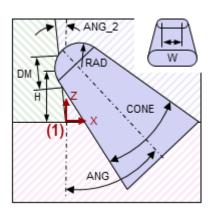
• Additional improvement: Trimmed body can be displayed in Preview

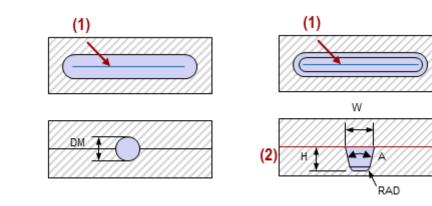




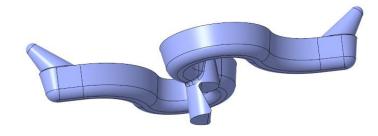
New Runner Library Components

• With the new library components and UDFs runners can be designed easily.





- Conic Gate
- Round runner
 Section UDF
 Trapezoid runner
 section UDF



New Components



MEUSBURGER

- New Cooling Components: O-Ring E21311
- New Ejector Pins: E17003 and E1723
- New Side Interlocks: W44, Z38,Z46

HASCO

- New slide plates Z555, Z556 and Z557
- New and updated Ejector Pins Z412, Z4650, Z4651, Z4670, Z4671, Z413, Z443, Z457, Z461, Z465, Z44, Z441, Z45 and Z45
- New Guides Z14 and Z1105
- New Cooling Components Z9430 and Z9400



Updated Components



MEUSBURGER

- Update E-Components to latest state: 1st quarter 2019
 HASCO
- Remove deprecated Z30 screw
- Screws: Z30 and Z33
- Knockouts: Z02
- Locating Rings: K100, K107, K500, K501, K505, K506, K1000, Z7510, Z7515, Z7520, Z7525, Z7530, Z7535 and Z7540.
- Dowel Pins: Z25 and Z26
- Guides: Z01, Z010, ZU10, Z20, Z040 and Z0100
- Cooling Components: Z94, Z940 and Z9661
 DIN
- More screw lengths are available for DIN screws



Ejector pins defined on multi point features can be forced to be created as individual models.

- Previously option ENABLE_MULTI_EJP behavior in EMX Options
- The EMX Option ENABLE_MULTI_EJP only the sets default for check button

	(3)	Ø REF1	- Referen 0)							
Part Name 123_EJECTOR_PIN010											
(1) Point	(2)	Surface	(3) Orientation Surface								
Select items	D	ATUM PLANE	DATUM PLANE:F6(MOLDB								
•											
Component options	Options	BOM Data	Parameter	Relation							
Trim to quilt/refm	odel	☑ With chamfer									
✓ Auto Length		Straight hole to second surface									
As core pin in one	plate										
Fix Rotation		Individual ejector models on each point									
		•									