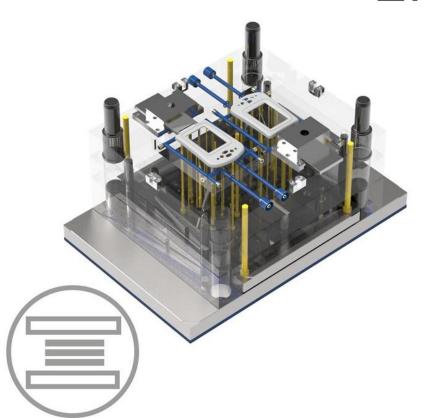


EMX 10 F000

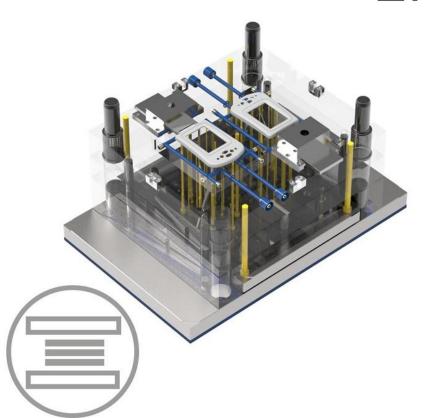


What's New?

- New Features
- Components
- Improvements
- More Info



EMX 10 F000



What's New?

- New Features
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Improved EMX Ribbon

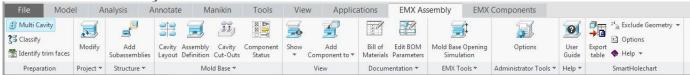


- New Design
- Improved Workflow

New Session



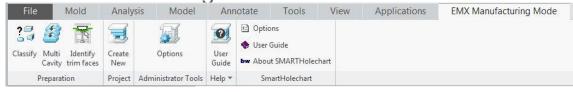
EMX Assembly



EMX Components



EMX Manufacturing



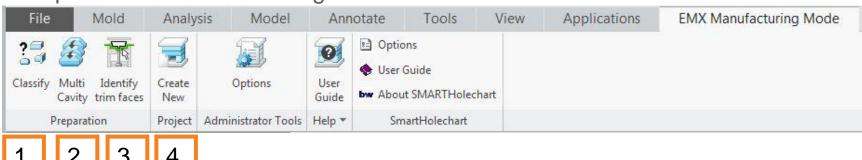
EMX Part Mode

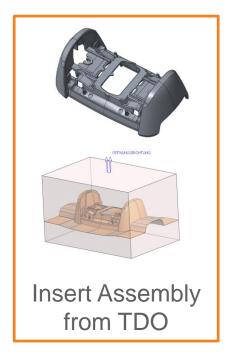


Improved Workflow



1. Preparation in Manufacturing Mode



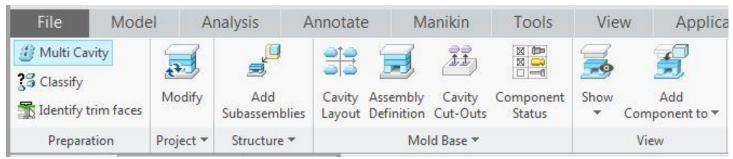


- 1. Classify Assembly
- 2. Multi Cavity Assemblies
- 3. Identify Trim Faces (Enhanced)
- 4. Create new Project





Mold Base in Assembly Mode



- 1.
- 2.
- 3.
- 4.
- 5.

- 1. Change Project
- 2. Set up Structure, Sub Assemblies (Enhanced)
- 3. Define Cavity Layout (NEW)
- 4. Define Mold Base(Enhanced)
- 5. Create Cavity Cuts (NEW)





Assembly Mode Part 2

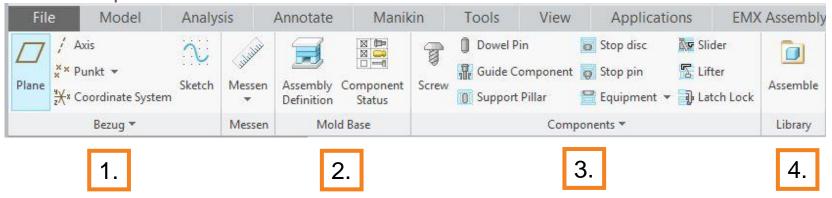


- 1. Components Status
- 2. View
- 3. BOM
- 4. EMX Tools
- Admin Tools
 (EMX Options, Component Editor (NEW), Mold Base Editor)
- 6. Help and Info About
- 7. Smart Holechart (New Version 9.0)





EMX Components Part 1

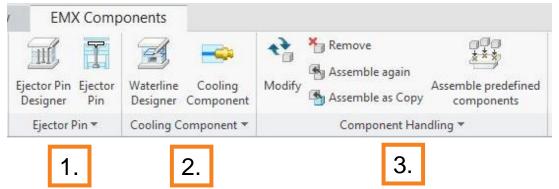


- 1. Datums und Measure (NEW)
- 2. Mold Base Definition und Component Status (NEW)
- 3. Assemble Components: All Types in 1 Group
- 4. Library Parts





EMX Components Part 2



- Ejector Pins: Definition via Component Dialog or Ejector Pin Designer (NEW)
- Cooling: Definition vis Component Dialog or Waterline Designer
- 3. Component Handling (NEW), Predefined Components

Identify Trim Faces



In EMX 9:

Hidden in EMX Components → Ejector Pin

Now:

Ribbon Group EMX Assembly → Preparation

Function:

Mark Surface Quilt as Trim Surfaces for Ejector Pins and Lifters

Effect:

Don't trim via TDO Feature Use Solidify instead



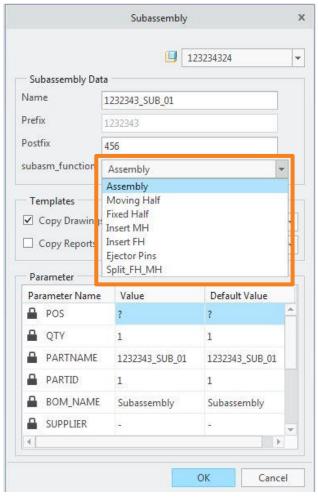
More stable and trimming also possible when ejector exceeds the model volume





New in EMX 10:

Assign Function to Sub Assembly



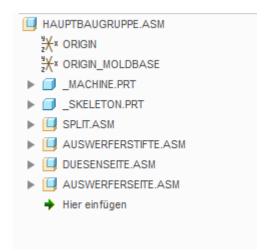
- 1. Moving Half
- 2. Fix Half
- 3. Ejector Pins





Main Assembly with 3 Sub Asms and assigned Functions

- 1. Moving Half
- 2. Fix Half
- 3. Ejector Pin



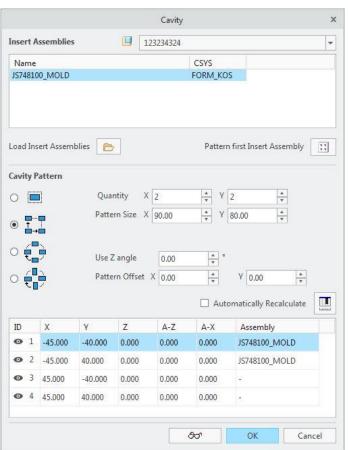
- Automatic Pre Selection of MH/FH Sub Asms when assembling from Mold Base Definition Dialog
- Automatic Pre Selection for Ejector Pins



Cavity Layout Dialog

Simplified Placement of Insert Assemblies

- Define Pattern
- Load multiple Insert Assemblies
- Individual placement to cavity coordinate systems
- Assemble to main and sub assemblies
- Patternize insert assembly
- 3D Preview





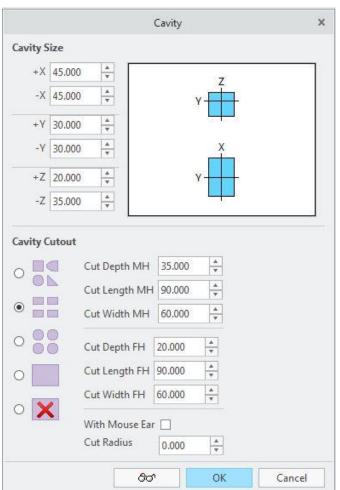


Individual Dialog for Cavity Cutouts

- Functionality as known
- Cutout Types as known

New: 3D Preview





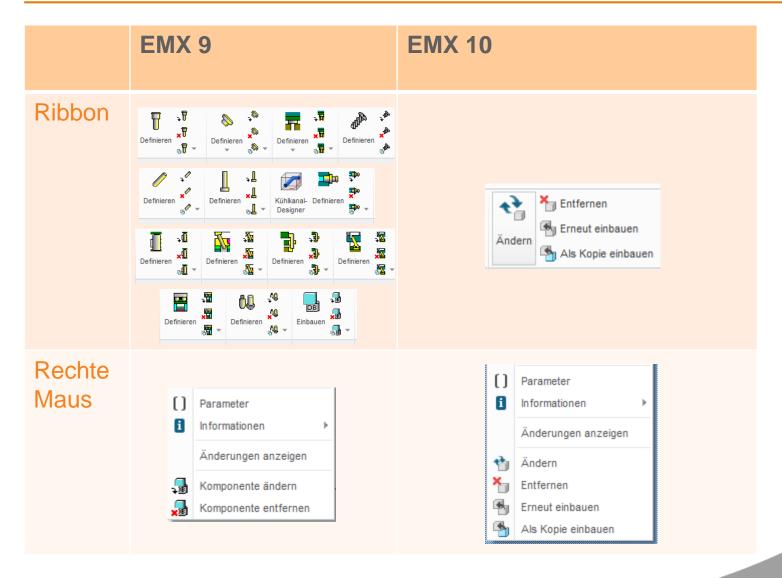


New Component Handling

	EMX 9	EMX 10
Ribbon	Delete Modify As Copy Reassemble For each Component Type → Redundant	Delete Modify As Copy Reassemble 1x for all Component Type → Looks much better
RMB	Only Delete Modify	All Functions Delete Modify As Copy Reassemble



New Component Handling



Ejector Pin Designer



Dynamic Definition of Ejector Pins

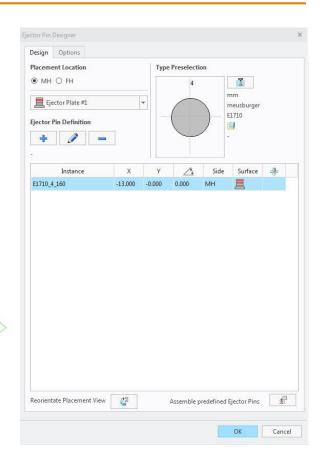
New Main Feature in EMX 10

 Pale Ejectors with 2D Preview

2. Place to Fix Half and Moving Half

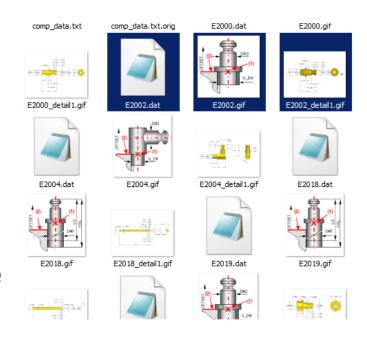
 Supports 2nd ejector package

2. Assemble to all sub asms



New data structure and new Component Editor

- Get rid of comp_data and udf_data and replace information in dat-files for each component type.
- Library format and other EMX comps format is unique
- Split costumized comp_data files into new dat format



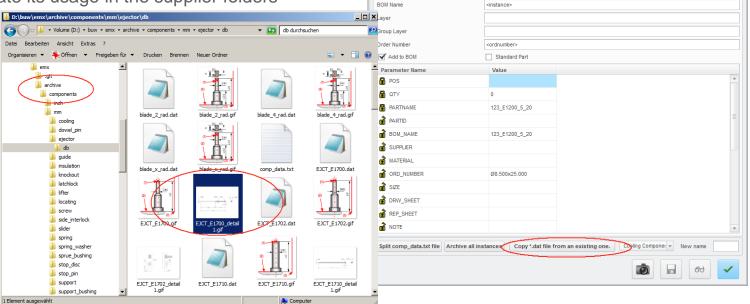
Split comp_data.txt file

Facelift for new Component Editor

Most customers like to add new components that are similar to existing components from EMX.

With the new archive for all existing templates, the content of cutouts, instances, placement references can easily be copied from an existing comp.

When copy from archive, show for each template its usage in the supplier folders



Alternate nart name

Component Editor

123 e1200 5 20

123_e1200_5_20

D:\buw\emx_develop\xxx_testumgebung_emx10\

Assembly

Open model or *.dat file. D:\buw\emx...ung_emx10\123_e1200_5_20.prt.1

Part Name

File Name

Subdirectory

Model Type

<instance>

Smart Holechart 9.0



Integrated new Version in EMX 10



Contact Oli Gräbner

- Collision Tables
- easy UDF Recognition
- Replace existing Tables
- Adapt Number of Table Columns during Refresh
- Direction-depended Bore Definition
- Automatic creation of Point/Axis in Bore Center
- Use Tolerances (e.g. H7) as criteria for bore types
- Man more Options

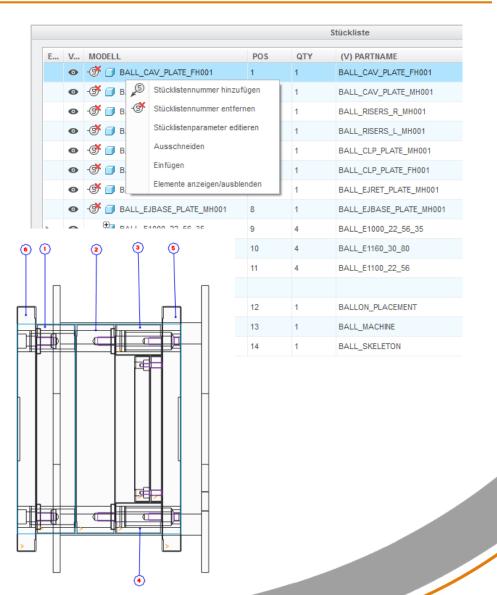






Improvements

- Functions to RMB
- Multiple Selection and Placement in a Loop
- Place Ballon multiple times for summarized components
- New Design

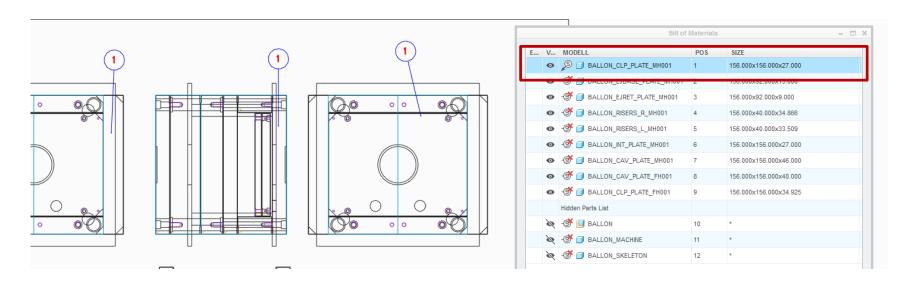




Place Multiple Balloons for 1 Comp.

Improvements

 Place same balloon of component multiple times in different views



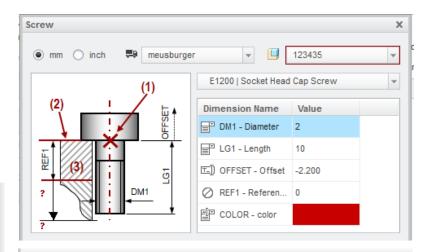


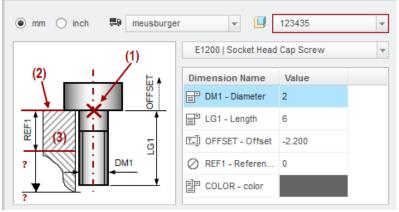
Enable Cell Colors in Comp Dialog

Improvements

!listing of non	ninal dimensions				
! NAME	DISPLAY NAME	DIM_NAME	TYPE		
EMX NOM VALUES					
E1200	diameter	DM1	PULLDOWN		
E1200	length	LG1	PULLDOWN	>REF1	
E1200	offset	OFFSET	EDIT		
E1200	distance	REF1	DISABLED		
E1200	color	COLOR	COLOR		
EMX NOM VALUES END					

INSTANCE	ORD NUMBER	USER NUMBER	PRICE	COLOR
E1200_2_6	E1200/2x6		0	100,100,100
E1200 2 8	E1200/2x8	-	0	GREEN
E1200 2 10	E1200/2x10	-	0	RED
E1200 2 12	E1200/2x12	-	0	YELLOW
E1200_2_16	E1200/2x16	-	0	BLUE
E1200 2 20	E1200/2x20	-	0	ORANGE
E1200 2 5 12	E1200/2,5x12	-	0	RED
E1200 3 6	E1200/3x6	-	0	RED
E1200 3 8	E1200/3x8	-	0	RED
E1200 3 10	E1200/3x10	-	0	RED
E1200_3_12	E1200/3x12	-	0	RED
E1200 3 14	E1200/3x14	-	0	RED
E1200 3 16	E1200/3x16	-	0	RED
E1200_3_20	E1200/3x20	-	0	RED
E1200_3_25	E1200/3x25	-	0	RED
E1200_3_30	E1200/3x30	-	0	RED
E1200_3_35	E1200/3x35	-	0	RED
E1200_3_40	E1200/3x40	-	0	RED
E1200_4_6	E1200/4x6	-	0	RED
E1200 4 8	E1200/4x8	-	0	RED
E1200 4 10	E1200/4x10	-	0	RED
12100 / 10	₽1000//v10	_	n	חשם



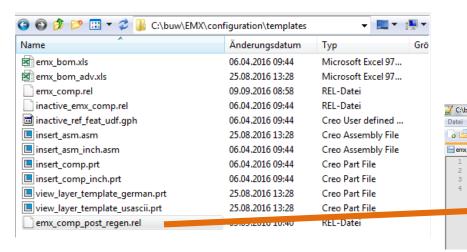


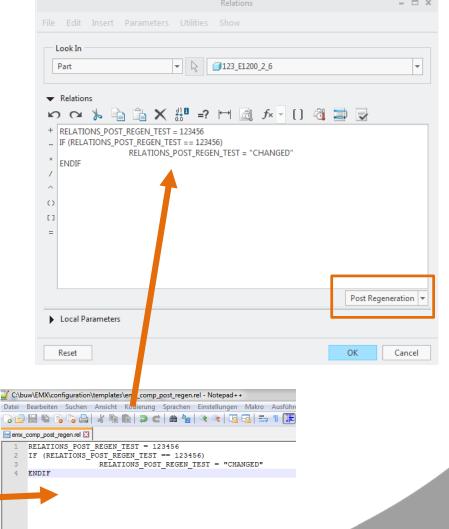


Add Relations to Post Regen Area

Improvements

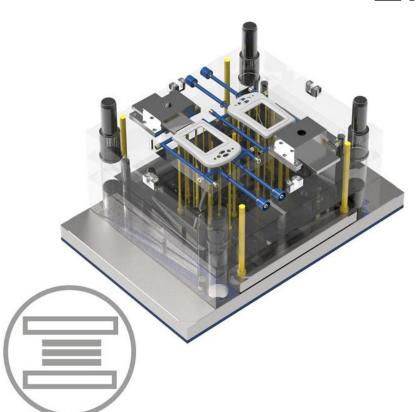
- Add Relations to Post Regeneration Area with specified files
- emx_comp_post_regen.rel
- 2. plate_post_regen.rel
- 3. etc.







EMX 10 F000



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Components



New Components:

- Misumi Cooling NPW and M-KOC
- Misumi Top Lock TPN
- Misumi Flat Ejector Pin ESHJ, ERZF and ERVB
- Meusburger Guide E10025
- Meusburger Ejector Pin E10125 (DLC Coated)
- Meusburger Spring E1546
- Hasco Guide Z040
- Hasco Locating Ring K107, K501, K506, K1000
- Knarr Ejector Pin 37999

Components



Updated Components:

- Hasco Locating Ring K100
- Hasco Side Interlock Z18/19
- Hasco Cooling O-Ring Z98
- LKM Side interlocks
- Meusburger Insulation Plates E1402 E1403 E1407 E1408
- Meusburger Top Interlock E1310
- PCS Ejector Pins: All Types Verify and Updated
- PCS Support Pillars
- PCS Locating Rings
- Misumi Ejector Pins Type Verified

Components

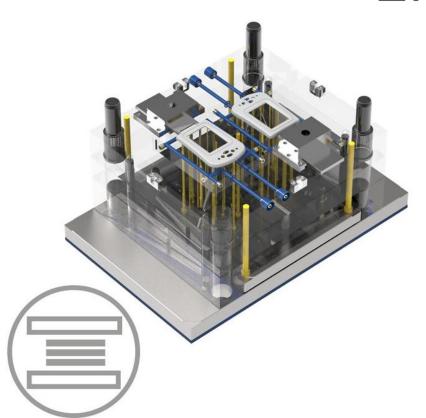


Updated Plates:

Futaba - Catalog – All sizes checked and updated



EMX 10 F000



What's New?

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Improvements



- EMX 10 B000 Compatibility with Windows 10
- Calculate Clamping Force: Improved Accuracy
- BOM: Ballon Placement Functionality improved
 → RMB, Places Ballons Multiple times etc.
- BOM: Increase Speed
- BOM: PTC Diameter Symbol supported
- BOM: Display Windchill &common_name in BOM
- Project Dialog: Length of Postfix and Prefix is checked
 Avoid Model names longer 32 characters
- Waterline Designer: Delete Waterlines in list via RMB
- Improved Pattern Dialog: Redesigned with Spinboxes

Improvements



Calculate Model Size: Save Volume as Parameter

Component Dialog: Highlight subassembly pull-down in

case of multiple Subassemblies

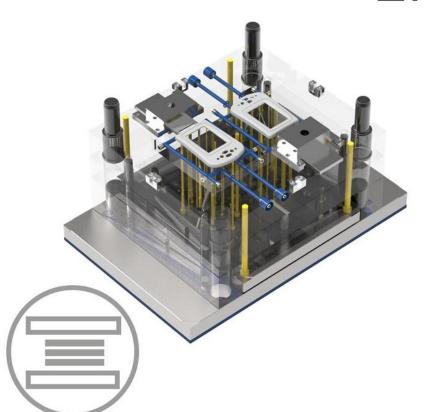
Component Dialog: New mm Images

Plate Dialog: New mm Images

Option Dialog: Non Default Values are highlighted



EMX 10 F000



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More Info



PTC EMX Community

- PTC Internal Discussions Platform for EMX
- Questions and Answers
- Videos und Presentations



PTC° Community

More Info



Large Document:

- 300 Pages PDF
- Collected Knowledge for EMX 9
- Walk Troughs
- Background Information
- EMX 10 Tutorial after Release (January 2017) planed
- 100 € per PDF und Data
- Contact: <u>thomas@buw-soft.de</u>



