materialise

innovators you can count on

Materialise Streamics 8 What's new

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- Automatic multi-platform placement & nesting
- Data Matrix labelling
- Configurable portal notifications
- Include support volume in price calculation

Others

- <u>New supported environment (MS Server 2016, MS SQL 2016)</u>
- Database optimization
- Several bugs fixing



Connectivity

Allowing your AM production to be fully connected into your business and manufacturing flows



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Platform Export Better connectivity with all 3D printers

- End-to-end workflow, exporting platform directly from Streamics without launching Magics and load it on the machine.
- STL, 3mf and MatAMX file formats

Easy workflow:

- Select build, press Prepare & Send
- The platform is exported using preselected format and folder
- Streamics adds platform file (zipped) to the build in the tab attachments-Machine input data.

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materialise	Configure FORTUS 900mc Machine		
Machine Configurati	n		
Upload folder :	C'\Stratasys\F900mc		
Magics settings :	Import MMCF file		
M Export .stl			
	Filename Part	*	.sti
Filename N	Ion-Solid Support	5_*	.stl
Filena	me Solid Support	s_*_ext	.sti
Export .3mf			
Export .MatAN	6X		
		Machine Input Data	
Licenses			Download Al
		Build16730_MachineInput.zip	4/04/2019 15

Visualization of machine status



Main functionalities:

- Real-time visualization of each connected machine
- MT Connect protocol support

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Configurable WEB portal



Better connectivity of AM design department with production shop floor

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- Create new look & feels according to your company guidelines
- Configure all elements on each page
- Links to external pages
- Log off possibility to enhance security
- Easily add new languages
- Configurable notification service
- Reduced time2market thanks to the configuration possibilities
- Streamics portal can be updated with every new Streamics update (compatibility assured)

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ReST API enhancements



Better connectivity with other business systems

Adm

New added functionalities:

- Reliable message delivery
- Items traceability: Show Ext Build ID
- Handling the absence of network connection
- Handling errors from a 3rd party software
- Identify Builds with an External Build ID received from a 3rd party SW
- Identify Physical Part with Serial Number ID received from a 3rd party SW

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Productivity

Getting most out of your AM production to increase the AM business case





Automatic multi-platform placement & nesting

Faster workflow and build preparation

- Create several platforms directly from
 Streamics, without having to pass from Magics
- Automatically create Sinterboxes for small SLS parts
- Drastically reduce labor cost

Workflow

- Manually create a build and drag and drop multiple parts on it
- Start the nester from the Streamics menu
- Streamics will automatically import parts, nest them and produce as many builds as needed to print all the parts you've chosen.



Automatic multi-platform placement & nesting Settings



Automatic placement settings

< Auto Placement		—		×
Load profile New			v 5	
Placement Options				
Part interval [mm]	10			
Platform margin [mm]	10			
Placement solution	First Possible Solution		~	
Part placement	Translate And Rotate		v	
Sort by height	None		v	
Maximum autoplacement duration [min]	30			
Extra Options				
Enable multi-platform placement				
Only process added parts	•			
	1			
		0	K Car	ncel

Automatic 3D nester setting

3D Nesting	- 🗆 ×
Load profile Multi-Platform	✓
Stopping Criteria	ר די
Criteria type	Stop After First Solution
	8
Maximum nesting duration [min]	30
Placement Options	
Parts distribution	Optimize Height
Margin to sides [mm]	5
	5
Freedom of parts	Rotate 90 And Translate
	15
Placement of big parts	·
Enable specific interval for big parts	
	125000
	20
Extra Options	
Maximal used height [mm]	
	OK Cancel

Parameters are configurable

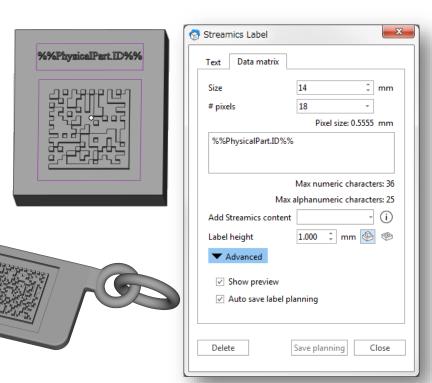
- On server site (for default settings and to create different profiles)
- When calling the operation (for choosing profiles and change parameters on the spot)

Data Matrix labelling

Better connectivity with other business systems

Streamics can handle Data Matrix Label as well as Text Label.

- Plan Data Matrix Label on Magics.
- Streamics will generate correct STL data automatically





Configurable notification system in portal More efficient workflow



Set up automatic mail notifications

- Selecting the trigger (status of a request)
- Editing the content of the notification
- Adding attachments (from the templates of Reporting service) as PDF
- Specify the addresses (To and CC)

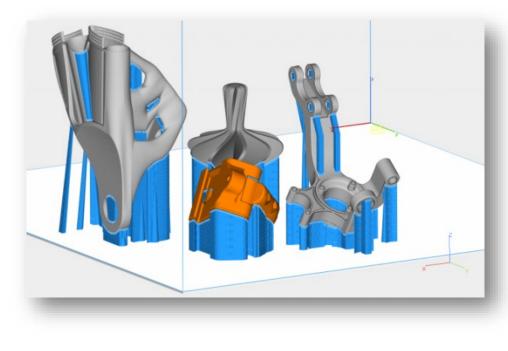


Include support volume in price calculation



Estimate more accurately the material cost

- Estimation of supported volume is calculated during the part analyses
- Output can be used in the price calculation sheet to estimate a total cost for producing the part (part + support)



Other improvements





Other improvements

- New supported environment (MS Server 2016, MS SQL 2016 SP2 & 2017)
 - Support for the most recent environments
- Performance improvements and Database optimization
 - Performance has been improved for several features resulting in a smoother user experience
 - Database structure has been reviewed and optimized to guarantee faster transactions
- Several bugs fixing



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For more information, contact your local Materialise office.

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