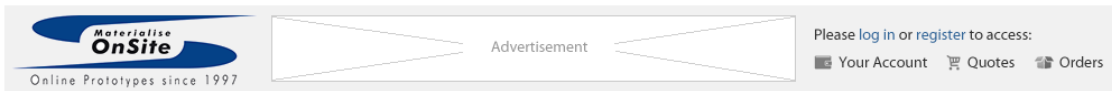


**OnSite UI description.**

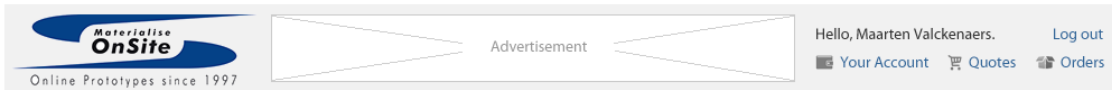
## Common elements: the site header.

State: user is not logged in.



Click "log in" to display the Log In layer. Click "register" to display the Quick Registration page.

State: user is logged in.

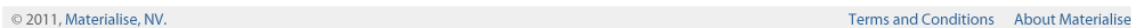


User is greeted by first and last (family) name. If the name is too long, the last name is truncated and an ellipsis (...) is placed at the end of the name.

Special cases: on "Your Account," "Quotes," and "Orders" screens, the corresponding link in the header is removed:

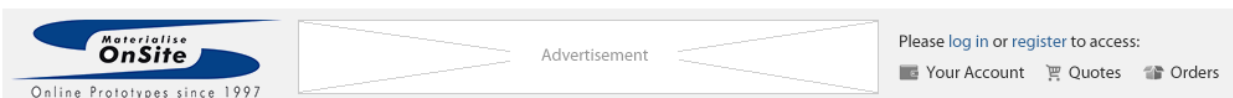


## Common elements: the site footer.



All links open in a new window (or tab in tab-enabled web browsers): "Materialise, NV" → materialise.com, "About Materialise" → http://www.materialise.com/about-materialise.

## Home Page.



[Home](#) [Technology Selector](#) [About OnSite](#) [Contact Us](#)

[Quote & Order Now](#)

### Order high quality prototypes from your 3D CAD files online



- 1 Upload your 3D part files
- 2 Select material, finish, etc.
- 3 Get an instant quote and order online
- 4 Receive your parts in as little as 24 hours

[Quote & Order Now](#)

### What's new

New SLA material, TuskX3, is now available! Similar to TuskW2700, but more flexible.

Z corp standard lead time down to only 3 days.

[all news >>](#)

### OnSite 1-minute tour



[all videos >>](#)

### Customer feedback

"I was familiar with Materialise OnSite but the new version is more user-friendly. What I like about Materialise OnSite is that it gives me a quote immediately ..."

[all feedback >>](#)

### OnSite advantages:

- ✓ NextDay (24-hour) SLA Service
- ✓ Instant quotes
- ✓ Upload parts in many different formats (STL, MGX, ABC, DEF, etc.)
- ✓ View part and set orientation online
- ✓ Flexible material selector
- ✓ And another unique selling point of the service

### Technologies

OnSite offers the largest online selection of materials in Europe:

NextDay SLA  
SLA  
Polyjet

SLS  
FDM  
3D Printing  
Vacuum Casting

### Selective Laser Sintering



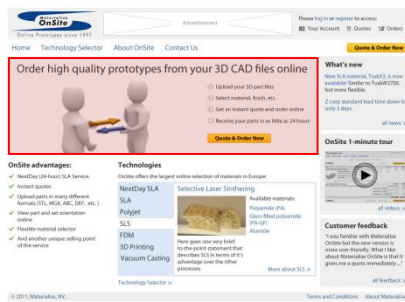
Available materials:  
Polyamide (PA)  
Glass-filled polyamide (PA-GF)  
Alumide

Here goes one very brief, to-the-point statement that describes SLS in terms of its advantage over the other processes.

[More about SLS >>](#)

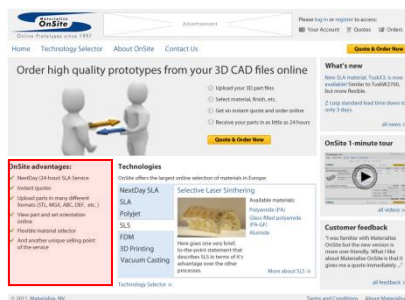
[Technology Selector >>](#)

## Home page main promo block:



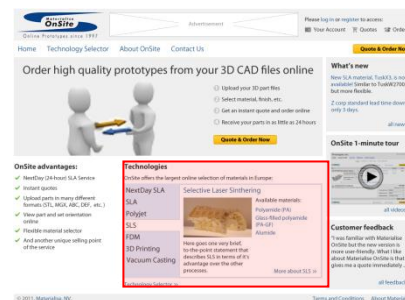
To be designed by graphic designer (see the Notes document for details). The block has a call to action: the “Quote & Order Now” button.

## Home page: OnSite advantages:



Calls attention to how OnSite is different. In general, there are no links here, but if a points talk about a specific feature (i.e. Technology Selector), then including a link to the feature is desired. Graphical bullets (green checkmarks in the illustration) are recommended.

## Home page: the technologies carousel.



A quick, interactive way to get introduced to all of the available technologies offered by OnSite: mouse-hover over the technology tab to display that technology’s info panel. Click the technology tab or its name in the info panel to go to the technology detail page in the technology selector. Click the material name to go to the material detail page in the technology selector.

## Home page: the what’s new block.

Displays the latest headlines. The targets of the headline and “all news >>” links is TBD.

## Home page: OnSite 1-minutes tour.

Click the video to display the video player popup layer. Video playback starts automatically. The target of the “all videos” link is TBD.

## Home page: Customer feedback block.

First ?? characters of a customer testimonial quote are shown. The target of the “all feedback” link is TBD.

## Technology Selector.

### The technology selector filter tool.

Technology:	Imitated engineering material:	Usage:	Appearance:
SLA	Any	Any	Any

The selections in the filter are applied to the contents of all 5 tabs below it. The results are displayed immediately after a selection is made.

“Technology” is a simple dropdown, listing all of the available technologies.

“Imitated engineering material” “Usage” and “Appearance” are autosuggest-enabled text boxes: start typing the name of the material or usage condition to see suggestions. The lookup should be applied to any character string within each item in the list, not only the first characters. The down arrow in the right corner can also be clicked to load the complete list. Note that an arrow rather than the down pointing triangle is used to differentiate the autosuggest text boxes from simple dropdown. The values to populate the lists are TBD. Once an entry is chosen from the suggestion list (by clicking or the keyboard arrow keys + enter), the lists of matching technologies, materials, and finishes are updated.



The selections in the four dropdowns are applied on an “AND” basis. For example, selecting “SLA” in “Technology” and “Functional testing” in “Usage” filters the technology/material/finish results to only those items that meet both criteria: SLA materials and finishes that are suitable for functional testing.

The four dropdowns are mutually-filtering: making a selection in one of the four filters the available selections in the remaining three. For example, selecting “SLA” in the technology dropdown filters the “Imitated engineering material” list to only those that apply for “SLA.” This is done to prevent the user from being able to select an impossible combination of filters, which would result in 0 (zero) technology/material/finish matches (i.e. selecting a painted appearance in combination with an unpaintable technology).

### Data display tables: common features.

The data in the results tabs is displayed in table format, where some column headings can be clicked to sort the table by that parameter. Sortability is indicated by making the column heading a link. Bold font is used for the heading of the column on which the list is sorted. The sort order can be ascending or descending: click the heading once for descending (“descending” here is defined as “best” at the top), one more time for ascending (“best” at the bottom).

## Technology Selector: Technologies, overview tab.

Technologies, overview		Technologies, properties	Materials, overview	Materials, physical properties	Finishes
Technology	Advantages	Disadvantages	Surface structure		
 <p><b>Standard Stereolithography (SLA)</b></p> <p>“Show and tell” parts with smooth surfaces and fine details</p> <p>Visual prototypes for photo shoots, market testing and checking 3D drawings</p> <p>Prototypes for limited functional testing</p> <p>Masters for copying techniques (Reaction Injection Moulding &amp; Vacuum casting )</p> <p>Metal components when coated with the metal plating process</p> <p>Low volume production of complex geometries</p>	<p>Fast: Parts in as little as 2 days</p> <p>High level of accuracy and high surface quality</p> <p>Representative parts for visual testing</p> <p>Small and large parts - from intricate switch component to car dashboard built in a single piece</p> <p>Wide range of materials and finishing options</p>	<p>Unfinished resin will absorb moisture from the air over time, causing parts to soften and warp.</p> <p>Functional testing is limited</p>	<p>Unfinished, depends on the orientation of the layers. Different finishes from rough to high gloss are available.</p>		
 <p><b>Selective Laser Sintering (SLS)</b></p> <p>Fully functional prototypes with mechanical properties comparable to those of injection moulded PA12 parts</p> <p>Series of small components as a cost-effective alternative to injection moulding</p> <p>Large and complex functional parts up to 700x380x580 mm in one piece</p> <p>Personalised Manufacturing, i.e. the production of unique, complex, personalised designs built as once-only products or in small batches.</p>	<p>Fast</p> <p>Economical</p> <p>Durable and functional parts</p> <p>Large and complex parts</p> <p>Direct production of low volume projects</p> <p>Design freedom (no support structure necessary)</p> <p>Wide range of finishing degrees</p> <p>Can be sealed watertight</p>	<p>Parts have a naturally rough surface</p> <p>Finishing involves sanding or sandblasting which may remove fine detail</p>	<p>Parts typically have a grainy surface but a wide variety of finishes is available.</p>		

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The data in this view is designed to give the user who is not very familiar with technologies an overview of each one in a form that’s easy to scan (bulleted lists, broken into usage, advantages, disadvantages, surface structure) and useful (i.e. the advantages/disadvantages breakdown makes it easier to make initial comparisons between technologies).

Clicking the technology name takes you to that technology’s detail page. Clicking “Gallery” displays the technology gallery popup layer.

## Technology Selector: Technologies, properties tab.

Technologies, overview		Technologies, properties			Materials, overview	Materials, physical properties	Finishes
Technology	Standard lead time	Build envelope (X x Y x Z mm)	Accuracy	Layer thickness	Minimum wall thickness		
<b>NextDay Stereolithography (SLA)</b>	24 hours	650 x 650 x 450	± 0.2% (min. ± 0.15 mm)	0.15 - 0.2 mm			
<b>Standard Stereolithography (SLA)</b>	2 - 5 days	500 x 500 x 580	± 0.2% (min. ± 0.2 mm)	0.1 - 0.15 mm			
<b>Selective Laser Sintering (SLS)</b>	4 days min. 2 days min. for small parts	500 x 500 x 580	± 0.2% (min. ± 0.2 mm)	0.1 - 0.15 mm	1 mm (living hinges are possible at 0.3 mm)		
<b>Fused Deposition Modelling (FDM)</b>	4 - 5 days	600 x 500 x 600		0.13 - 0.25 mm (range varies by material)			

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This view allows comparisons along quantifiable parameters. If sorting on ranges and days vs. hours proves technically challenging, it can be omitted. Build envelope should be sortable by the X dimension, if sorting on other columns is implemented; or it can be omitted, if sorting on other columns is not implemented.

## Technology Selector: Materials, overview tab.

Technologies, overview		Technologies, properties		Materials, overview		Materials, physical properties		Finishes	
Tech.	Material	Cost	Detail	Impact	Stiffness	Humidity / water	Heat	Durability	Mould-making
SLA	<b>Nano5000</b> <small>New!</small> Suited for chemical and heat resistant prototypes with exceptional stiffness.								
SLA	<b>Rigi2200</b> Humidity-tolerant, high heat-deflection temperature. Quickcast patterns, rigid and high accuracy parts.								
SLA	<b>Poly1500</b> PP-like material comparable to engineering plastics; suited for rigid, functional prototypes.								
SLA	<b>Tusk2700W</b> Strong, tough, water-resistant; mimics engineering plastics like ABS and PBT.						 <small>sensitive</small>		

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This view provides a very brief text description of the material and a more scannable/useful description in terms of a rough rating along a set of criteria like ability to resolve fine detail, impact resistance, etc.

## Technology Selector: Materials, physical properties tab.

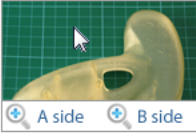
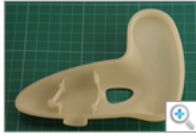

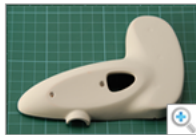
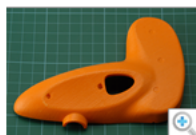
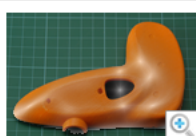
Technologies, overview		Technologies, properties		Materials, overview		Materials, physical properties		Finishes	
Tech.	Material	Density, g/cm <sup>3</sup>	Hardness, Shore D	Elongation at break	Tensile strength, MPa	Tensile modulus, MPa	Flexural modulus, MPa	Flexural strength, MPa	Impact strength, KJ/mm <sup>2</sup>
SLA	<b>Nano5000</b> <small>New!</small>	1.15	86	4 - 8 %	45	2668	2668	45	45
SLA	<b>Rigi2200</b>	1.21	85	4 - 7 %	40 - 47	2020	2020	40 - 47	40 - 47
SLA	<b>Rigi2200</b>	1.16	84	7 - 11 %	50 - 56	1400 - 1900	1400 - 1900	50 - 56	50 - 56
SLA	<b>Poly1500</b>	1.20	83	12 - 21 %	34 - 42	1500 - 2000	1500 - 2000	34 - 42	34 - 42
SLS	<b>Polyamide-GF</b>	1.15	78 - 82	15 - 30 %	36 - 44	2668	2668	36 - 44	36 - 44
SLS	<b>Alumide</b>	1.21	76 - 80	14 - 22 %	58 - 68	2020	2020	58 - 68	58 - 68
SLA	<b>Tusk2700W</b>	1.16	77	5 - 15 %	48 - 50	1400 - 1900	1400 - 1900	48 - 50	48 - 50
FDM	<b>ABS</b>	1.20	75	4 - 7 %	40 - 47	1500 - 2000	1500 - 2000	40 - 47	40 - 47
SLS	<b>Polyamide</b>	1.15	72 - 76	12 - 21 %	50 - 56	2668	2668	50 - 56	50 - 56
SLA	<b>Flex65</b>	1.15	65	12 - 21 %	50 - 56	2668	2668	48 - 50	48 - 50

This view shows those parameters that all (or most) of the materials have in common. This way comparisons across technologies can be made. If a parameter's test method is the same for all technologies, it should be shown in a tooltip popup when the mouse is hovered over the column title.

The way that ranges and single digits should be sorted is an open question. However, one suggestion is to use an arithmetic mean for the ranges.

This view is the only one that features horizontal scrolling. Therefore, one of the most important features of this view is that both the column headings AND row headings (tech. and material columns) both remain visible as the table is scrolled (like the freeze panes feature in spreadsheets). Otherwise, the table will be significantly more difficult to use.


### Technology Selector: Finishes tab.

Technologies, overview		Technologies, properties		Materials, overview		Materials, physical properties		Finishes		
Tech.	Finish	Appearance	Steps							
SLA	 A side B side	Basic	Unfinished, rough	removing supports	curing					
SLA		NextDay	Sanded, matte, rough	removing supports	curing	sanding support away	P150			
SLA		Normal A side	Sanded, matte, smooth	removing supports	curing	outside sanding	P150 and P240 sandblasting			
SLA		Paint primer 2 side	Primed, matte, smooth	removing supports	curing	outside sanding	P150 and P240		primer paint (yellow or lighth grey)	
SLA		Fine Texture Paint A side <b>Note:</b> only available with Material A and Material B	Painted, matte, smooth	removing supports	curing	outside sanding	P150 and P240		primer + mat colour paint with fine texture	
SLA		High Gloss Paint A side	Painted, glossy	removing supports	curing	outside sanding	P240, P400, and wet P800		primer + high gloss color paint	

The things of note on the finishes view are:

- The appearance parameter. It makes it easier to make comparisons based on familiar/universal criteria of finish appearance. The contents of the appearance column is synchronized with the appearance dropdown in the technology selector filter: making a selection in the dropdown filters the list of finishes. The exact set of appearance parameters is still TBD.
- The three columns of finishing steps (initial treatment, sanding, and priming/painting) make it easier to compare finishes at this level of detail (vis a vis plain text).

## Contact Us.



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Hello, Maarten Valckenaers. [Log out](#)

[Your Account](#) [Quotes](#) [Orders](#)

[Home](#) [Technology selector](#) [About OnSite](#) [Contact Us](#) [Quote & Order Now](#)

## Contact Us

### Your account manager

Christophe Van Den Bergh  
Christophe.VanDenBergh@materialise.be  
+32 16 39 66 36 (office)  
+32 485 268010 (mobile)

### Materialise, N.V.

Technologielaan 15  
3001 Leuven  
Belgium

[Map & directions](#)

Phone: +32 16 39 66 11  
Fax: +32 16 39 66 00  
VAT: BE 441.131.254

### Contact form

During regular business hours we will contact you within **2 hours** of receiving your message.

\* Name:  \* Phone:   preferred contact method

Company:  Email:   preferred contact method

Your message:

[Send >>](#)

\* = required information

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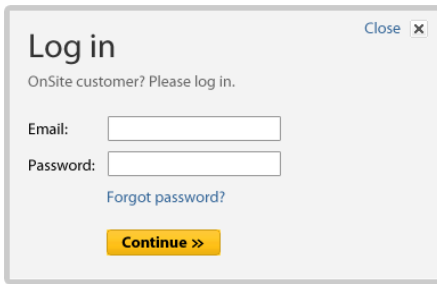
The “Your Account Manager” box contains the name and contact info of the customer’s assigned account manager. Below that is the box with Materialise’s physical address, phones, and other information that may be important to a customer (i.e. the VAT number). The “map & directions” link opens map and directions in a new window. The new window icon is optional, but good to include to let the user know.

Depending on which preferred contact method radio is selected, the corresponding contact method (phone or Email) becomes marked as required.

For logged-in customers, the name, company, phone, and Email fields should be already filled in.



## Log in popup layer.

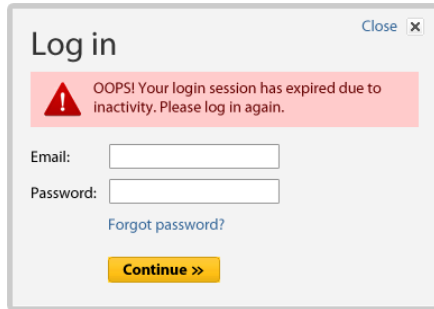


The image shows a 'Log in' popup layer with a 'Close' button in the top right corner. The text reads 'OnSite customer? Please log in.' Below this are two input fields: 'Email:' and 'Password:'. A blue link 'Forgot password?' is positioned below the password field. At the bottom, there is a yellow button labeled 'Continue >>'.

The “standard” log in layer is shown when the user clicks “log in” in the header:

Clicking any of the links hides the login layer and displays the corresponding screen.

A special case of this screen is displayed when the user’s session expires due to inactivity:



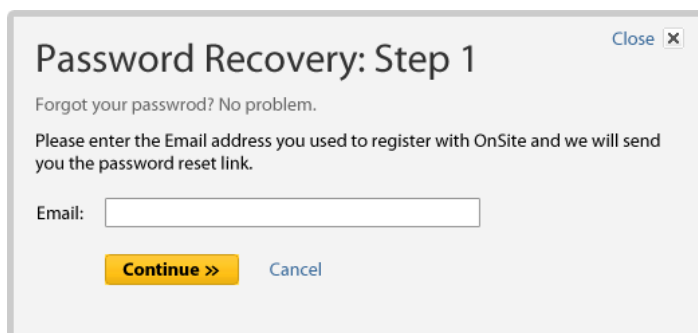
The image shows the 'Log in' popup layer with a red error message at the top: 'OOPS! Your login session has expired due to inactivity. Please log in again.' Below the message are the 'Email:' and 'Password:' input fields, the 'Forgot password?' link, and the 'Continue >>' button.

After logging back in, the system should direct the user back to where s/he was when the session expired.

## Password reset, Step 1.

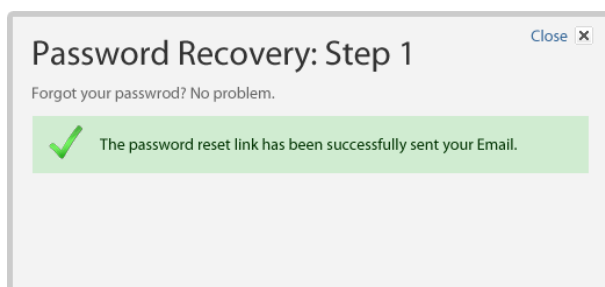
In case the user indicates that s/he forgot the password (by clicking the “Forgot Password?” link on the login layer) s/he can request to change it: a password change link is Emailed to the user, which the user clicks to enter a new password. This approach is chosen over Emailing the user his/her password (not secure) or reminder question/answer (would have added 2 fields to the quick registration).

After clicking “Forgot password?” the following is displayed:



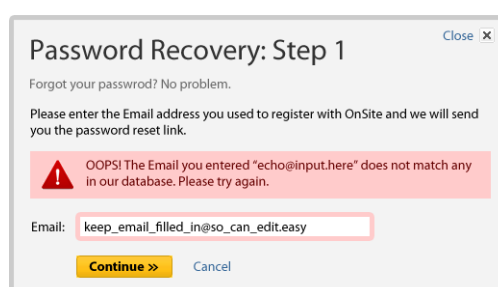
The image shows a 'Password Recovery: Step 1' popup layer with a 'Close' button in the top right corner. The text reads 'Forgot your password? No problem. Please enter the Email address you used to register with OnSite and we will send you the password reset link.' Below this is an 'Email:' input field. At the bottom, there are two buttons: a yellow 'Continue >>' button and a blue 'Cancel' button.

After entering the Email address and clicking “Continue”:



The image shows the 'Password Recovery: Step 1' popup layer with a green success message: 'The password reset link has been successfully sent your Email.' The message is accompanied by a green checkmark icon. The 'Email:' input field and the 'Continue >>' and 'Cancel' buttons are still visible.

Success state.



The image shows the 'Password Recovery: Step 1' popup layer with a red error message: 'OOPS! The Email you entered "echo@input.here" does not match any in our database. Please try again.' Below the message is the 'Email:' input field containing the text 'keep\_email\_filled\_in@so\_can\_edit.easy'. The 'Continue >>' and 'Cancel' buttons are also visible.

Error state.

## Password reset, step 2.

The user sees this screen after clicking the password reset link that's been Emailed to him/her in Step 1 above.

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## Password Recovery - Step 2: Create New Password

\* New Password:

\* New Password again:

**Save new password**

\* = required information

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Password validation should be implemented here in the same as a on the “Quick Registration” screen, discussed in the next section.

Finally, the success screen for password recovery/reset is:

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[Your Account](#) [Quotes](#) [Orders](#)

[Home](#) [Technology selector](#) [About OnSite](#) [Contact Us](#) **Quote & Order Now**

## Password Recovery - Step 2: Create New Password

✓ Your new password has been saved.

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The user should be automatically logged in at this point (and the “quote and order now” button be displayed).

## Quick registration.

The screenshot shows the Materialise OnSite website header with the logo, navigation links (Home, Technology selector, About OnSite, Contact Us), and a registration prompt. The main content area features a 'Quick registration' form with fields for Name, Company, Phone, Email, Password, and Password again. There are checkboxes for 'I have ordered at Materialise before' and 'I accept the Terms and Conditions'. A 'Continue >>' button is at the bottom. To the right is a 'OnSite 1-minute tour' section with a video player and descriptive text. The footer includes copyright information and links to 'Terms and Conditions' and 'About Materialise'.

This screen is displayed when user clicks “register” in the header or “Quick Registration” from the Log In popup layer.

The Email field should have validation for the Email input format (check for “@” and “.”)

Password is checked for length and strength:

- Length check: if fewer than 5 or 6 (TBD) characters are entered, then “too short” is displayed. This message appears once the user starts entering something into the password field:

A form field for password with two dots. To the right, the text reads 'Password strength: too short'.

- Strength check has three levels (the exact algorithm is TBD):
  - o too weak (when only characters and only lowercase are entered):

A form field for password with six dots. To the right, the text reads 'Password strength: too weak'.

- o weak (when it contains only characters other than letters or only numbers):

A form field for password with six dots. To the right, the text reads 'Password strength: weak'.

- o strong (when long and either mixed case or letters+numbers password is entered).

A form field for password with six dots. To the right, the text reads 'Password strength: strong'.

When the “password again” input length is the same as the “password” field, the password match check is performed. When passwords match, a “passwords match” message is displayed:

A form field for password again with six dots. To the right, the text reads 'Passwords match'.

When passwords don’t match, the following message is displayed:

A form field for password again with six dots. To the right, the text reads 'Passwords don't match'.

Other checks are carried out when the form is submitted. Error messages (above the form fields, one for each error, listed in the order the fields visually appear on the form) must always contain information about how to correct the

error. The cause of the error can be implied in the error message. The the field(s) with error(s) should be highlighted by outlining (rather than coloring the form control).

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Please [log in](#) or register to access:  
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[Home](#) [Technology selector](#) [About OnSite](#) [Contact Us](#)

## Quick registration

New to OnSite? Please register to get quotes, place orders, and track your quotes and orders online.

**!** Please enter your "Name:"  
Please enter your "Phone:"  
The Email you entered ("maarten.valkenaers@tupperware.com") is already in our database. Would you like to [log in](#) or did you [forget your password](#)?  
Please indicate that you accept the [Terms and Conditions](#)

\* Name:   
Company:   
\* Phone:

\* Email:   
\* Password:  Password strength: **strong**  
\* Password again:  **Passwords match**

I have ordered at Materialise before  
 I accept the [Terms and Conditions](#)

**Continue >>**

\* = required information

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### OnSite 1-minute tour

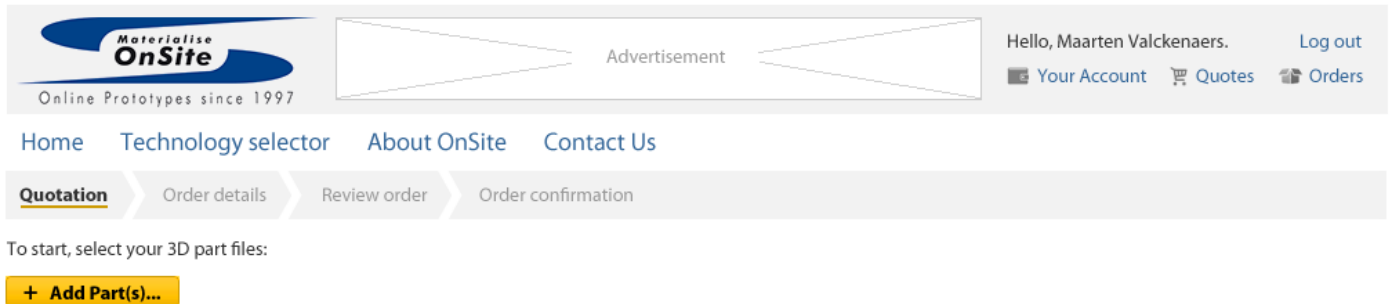
Discover OnSite's unique features such as custom part orientation, advanced material selector, and more...

The complete list of error conditions and messages for all of the screens are TBD by the AE.

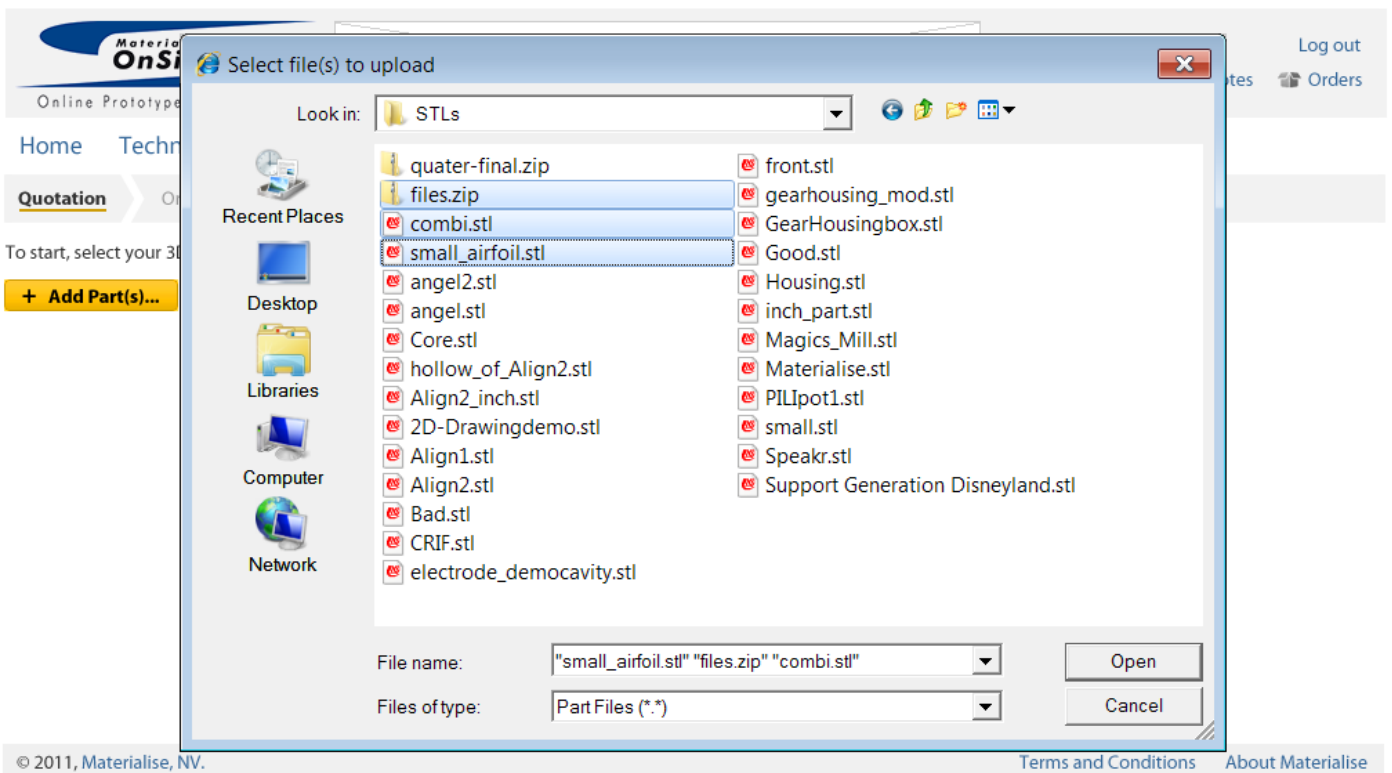
## Quotation.

The proposed solution is a departure from the way OnSite handles file analysis and quoting: files are **uploaded** to the OnSite server to be converted, fixed, nested (SLS), analyzed, and quoted. UI-wise, the general concept is that upload and analysis happens on a single screen, rather than being split up into file selection on one screen and analysis/quoting on the other.

After clicking the "Quote & Order Now" button the user sees an empty quotation with an invitation to add parts:




Click the "Add Part(s)..." button to display the regular, multi-select OS dialog to allow user to select one or more files at once:



Clicking "Open" in the above dialog starts the upload/analysis process. The parts are uploaded and analyzed one by one in the background, allowing the user to select the build parameters (material, finish, qty, etc.) for each one at the same time.

The following state of the quotation screen illustrates the point at which the first part has been uploaded/analyzed, the user has selected the parameters and added some instructions and attachments, and the price has been calculated for that line item.



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**Quotation** > [Order details](#) > [Review order](#) > [Order confirmation](#)

## Quotation Number: 321463


Short description:  [Instructions & attachments](#)

+ Add Part(s)...

Part	Parameters	Quantity	Unit, €	Total, €
 <p><b>1004-2010-9839 Gear Housi...</b>  <a href="#">update file / rename part</a>            342.25 x 100.25 x 125.50 mm ▾            Vol.: 3.8923 ltrs  <a href="#">Instructions &amp; attachments</a></p>	Technology: SLA Material: Poly1500 Finish: Mat Paint A Side Color: RAL 7034	1 <a href="#">remove</a> <a href="#">duplicate</a>	190.00	190.00
<p>Uploading ...              Remaining: 0:23  <a href="#">Instructions &amp; attachments</a></p>	Technology: SLS Material: Polyamide Finish: Normal Color: N/A	2 <a href="#">remove</a> <a href="#">duplicate</a>		
<p>Queued for upload  <a href="#">Instructions &amp; attachments</a></p>	Technology: - Select - Material: <i>select technology first</i> Finish: <i>select material first</i> Color:	1 <a href="#">remove</a> <a href="#">duplicate</a>		
<p>Queued for upload  <a href="#">Instructions &amp; attachments</a></p>	Technology: - Select - Material: <i>select technology first</i> Finish: <i>select material first</i> Color:	1 <a href="#">remove</a> <a href="#">duplicate</a>		

 **Estimated lead time:**

**Parts**  
Online discount (10%)

  Pick up  Deliver to: Belgium via: UPS Ground, 2-day

Delivery:


**Total:**

**Order these parts >>**

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After the all the parts are uploaded and the parameters (including the delivery method) selected, the finished quotation looks like this:



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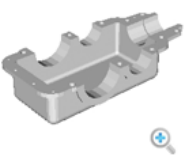



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[Contact Us](#)


Quotation
Order details
Review order
Order confirmation

## Quotation Number: **321463**

Short description:  [Instructions & attachments](#)


+ Add Part(s)...

Part	Parameters	Quantity	Unit, €	Total, €
 <p><b>1004-2010-9839 Gear Housi...</b>  <a href="#">update file / rename part</a></p> <p>342.25 x 100.25 x 125.50 mm ▾                      Vol.: 3.8923 ltrs</p> <p><a href="#">Instructions &amp; attachments</a></p>	Technology: <input type="text" value="SLA"/> <a href="#">Material &amp; finish selector</a> Material: <input type="text" value="Poly1500"/> Finish: <input type="text" value="Mat Paint A Side"/> Color: <input type="text" value="RAL 7034"/>	<input type="text" value="1"/> <a href="#">Material &amp; finish selector</a> ✖ remove 🟢 duplicate	190.00	190.00
 <p><b>1004-2010-9840 Gear holder</b>  <a href="#">update file / rename part</a></p> <p>18.44 x 10.22 x 13.60 mm ▾                      Vol.: 0.0164 ltrs</p> <p><a href="#">Instructions &amp; attachments</a></p>	Technology: <input type="text" value="SLS"/> <a href="#">Material &amp; finish selector</a> Material: <input type="text" value="Polyamide"/> Finish: <input type="text" value="Normal"/> Color: <input type="text" value="N/A"/>	<input type="text" value="2"/> <a href="#">Material &amp; finish selector</a> ✖ remove 🟢 duplicate	120.00	240.00
 <p><b>1004-2010-9840 Spindle</b>  <a href="#">update file / rename part</a></p> <p>6.44 x 10.20 x 23.45 mm ▾                      Vol.: 0.0164 ltrs</p> <p><a href="#">Instructions &amp; attachments</a></p>	Technology: <input type="text" value="SLS"/> <a href="#">Material &amp; finish selector</a> Material: <input type="text" value="Polyamide"/> Finish: <input type="text" value="Normal"/> Color: <input type="text" value="N/A"/>	<input type="text" value="4"/> <a href="#">Material &amp; finish selector</a> ✖ remove 🟢 duplicate	30.00	120.00
 <p><b>1004-2010-9840 Washer</b>  <a href="#">update file / rename part</a></p> <p>1.50 x 12.00 x 12.00 mm ▾                      Vol.: 0.0004 ltrs</p> <p><a href="#">Instructions &amp; attachments</a></p>	Technology: <input type="text" value="Z Corp"/> <a href="#">Material &amp; finish selector</a> Material: <input type="text" value="ZP 131 coloured"/> Finish: <input type="text" value="Standard"/> Color file: <input type="text" value="9840-washer.zcf"/> <a href="#">update file</a>	<input type="text" value="8"/> <a href="#">Material &amp; finish selector</a> ✖ remove 🟢 duplicate	10.00	80.00

 **Estimated lead time: 4 working days**  
 If you order today by 1 pm CET, your order will ship on December 3, 2010

**Parts 630.00**

Online discount (10%) - 63.00



Pick up
  Deliver to:

via:

Delivery 18.00

**Total 585.00**  
tax not included

**Order these parts >>**




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“Quotation Number: #####” heading serves a double purpose here: quotation number and page title.

The purpose of the “Short description” text field is to allow the user to assign a unique label to the quote, which is useful when viewing the quotes history listing in the “Your Account” section. If the user leaves this field blank, then the first part’s name and the words “and XX other parts” are used. The “Order these Parts” button is now active.

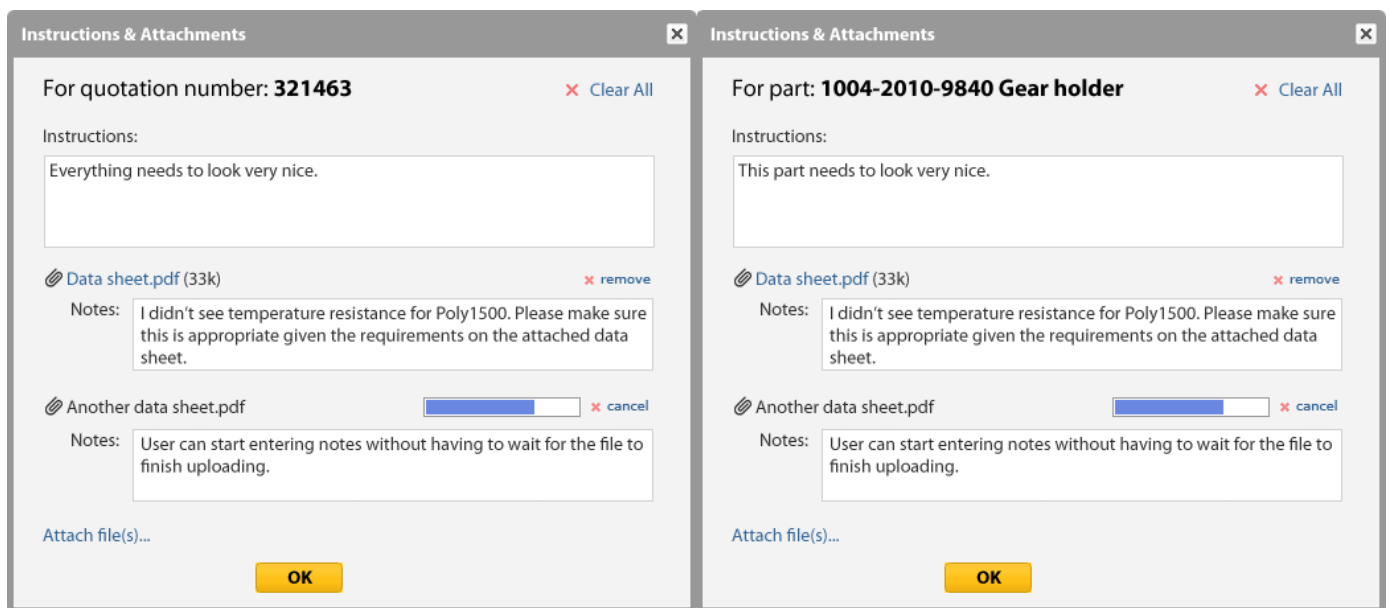
## Quotation > Instructions & Attachments.

The “Instructions & attachments” link’s icon has three states to indicate whether there are instructions, attachments, or both:

Icon	Meaning
 Instructions & attachments	nothing entered or attached
 Instructions & attachments	instructions, but no attachments are present
 Instructions & attachments	instructions and/or attachments are present

The “Instructions & attachments” link opens a “layer” window where the user can enter any special requests about what s/he needs:

Instructions & attachments for entire quotation/order:      Instructions & attachments for a specific part:




Controls:

Control	Action
“Clear All”	Show a standard confirmation dialog (OK/Cancel): “Remove all instructions and/or attachments for this {part/order/quotation} ?” On “OK” remove all instructions and attachments.
“remove”	Show a standard confirmation dialog (OK/Cancel): “Remove this attachment?” On “OK” remove it.
“cancel” (appears during upload)	Stops the upload and removes the attachment without a warning.
“Attach file(s)...”	Opens a multi-select file selection dialog box. User selects the files to attach and clicks “OK.”
“OK”	Everything is saved and the dialog is closed. If the user clicks “OK” while upload is in progress, then an alert box (the one with the single “OK” button) is displayed asking the user to wait for the upload to complete or cancel the upload.



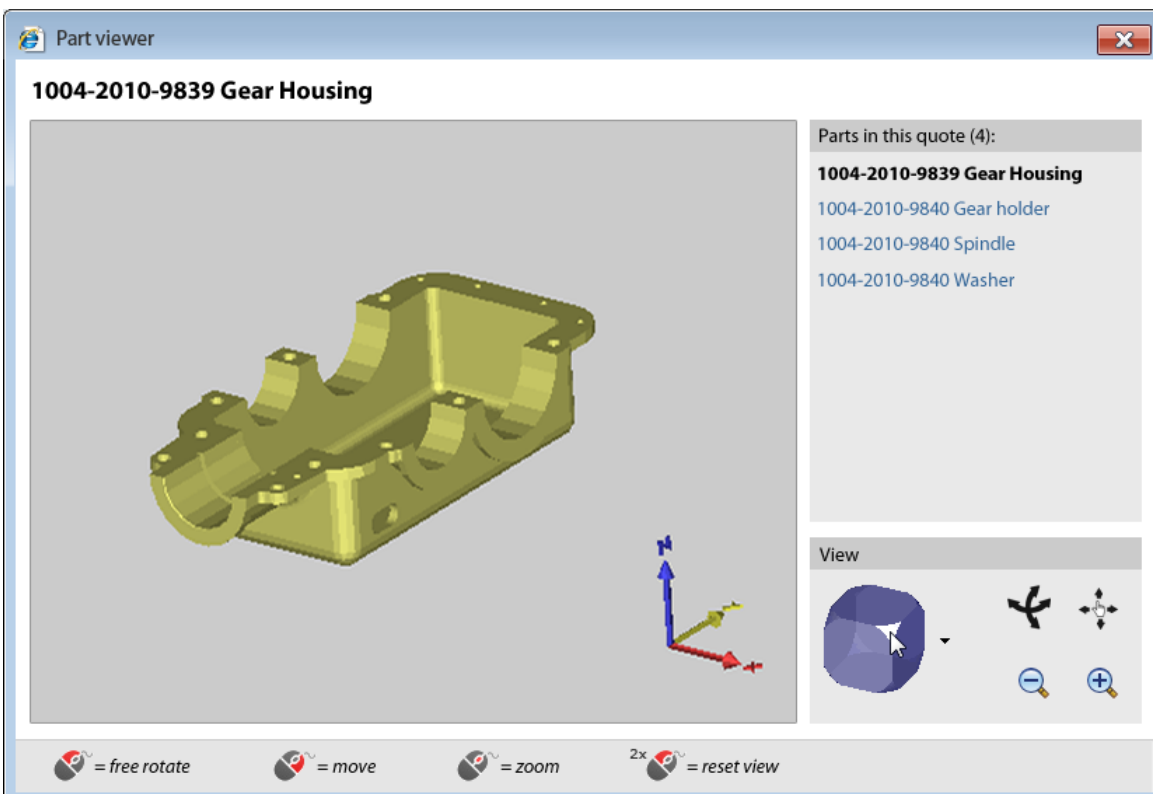
## Quotation > Part line item.

Part	Parameters	Quantity	Unit, €	Total, €
 <p><b>1004-2010-9839 Gear Housi...</b>  <a href="#">update file / rename part</a></p> <p>342.25 x 100.25 x 125.50 mm ▾            Vol.: 3.8923 ltrs</p> <p><a href="#">Instructions &amp; attachments</a></p>	Technology: SLA Material: Poly1500 Finish: Mat Paint A Side Color: RAL 7034	1 <a href="#">remove</a> <a href="#">duplicate</a>	190.00	190.00

UI Element	Description
Part thumbnail	shows the preview of the part. Clicking the thumbnail opens the part viewer in a window.
Part name	is extracted from the part's file name when the user selects the parts to add. If the name exceeds a certain number of characters it is truncated to prevent wrapping. Hovering over the truncated name displays the part's complete name in a tooltip.
Part dimensions & volume	<p>are extracted from the part during analysis. If possible, the dimensions should be extracted first and displayed as soon as possible, so that they are available even before the part's analysis is finished.</p> <p>The user can select "in" or "mm" from the dropdown next to the dimensions. The exact mechanism of how this dropdown interacts with the user's preferred units setting in account settings and with the part's file itself is TBD.</p>
"remove" link	removes the entire part line item.
"duplicate" link	duplicates the part line item and inserts it immediately below. All of the parameters and quantity settings are also duplicated to make it easier for the user to do "what if" comparisons by changing one or few parameters at a time.

## Quotation > Part line item > Part Viewer.

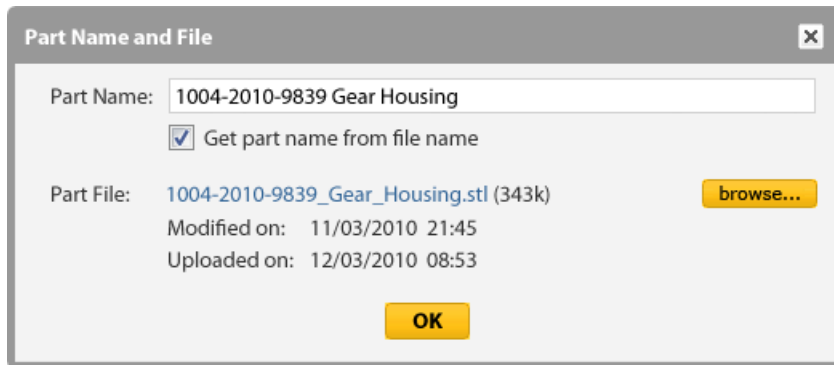
The viewer has been simplified significantly from the old one. Not only was the orientation setting functionality removed (per OnSite stakeholder request), but so were all of the unused viewing controls (per user test results).



## Quotation > Part line item > Update file / rename part.

Clicking the “update file / rename part” link opens the “Part Name and File” layer window.

The use case here is when a user quotes a part, then makes changes to it (something that happens almost always), and then wants to re-quote the part using the updated part file. Since all the other part line items and even the parameters for the re-quoted part remain unchanged, the ability to re-upload the part file saves user a considerable amount of work (vis a vis having to make a new quote or even removing the part line item and adding it again to the quote).



Part Name and File

Part Name: 1004-2010-9839 Gear Housing

Get part name from file name

Part File: 1004-2010-9839\_Gear\_Housing.stl (343k) [browse...](#)

Modified on: 11/03/2010 21:45

Uploaded on: 12/03/2010 08:53

OK

Things to note on this screen are:

---

“Modified On:” and “Updated On:”

These dates/times are extracted from the file properties to let the user know which version of the file s/he got in the quote

---

“browse...” and “OK” buttons

Clicking “browse” allows the user to select the file; “OK” starts the upload/analysis.

---

Uploading a new file overwrites the old one, but not until the upload/analysis of the new file is successful. If the upload fails for some reason, the user should see an appropriate message (i.e. “Upload/analysis failed. Please try re-uploading your file again. If problem persists, please contact your account manager.”).

**Part parameter fields: technology / material / finish / color.**



Field	Selection after the parameter's prerequisite is selected
Technology	N/A
Material	- Select -
Finish	<b>Auto-select the default finish for the chosen material.</b> This reduces the number of clicks to get a price quote. In the future, the system can auto-select the user's preferred or recently used finish.
Color	"N/A" or "RAL" or "Upload color file..."

### Part parameter dropdown: technology.

Parameters		Quantity
Technology:	- Select -	1
Material:	NextDay SLA (24-hr service)	Material & finish selector remove duplicate
Finish:	FDM	
Color:	SLA SLS Polyjet Z Corp	
Technology:	Vacuum Casting <small>offline quote</small>	2
Material:	RIM <small>offline quote</small>	Material & finish selector remove
	Rapid Tooling <small>offline quote</small>	

Carry over the technology dropdown from the current OnSite. Keep the color coding, but reinforce offline technology designation with label “offline quote”.

### Part parameter dropdown: material.

*Background info:* This has been a difficult dropdown to design, because we really wanted to indicate the price (or price difference) in the dropdown itself, but this raised too many questions: what about finishes, what about quantity, what about other items in the order (is SLS nesting is implemented), etc. Any compromise solutions didn't seem to be useful to justify developing them (not to mention the extra time required to calculate the prices and the resulting drop in task performance for experienced, non-price-sensitive users). This is why the idea of showing prices in the **simple** dropdown has been abandoned and the “material & finish selector” was created (described on page XX).

*Solution:* Therefore, the material dropdown simply lists the available materials for the selected technology, using the same color coding and “offline quote” label as the technology dropdown.

### Part parameter dropdown: finish.

Same deal as the material dropdown here: the finish dropdown lists the available finishes for the selected material (auto-selecting the default finish as soon as user selects a material), using the same color coding and “offline quote” label as the technology and material dropdowns.

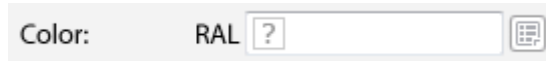
### Part parameter selection: color.

Since color selection is done differently depending on the material and finish, the approach here is to hide rather than disable the color selection control until the user selects the material and finish (and it can be determined what kind of color selection control to display). Three cases are possible:

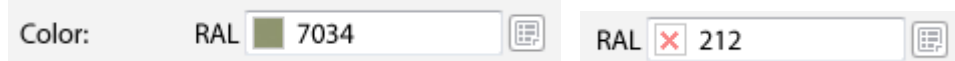
Case	Color selection or display
------	----------------------------

Color selection not needed	“N/A”
----------------------------	-------

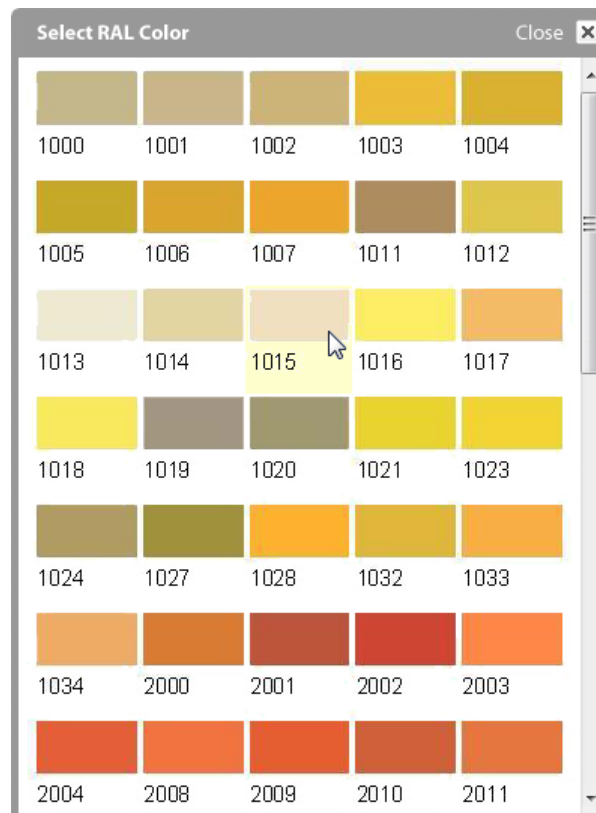
RAL color selection required	Show a text box into which the user can type in the 4-character color code and a color selector icon:
------------------------------	---



If the user types in the correct color code, then the box with the question mark turns the corresponding color; if the color code is incorrect, then

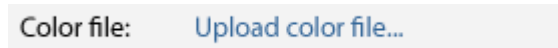


If the user clicks the color selector icon, display the color selection layer:



Clicking a color swatch closes the color selection layer and produces the same result as entering the 4-digit color code into the color text box.

Color <b>file</b> is required	Change the field label to “Color file:” and display the “Upload color file...” link:
-------------------------------	--



Clicking the link opens a file browser. User selects a file and clicks “OK.” While the file is uploading, a simple rotating progress indicator is displayed along with a cancel button. Once the file is finished uploading, the file’s name and an “update file” link is displayed.

## Quotation > Part line item > Material & finish selector (a.k.a. part price optimizer).

To accommodate different user needs, material selection can be done in two ways: via the parameter fields (discussed above) or the material & finish selector. The idea behind the material & finish selector is to show prices for **a combination of quantity and finish in ALL** of the available materials **at once** so that the user can quickly pick the appropriate material.

*THEREFORE: The only advantage of this tool over what's already available on the quotation screen is that the user can see prices for all materials at once. If one major piece of functionality is to be cut from the product, this should be it.*

The material & finish selector appears when the user clicks the material & finish selector link:



The material & finish selector has **three** states. When the user clicks the material field and...

... if the part has NOT finished  
uploading/analyzing:

... if the part is analyzed, but  
material is NOT selected:

... if material is already selected:

Material & Finish selector	Material & Finish selector	Material & Finish selector
Material: Total, € for 1 part(s): <b>NextDay SLA</b> NextDay finish only Poly1500 TuskXC2700W <b>Standard SLA</b> Finish: Normal A Side Epoxy Extreme NeXt Poly1500 Protogen White TuskXC2700 TuskXC2700T TuskXC2700W <b>SLS</b> Finish: Normal Ployamide Ployamide-GA (Glass Filled)	Material: Total, € for 1 part(s): <b>NextDay SLA</b> NextDay finish only Poly1500 430.00 TuskXC2700W 470.00 <b>Standard SLA</b> Finish: Normal A Side Epoxy 250.00 Extreme 230.00 NeXt 280.00 Poly1500 190.00 Protogen White 260.00 TuskXC2700 200.00 TuskXC2700T 260.00 TuskXC2700W 240.00 <b>SLS</b> Finish: Normal Ployamide 180.00 Ployamide-GA (Glass Filled) 220.00	Material: Unit, € for 2 part(s): <b>NextDay SLA</b> NextDay finish only Poly1500 + 140.00 TuskXC2700W + 180.00 <b>Standard SLA</b> Normal A Side finish Epoxy + 60.00 Extreme + 40.00 NeXt + 90.00 Poly1500 <b>selected</b> Protogen White + 70.00 TuskXC2700 + 10.00 TuskXC2700T + 70.00 TuskXC2700W + 50.00 <b>SLS</b> Normal finish Ployamide - 10.00 Ployamide-GA (Glass Filled) + 30.00

At the top of the price column the user can select “Total, €” (default) or “Unit, €” and enter the number of parts for which the price should be calculated. Since finishes are different for each technology, they are placed next to the technology name in the price column. By default, the base/regular finishes to each technology are selected. The “for [quantity] part(s)” value is copied from the part line item’s Quantity box.

Special cases:

Case	Result
If the material is only available in an offline quote...	... instead of the price, the words “offline quote” are displayed
If a finish is not available for one or some materials within technology, but available for others...	... display “finish not available” instead of the price for those materials.
If the user opens the “material & finish selector” after selecting <b>technology</b> using the parameter fields...	... auto-scroll the materials list to display the materials for the chosen technology.
If the user opens the “material & finish selector” after selecting <b>technology and material</b> (and the default finish is selected automatically)...	... do same as above + mark the selected material with the words “selected” instead of price, display all the other prices in terms of how much more or less expensive they are
If the user opens the “material & finish selector” after selecting <b>technology, material and a finish</b> other than the default...	... do same as above + match the finish selection to the one selected by the user for the technology to which it applies.

Clicking a material closes the dropdown sets the part's line item's "Material," "Finish," and "Quantity" to match user's selections in the material & finish selector.

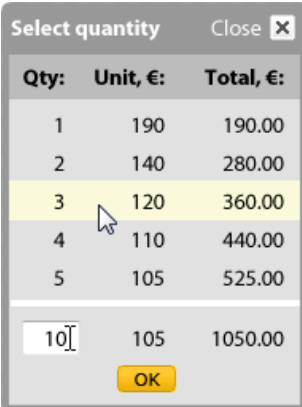
One addition that was requested by an ePortal stakeholder, but hasn't made it into the design (so far) is a lead time estimate. Adding this feature requires a more detailed discussion of how the lead time is calculated.

### What happened to the "Material Selector" and "Finish Selector"?

These tools, while useful, are too similar to what is already found in a better-intergrated technology selector which is still available from the quotation screen's top navigation. Clicking the "Technology Selector" link opens in a new window to avoid unintentional navigation away from the quotation screen (and possibly interrupting file upload/analysis and/or losing any of the user's work) and to better preserve the user's context.

### Quotation > Part line item > Quantity selector.

This feature is the result of the observation that users tend underestimate just how much the per part price changes when they order two, three or more parts. This simple tool is designed to illustrate the price for quantities other than the one currently selected by the user. The hope is that once the user sees how much cheaper parts become when ordered in multiple quantities, s/he will be compelled to order more than one.



Qty:	Unit, €:	Total, €:
1	190	190.00
2	140	280.00
3	120	360.00
4	110	440.00
5	105	525.00
10	105	1050.00

Click the icon next to the quantity box  to open the quantity selector for the part line item:

Clicking the quantity row closes the quantity selector and enters its value into the quantity box. Entering the quantity into the freeform quantity box at the bottom of the screen and clicking "OK" does the same.

If a quantity greater than 5 is already entered into the part line item quantity box, it should be duplicated here.

If a quantity that results in a total that's too high or a quantity that's unacceptable for any other reason is entered, then a message explaining the problem should be displayed just below the freeform quantity row (above the "ok" button) and the "OK" button

should be disabled.

### Quotation > Part line item > Remove link.

OnClick or when user enter's "0" into the quantity box, display a confirmation box: "Remove this part? [Ok]/[Cancel]." The confirmation is necessary because the user may have hit the link or entered "0" by accident, and losing a part is a very destructive action. Ideally, provide a way to the user to reverse deletion by displaying an "Undo" link where the part line item row contents was. This is because the user may realize that s/he deleted the wrong part only after it's gone.

### Quotation > Part line item > Duplicate link.

Duplicating a part allows the user to do two things:

- order the same part in different a material/finish without having to re-upload the part file;
- compare different combinations of materials/finishes/quantities for a part side by side without having to generate multiple quotes;

After the link is clicked, a copy of the part line item appears just below the original. The original part's name is prefixed with "Copy of" in the copy.

### Quotation > Delivery options.

Delivery (not pickup) is selected by default. The country and shipping method is set to those used in the last order. If this is the first order, then the country is set to the one in the user's personal information address and the shipping method is set to the least expensive option. If no personal information address exists, the country is set to "Belgium."

<b>Estimated lead time: 4 working days</b> If you order today by 1 pm CET, your order will ship on December 3, 2010	<b>Parts</b> <b>630.00</b>
	Online discount (10%) - 63.00
<input type="radio"/> Pickup <input checked="" type="radio"/> Deliver to: <span>Belgium</span> via: <span>UPS Ground, 2-day</span> <span>18.00</span>	Delivery <b>18.00</b>
<b>Total 585.00</b> <small>tax not included</small>	

When user selects "Pickup up" by clicking it's radio button:

- the icon to the left of the pickup radio button changes;
- the country and shipping method dropdowns are disabled (but "Deliver to:' remains active);
- the delivery charge is set to "0.00"

<b>Estimated lead time: 4-6 working days</b> If you order today by 1 pm CET, your order will be ready for pick up between December 23 and December 25	<b>Parts</b> <b>630.00</b>
	Online discount (10%) - 63.00
<input checked="" type="radio"/> Pickup <input type="radio"/> Deliver to: <span>Belgium</span> via: <span>UPS Ground, 2-day</span> <span>18.00</span>	Delivery: <b>0.00</b>
<b>Total: 567.00</b> <small>tax not included</small>	

### Quotation with offline quotable only parameters:

Quotation Number: **321463**

Some of parameters you've specified are only quotable offline. You may remove those parts from the quote or request a manual quote for your order. Manual quotes typically take 2 hours or less to process.

Short description:  [Instructions & attachments](#)

**+ Add Part(s)...**

Part	Parameters	Quantity	Unit, €	Total, €
<b>1004-2010-9839 Gear Housi...</b> <a href="#">update file / rename part</a> 342.25 x 100.25 x 125.50 mm ▾ Vol.: 3.8923 ltrs <a href="#">Instructions &amp; attachments</a>	Technology: <span>SLA</span> <input type="text"/> Material: <span>Poly1500</span> <input type="text"/> Finish: <span>Mat Paint A Side</span> <input type="text"/> Color: <span>RAL 7034</span> <input type="text"/>	<input type="text" value="1"/> <input type="text"/> <input type="button" value="remove"/> <input type="button" value="duplicate"/>		

### Quotation with bad parts:

Some of your parts cannot be quoted online. You may remove those parts from the quote or request a manual quote for your order. Manual quotes typically take 2 hours or less to process.

Short description:  [Instructions & attachments](#)

**+ Add Part(s)...**

Part	Parameters	Quantity	Unit, €	Total, €
<b>1004-2010-9839 Gear Housi...</b> <a href="#">update file / rename part</a> 342.25 x 100.25 x 125.50 mm ▾ Vol.: 3.8923 ltrs <a href="#">Instructions &amp; attachments</a>	Technology: <span>SLA</span> <input type="text"/> Material: <span>Poly1500</span> <input type="text"/> Finish: <span>Mat Paint A Side</span> <input type="text"/> Color: <span>RAL 7034</span> <input type="text"/>	<input type="text" value="1"/> <input type="text"/> <input type="button" value="remove"/> <input type="button" value="duplicate"/>		



## Order details.

Quotation **Order details** Review order Order confirmation

### Order Number: 321463

#### Delivery

Company: Materialise  
Contact Name: Maarten Valckenaers  
Phone: +32 16 39 66 11  
Address 1: Technologielaan 15  
City: Leuven  
ZIP: 3001  
Country: Belgium

< 1/3 > edit delete new address

#### Invoice

Company: Materialise  
Contact Name: Maarten Valckenaers  
Phone: +32 16 39 66 11  
Address 1: Technologielaan 15  
City: Leuven  
ZIP: 3001  
Country: Belgium  
VAT Number: BE 123456789

< 1/3 > edit delete new address

#### Payment

\* PO Number:   
PO number will appear on invoice

\* Payment type:  Credit Card  Invoice

\* = required information

**Continue >>**

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The concept of multiple delivery and invoice addresses as well as the mechanics of their editing is carried over from the old OnSite. Clicking the edit link when displaying an address displays the address in “edit mode”:

#### Invoice

Company: Materialise  
Contact Name: Maarten Valckenaers  
Phone: +32 16 39 66 11  
Address 1: Technologielaan 15  
City: Leuven  
ZIP: 3001  
Country: Belgium  
VAT Number: BE 123456789

< 1/3 > edit delete new address

→ Click “Edit” →

← Click “OK” ←

#### Invoice

\* Company:   
\* Contact Name:   
\* Phone:   
\* Address 1:   
Address 2:   
Address 3:   
\* City:   
\* ZIP:   
\* Country:   
VAT Number:

**OK** Cancel

The empty Address 2 and Address 3 lines are not displayed in the view mode, but appear in the edit mode.

If there an error, display it like this:

Order Number: 321463

#### Delivery

Company: Materialise  
Contact Name: Maarten Valckenaers  
Phone: +32 16 39 66 11  
Address 1: Technologielaan 15  
City: Leuven  
ZIP: 3001  
Country: Belgium

< 1/3 > edit delete new address

#### Invoice

**⚠ OOPSI The VAT number for Belgium must have 9 digits following "BE"**

\* Company:   
\* Contact Name:   
\* Phone:   
\* Address 1:   
Address 2:   
Address 3:   
\* City:   
\* ZIP:   
\* Country:   
VAT Number:

**OK** Cancel

#### Payment

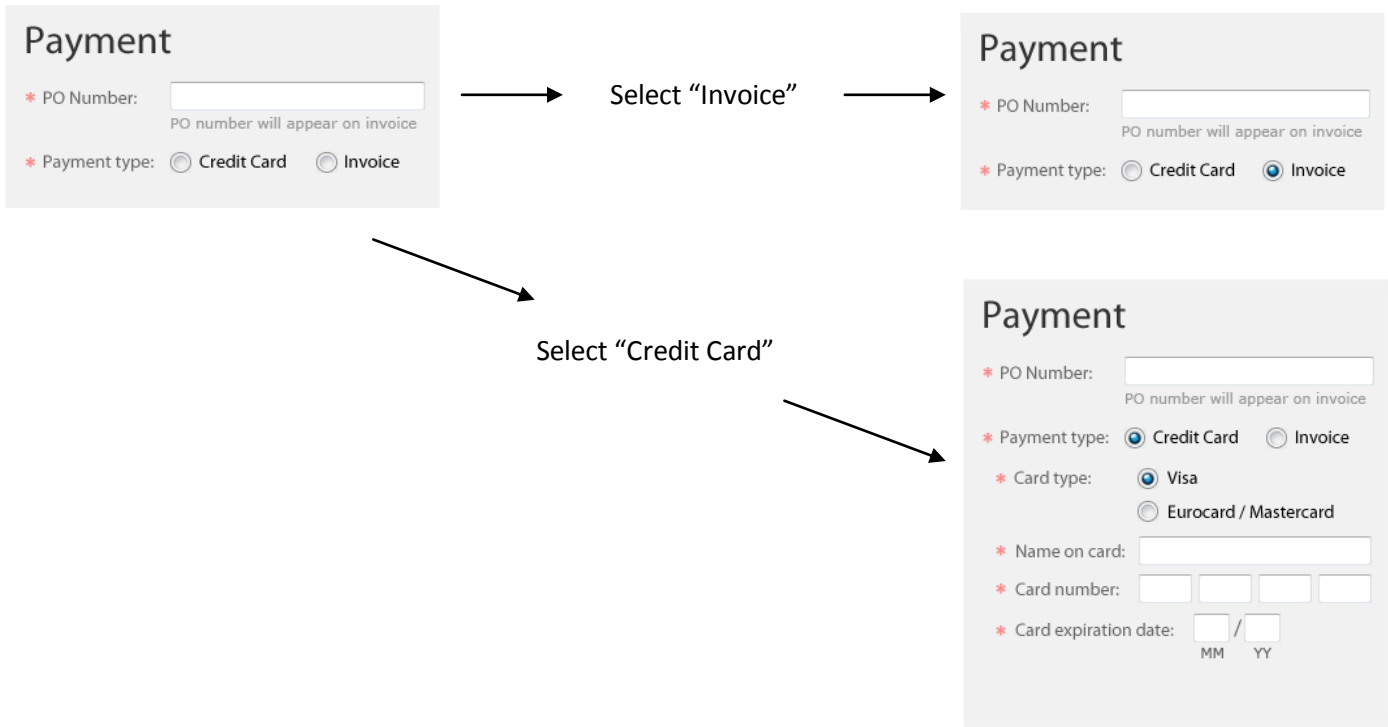
\* PO Number:   
PO number will appear on invoice

\* Payment type:  Credit Card  Invoice

\* = required information

**Continue >>**

The Payment box is always in the edit mode, requiring the user to select a payment method and, in the case of credit card, enter the information for every order:



### Review Order.

Instructions & attachments are read-only

## Order Number: 321463

Short description: A very important gear housing

[edit](#)

[Instructions & attachments](#)

### Delivery [edit](#)

Company: Materialise  
Contact Name: Maarten Valckenaers  
Phone: +32 16 39 66 11  
Address 1: Technologielaan 15  
City: Leuven  
ZIP: 3001  
Country: Belgium





### Invoice [edit](#)

Company: Materialise  
Contact Name: Maarten Valckenaers  
Phone: +32 16 39 66 11  
Address 1: Technologielaan 15  
City: Leuven  
ZIP: 3001  
Country: Belgium  
VAT Number: BE 123456789

### Payment [edit](#)

PO Number: 1234567890  
Payment Type: VISA credit card

### Parts [edit](#)

Part	Qty	Unit, €	Total, €
 <p><b>1004-2010-9839 Gear Housing</b> 342.25 x 100.25 x 125.50 mm Vol.: 3.8923 ltrs <a href="#">Instructions &amp; attachments</a></p>	1	190.00	190.00
 <p><b>1004-2010-9839 Gear Housing</b> 342.25 x 100.25 x 125.50 mm Vol.: 3.8923 ltrs</p>	2		Multiple Polyamide parts are quoted together below. <a href="#">More info...</a>
 <p><b>1004-2010-9839 Gear Housing</b> 342.25 x 100.25 x 125.50 mm Vol.: 3.8923 ltrs</p>	4		Multiple Polyamide parts are quoted together below. <a href="#">More info...</a>
 <p><b>1004-2010-9839 Gear Housing</b> 342.25 x 100.25 x 125.50 mm Vol.: 3.8923 ltrs</p>	8	10.00	80.00



**Estimated lead time: 4 working days**

If you order today by 1 pm CET, your order will ship on December 3, 2010

<b>SLS / Polyamide Parts</b>	<b>360.00</b>
<b>Other Parts</b>	<b>270.00</b>
Online discount (10%)	- 63.00
Delivery: UPS Ground, 2-day	18.00

**Total: 585.00**

\* = required information

\*  I agree to Terms and Conditions

**Place Order**

## General UI themes.

**Immediate reconciliation** of user selections and the rest of the display. Whenever a user makes a selection the rest of the elements and displays on the screen should be updated to reflect the results of the user's selection. For example, changing the "Quantity" on the quotation screen should lead to an automatic recalculation of the line item's unit and total price. The user should not have to look for an "update" button to prompt this behavior; it should be done automatically by recognizing user actions via OnChange, OnMouseUp, etc. event handlers.

**Where you see it is where you edit it (a.k.a. editing in place).** This is about putting editing controls next to settings displays to avoid making the user search the UI for a way to edit something OR taking the user too far out of context by directing the user to a completely different part of the application. The simplest example is placing the "update file" link next to the file name in case the user needs to replaced the color file:

Color file: 9840-washer.zcf  
[update file](#)

User clicks the link, selects a different file, and "comes" right back here. It's easy to see how to change the file and the user's context is retained.

Taken to the extreme, of course, the result of this principle is simply a form field that never becomes a static display. For example, the delivery fields:

Why not make the entire UI like this? Well, turning the UI into one big form would make it very difficult to scan it quickly for information.

## Integration with NextDay.

The new OnSite should be integrated with NextDay similarly to how the old OnSite was:

- OnSite should "pick up" the user's parts after the user clicks "Log In" in NextDay and display the quotation screen with all the parts loaded into the quotation and the part's loading/analyzing/queued status shown.
- If possible, the user should be able to re-orient a part in NextDay and see the new orientation on the OnSite's quotation screen.

There is probably no reason to disable the part viewer for NextDay users. There is, however, a good reason to enable it: so that the user can see the result of any changes (i.e. fixing) or format conversion before ordering the part. Alternatively, the fixed/converted part can be "sent back" and displayed in NextDay.

From the general usability perspective, however, it would be best if the user could do everything on the site: upload, orient, fix, and order parts.