Functional specification

Products comparison

Fanuc

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1 General information

Products comparison feature will allow website visitors to select products from all products' families available in the system and compare them based on different parameters set as products specifications. The entire functionality will include the following:

1. Compare button on Product item page.
2. Compare buttons on listing pages.
3. Compare button in the main search page for the product items.
4. Compare button on the related products' paragraphs.
5. Comparison ribbon displayed at the bottom of the page where the added products will appear.
6. Comparison page where the products are listed with all compare parameters based on product family.

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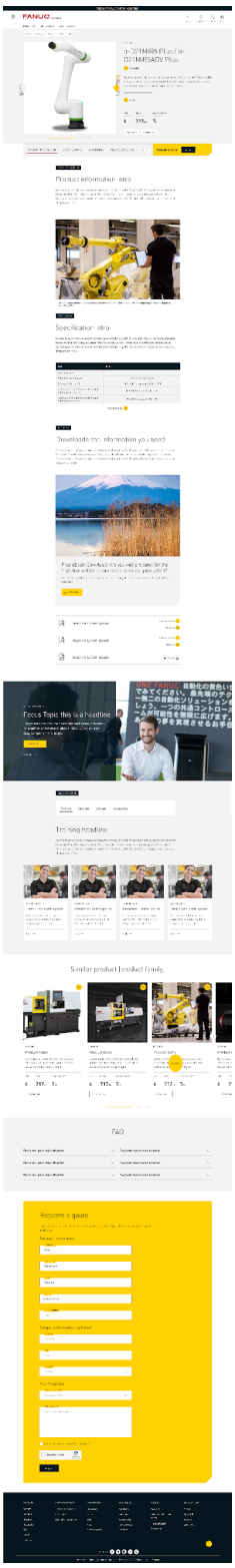
2 Design examples

2.1 Product item page design



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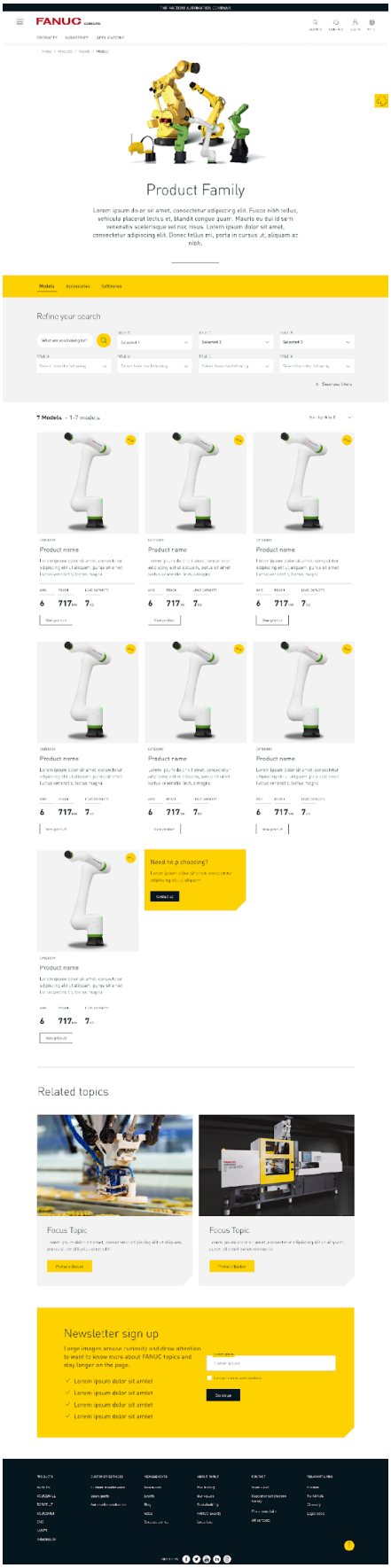
2.2 Product family listing page design



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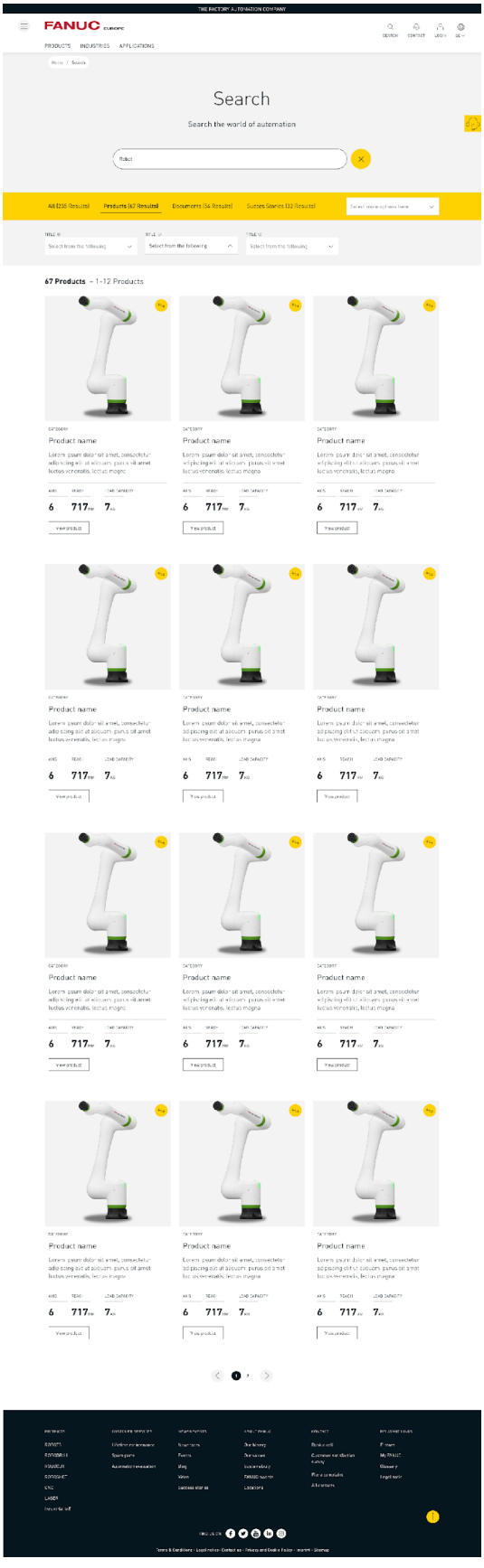
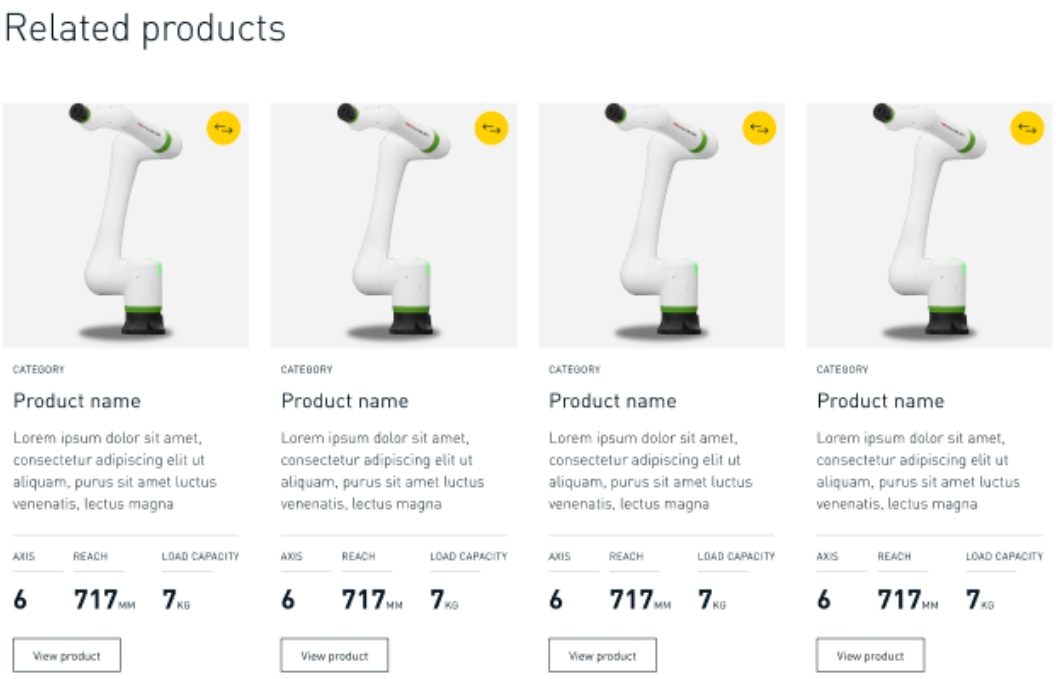
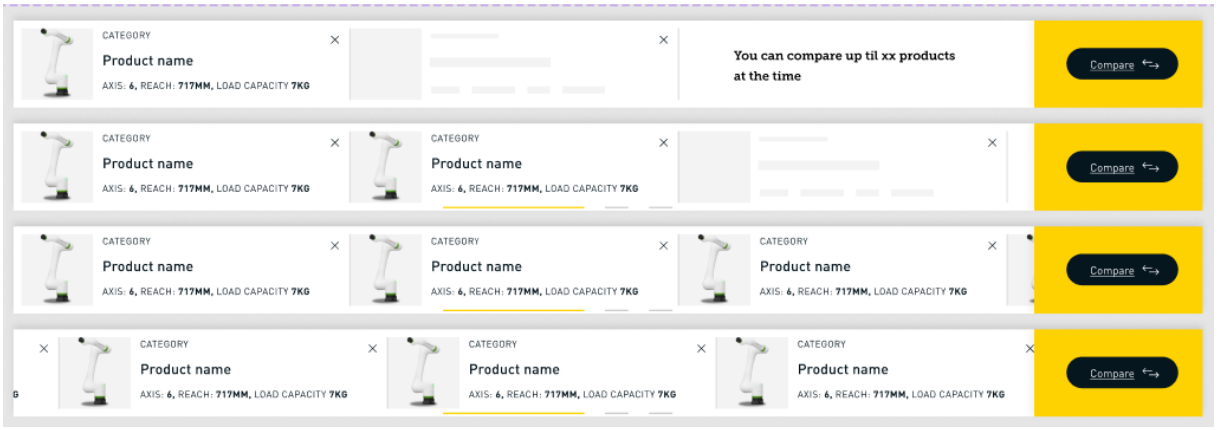
2.3 Search page design



2.4 Related products element design



2.5 Comparison ribbon design



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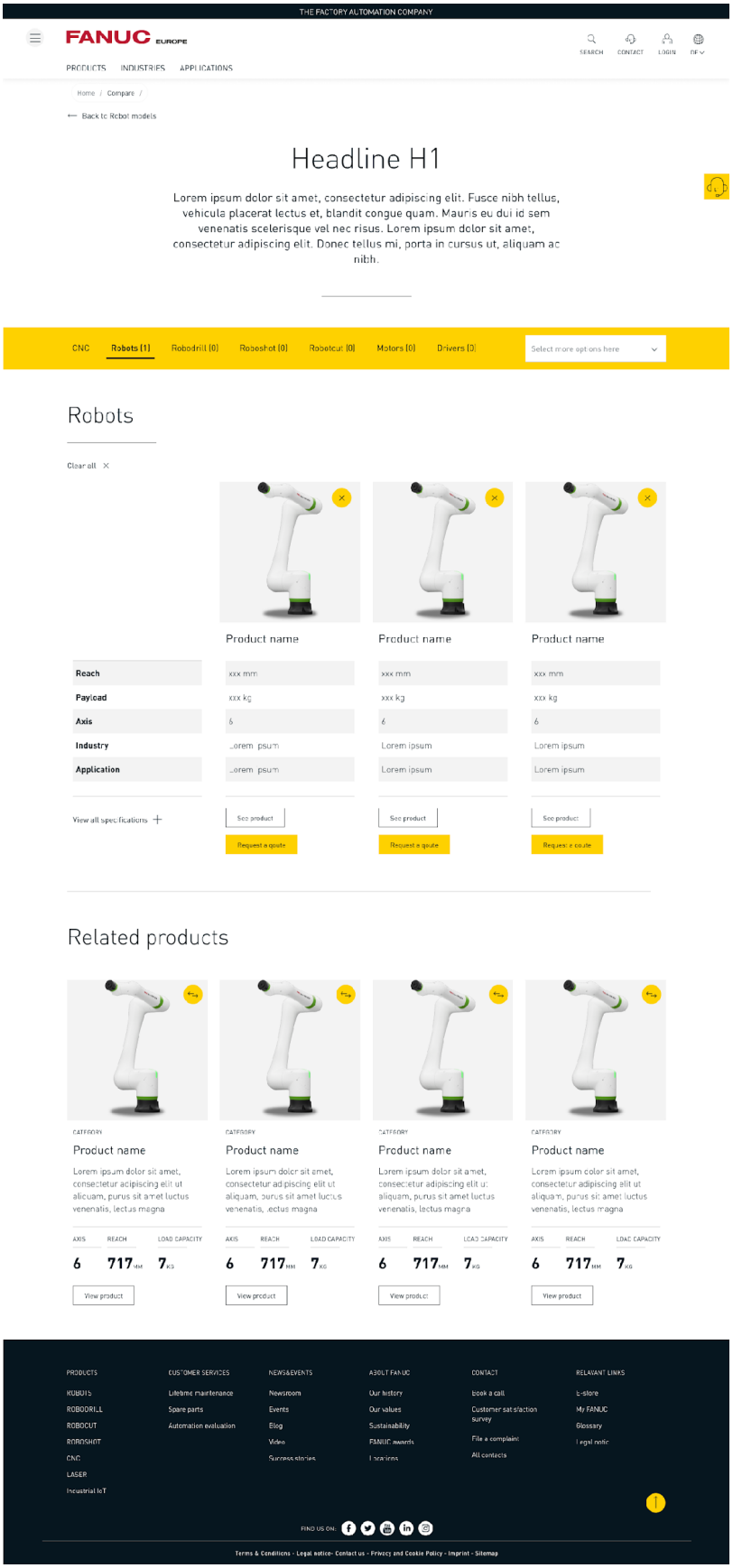
2.6 Product comparison page design



3 User journey and functional behavior of the compare button

3.1 User journey

The user journey goes through the following steps:

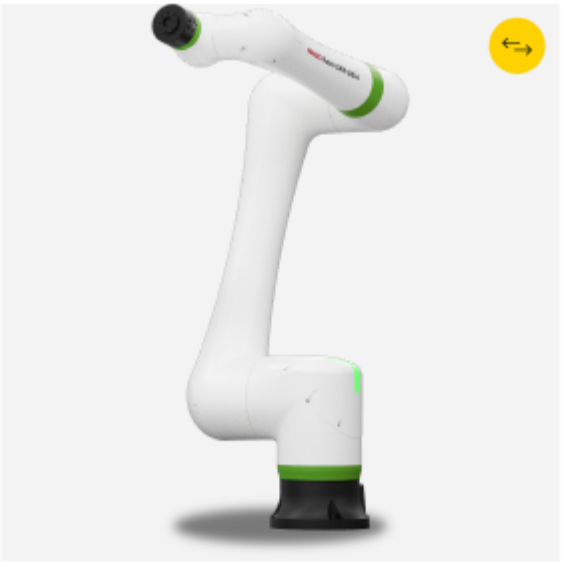
1. Step 1: The user journey can start from the Product item page, Product listing pages, Search, or “Related products” paragraph by clicking on the “Compare” button, which will add the product to the comparison ribbon.
2. Step 2: Once the needed products are added in the ribbon, which will appear at the very bottom of the page, the user can click the “Compare” button there.
3. Step 3: By clicking on “Compare” button from the ribbon, the user will land on the Comparison page, where the products can be compared based on different product families.

3.2 “Compare” button general behavior

3.2.1 Behavior on listing pages

The Compare button will behave as follows wherever it appears on the site listing pages, Search and Related products paragraphs:

1. Compare button will look like this when it is not clicked:



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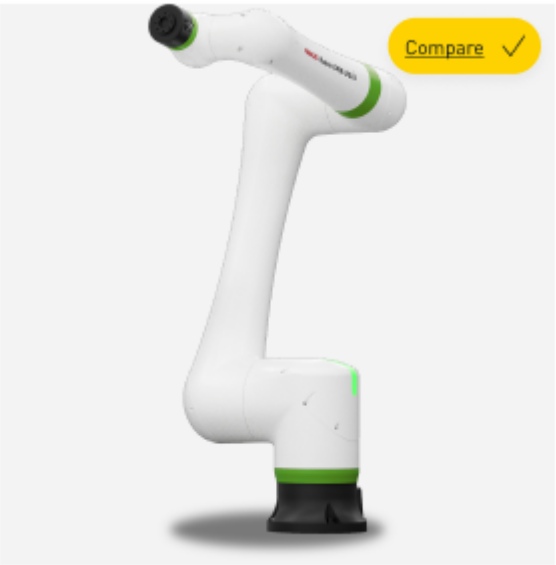
2. First button click adds the product to the comparison ribbon at the bottom of the page and it will turn into this visually:

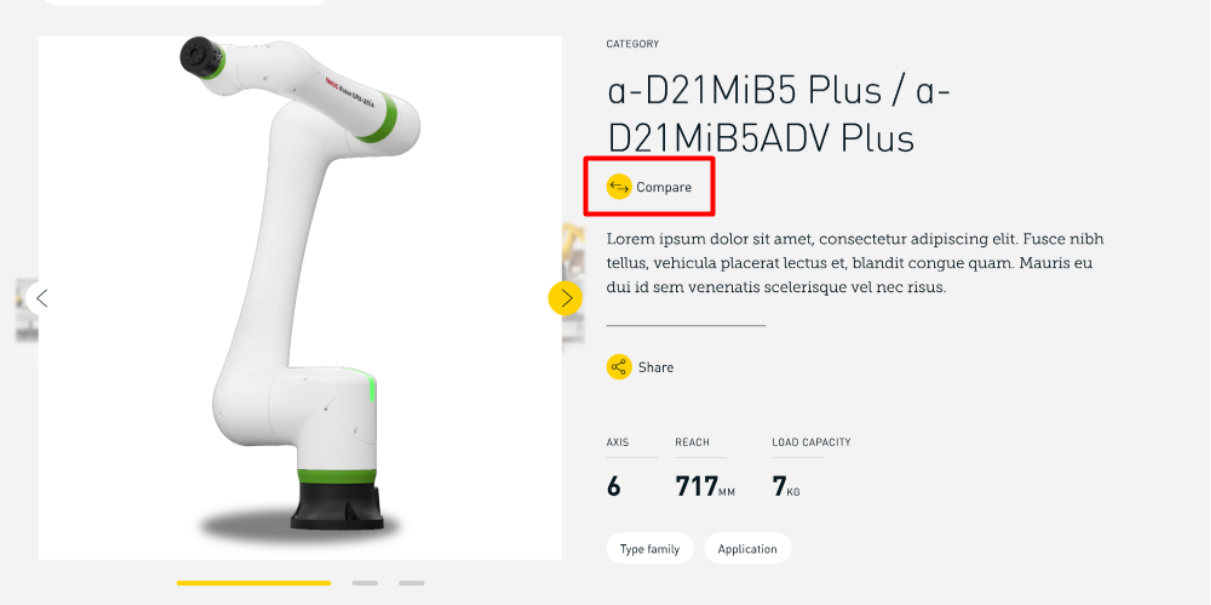


3. Second click on the button will remove the product from the comparison ribbon and it will return to the previous state visually.

3.2.2 Behavior on Product item page

The button is a bit different on the product item page than the one on the listing page. It is presented with icon and text. There should be a translation string for the text in the administration, so that it can be translated to different languages.

1. The button will look like this when it is not clicked:



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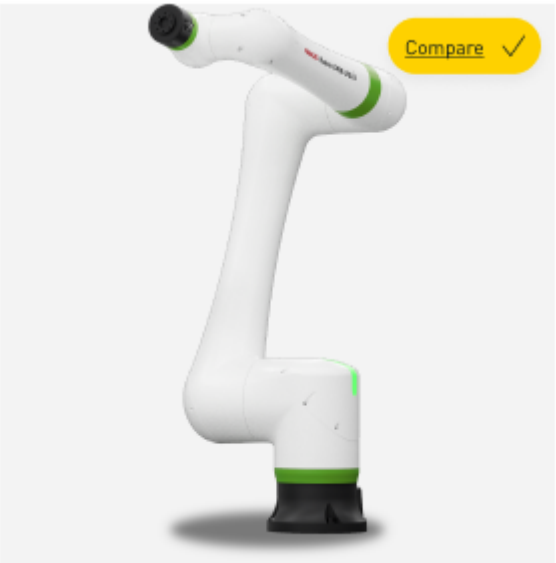
2. First button click adds the product to the comparison ribbon and it will look the same as on the listing pages:



3. Second click on the button will remove the product from the comparison ribbon and it will return to the previous state visually.

3.2.3 Mobile view and behavior

The buttons in mobile view have the same behavior as the ones on the desktop view.

3.2.4 Comparison buttons on Product item page, Listing pages, Search and Related products paragraph

The product item page will have a Compare button. The button is consisted of the following elements, and they will behave as follows:

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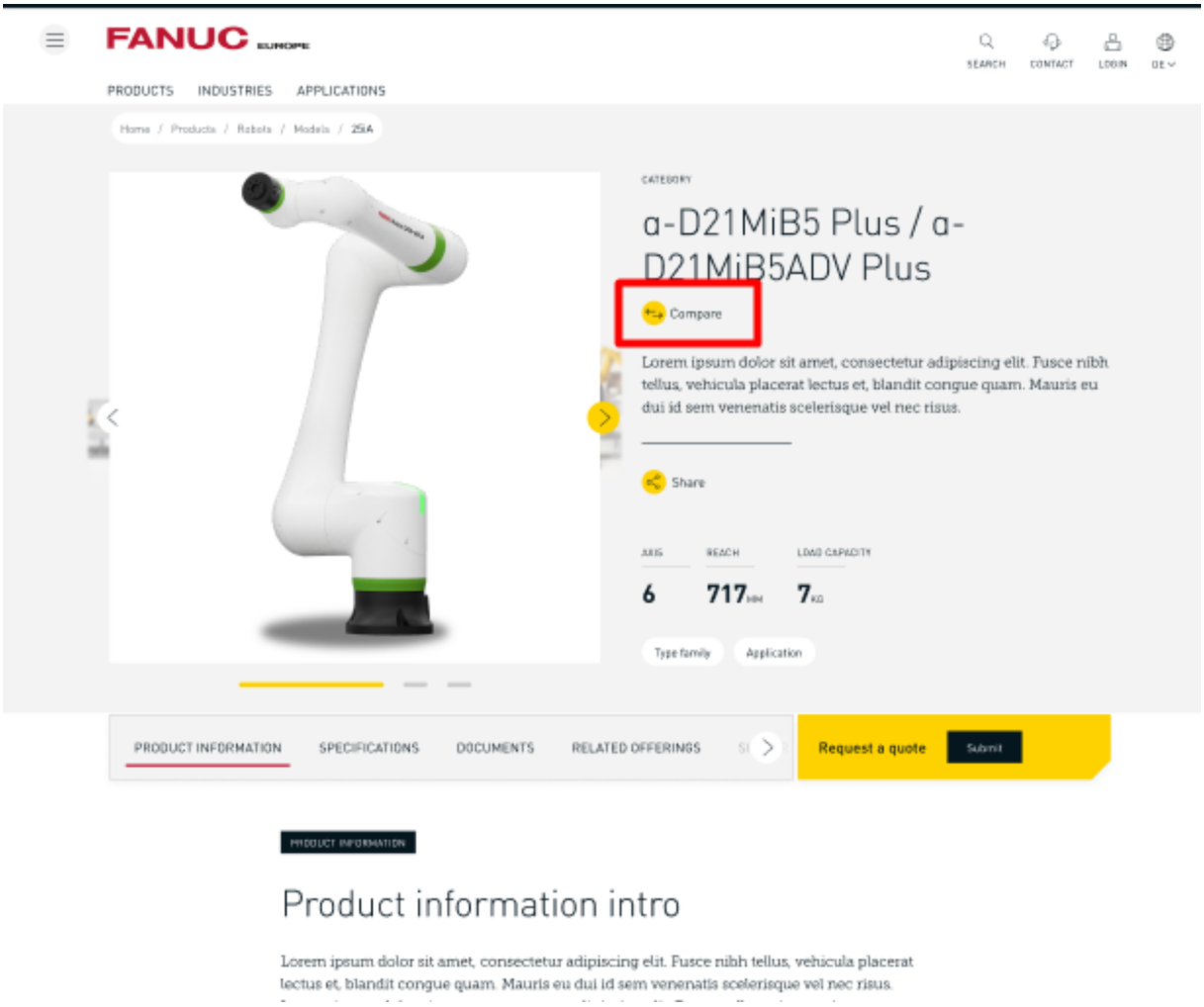
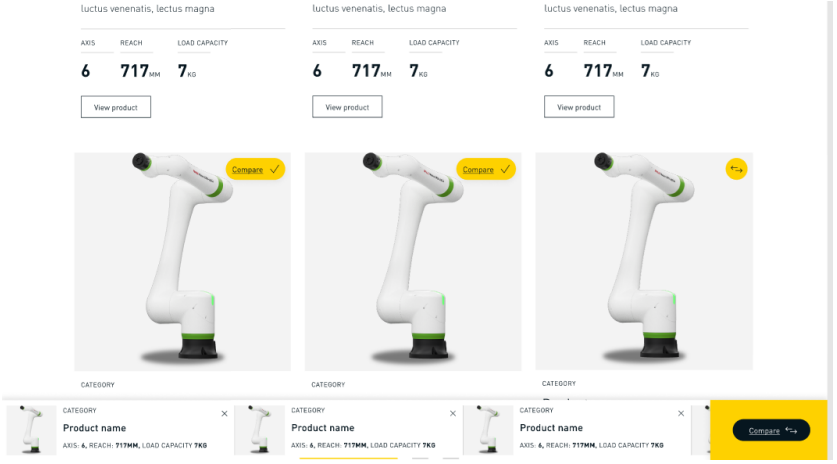


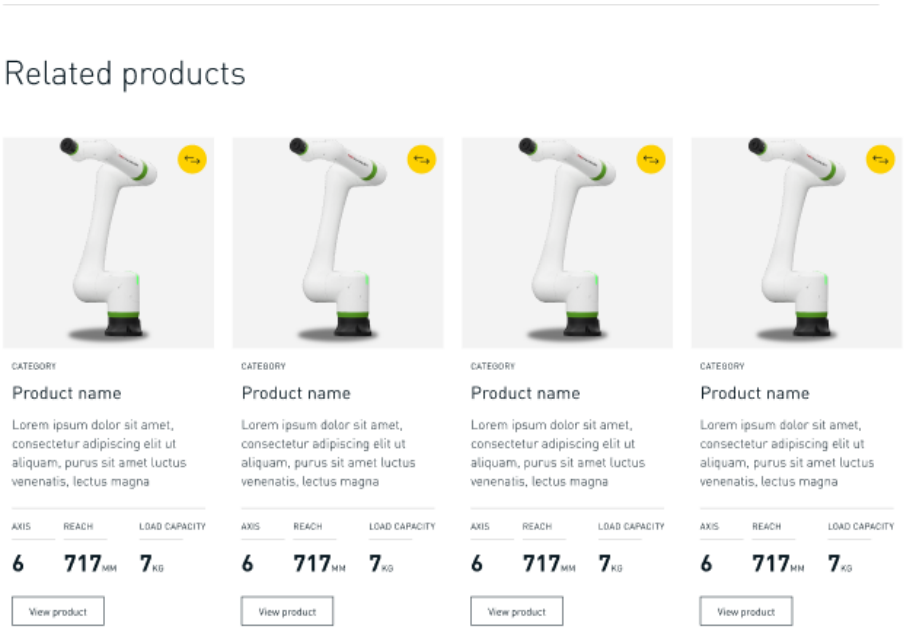
1. Button click will add the product to the comparison ribbon.
2. Second click on the button will remove the product from the ribbon.

The button will behave in the same way in terms of functionality on the listing pages and paragraphs as well:

1. Product listing pages and search:



2. Related products paragraph:



4 Comparison features

Product comparison functionality will consist of 2 main features:

1. Comparison ribbon
2. Product comparison page

4.1 Comparison ribbon

The Comparison ribbon will show at the button of the screen in case the user adds at least one product in it. The ribbon will appear on all pages if there are items in it, until the user decides to clear it. The ribbon will be consisted of the following elements:

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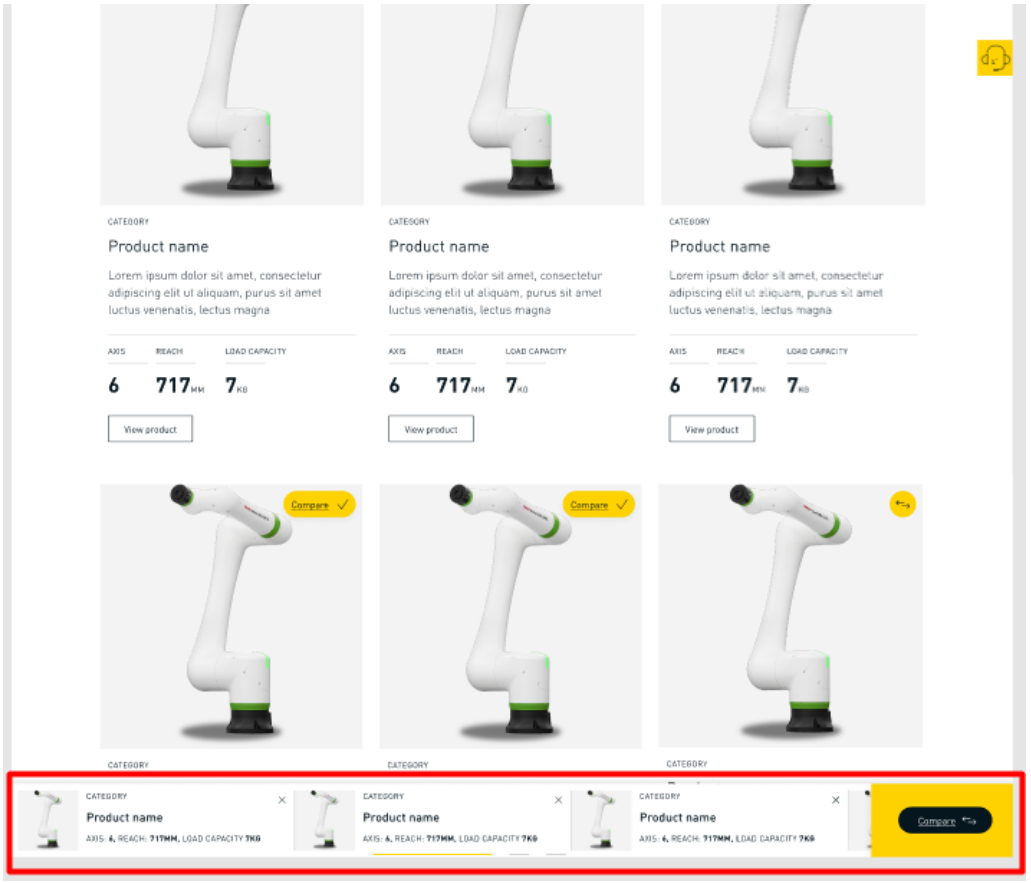
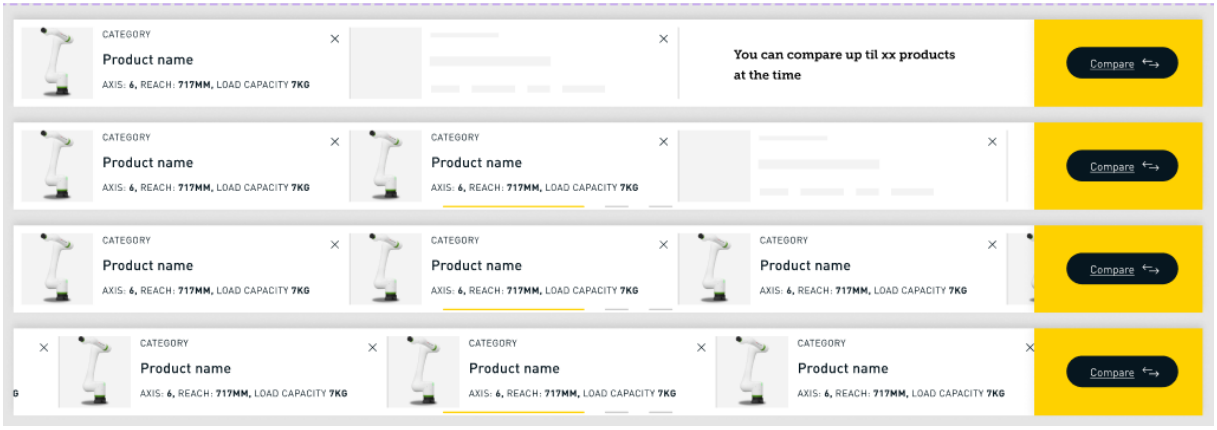


The ribbon will be consisted of the following elements (different states of the ribbon with 1, 2 or more items is shown in the image below):



1. List of items – the user will be able to add unlimited number of products, where each one of the items will be presented with:
   a) Product image – the first image set for the product (weight 0).
   b) Product category / family
   c) Product name – title of the product fetched from the administration. What happens if the products have longer names than shown in the design? What should be the expected behavior?

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d) Product featured attributes – products have different main characteristics displayed. Some of them could be with longer names. What happens in this case? My suggestion is to remove this from the design.
e) “Remove button” – by clicking on the remove button the product is removed from the ribbon.

2. Info text – the info text appears in case the user has not filled 2 slots. The text should be managed from the administration and needs to be added as translatable string.
3. Slider indication – since the number of items that can be added in the ribbon is not limited, the ribbon will act as a slider. Slider indicator will appear at the bottom of the ribbon, which will be clickable. Should it work with mouse scroll on hover of the ribbon?
4. “Compare” button – by clicking on the Compare button the user is transferred to the Comparison page. If more than 3 products from certain product family are selected in the ribbon, only the first three selected will be displayed on the comparison page. Would it be possible to limit the number of items added per category / family? If yes, what would be the easiest way to do that – in example to have a pop up message that will inform the user that the maximum number of items is exceeded?
5. “Clear” button – the Clear button will remove all items from the ribbon and the ribbon will disappear. This is not in the design, but it would be a nice feature to have from user perspective, instead of closing the items one by one. Should this be added?

We need to discuss closing of the ribbon – to disappear from the bottom of the page. Will it be:

1. When all items from it are removed.
2. If we add a “Clear” button, will it clear and close the ribbon?

Order of items in ribbon

When a product is added in the ribbon the last item added will appear first in the ribbon list, so that the user can see the product is actually added in the ribbon, when there are a lot of items already selected in it.

4.1.1 Mobile behavior

We need to discuss this, as we have only the following in the design:

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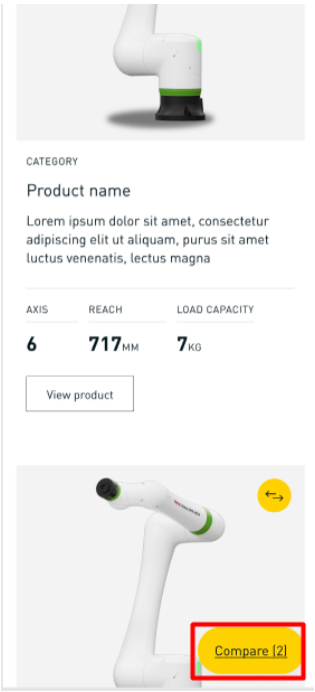

If this button goes directly to the comparison page, the user will only see the number of items selected, but will not be able to see the items themselves until it lands on comparison page. Possible problems if this remains like this: the user will not have possibility to clear the items from the ribbon and hide it. Once items are added they will only be able to clear them from Comparison page, listing pages, or item pages of the products.

4.2 Products comparison page

The Products comparison page is the last step of the user journey, where the actual comparison of the products based on selected criteria happens. The page is accessed by clicking on the “Compare” button from the ribbon. Once clicked the products that were selected for comparison in the ribbon are distributed through different product families, which are accessed through Product family’s navigation bar on the page. Only products from the same family can be compared, as they share same type of attributes.

Products comparison page is consisted of the following elements:

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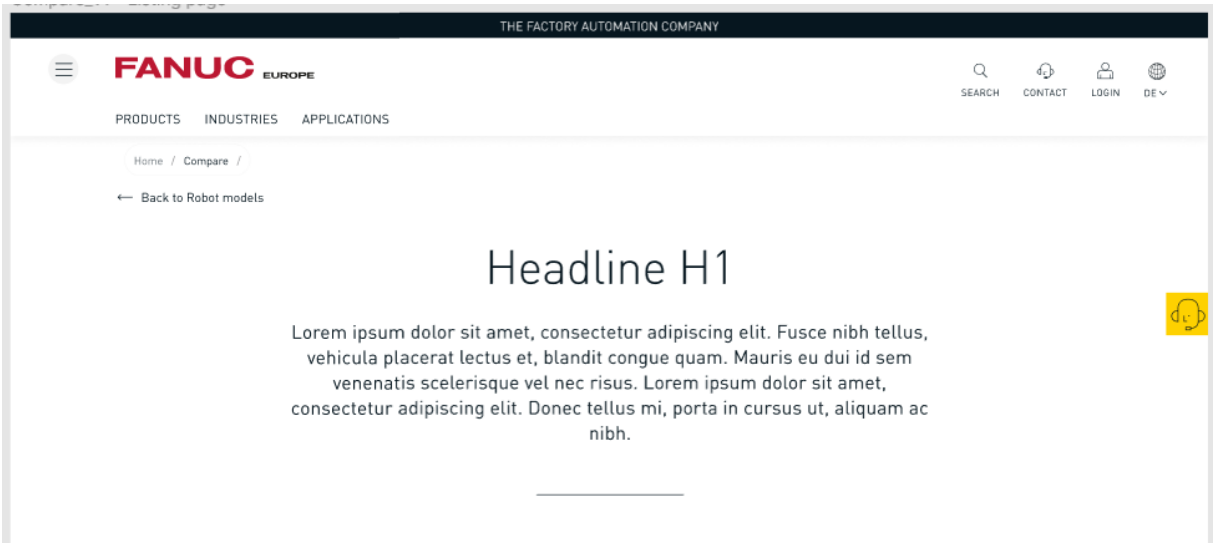
4.2.1 Header section



1. Back to listing page – by clicking on the link the user is taken to the related Product family listing page from where they can select more products for comparison.
2. Headline – title of the page.
3. Summary – summary of the page.

4.2.2 Comparison section

The comparison section shows the products divided in different families to compare, where maximum of 3 products per family can be compared. The section is consisted of:

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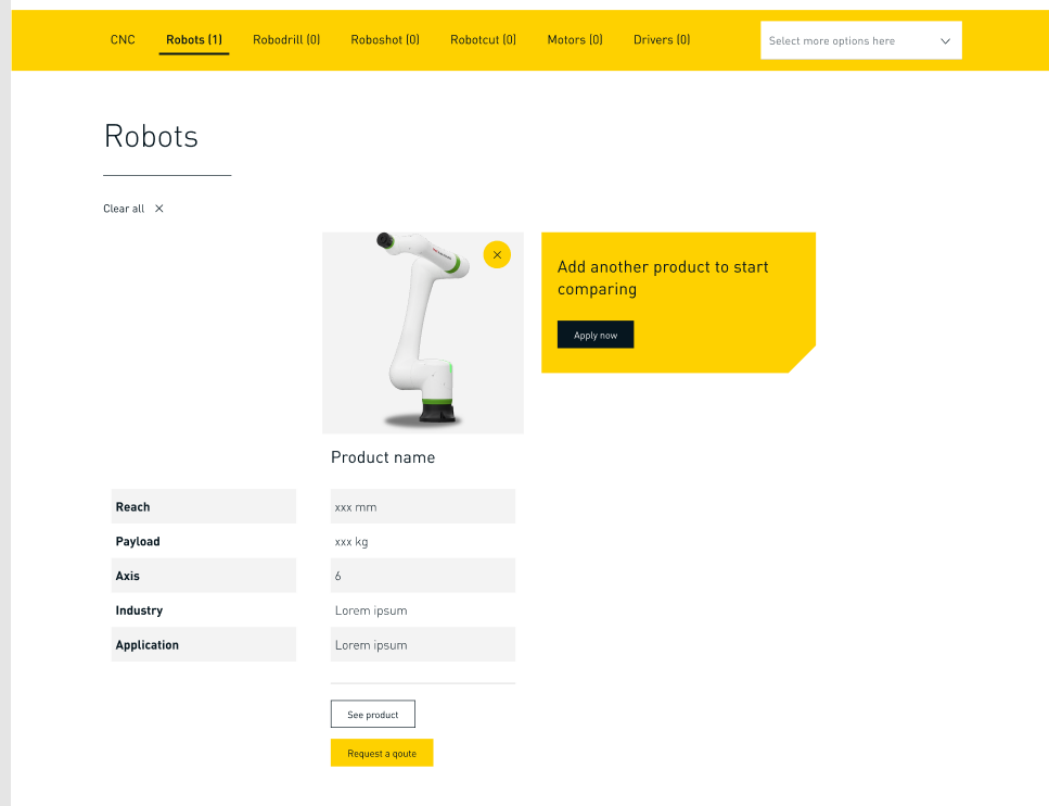

1. Product family navigation – the navigation contains links from all Product families available on the site, through which the user can browse and compare products. If the bar is not wide enough to display all options, the ones remaining can be selected from the dropdown called “Select more options here”. Isn’t it better to make the bar as slider, as on the mobile design?
2. Product family – fetched from the Product type / family title field from the administration.
3. “Clear all” button – by clicking on the button the list of the products in this product family is cleared entirely. This action also removes the selected products that are in the ribbon. Should this link clear all products from the page and the ribbon, or should it clear just the one from the selected family? Should we also have a place from where we can clear all products in case this one is for the family only?

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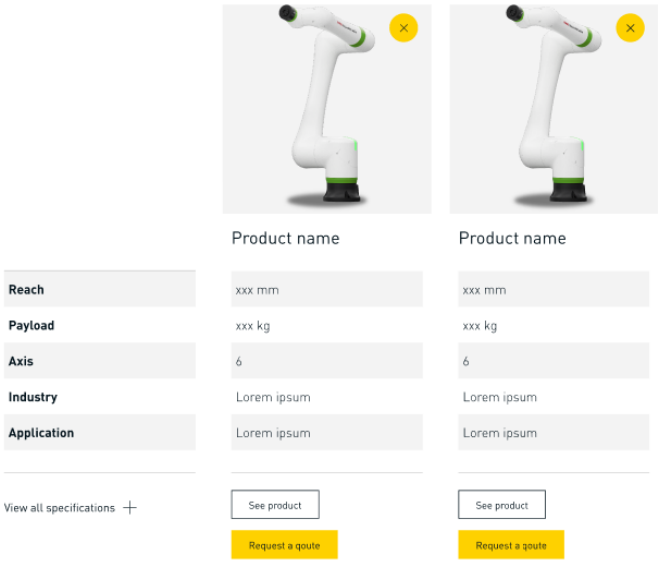
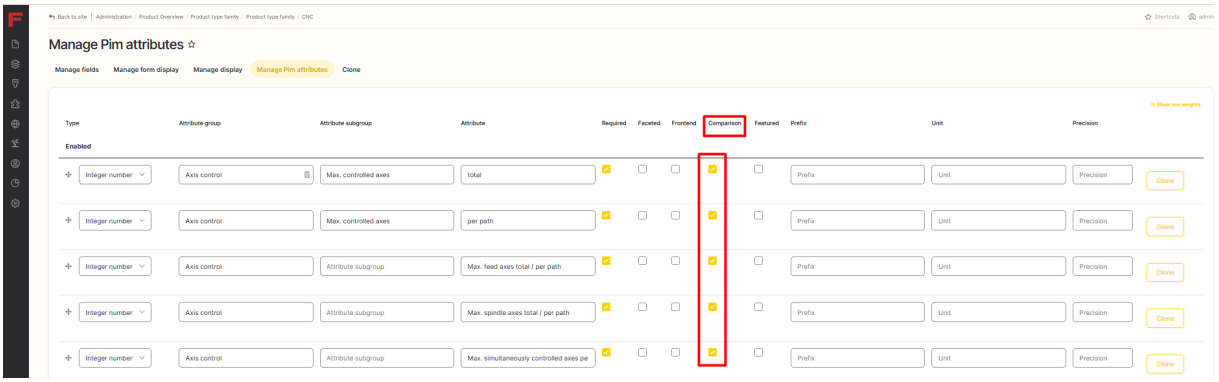
4. Comparison table – the comparison table is consisted of:



a) Comparison criteria – product attributes are used as comparison criteria. The labels of the attributes are shown on the left side of the table. The attributes according to which the comparison is done are decided from the PIM administration per Product type / family, by checkbox selection. Example link for CNS family: https://cms-dev.fanuc.ffwdev.com/eu-en/admin/pim/product/types/manage/cnc/pim-attributes



If there is no value for some of the attributes of the compared products, the value slot is left empty, but the table row does not disappear.

b) “View all specifications” – button click expands the table and shows all attributes for the product. The text will need to be added as a translatable string in the administration for both states “View all” and “View less”. The table will show 5 items by default when the user lands on the page for a first time.

c) Product items – up to 3 product items can be added per family for comparison. Each one of the items is presented with:
   - Product image – as multiple image can be added per product in the administration, the item needs to show the first one from the array list

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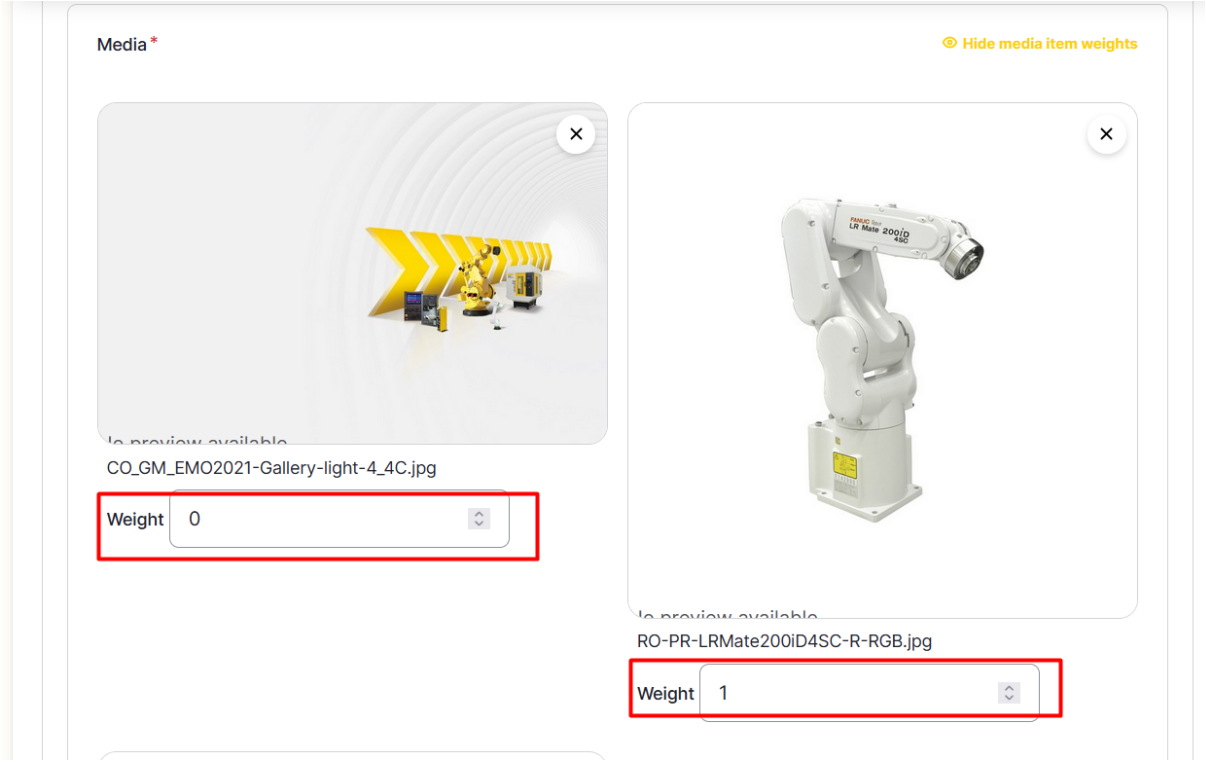
sent to React, which is based on the image items weight from the list:



- “Remove” button – by clicking on the button the product is removed from the table, as well as the ribbon.
- Product name – title of the product fetched from the administration.
- Attribute values – the values that are set for each product attribute used for comparison. The products that do not have values for certain attributes will display empty slots. The lines in the table need to expand if the text for some of the attributes takes up more than one line.
- “See product” button – the link placed on the button takes the user to the product item page.
- “Request a quote” button – the “Request a quote” button link and text are controlled from an “Anchor menu” paragraph added on the product through the administration: - Since this is added in a paragraph and not directly linked from the product item from PIM, are there any concerns

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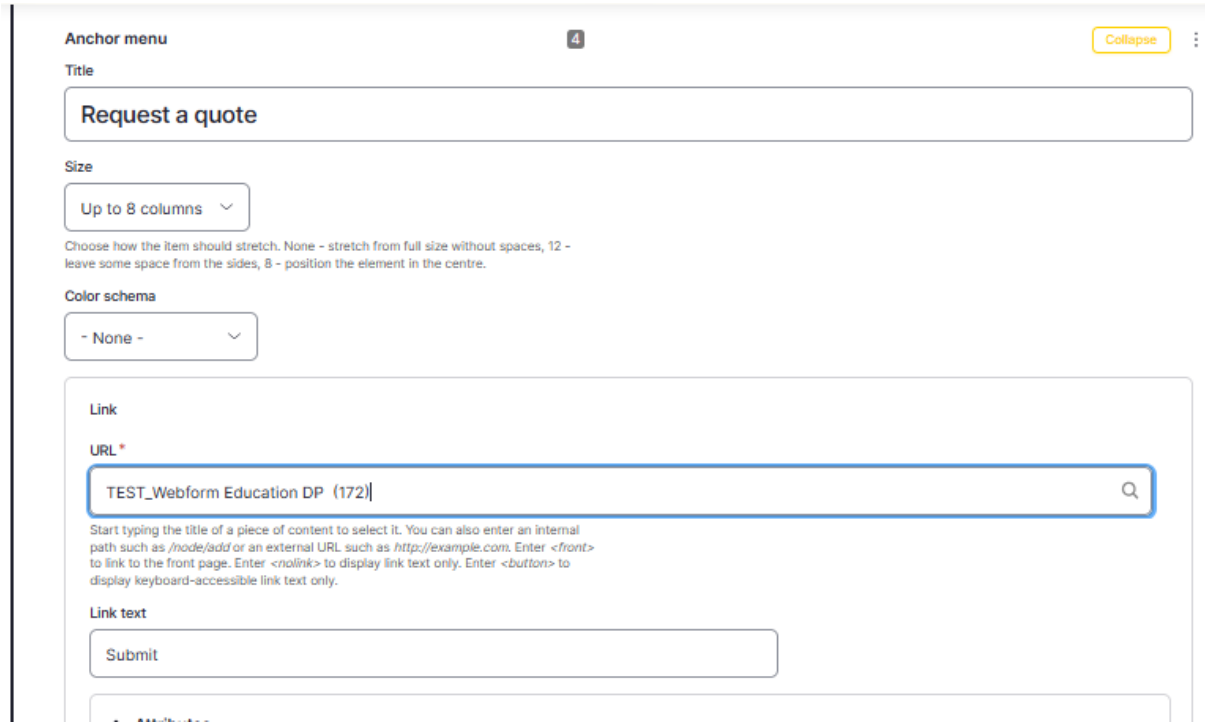
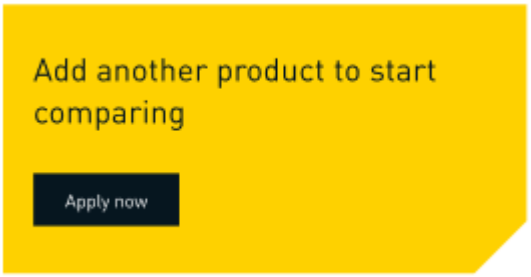
for the implementation from technical point of view?



d) "Add another product" element – this element appears only in case there are no products selected for certain category, or there is just one selected. The element is consisted of: - in terms of technical implementation, I don't know if it is reasonable to set this values in each one of the families in PIM, for example here, also having in mind that the texts should be translatable: https://cms-dev.fanuc.ffwdev.com/eu-en/admin/pim/product/types/manage/cnc



- Text – should be defined and translated in different languages through the administration.
- Button text – should be defined and translated in different languages through the administration.
- Button link – the button link is either defined in the administration for each product family listing page, or if not possible, it needs to be set manually for each family.

4.2.3 Related products section

Related products will have the same look and feel as the Related products paragraph that is used on Product item pages and throughout the site:

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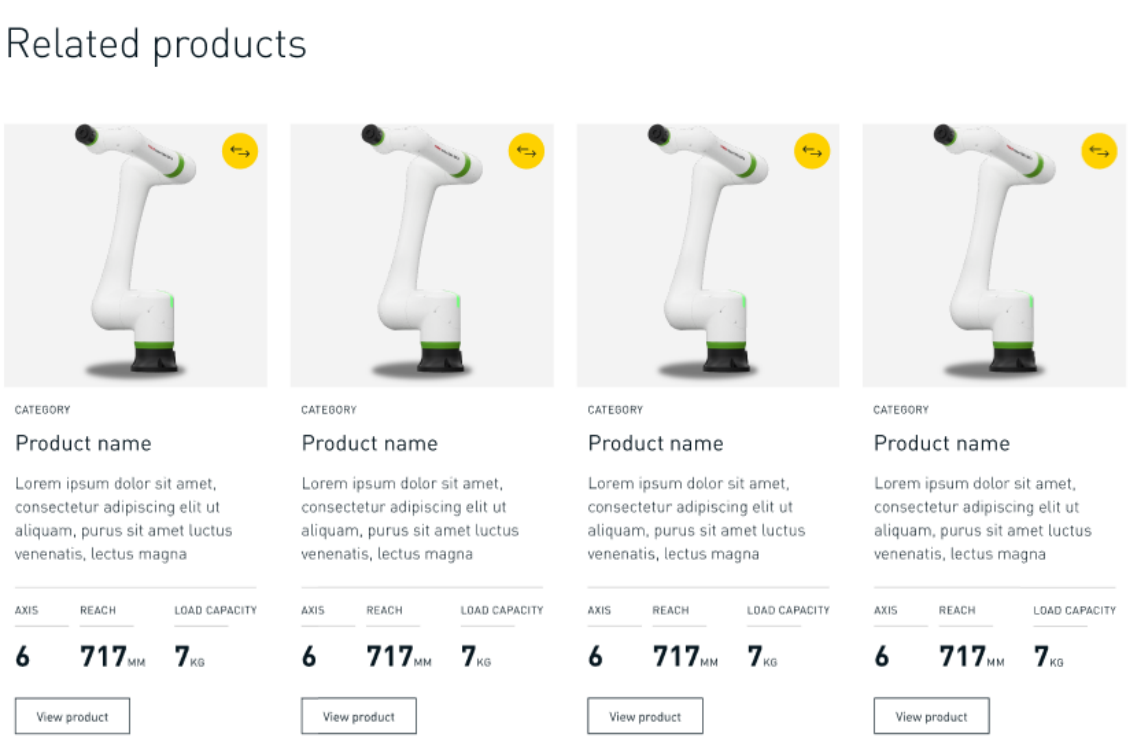
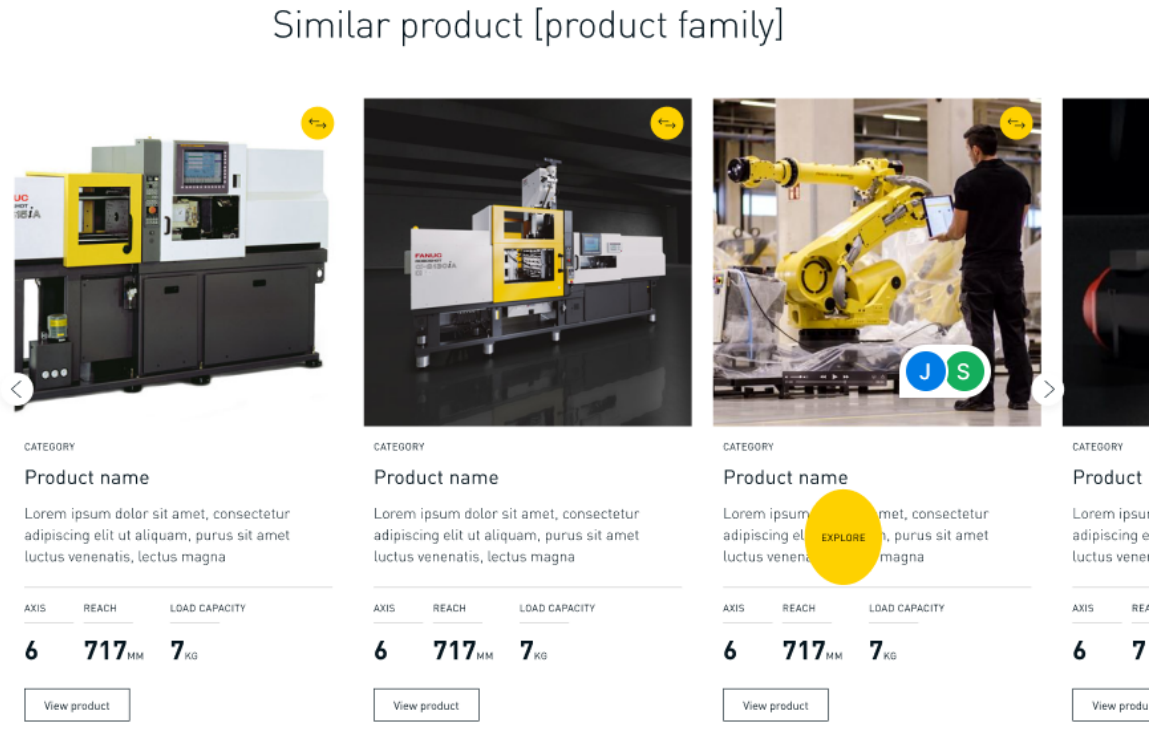


The difference is that the content should be pulled out automatically and it needs to be per product family. I think it is better to do this one as slider instead, like here:



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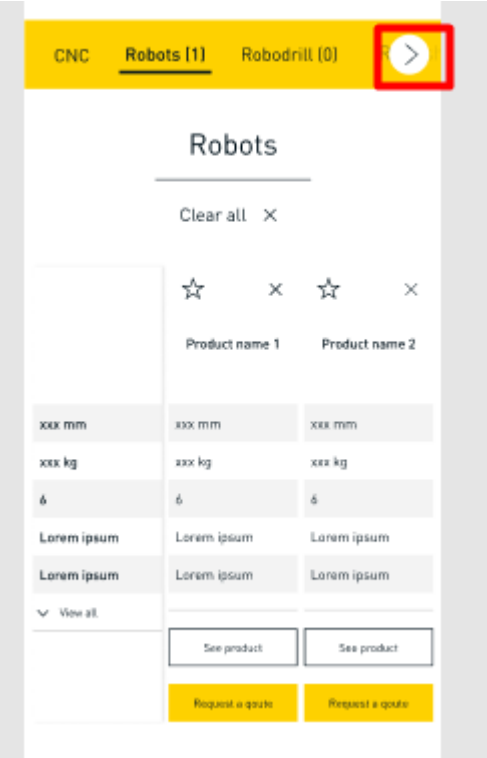
4.2.4 Mobile view and behavior

The functionality described above for the desktop behavior of the Products comparison page is the same as the one for the mobile page, with some different design specifics, which are outlined here:

1. The navigation bar will work as slider for the user to be able to browse through all of the items:



2. The left side of the table displaying the labels of the comparable product attributes will be fixed positioned. The right part of the table where the products and values for the attributes are displayed will have horizontal scroll.

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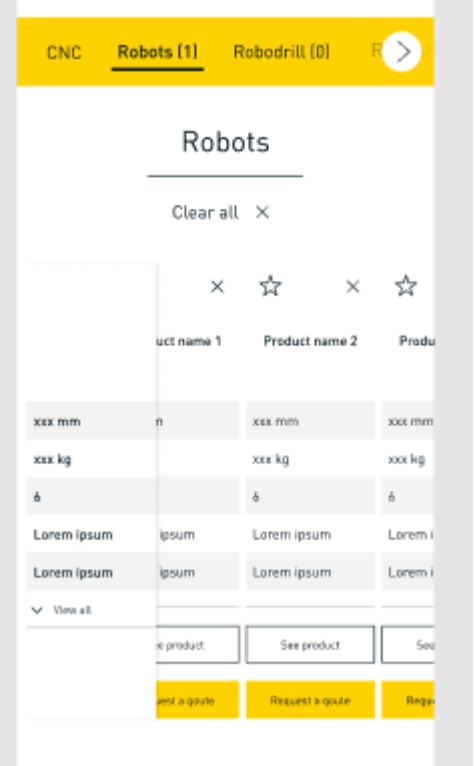

3. Products will only be displayed with the product names and “Remove” button. We need to remove the “Favorites” (star) from the design. We don’t have such feature in the scope.
4. Related products will be displayed as slider (mentioned that maybe we need to change that on desktop as well) with horizontal scroll.

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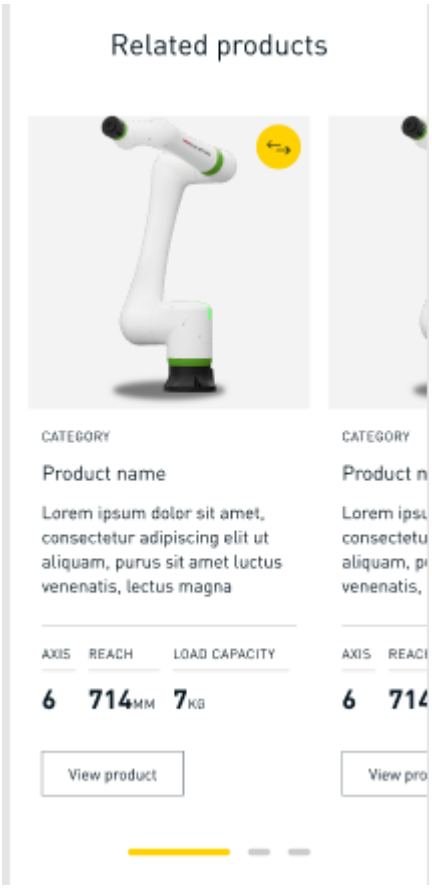

5 Useful information

The design of the elements and pages used for Comparison functionality can be found here:

https://www.figma.com/file/4KDcnI5rcULRxcOpPsI2FE/Design-system-FANUC?node-id=22%3A69

1. “Sprint 3 – Listing pages” section contains:
   a) Product listing pages
   b) Search pages
   c) Comparison ribbon design
   d) Product comparison page
2. “Sprint 4 – Detail pages” section contains:
   a) Product item page with the compare button.

For Marjan: Discuss with the technical team about adding products for comparison on the Comparison page itself.

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