

Training Article Designer: Article construction with carcass and front



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Creation Date: 19.08.2019; Last change: 30.01.2020

Used Version: imos iX 2019 SR1



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1. Introduction

Objectives of this exercise



- Repeat the content from the previous exercises
- Create and set a base panel
- Construction shelf with clothes rail
- Horizontal cross rails
- Set drawers and doors
- Change the pull position
- Global saving of modifiers
- Change the pull position by data setup

The abbreviations used

- **CP** Construction Principle
- PD Part Definition
- ADG Article Designer Group
- **_Customer** This abbreviation is applied for naming folders in the data system. Replace this term with your firm's name on your own system, e.g. "_Miller"
- _C_ Set in the name of data objects instead of "_C_" e.g. "M_" for "Mil-Ler" to mark the data object as your own.
- 3-Point-Button

Preparation

Prior to this exercise, please **turn off** the **Article Mode**. You can find the button in the AutoCAD status bar.

Article Mode active:



Article Mode **inactive**:





2. The Article Designer

Details on how to implement points 2.1-2.3 are in the exercise "Create and divide articles".

2.1 Start the Article Designer

Open the tab "Article Designer" and click on the button "Top View". Now you are in the Article Designer.

-SV 🗄 🚍 🖥	🔒 🛃 🧧 🕐 🇱 lon	novation	👻 🍷 🌞 🚮	0
VY System	Room Main Data	Article Designer	Object Designer	Part Designer
Top View	S Modify Article Refresh Article Replace Article	 Move article Stretch article Stretch article lin 	Article-rela e <mark>\$</mark> Order-rela	ated Variables ted Variables
Article Designer 🛛		Article		

2.2 Save the article

First save the article under a new name.

Description	0

Enter an article name and end the process with

2.3 Define size of the article

Define the size of your article.

In order to do this, set the following dimensions (in mm): H: 2000 W: 1000 D: 560

 \sim

			\times
Height	Width	Depth	
2000	1000	560	



3. Create and assign parts

3.1 Top shelf

By double clicking once on the top shelf symbol, a CP for the top shelf is inserted in the ADG.



The CP "**CP_1_TSI_1000_C1**" is automatically assigned by the program. However, for the cabinet an onset top shelf is required on which 1, 2 and 4 edges are edge banded.

Ω

In the exercise "**Construction Principles**" you have already created a CP with these attributes. Assign this CP "_C_1_TSO_1101_C1" to the top shelf. For this purpose, open the dropdown list in the settings of the top shelf and select the desired CP.

1		
Part		
✓ Top Shelf	C_1_TSO_1101_C1 🗸	
Part Thickness	C 1 TCO 1101 C1	_
	C 1 TSO 1111 C1	ć
	CP_1_TSI_1000_C1	
Outline Geometry from Pa	art Definition	

Тір

If you do not find the desired CP in the dropdown list, look it up in the customer-specific folder structure of the Element Manager.

3.2 Side panels

3.2.1 Left side panel

Now proceed with inserting the left cabinet side.

The CP "**CP_1_LS_1111**" is automatically set for the outside panels by the program. However, for the cabinet you need side panels, which are edged on edges 1 and 4 (front and bottom), that means side panels with the edging code **1001** instead of 1111.Change to the Element Manager to assign the desired CP to the side panels.



0

Create a CP together with the necessary PD and save it in your personal folder. If necessary, follow the steps 1-17 below.

0

It might happen from time to time that you need to create new CPs and corresponding PDs.

The necessary steps 1-6 and 13-17 are in the list "Process for creating a CP and PD".

The steps **7-12** are <u>not important</u> in this example, because a PD with the corresponding attribute is available.

The process for creating a CP and PD

- 1. Select a very similar CP
- 2. Change the name of the selected CPs
- 3. Save the new CP
 - Now you have a CP with the desired name.
 - Now by selecting/ creating the correct PD, it is assigned to the required material.
- 4. Open the node Part Definition in the CP.
- 5. Click on the 3-Point-Button next to the value of the Part Definition.
 - Now you are in the previously assigned PD.
- 6. Select a very similar or if available the desired PD.
- 7. Change the name of the selected PD.
- 8. Save the new PD.
- 9. Change the attribute values (e.g. the profiles of the edges)
- **10.** Save the changed PD.
- **11.** Create (if necessary) a new directory.
- **12.** Drag your new PD in the correct directory.
- 13. Leave the Element Manager, in this case with "Apply".
 - Now you have created the required PD and the name of this PD has been assigned to the CP as an attribute value.
- 14. Save the changed CP.
- **15.** Create (if necessary) a new directory.
- **16.** Drag your new CP in the correct directory.
- **17.** Leave the Element Manager, in this case with OK
 - Now you have created the required CP and assigned it to the article.

3.2.2 Right side panel

Proceed the same way as above for the right side panel.





3.3 Bottom shelf

We need an **inset bottom shelf** with the edge code **1000**, i.e. a CP "**CP_1_BSI_1000_C1**" with matching PD.

Open the Element Manager via the 3-Point-Botton and create the CP and PD. Save the CP and corresponding PD under your name in your Folder structure and assign it to the shelf.

Please refer to the steps 1-3 and 15-17 of the procedure above whilst creating.

3.4 Back panel

To complete the top ADG, you still need a back panel.

Create your own CP for the back panel by saving the available one under the customerspecific name and assign it to the back panel in the ADG. (Steps 1-3 and 15-17 in the displayed process above).

After assigning the back panel, the top ADG of the cabinet appears as follows:



3.5 Base panel

Now a base panel is inserted in the cabinet.

For this purpose, select the top level of the article structure, the article name.

Closet Closet Article Designer Group Top Shelf : _C_1_TSO_1101_C1 Bottom shelf : _C_1_BSI_1000_C1

In the settings two tabs appear.

- Base settings to the article
- Base settings to the base panel





Open the tab Base (1).

Here all settings for the base panel as well as assigning base-CPs can be made. From the dropdown-list "**Base Construction**" – select the option "**Yes**" (2). Checkmark "**Inset base**" (3) in the option.

The program automatically sets a CP for the base panel (4).

	Base	1	
	Base Construction:	Yes	~ 2
	Toenotch:	No	~
3	🔽 Inset base		4
	Toekick	BA_1_FIN20_F_S100	×

To use your own CPs for the base panel, change to the **Element Manager**. For this purpose, use the 3-Point Button.

Select a **100mm high** toe kick (1) under **Getting Started / Base with fix height**. Customize the name of the CP (2).



... and save the new created base-CP.

Then create a customer-specific folder and move the base-CP to this folder (Steps 1-3 and 15-17 in the displayed process in chapter 3.2.1).





Define whether the base height should be added to the height of the cabinet or not in the Article Designer. Under "Base Height Compensation", select the option "Scale all zones".

Toekick	_C_1_FIN20_F_S100 ~
Base Height Comp	ensation
Scale all zones	~
E	

Hint

"Scale all zones"	\rightarrow The cabinet height of 2000mm remains
"Increase total height"	\rightarrow The base height of 100mm is added to the cabinet height
	of 2000mm. The total height is then 2100mm.

3.6 Divider

Now you can continue with inserting the divider. Select the entry **Divider / Drawers** in the ADG.



Next make the following settings:

Division:	
Part type:	

Partitions / Side Panels Partition

A CP with an edge on the front side (edging code **1000**) is required for the divider.

First, change via the 3-Point Button next to the value of the **CP-Divider** to the **Element Manager.**

Follow the steps 1-3 and 15-17 of the procedure displayed in chapter 3.2.1 to create the CP "_**C**_1_**PA_1000_C1**" and a matching PD. Apply the next CP and return to the Article Designer.

You can now enter First Linear Division of 1:1.





Divider	
Part type	Partition ~
CP Divider	_C_1_PA_1000_C1 ~
Part Thickness	19.00
Manufacturing Information	×
Options	
Options Definition Type	Perpendicular 🗸
Options Definition Type Angle	Perpendicular ~
Options Definition Type Angle First Linear Division	Perpendicular ~ 0 1:1
Options Definition Type Angle First Linear Division Second Linear Division	Perpendicular 0 1:1
Options Definition Type Angle First Linear Division Second Linear Division Dimension Reference	Perpendicular
Options Definition Type Angle First Linear Division Second Linear Division Dimension Reference © Zone	Perpendicular ✓ 0 1:1 ↓ ↓

Thereby, all necessary settings for the divider have been made.

3.7 Setup of the right cabinet part

3.7.1 Fixed shelves

In the right ADG, two fixed shelves and one adjustable shelf are required.



The CP "**CP_1_FS_1000_C1**" is automatically assigned to the **Divider**. To select / create a suitable CP and PD, change to the **Element Manager**.

Divider		
Part type	Fixed Shelf	~
CP Divider	CP_1_FS_1000_C1	~



Use the CP "_C_1_FS_1000_C1_FIN20" created in an earlier exercise. Don't forget to rename and save the PD in your personal folder as well.as assign it to the CP and use the new CP in your construction.



In the Article Designer enter the First Linear Division for the fixed shelf:

450mm:1:360mm and confirm with "Enter"

The article appears in the graphical preview as follows:

_		
Division		
Shelves		
O Partitions/Side Panels		
O Article zone		
O Independent division		
O DWG File		
Divider		
Part type	Fixed Shelf	\sim
CP Divider	_C_1_FS_1000_C1_FIN20 ~)
Part Thickness	19.00	
Manufacturing Information	~	
Outline Geometry from P	art Definition	
Outline Geometry from P Options	art Definition	
Outline Geometry from P Options Definition Type	art Definition	~
Outline Geometry from P Options Definition Type Angle	art Definition	~
Outline Geometry from P Options Definition Type Angle First Linear Division	art Definition 0 450mm:1:360mm	~
Outline Geometry from P Options Definition Type Angle First Linear Division Second Linear Division	art Definition 0 450mm:1:360mm	····
Outline Geometry from P Options Definition Type Angle First Linear Division Second Linear Division Dimension Reference	art Definition 0 450mm:1:360mm	····
Outline Geometry from P Options Definition Type Angle First Linear Division Second Linear Division Dimension Reference Total	art Definition 0 450mm:1:360mm	····





3.7.2 Adjustable shelf

The next step is to define the adjustable shelf. It is placed between the two fixed shelves.

Select the entry **Divider/ Drawers** in the (just created) **middle ADG**.

Afterwards make the following settings:Division:ShelvesPart type:Adjustable shelf

The CP "**CP_1_AS_1000_LR05_FIN20**" is automatically assigned.

Create and apply the needed CP and PD on your own.



Now enter the First Linear Division "1:1" for the adjustable shelf in the Article Designer.

3		
Division		
Shelves		
O Partitions/Side Panels		
○ Article zone		
Independent division		
O DWG File		
Divider		
Part type	Adjustable shelf	\sim
CP Divider	_C_1_AS_1000_LR05_FIN: ~	
Part Thickness	19.00	
Manufacturing Information	~	
Outline Geometry from P	art Definition	
Options		
Definition Type		\sim
Angle	0	
First Linear Division	1:1	
Second Linear Division		
Dimension Reference		
Zone		
O Part		





3.8 Cross rail

Later in the exercise inset doors will be set up. Now a cross rail is set up under the top shelf so that these doors have a stop.

First open the relevant ADG.





Next, insert a **top shelf** in the ADG.



Part
Part
Top Shelf
Part Thickness
19.00
Manufacturing Informati
Outline Geometry from Part Definition
Add Machinings

Change to the **Element Manager** to select a cross rail as a CP (1).

Select the CP "CP_1_HRI_1010_DO_FIN20".



HRI: Horizontal Rail Inset DO: Dowel

... and change the name to "_C_1_HRI_1010_DO_FIN20".

~	🗎 Rails
	🔟 CP_1_HRI_1010_C1
	<pre> [] CP_1_HRI_1010_C1_BIN20 </pre>
	🗊 CP_1_HRI_1010_DO
	DCP_1_HRI_1010_DO_FIN20

Save the new CP in your folder structure:

Top Shelves
✓ ⊙ Top Shelves
~ 🗎 _Customer
> 🗋 Onset
_C_1_HRI_1010_DO_FIN20

Hint

It is not necessary to change the front inset in the master data. The front inset is automatically fit to the door's material thickness.

Create the user-specific PD "_C_1_RA_1010" and assign it to the CP. Add the CP to your construction.

3.9 Setup of the left cabinet part

The left cabinet part contains 3 drawers which are covered with a fixed shelf and a fixed shelf with a clothes rail.

3.9.1 Drawers

First create an insertion zone for the 3 drawers by inserting a fixed shelf. The **fixed shelf** is set **450mm above the bottom shelf**. For this purpose, use a CP without a front reveal (if necessary, create this CP the same way as described in the examples before).





3	
Division	
Shelves	
O Partitions/Side Panels	
O Article zone	
O Independent division	
O DWG File	
Divider	
Part type	Fixed Shelf ~
CP Divider	_C_1_FS_1000_C1 ~
Part Thickness	19.00
Manufacturing Informatic	· · · · · · · · · · · · · · · · · · ·
Outline Geometry from Pa	art Definition
Options	
Definition Type	~
Angle	0
First Linear Division	450mm:1
Second Linear Division	
Dimension Reference	
Zone	
OPart	



For inserting the drawers, open the ADG on the bottom on the left side. Select the entry **Divider/Drawers** (1) in the ADG.



Change to the second tab "**Drawers**" (2) to make the settings for the drawers. Here the settings of the drawer can be defined.

In the text field enter "1:1:1" (3) to set up three drawers of the same size. Close the entry with **Enter**!

) 🗐 Division 🗹 Enab	(Gap:Front le Front De	:Gap 2)	
	Gaps		3
1:1:1			
	Height	Principle	Parameters
-		2_Side_Frame	
-		2_Side_Frame	
-		2_Side_Frame	



Hint

The entry "1" sets one drawer.

In accordingly larger insertion zones multiple drawers can be inserted as well.

For example, relative divisions 1:1; 1:1:1; 2:2:1,100mm:100mm:1 etc. are also possible for inserting several drawers in an insertion zone.

The construction of the drawer and the fittings are defined by a Construction Principle. The program automatically sets the CP "**2_Side_Frame_System_1**".

Create your own CP "_C_2_Side_Frame_System_1" and apply it to all three drawers. To do so, click in a line with the CP and open the **Element Manager** via the 2-Point-Botton (4).



Hint

The process of creating drawer CPs it the same as for every other CP. Select a similar CP (5), customize it (6) and save the changes (7) and move it to your userspecific folder structure (8).



Leave the Element Manager by clicking "Apply".



To assign the CP to all three drawers, you can use the drop-down-menu.





You can now make further settings for the construction. Select for the **Construction** the option **Inset** from the dropdown menu.

Construction	
Inset	~
Type of Construction	
Max. utilization of space	~

Thereby, all necessary settings for the drawer have been made.

The graphical preview displays the article as follows:



3.9.2 Fixed shelf

You now need a fixed shelf in the top left zone. Open the related ADG.







Select Divider / Drawers in this ADG.

Apply the settings displayed on the right and set a **linear division** of **1:360mm**.

Select a fixed shelf with 20mm front reveal.

Pick the according CP from the drop-down-list.

Fixed Shelves
Y
Fixed shelves
~ 🗎 _Customer
🛃 _C_1_FS_1000_C1
🗃 _C_1_FS_1000_C1_FIN20

۲	
Division	
Shelves	
Partitions/Side Panels	
O Article zone	
Independent division	
O DWG File	
Divider	
Part type	Fixed Shelf V
CP Divider	_C_1_FS_1000_C1_FIN20 ~
Part Thickness	19.00
Manufacturing Informatic	×
Outline Geometry from Pa	art Definition
Options	
Definition Type	~
Angle	0
First Linear Division	1:360mm
First Linear Division Second Linear Division	1:360mm
First Linear Division Second Linear Division Dimension Reference	1:360mm
First Linear Division Second Linear Division Dimension Reference Sone	1:360mm

The article should now look like this:





3.9.3 Clothes rail

A Clothes rail is a SPP (Stretchable Purchased Part). The CP brings a virtual shelf to which the clothes rail is attached.

To integrate a clothes rail into the closet, a virtual shelf attached SPP is required.

Open the lower, in the previous step created ADG.

🖃 🚝 Divider / Drawers
🚊 🕂 🦵 Article Designer Group
🗇 Empty
🗇 Empty
🗍 Empty
🗇 Empty
🗍 Empty
(III) Empty
🖃 🚝 Divider / Drawers
🗄 🖵 🕞 Article Designer Group
🞰 📻 Article Designer Group
🗄 🗝 📑 Article Designer Group

...and insert an adjustable shelf with the CP "CP_AS_RA_30x15".



Rename the CP and save it in your folder.

some space to the shelf above.

3	
Division	
Shelves	
O Partitions/Side Panels	
○ Article zone	
Independent division	
O DWG File	
Divider	
Part type	Adjustable shelf \checkmark
CP Divider	_C_AS_RA_30x15 ~
Part Thickness	19.00
Manufacturing Information	· · · · · · · · · · · · · · · · · · ·
Outline Geometry from P	art Definition
Options	
Definition Type	~
Angle	0:1
First Linear Division	1:80mm
Second Linear Division	0:1
Dimension Reference	
Zone	
O Part	

Enter a First Linear Division of 1:80mm to give



Hint

The clothes rail is part of the PD.

You can find the entries for the clothes rail under the node "**Default Settings**" in the **Part category.**

Click on the 3-Point-Button and enter the dialog for the definition of single parts and multi parts elements

🖆 Multi	i Parts		
General	Construction Points	Intersections	Stretchable Purchased Parts
ŧ			X: 700
<mark>S</mark>	PP_HE_RA_30x15		

Name Value		
✓ Default settings		
Category	Adjustable Shelf	~
Part category	Multiple Part	

The settings regarding the clothes rail can be found in the tab "Stretchable Purchased Parts"

This dialog will be explained in detail in a
 later exercise.

3.9.4 Cross rail

Set up the same cross rail on the left as you did in the right part of the closet.







3.10 Doors

3.10.1 Door in the left cabinet part

In the left part of the cabinet insert an inset door above the drawers.

Select the top ADG of the left side of the article.





Assign a door CP by double clicking the door symbol.

The CP "CP_SDO_H_PM_FD" is automatically set.

- SDO: → Single Door Onset
- H: → Hinge

•

•

- → Pull Middle PM:
- FD: \rightarrow with Front Definition

Name rules for door-CPs: SDO

SDI

DDO DDI н •

PT

Single Door Onset
Single Door Inset
Double Door Onset
Double Door Inset
Hinge
Pull Top

- PM Pull Middle
- PB Pull Bottom
- FD Front Definition •



As this door is onset, we need to change the CP to an **inset single door**.

Change to the Element manager and choose a suitable CP for an inset door with a pull in the middle (1).

Change the name to "_C_SDI_H_PM_FD" (2) and save the CP in your own folder (3).









3.10.2 Door in the right cabinet part

In the right cabinet part insert an inset single door as described in the previous chapter as well. However, this door is inserted over the complete height of the cabinet.

Use the just created CP also for this door.

As this door has the stop on the right side, set the **stop on right** on the register **part** in the settings of the AD.

Divider / Dr Divider / Dr Article I Divider / Dr Em; Em; Em;	awers Designer Group oty oty oty		4-1
	oty or: <u>C_SDI_H_PM_FD</u> oty ider / Drawers Designer Group		
Eement © Door Side Panel Adder Panel Back Empty	O Folding and sliding door		
Part Door Part Thickness	_C_SDLH_PM_FD ✓ 19.00 ✓		
Part Orientation ✓ Edge 1 ✓ Reference Edge Orientation ✓ First Element for Division			
Second Element for Divis Drawer elements First Drawer Element Last Drawer Element	sion		
Hinged/Attached to Oleft ight	🔿 Default		

Hint

The hinge side of a door is defined via the CP.

Here the **hinge** for a single door with right or left can be defined in the node **Construction**. If "default" is set in the Article Designer, then the data object, in this case, the door-CP with hinge, set in the CP, is used.

Name	Value	
> Default settings		Î
✓ Construction		
Construction	Inset	~
Filler		
Hinged/Attached to	Left	~



Hint

In the Element Manager you can find right and left hinged doors. Those door CPs are used for the article configuration via an XMLcatalogue. In this case, not only the hinged side is switched but the complete CP is exchanged.



4. Set up the Article

Before setting the article in the drawing area, do not forget to finally save.

Leave the Article Designer by clicking on and now you are in the drawing area. Set up the article.





5. Change pull position

As both doors have different sizes, the middle set pulls are on different heights. Now change the pull position to place both pulls on the same height. Set the view on **Front**.





Select both pulls in the drawing. The Article Mode has to be **deactived**.



The two selected pulls are now listed in the imos Elements.





In the **imos properties** window you can find the "**methods**" when you click on the wrench symbol (1) then click on "**Change pull position**" button (2)



......change the Distance to be "**1050.00**" (3) and then click "**apply**" the right mark button (4).



Now your pulls are on the desired height and therefore the wardrobe is completed.



6. Save changed pull position

To **save** subsequent changes permanently, imos provides the option to save those modifications.

An article with modifications made (in CAD) can be recognized by the **wrench symbol** in the imos Elements under "**Global**" (Details).



When an article is selected, the modifications can be viewed in the tab with the **wrench**symbol above the articles list.

IMOS ELEMENTS	_
P 1 9 3	<u></u>
✓	
> 🍿 Pos. 001 Closet Arti	icle Designer Group

Select the **Closet** in the imos Elements and click on the tab with the wrench-symbol "**Mod-ifier stack**".

All modifications will be displayed.



To save the changes permanently, click on the "**Global save**" button and answer the following query by clicking "**Yes**".

IMOS ELEMENTS		
₽]۹	🐴 😂 Y 🦯	2
Name		
m 1: Change pull position		x
m 2: Change pull position		x
imos Transfer all order-specific and group-specific r for the article Closet?	nodifiers into the global re	cording
	Yes	No



If you search in imos Article Center for your article, you will notice that the **wrench symbol** appears at your article "Closet" in your article main data.

Articles, which contain saved modifications are documented this way.

IMOS ARTICLE CENTER		
	C ?	2
✓		
> 🗋 Variables		
m Bedside_Table		
Closet		
m Desk		
🅅 Shelf		
> 🗋 Bedroom		
> 🗋 Cutout articles		
> 🛅 Decoration		
> 🛅 Installation		
> 🛅 Kitchen		

Hint

It is also possible to save the changes to the article only **order-related**. For this it is necessary, that the order in which the article was changed is also saved.

If the order has not yet been saved, the symbol is greyed out and cannot be used (as shown in the screenshot on the right side).

ଞ <mark>ଞ</mark> _ୁ ବ୍ୟ	🧏 😂 \Upsilon	⊁∣?
Name		
m 1: Change pull position		x
m 2: Change pull position		x



7. Change pull position by data setup

In the previous steps the pull height was changed by a "**Modifier**". However, you should avoid working with modifiers.

The pull height also can be changed by your data setup. In the following steps you will see, how you can change the pull height by changing your data.

Initial situation:



Modify your article with the function "**Modify Article**". Pick your article with a click on the left mouse button.

After this the Article Designer opens.



Hint

When you select the door with the function "**Modify Article**", then the Article Designer automatically opens at the place where you planned the door.



Now you can open the construction principle of the door with a click on the 3-Point-Button.

🗊 🛃 🕸 🗊		
Element Door Side Panel Adder Panel Back Empty	○ Folding and sliding door	
Part Door	_C_SDI_H_PM_FD	
Part Thickness	19.00	\sim
Manufacturing Information		~

Here you can change the pull of your door.

C_SDI_H_PM_FD		
_C_SDI_H_PM_FD		
Name Value		
> Default settings		<u>^</u>
> Construction		
> Connector		
✓ Pulls		
Pull 1	Pull_Middle	×
Pull 2		×
Pull 3		×

Click on the 3-Point-Button and you will be transferred to "**Pulls & Locks**". Choose the existing principle "**Pull_Middle**" and change the name to "**_C_Pull_Middle**".

_C_Pull_Middle		
Name	Value	
✓ Default settings		
Туре	Pull	~
Connection Situation	Handle_Middle	×
Dull Lloighta		~

Click again on the 3-Point-Button in the box "**Pull Heights**". Here you can create a new principle. Choose the "**STANDARD**"-Principle and change the name to "**_C_Pull_height**".

🔀 Element Manager				
E	lement Manager		q	c ★
ucture	Pull Heights			
Str	Y			
	> 🗋 Getting Started			
	€= STANDARD			



Now insert the values that you see in the picture. Afterwards you can save your principle and then you can apply it.

🗊 _C_SDI_H_PM_FD > 🕩 _C_Pull_Middle > 🗊 _C_Pull_height

_C_Pull_height

N	lame	Value	
\sim	Default settings		-
	Pull Heights	1050	
	Activate Height Lines	✓	
	Snap Radius	500	
	Top Distance	50	
	Bottom Distance	50	

> Usage

Switch back to the drawing space and refresh your article. Now both pulls should be on a height of **1050mm**.

