## Product Loading of BIM components



JULY 25, 2024, ©2024 DIGIPARA GMBH



#### Are you an attendee in a DigiPara Liftdesigner online training module?

We recommend to print these out in advance so that you have a handout for your own editing and for your notes during your training.



#### PL1.1 General Information

Product Loading Workflow

#### PL1.2 Typical Processes

Necessary steps to create own components in the database.

#### PL1.3 Optional Steps

• Optional steps to create product options or logics for own components in the database.



#### PL1.4 BIM related settings

Typical settings for "DigiPara Simplified BIM Profiles"

#### PL1.5 Library expansion

Quick expansion of data tables through targeted copy operations.

#### PL1.6 Distribution

Export and share your modified \*.ldm12 file



#### PL1.7 Additional training materials

Profiles with user defined contour

Replace the default standard profiles with individual contours for profiles.

#### PL1.8 Summary

Custom Q&A's

# PL1.1

### **General Information**



### Product Loading Workflow

PL1.1 GENERAL INFORMATION

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### Typical Processes

- Copy a similar BIM Component
- Edit the Meta Data
- Load your edited BIM Component
- Load the Developer Work Area
- Use Explanation of Parameters and Values
- Modify the simplified 3D Geometry
- Save the BIM Component back into the DigiPara BIM Library

### **Optional Steps**

- Dynamic Properties Example 1 Direct input of any values in the DigiPara Liftdesigner BIM Component Properties Window.
- Dynamic Properties Example 2

Choose between own defined values in the DigiPara Liftdesigner BIM Component Properties Window.

- Product Options / Sub Grouping
   Switch on or off profile groups in the DigiPara
   Liftdesigner BIM Component Properties Window.
- BIM Component Rules
   Add logic that is related to your BIM Component.

# PL1.2

**Typical Processes** 

Simple Pit Base Unit





# Copy a similar BIM Component

# Copy a similar BIM Component

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### Find a similar BIM Component

• in DigiPara Liftdesigner

#### Find out:

- Manufacturer / BIM Library
- Unique RID number

Pro	operties		ф;
Loc	k Update Pit base unit [PitB	aseUnit.]	
~	[0010] Tools		
	Component state	Active	
$\sim$	[0020] General		
	Manufacturer	Common components	
	Designation	Filbase Unit	
	Туре	Standard	
	Angle	0	
~	[0022] Project Level Geon	netry Information	
	Create Geometry	By parent	
	Create Geometry status	Create	
~	[0440] Pit Base Unit		
	User defined	No	
	Width of pit steel [mm]	180	
~	[3635] View Frame Setting	S	
	Representation	Default (by Frame)	
	Dash	No	
	Extended Dimension	No	
~	[3805] Render		
	All available Surfaces	440600204	
	Texture Angle	0	
	Texture Scale	1000	
	Texture Alignment	Local	
	Texture Option	Repeat Texture are wide	
Ň.	[4210] Product Administrat	ion	
	Object name	LDXP#BaseUnit, idP#Base	Unit
	RID	1	



# Copy a similar BIM Component

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PL1.2 TYPICAL PROCESSES

### via the Copy BIM Components button

in DigiPara Liftdesigner Datamanager



Edit the Meta Data PL1.2 TYPICAL PROCESSES

Add a new specific description for the new copied BIM Component.

- in DigiPara Liftdesigner
   Datamanager
- The new BIM Component is copied with all parameter and values into the new DigiPara BIM Library.



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### Load your edited BIM Component

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PL1.2 TYPICAL PROCESSES

If the new DigiPara BIM Library contains a corresponding BIM Component, it will be displayed in the DigiPara Liftdesigner navigator.



### Load the Developer Work Area

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PL1.2 TYPICAL PROCESSES

### Select the corresponding BIM Component in an existing view frame and click on the button:

Develop this BIM Component in DigiPara Liftdesigner



### Load the Developer Work Area

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PL1.2 TYPICAL PROCESSES



### Load the Developer Work Area

PL1.2 TYPICAL PROCESSES

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### Develop BIM Components Toolbar



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PL1.2 TYPICAL PROCESSES

# Use the loaded Explanation of Parameters and Values

- (C:\ProgramData\DigiPara\2018\dcc\D ataPool\developer\dwg)
- The corresponding developer file (.dwg) with explanations about the BIM Component parameters is loaded automatically.



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PL1.2 TYPICAL PROCESSES

Developer sections provide the opportunity to select the profiles separately in the current view frame.

• in DigiPara Liftdesigner

The Developer Work Area includes predefined Developer View Frames.



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PL1.2 TYPICAL PROCESSES

# Define the size, position and options of your selected profile via the Properties Docking Window.

 Fill in own fix values, 3D Parameter or / and equations of both.





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PL1.2 TYPICAL PROCESSES

### Recommendation:



- Using the Additional Objects docking window in addition.
  - Listed overview about all aktiv or inactive objects (like profiles and points) the current component consists of.
- The Additional Objects docking window allows you to copy or delete the selected objects
  - via crossing the element by mouse cursor



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PL1.2 TYPICAL PROCESSES

The usable gray colored 3D Parameter are defined in the DigiPara BIM Library.

• Only editable via the DigiPara Liftdesigner Datamanager

Pitbase Units 🆙						
Liftdesigner Da	tamanager: Drag a colum	n header here to g	group by that colu	imn.		
SC	PBU_SUB_DESC	PBU_MF_RID	PBU_PG_GRP	PBU_DZ	PBU_DY	PBU_MODE
Jnit Example 1	Practice: Basics	900000	9000000	5(	180	0
Add	aseUnitTab		After a the Compor in Dig	values is c library the ent needs iPara Liftd	hanged in e BIM s to reload esigner.	



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PL1.2 TYPICAL PROCESSES

### Using 3D Parameter and equations for the correct profile location is recommended ...

• ... for having the profile always on the right place, in the case the BIM Component size is changed.

👫 PL_Basics_PitbaseUnit.Id3 🛛 🛫		Breadcrumb		д X	
		Document. Shaft0. CW. Weigh	<u>it.</u> <u>PitBaseUnit.</u> Profile	1. 🔻 🧻	
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		Froperaes		- 6.	
		Lock Update Profile 1 [Profile1.]		accou	int current
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		DY [mm]: PDY = 5	5		noight
		DZ [mm]: PDZ = 50	PBU_DZ		leigilt
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		IO5171 Position	U C		
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		Y0 [mm] = 0	0	_1-2.5	
		70  [mm] = 25	0.5*PDZ		
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	V0	Show sub objects	No		
		Manufacturer ID	9000000	_	
	X	Component	Shaft0.CW.Weig		
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		V [0520] 3D Parameter			
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	2		180		
			1/50		
			1450	¥	
Work area 🛛 🖉 Developer LOD \	View 🔰 Developer Work Area 🗙 📑 🔹 🕨 🗎	🛛 📝 Properties 🗮 Data tree 💡	Quick Help		

# Save the BIM Component

### Save the BIM Component

PL1.2 TYPICAL PROCESSES

### Save this BIM Component back into ...



... the DigiPara BIM Library 

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DigiPara Liftdesigner 2018

Options

Export

Develop BIM Components

# PL1.3

**Optional Steps** 

Simple Pit Base Unit





PL1.3 OPTIONAL STEPS

Product options and dynamic properties for the component are created in the associated profile group in DigiPara Liftdesigner Datamanager.

• The database table of the profile group of each component can be accessed via the pink column

\*\_PG\_GRP.

• Every profile group has it's own designation number:



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### **General Information** PL1.3 OPTIONAL STEPS

What is a Profile group?

- A profile group is an addition to the meta data for the user defined dimensions and settings.
- The user defined profile group objects of an existing component can be summarized in a profile group.
   Like profiles, points, Additional components, ...
- An existing profile group can be copied with all it's parameters, values and additional options.

1		PG GRP	PG IX	PG P RID	PGRYX	PGRYY	PGRYZ	PGRZX	PGRZY	PGRZZ
	9000000	9000000	0	-3	0	0	1	0	-1	0
1	9000001	9000000	1	-7	1	0	0	0	0	-1
	9000002	9000000	2	-	3	0				12

**General Information** 

PL1.3 OPTIONAL STEPS

### Basic content of a profile group

- Profile types for the geometrie definition of the component
  - Size parameters
  - Position parameters
  - Additional Options for representation in drawings
- Points for profile outlines, for position assignment of related components or for additional dimensions
  - Position parameters

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Assignment group point codes

	PG_RID	PG_GRP	PG_IX	PG_P_
-	9000000	9000000	0	-3
-	9000001	9000000	1	-7
-	900002	9000000	2	-7

**General Information** 

PL1.3 OPTIONAL STEPS

### Basic content of a profile group

- Global sub grouping of profiles and/or points for product options in DigiPara Liftdesigner
  - descriptions
  - Additional options for representation in drawings
- Dynamic properties which provides the opportunity to change the component dimensions the DigiPara Liftdesigner
  - Assignment parameters
  - Additional component options for representation and settings in existing projects

Profiles	Additional Comp	onents Points Global sub grouping L_Profile	IGrpPropConfigItemTabEnumTab	ProfilGrpCadFile
	PGT_RID	PGT_DESC	PGT_PART_NO	PGT_MF_RI
- 1	9000000	Option A		90000
->	9000001	Option B		90000

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### Basic content of a profile group

- Additional components to extend the DigiPara Liftdesigner geometry with e.g. 3D CAD models.
  - More detailed explanations are included in the corresponding training module for Product Loading with CAD models.

Profile	group	_						
Profiles	Additional Compor	nents Points	Global sub grouping	L_ProfilGrpPropConfigItem	TabEnum Tab ProfilGrpCadFile	s L_ProfilGrpUsParamTab L_P	rofilGrpBIMPropertyTab	
	PGN_KID	PGN_PG_0	GRP PGN_IX	PGN_FILENAME	PGN_CREATED_BY	PGN_CREATED_DATE	PGN_MODIFIED_BY	PG
•								×
Add	L_ProfilGrpN	lodeTab						

PL3

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PL1.3 OPTIONAL STEPS

### Expected result:

Direct input of any value





- Dynamic properties
  - are specific properties which will be displayed in DigiPara Liftdesigner only for the current component
  - allows you to change dimensions e.g. the height of a profile in your project

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PL1.3 OPTIONAL STEPS

### Copy a reference / 3D parameter of your new BIM Component

- from the DigiPara Liftdesigner Data tree →
   Database Table
- Copy for Program



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### Create a dynamic property using the associated Profile group table

• in DigiPara Liftdesigner Datamanager

Pitbase Units 🛛 🛫						Table view		Ψ×
Liftdesigner Dat	amanager: Drag a colum	n header here to group b	that column.				esign Floor and Ceiling es	^
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0 PL-Training: F	Pitbase Unit Example 1	Practice: Basics	900000	900000	5	Traction	Units	
						Eiving L	nite	
	Profile group					×	Room Components	
	Profiles Additional Compo	nents   Points   Global sub <u>c</u>	rouping L_ProfilG	irpPropConfigItemT	abEnumTab	ilGrpCadFiles 💶 🕨	mponents	
	PGPROPCI_RID	PGPROPCI_PG_RID	PGP <mark>ROPCL</mark> X	PGPROPCI_	COMP_DECC P	GPROPCI_COM	ces	
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Add L_PitBa							l recent documents	
C:\_DeveloperTrain							📀 Qui 🧮 Me 🗮	Tab
						E.	NUM OVR	
	Add L_ProfilGrpPr	opConfigItemTab	ProfilGrpPropCor	nfigltemEnumTab				

### iftdesigner 🕫

Database Table [L\_PitBaseUnitTab.]

-dbl PBU\_DY = 180 -dbl PBU DZ = 50

str PBU\_DESC = PL-Training: Pitbase Unit E

PL1.3 OPTIONAL STEPS

Add a new record and paste (Ctrl. V) the DigiPara Liftdesigner reference / 3D Parameter into the corresponding column.


### Dynamic Properties - Example 1

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PL1.3 OPTIONAL STEPS

-ill the record with	n the required						
nformation	·	Profile group					x
mormation		Profiles Additional	Components Points Global s	b grouping L_ProfilG	impPropConfigItemTabEnumTab	nfilGrpCadFiles L_ProfilGrpUsParamTab	
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on the current ta	ab.						
Profile group			1		×		
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4	0 21		214/48364/	65200000: mm - i	in.		
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۱ L			111		•		
Add L_P	rofilGrpPropConfigItemTab	emEnumTab					

# Dynamic Properties - Example 1

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### Testing the new dynamic property of your BIM Component

• in DigiPara Liftdesigner





# V Dynamic Properties - Example 2

### Dynamic Properties - Example 2 PL1.3 OPTIONAL STEPS

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### Expected result:

Choice of different values from list









### **Dynamic Properties - Example 2**

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PL1.3 OPTIONAL STEPS

### Create a dynamic prope between own defined va DigiPara Liftdesigner Pro

Profile group Profiles Addition PGPROPCI\_I 900

PGPROP

Image: A start of the start

Add..

L

using a ComboBox in D Liftdesigner Datamana

erty to switch	Profile group	roProoConfightemTabEnumTab	
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DigiPara			2: BitCheckedListBox 45
ger			
onal Components   Points   Global sub grouping L	ProfilGrpPropConfigItemTabEnumTab   ProfilGrpCadFiles   L_ProfilGrpUsParar	n Tab	
ID PGPROPCI_PG_RID PGPROPCI_IX	PGPROPCI_COMP_DESC PGPROPCI_COMP_VAL	PGPROPCI_DISPLAY_TYPE PGPR	
0000 9000000 0	Height L_PitBaseUnitTab.PBU_DZ	1: ComboBox 4	
E_RID PGPROPCE_PGPROPCI_RID PC	PROPCE_IX PGPROPCE_ENUM_VALUE PGPROPCE_ENUM_	TEXT PGPROPCE_MODE PGPRO	
9000000 9000000	0 50 50 mm	0	
9000002 9000000	2 100 100 mm	0	

### Dynamic Properties - Example 2 PL1.3 OPTIONAL STEPS

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# Testing the edited dynamic property of your BIM Component

• in DigiPara Liftdesigner



Bre	adorumb	<b></b>	×
Do	cument. Shaft0. CW. Weigl	ht. PitBaseUnit. 🔻	*
	Favorites		-
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Loc	k Update Pit base unit [PitBa	aseUnit.]	
~	[0010] Tools		^
	Component state	Active	
<b> </b> ~	[0020] General		
L	Manufacturer	New Manufacturer	
	Designation	PL-Training: Pitbase Unit Example 1	
	Туре	Practice: Basics	
	Angle	0	
<b> </b> ∼	[0021] PL-Training: Pitba		11
	Height [mm]	50 mm 🗸	
<b> </b> ~	[0022] Project Level Geor	50 mm	
	Create Geometry	75 mm 1/3	
	Create Geometry status	100 mm	
<b> </b> ~	[0440] Pit Base Unit		
	User defined	No	
	Width of pit steel [mm]	180	
<b> </b> ~	[3635] View Frame Settings		
	Representation	Default (by Frame)	
	Dash	No	
	Extended Dimension	No	
<b> </b> ~	[3805] Render		
	All available Surfaces	440600204	
	Texture Angle	0	5
	T 1 C 1	1000	

# Product Options / Sub Grouping

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# Product Options / Sub Grouping

### Expected result:

Choice of different product options



- Product Options
  - can be switched on and off, if required, in Liftdesigner by adding or removing the corresponding check mark
  - are selectable in 2 different Liftdesigner docking windows: under Properties or Options and rules

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### Product Options / Sub Grouping

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PL1.3 OPTIONAL STEPS

#### Prepare new Product Options

• in DigiPara Liftdesigner Datamanager  $\rightarrow$  Profile group

Pitbase Units	Table view	<b>д X</b>
Liftdesigner Datamanager: Drag a column header here to group by that column.	Cabin Design Floor and Ceilin ⊕ Entrances	ng ^
PBU_RID PBU_DESC PBU_SUB_DESC PBU_MF_RII PBU_PG_GRP PBU_DZ PBU_DY PBU_MODE	PBU_I   Hydraulic Units	
Profile group	Traction Unite	
Profiles Additional Components Points Global sub groupingProfilGrp PropConfightem Tab Enum Tab ProfilGrpCadFiles L_ProfilGrpUsParam Tal	b mponents	
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9000001 Fixing Options 2 9000000	0	
	ngths	
	ation Units	3
	es	
	iles	
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Add L_PitBaseUnitTab Add L_ProfilGrpTypeTab	uments	-
	📕 Me	Tab

# Product Options / Sub Grouping

### 🕫 digipara liftdesigner

Add a new profile in DigiPara Liftdesigner to your BIM Component

 in DigiPara Liftdesigner (Developer Work Area)



### **Product Options / Sub Grouping** PL1.3 OPTIONAL STEPS

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### Rotate the new profile using X, Y and Z coordinates

• in DigiPara Liftdesigner





### **Product Options / Sub Grouping** PL1.3 OPTIONAL STEPS

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Define the size and correct position using 3D Parameters and equations

 via the profile Properties Window in DigiPara Liftdesigner



Bre	adcrumb		<b></b>	×
Do	cument, Shaft0, CW, Weight	t. <u>PitBaseUnit</u>	Profile3. 🔻	<b></b>
Þ	Favorites			
Pr.	anotice			*
			Ť	~
Loc	k Update Profile 3 [Profile3.]			
I۲.	[0515] Type			^
	Shape	II I -Type		
$ $ $\vee$	[0516] Size			
	DX [mm]: PDX = 180	PBU_DY		
	DY [mm]: PDY = 120	120		
	DZ [mm]: PDZ = 100	PBU_DZ		
	S [mm]	5		
	T [mm]	5		
$\sim$	[0517] Position			
	X0 [mm] = -505	-0.5*DBG - GI	D_H_1 - 0.5*PDY	
	Y0 [mm] = 0	0		
	Z0 [mm] = 50	0.5*PDZ		
$\sim$	[0510] Options			
	Mode	0		
L	Show sub objects	No	Existing equ	uations can copy
L	Manufacturer ID	9000000		
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L	Profile Matrix	Open dialog	another. (	Ctrl. C / Ctrl. V)
I×.	[0520] 3D Parameter		`	. ,
L	[0]: DBG	800		
L	[1]: GD_H_1	45		
	[5]: PBU_DY	180		×
	Properties 📙 Data tree 💡	Quick Help		

#### Product Options / Sub Grouping PL1.3 OPTIONAL STEPS

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**Ф X** 

Copy the finished defined profile and define the opposite position by changing only the signs (+ / - )

- Select the existing profile and press Ctrl. C / Ctrl. V
- Change the signs
- Rotate the copied profile





440600204

0

All available Surfaces Texture Anale

RM

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### Product Options / Sub Grouping

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PL1.3 OPTIONAL STEPS

### Assign profiles to the prepared BIM Component Product Options

Breadcrumb	<b>4 х</b>
Document. Shaft0. CW. Weight. PitB	aseUnit. Profile4. 🔻 👘
Favorites	
Properties	<u>а х</u>
Lock Update Profile 4 [Profile4.]	
V [0010] Tools	^
Component state	Active
<ul> <li>(0020) General</li> </ul>	
Name	
<ul> <li>[0024] Product Options</li> </ul>	
This Object belongs to Product Optio	1 9000001: Fixing Options 2 🤍
✓ [0515] Type	0
Shape	9000000: Fixing Options 1
<ul> <li>[0516] Size</li> </ul>	9000001: Fixing Options 2
DX [mm]: PDX = 180	100 01
DY [mm]: PDY = 120	120
DZ [mm]: PDZ = 100	PBU_DZ
S [mm]	5
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I05171 Position	







### Product Options / Sub Grouping

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PL1.3 OPTIONAL STEPS

Testing the new Product Options after saving this BIM Component back into the DigiPara BIM Library

Breadcrumb	<b>–</b>
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<ul> <li>(0010) Tools</li> </ul>	
Component state	Active
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Manufacturer	New Manufacturer
Designation	PL-Training: Pitbase Unit Example 1
Туре	Practice: Basics
Angle	0
<ul> <li>[0021] PL-Training: Pitbas</li> </ul>	se Unit Example 1
Height [mm]	100 mm
<ul> <li>[0022] Project Level Georet</li> </ul>	netry Information
Create Geometry	By parent
Create Geometry status	Create
<ul> <li>[0024] Product Options</li> </ul>	
Selected Product Options	Select from Option List
<ul> <li>[0440] Pit Base Unit</li> </ul>	Fixing Options 1
User defined	No Fixing Options 2
Width of pit steel [mm]	180 Standard
<ul> <li>[3635] View Frame Setting</li> </ul>	S
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	Component state	Active		
~	[0020] General			
	Manufacturer	New Manufacturer		
	Designation	PL-Training: Pitbase Unit Example 1		
	Туре	Practice: Basics		
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~	[0024] Product Options			
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	Manufacturer	New Manufacturer	
	Designation	PL-Training: Pitbase Unit Example 1	
	Туре	Practice: Basics	
	Angle	0	
<b> </b> ~	[0021] PL-Training: Pitbase	Unit Example 1	
	Height [mm]	100 mm	
<b> </b> ~	[0022] Project Level Geomet	ry Information	
	Create Geometry	By parent	
	Create Geometry status	Create	
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<b> </b> ~	[0440] Pit Base Unit	Fixing Options 1	
	User defined	No Fixing Options 2	E
	Width of pit steel [mm]	180 Standard	
$\sim$	[3635] View Frame Settings		

Refresh Caches

igiPara BIM Library

Show profile points

Custom Rendering Support

Save this BIM

Component





- Dynamic rules make sense for the following cases:
  - add logic that is related to the corresponding component
  - typical cases are: check minimum / maximum values of the component
- Dynamic rules are stored to the profile group of a component
  - it is not recommended to use rules that apply the whole elevator system.

Typical no-gos are: changing dimensions of components that are in the same or higher level of the data tree hierarchy

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### Define own component rules via the Rule Editor in Liftdesigner

Add additional logic



# General Information

#### **BIM Component Rules** PL1.3 OPTIONAL STEPS

### **Expected result:**

lype

Angle

~

Dynamic components through stored rules 



Туре





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#### DigiPara® Liftdesigner Online Training – PL1 Product Loading of BIM components | © 2024, DigiPara GmbH

BIM Component Rules

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Select your BIM Component and open the Rule Editor

• in DigiPara Liftdesigner

A 40	: 💊 🔒 🔎 🏗 🧭 🔟	🖥 🖼 📑 🗜 LOD LO	D LOD LOD LOD LOD LOD 0 300 350 400 500 MAX		DigiP	ara Liftdesigne	er 2018		_	$\Box$ ×
Start	Project Sheet	View Frame Dimensio	ns Visualize CAD Mod	lels Develop BIN	A Components	Export	Options			
Start Design Page Mode Standard	Develop this BIM Component Develop BIM Component	Rule Editor BIM Component Rules	Add Add Characteristic Profile Point Parametric DigiPara Geometry	□□□ ×× □□□ × Profile Shape	X Y Orier	Z RM 90 Tation	Save this BI Component	<ul> <li>Refresh Cache</li> <li>Custom Rend</li> <li>Custom Profile p</li> <li>DigiPara BIM Library</li> </ul>	ering Support points	.NET Application Macro
3D View		PL_Basics_P	itbaseUnit.Id3 🗙			Br	eadcrumb			ų ×
		🔡 DigiPara Liftdesigner 20	018 - Rule Editor			_		<u>). CW. Weight. PitBa</u>	<mark>seUnit.</mark> ▼	-
		Rule Components								-
		LDXRULES_ACTIVE	LDXRULES_PARENTDESC	RIPTION LDXRULE	S_TREENAME					<b>д х</b>
			Overspeed governor	Shaft0.CW.	Weight.Gov.R		≡ □	base unit [PitBaseUnit.]		
			Overspeed governor	Shaft0.Car.	Frame.Gov.Ru		() () () () () () () () () () () () () (	te Active	•	
			Sheet frame 7	Sheets.Ldv	Sheet2.LdvFra			al New J	Manufacturer	
			Sheet frame 8	Sheets.Ldv	Sheet1.LdvFra		-	PL-Tr	aining: Pitbase Uni	t Example 1
		Rules						Practi	ce: Basics	
								0 aining: Pithase Unit Fx:	ample 1	
								100 m	im	
								t Level Geometry Infor	mation	
				The		nor		ry Bypa	rent	
				IIIe	e Deveic	pher		ry status Create	e	
		Dula turan		Julius stat	tus mus	the E	+ 14	ct Options Select	t from Option List	
		Rule types		Rule so Sta				e Unit		
				a	octivated	d! I	ΎÆ	No		
								el [mm] 180		
		<no f<="" td=""><td>Rule Selected&gt;</td><td></td><td></td><td></td><td>No.</td><td>rame Settings</td><td>it (hu Erama)</td><td></td></no>	Rule Selected>				No.	rame Settings	it (hu Erama)	
								No	iit (by Frame)	
					r .			nsion No		
					_			-		Y
		Reset windows	Update view 🔘 Standard	Developer		Close	Help	Data tree 🕜 Quick	Help	
	C:\_DeveloperTrain	ing\Pool1\Data\LD50.mdf	Sheets.LdvSheet2.LdvFrame3.	_					NUM	OVR

# Add a new Rule to your BIM Component and fill in a unique description $\rightarrow$ Add Rules Component $\rightarrow$ Add ... LDXRule



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#### PL1.3 OPTIONAL STEPS

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### Add Subgroup (S1, S2) columns additionally to the existing Condition (C1) and Assignment (A1) column

• Click into  $\rightarrow$  PGR\_MATRIX

-								
		Sheet frame 8			Sheets.LdvSheet1.LdvFra.	PG_GRP = 0		
Rule	s - [Me. = Shaft0.CW.\	Veight.PitBaseUnit	L]					
	LDXRULE_ACTIVE	PGR_PG_RID	PGR_IX	PGR_MODE	PGR_DES	SC .	PGR_CONDITION	PGR_MATRIX
•		9000000	0	(	0 Fixing Options and Wid	tth by Height		
1.		1111						· · · ^
Γ	L DVPula							<b>•</b>
Add	EDAIMIE							
Matri	x rule - [Shaft0.CW.Weigl	ht.PitBaseUnit.Rule	s.Rule0.]				Rule source	
	C1	A	1		S1	S2		T <sub>E</sub>
						썦		
						1		
						+	Add Subgroup	
1.								
Add	Rule						•	
	Reset windows	Update view	⊖ Stan	dard 🤅	Developer		C	ose Help

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PL1.3 OPTIONAL STEPS

Add... Rules and de Conditions (C1) rel dynamic property

using the DigiPa Project Tree

les and define the		Pit base unit Sheet frame 7		Sheets.LdvSheet	ght.PitBa Save to Da 2.LdvFra PG_GRP = (	tabase 📕		
hs (CI) related to your		Sheet frame 8		Sheets.LdvSheet	DigiPara Liftdesig	ner 2018 - Projec		x
property	Rules - [Me. = Shaft0.CW.V	/eight.PitBaseUnit.]			in and Encourse	[PitBaseUnit.]		
the DigiPara Liftdesigner t Tree		PGR_PG_RID PGF 9000000	R_IX PGR_MODE	PG Fixing Options		[Profile0.] [Profile1.] [Profile2.] [Profile3.] [Profile4.]		
	Add LDXRule	Weight FilDese Unit Pule				ures.j torages [Storage.] E = 0		
	IX -1 L -0 5 -1 7	D("Me.L_PitBaseU 0 5	C1 nitTab.PBU_DZ"	) = Assi		40 aterial [VisualMaterial.] 3 [LocalMatrix.] [WorldMatrix.]		Te B B
ofilGrpPropConfigItemTabEnumTab         ProfilGrpCadFiles         L_ProfilGrp           I_X         PGPROPCI_COMP_DESC         PGPROPCI_COMI           0         Height         L_PitBaseUnitTab.PBU_DZ	JsParamTab				C Databas	e Table [L_PitBaseUnit Ta _DESC = PL-Training: Pit 	ıb.] base Unit Exampl	le 1 ~
PGPROPCE_X         PGPROPCE_ENUM_VALUE         PGPROPCE           0         50 mm         50 mm           1         75 75 mm         100 mm	PCE_ENUM_T windows	Update view (	) Standard (	Developer	Reference: Shaf Absolute: Shaf Relative: Me.I	t0.CW.Weight.Pi t0.CW.Weight.Pi PitBaseUnitTak	.tBaseUnit. .tBaseUnit. ).PBU_DZ	L_Pi
						OK	Cance	

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PL1.3 OPTIONAL STEPS

### Determine and define the Assignment (A1) 3D Parameter

 using the DigiPara Liftdesigner Project Tree

H	V	Pit base uni			Shaft0.CW.Weight.PitBa	Ba Save to Database 📕
	<b>V</b>	Sheet frame 7	1		Sheets.LdvSheet2.LdvFra	ra PG_GRP = 0
	<b>V</b>	Sheet frame 8	}		Sheets.LdvSheet1.LdvFr	
<u> </u>						📃 🔡 DigiPara Liftdesigner 2018 - Projec — 🛛 🛛 🛛
Rule	es - [Me. = Shaft0.CV	V.Weight.PitBaseUnit.]				E Overspeed governor [Gov ]
	LDXRULE_ACTIV	E PGR_PG_RID	PGR_IX	PGR_MODE	PGR_DES	Pit base unit [PitBaseUnit.]
	<b>V</b>	900000	0	0	Fixing Options and Wid	id
4						in
						■ta Profile 4 [Profile4.]
Ad	d LDXRule					⊞ <b>–</b> ¶ Rules [Rules.]
						Z0 = 0
Mat	rix rule - [Shaft0.(	CW.Weight.PitBaseUni	Rulee Rule	vi		C MODE 0
	IX	C1		1	A1	MODE = 0
	-1	LD("Me.L PitB	. Me.L	PitBaseUn	itTab.PBU DY	The MODE = 40
	0	50	180	_		in pio visual material [visualmaterial.]
	1	75	200			IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
	2	100	220			🚽 🚽 🚽 🗄 🕂 3D - CS [World Matrix.]
- 1	2	100	220			Database Table [L_PitBaseUnitTab.]
			-			
						dbl <u>PBU_DY = 180</u>
μ.						
4	d Rule					
1~	u					Reference: Shaft0.CW.Weight.PitBaseUnit.
						Absolute: Shaft0.CW.Weight.PitBaseUnit.L P:
	Reset windows	Update view	O Sta	ndard (	Developer	Relative: Me.L PitBaseUnitTab.PBU DY
						OK Cancel

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BIM Component Rules

### Adapt the visibility of the Subgroups (S1, S2) related to the Conditions

Set inactive or active for your Product Options

_		Pit base unit       Sheet frame 7			Shart0.CW.WeighLPtBa     Save to Database       Sheets.LdvSheet2.LdvFra     PG_GRP = 0						
Put	es - IMe - Shaff0 C\v/\v/eial	bt DitPased Init 1			Sheets.EdvSheet1.Ed						_
	LDXRULE_ACTIVE	PGR_PG_RID 9000000	PGR_IX 0	PGR_MODE 0	PGR_ Fixing Options and	_DESC d Width by Height	PGR_COND	ΠΟΝ	PGR_MATRIX	PGR_PDF	
Ad Ma -1 0 1 2 Ad	trix rule - [Shaft0.CW.We C1 LD ("Me.L PitBas. 50 75 100	eight.PitBaseUnit. Me.L Pit 180 200 220	Rules.Rule0.	Fixing Active Inactiv Inactiv	S1 Options 1 I e 2 e 2 e 4 A I I r	S2 Fixing Options Inactive Active Active ctive nactive		Rule	source		V <sub>E</sub>
	Reset windows	Update view	◯ Stand	lard 🔘	) Developer				a	ose	Help

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BIM Component Rules PL1.3 OPTIONAL STEPS

📑 DigiPara Liftdesigner 2018 - Rule Editor

# 1. Check the rule and save the Matrix ...

 2. ... afterward save all to Database

Rule Cor	nponents					
L	DXRULES_ACTIVE	LDXRULES_PA	ARENTDESCRIPTIO	N LDXRULES_TREENAM	E LDXRULES_SAVETODB	3
		Overspeed govern	nor	Shaft0.CW.Weight.Gov.R	No changes	
-		Overspeed govern	Distingues Life			
- •	V	Pit base unit	DigiPara Litto	esigner 2018 - Rules		
-	$\checkmark$	Sheet frame 7				Sever All An
		Sheet frame 8				Save All tol
ules - [	Me = Shaft0 CW/Weight	t PitBasel Init 1		you want to save the r	ule changes in the datab	Daser
			C:\	DeveloperTraining\Poo	l1\Data\LD50.mdf	
LUAN						
		300000	-			
					No.	
•					Yes	
\dd	LDXRule					
-uu						
latrix r	ule - [Shaft0.CW.Wei	ight.PitBaseUnit.Ruk	les.Rule0.]			Rule source
	C1		A1	S1	S2	👾 Imports System 🔺 🖓
-1	1 LD("Me.L Pit	Bas Me.L P	PitBaseUni 1	Fixing Options 1	Fixing Options 2	Import System.Math
(	50	180	i	Active	Inactive	1 <sup>n</sup> Imports DigiPara.LDX
1	1 75	200		Inactive	Active	imports System. Reflection
	2 100	220	:	Inactive	Active 🔻	Ψ         Public Class RuleEval
						:Implements DigiP
					<b>(1</b> ) r	Private m Error As St
•						Private m LdxObject A
	Rule					Check and Save Matrix monthion Proce
١dd	Nule					
\dd	Nule					· // //
dd		lodate view	○ Standard			

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### **BIM Component Rules**

PL1.3 OPTIONAL STEPS

### Close the Rule Editor and test the functionality of your new created BIM Component Rules.





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# Options and Rules Docking Window

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PL1.3 OPTIONAL STEPS

#### Manage component configuration options

- Existing product options and dynamic component rules can be disabled and enabled via the Options and rules docking window by adding or removing a check mark.
  - Existing Product Options
  - Created Rules & Rule Editor



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PL1.3 OPTIONAL STEPS

#### Create a clear structure of your options:

- Recommended for a high quantity of Product Options related to your component.
  - Prepared in DigiPara Liftdesigner Datamanager under the related Profile group.



ip	onents	Point	Global sub	grouping	_ProfilGrpPropCor	nfigitemTabEnumTab	ofilGrpCodFileo	mTab L_ProfiCrpBIMPrepartyTab
		PGI	DESC	PG	T_PART_NO	PGT_MF_RID	PGT_STRUCTURE1_DESC	PGT_STRUCTURE2_DESC
)	Fixing	o Opti	ion 1			9000000	Pitbase Example 1	Fixings
I	Fixin	g Op	tion 2			9000000	Pitbase Example 1	Fixings

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PL1.3 OPTIONAL STEPS

### Create a clear structure of your rules:

PGR DESC

0 Fixing Options and Width by Height

 Recommended for a high quantity of rules related to your component.

PGR C

PGR\_MATRIX PGR P PGR P

<MatrixSet>

• Prepared in DigiPara Liftdesigner Rule Editor.



NODE

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PL1.3 OPTIONAL STEPS

### Recommendation:

- Extend your option description when Product Options are controlled by rules.
  - The expression (auto) displays the option gray colored.



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### Let's have a break!

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# **PL1.4**

### **BIM related Settings**

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 $\uparrow$ 



### Typical Settings for "DigiPara simplified BIM Profiles" PL1.4 BIM RELATED SETTINGS

### Set the presentation of your components for the different LOD levels.

- In principle, significantly less should be displayed in the low levels, but as much as necessary.
- Use our online help for more information: <u>LOD Setting Recommendations for DigiPara Liftdesigner users</u>
  - LOD 100: Show for main components only
  - LOD 200: Show a simplified model of your component
  - LOD 300: Show a more detailed model of your component
  - LOD 350: Same as LOD 300
  - LOD 400: Show a model as required for the installation drawing
  - LOD 500: Corresponds to LOD 400 (possibly more)
  - LOD MAX: Shown as designed
- Do not show screws, nuts and bolts in LOD 100 to LOD 400.

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### Typical Settings for "DigiPara simplified BIM Profiles" PL1.4 BIM RELATED SETTINGS

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### Determine the LOD Assignment of each profile via the related properties

by adding or removing a check mark

	[a0]: hro_ozek_bg_a0	U	
	[91]: PBU_USER_PG_91	0	
	[92]: PBU_USER_PG_92	0	
	[93]: PBU_USER_PG_93	0	
	[94]: PBU_USER_PG_94	0	
	[95]: PBU_USER_PG_95	0	
h	[2001] Level of Developing	rent (LOD)	
н	LOD Assignment	126	× ·
۱r	(3035) View Frame Settin	ys .	1 - LOD 100
	Representation	Default (by Fi	ra 🛛 🗹 2 - LOD 200
	Dash	No	🗹 4 - LOD 300 🚽
	Extended Dimension	No	🗹 8 - LOD 350
>	[3805] Render		☑ 16 - LOD 400
~	[4210] Product Administ	ation	☑ 32 - LOD 500
	Object name	LDXProfile, id	P d 64 - LOD Max
	PG_GRP	0	
2	Properties 📴 Data tree		

### Typical Settings for "DigiPara simplified BIM Profiles" PL1.4 BIM RELATED SETTINGS

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### Check the LOD representation of your component

Option 1: Developer LOD View frame



#### Option 2: Representation of your developer view

Properties	ą	×
Lock Update Sheet frame 8 [LdvFram	ne8.]	
[2001] Level of Developme	ent (LOD)	1
Representation	Default (by Sheet)	-
~ [2500] Drawing Style	Default (by Sheet)	I
Render Mode	LOD 100	I
~ [2501] Camera Projection	LOD 200	I
Projection	LOD 300	I
Camera position X	LOD 350	I
Camera position Y	LOD 400	
Camera position Z	LOD 500	1
Camera target X	LOD Max	1
Comora target V	100050304404020004	
# PL1.5

Library expansion





# Data table copy operations – General information

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# Extend the data table of your component by different copy operations according to your

#### requirements.

- Option 1: Copy BIM Components
  - Create a new component with a new generated profile group. There is no connection to the copied source

Standa 90	ard Data Pool 0:New Manufa	[C:\ProgramData\DigiPara\2022\dcc\Data acturer	aP •	8		Copy RIM	E III	+1	Eind and	<b>₽</b> ⊕	*	A Toxt Size	<b>a</b> 1	-
Sort	modules by d	escription			Ð	Components	Down	+1	Replace	expand		Plus	<u>1-</u>	aut
		Edit Database Settings			G	d Rows	-	Grid Cell	s	1		View G	rid	
	PBU_RID	PBU_DESC	PB	U_SU	B_DI	ESC 🛆 PBI	J_MF_RID	PBU_P	G_GRP	PBU_DZ	2	PBU_D1		PBI
	9000000	PL-Training: Pitbase Unit Example 1	Pra	ctice: f	Basio	-s	900000	0 900000	)		80		210	
		DL Tanining: Dithese Unit Formula 2	Dra	ctica	Raci	lee	900000	000000	1		00	ananananana)	10	susue:

#### component.

# Data table copy operations – General information

## igipara<sup>®</sup> liftdesigner

#### Extend the data table of your component by different copy operations according to your

#### requirements.

- Option 2: by keyboard using Ctrl. C / Ctrl. V
  - Create a new component that shares the same profile group as the source component.

ase Units 👷 Surfaces			ne profile gro	di	different param		
esigner Datam	anager: Drag a column header here to gr	oup by that column.			_		
PBU_RID	PBU_DESC	PBU_SUB_DESC 2	PBU_MF_RID	DBUL DG GPD	PBU_DZ	DY F	
9000000	PL-Training: Pitbase Unit Example 1	Practice: Basics	900000	9000000	80	210	
9000001	PL-Training: Pitbase Unit Example 2	Practice: Basics	900000	9000001	80	210	
9000002	PL-Training: Pitbase Unit Example 3	Practice: Basics	900000	9000000	50	180	

# Data table copy operations – General information

## igipara liftdesigner

#### Deleting a data record via the delete button on your keyboard after selecting the data row

	5				
	PBU_RID	PBU_DESC	PBU_SUB_DESC	PBU_MF_RID	PBU_PG_GRP
	9000000	PL-Training: Pitbase Unit Example 1	Practice: Basics	9000000	9000000
	9000001	PL-Training: Pitbase Unit Example 2	Practice: Basics	9000000	9000001
•	9000002	PL-Training: Pitbase Unit Example 3	Practice: Basics	9000000	9000000
		S You I	have selected 1 row for o	eletion.	

# PL1.6

Distribution



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**Export and Share PL1.6 DISTRIBUTION** 

### Share your new data

- The exported \*. Idm12 file is located under Export folder in the current data pool
- The usual local path for the Export file: C:\Program

Export Manufacture

Modules..

Export Data

Export

Translation

import

mData\DiaiPara\dcc\DataPool\data\Export	•		LD-Developer
Home Options	Digi	Para BIM Lil	orary: C:\LD_POOLS\POC
Show An		Select a	Unselec

Impon

English - U

X

xpon

Excel



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#### Import your new data

- The newly exported manufacturer module (\*.ldm12) can be imported into any data pool.
  - The usual local path for the Export file: *C*:\*ProgramData*\*DigiPara*\*dcc*\*DataPool*\*data*\*Import*

For a successful import process, all existing DigiPara Liftdesigner applications must be closed!

# PL1.7

Additional training materials

Profiles with user defined contour

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PL1.7 ADDITIONAL TRAINING MATERIALS

#### via positioning characteristic points

- Add and positioning new points to your component
- Assign the Point Code: User defined Outline
- Link created point contour to a new profile
- Define profile thickness
- Save the BIM Component back into the DigiPara BIM Library



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PL1.7 ADDITIONAL TRAINING MATERIALS

## Determining the size of user defined profiles

 Add and positioning new points to your component

Important: Definition of the location only in the X0 and Y0 direction! × × × × × × × ×

Breadcrumb						<b>д &gt;</b>
Document. Shaft0. CW. Weight. PitBaseU	nit. CPTS	. P	T4. ▼			
<ul> <li>Favorites</li> <li>Options</li> </ul>						
Additional Objects	ų Χ	Eig	genschafte	n		<b>д У</b>
Develop this BIM Component View:		Lo	ck Update	Characteristic po	oint 4 [PT4.]	
Shaft0.CW.Weight.PitBaseUnit.			Compone	nt state	Active	/
Additional Child Objects(0)		<b>∥</b> ~	[0022] Pi	oject Level Geo	metry Information	
0:Standard			Create ge	ometry	By parent	
Add now		Ι	Create ge	ometry status	Create	
DigiBara Geometry(2)		ľ	[US IS] IS	/pe	Not Set [0]	
Characteristic naints(E)			[0517] Po	sition	THE OSCION	
			X0 [mm] =	-200	-200	
<ul> <li>U:Standard (5)</li> <li>DT0 (01 + 5 + 10) (0.0 0)</li> </ul>			Y0 [mm] =	0	0	
P10 (Not Set [0]) (0,0,0)			Z0 [mm] =	0	0	
PT1 (Not Set [0]) (0,-150,0)			10751121	Decentration		
PT2 (Not Set [0]) (-50,-150,0)		ľ		Parameter	1000	
PT3 (Not Set [0]) (-200,-50,0)			[1]: GD_H	1	45	
PT4 (Not Set [0]) (-200,0,0)			[5]: PBU_[	DY	180	
Add new			[6]: PBU_[	DZ	50	
			[20]: CAR	_DBG	1100	
			[21]: CAR	GD H 1	70	

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PL1.7 ADDITIONAL TRAINING MATERIALS

#### Assign the Point Code: User defined Outline

• The points must be created in the correct order!



Eigenschaften		ф.	×
Lock Update Multi selection	(5)		
✓ Misc X0 [mm] = 0			^
Type 101: DRG	User defined Outline 9 [-2009]	~	
[1]: GD_H_1 [5]: PBU_DY [6]: PBU_DZ [20]: CAR_DBG [21]: CAR_GD_H_1 [23]: P23 [25]: CAR_PBU_DY [26]: CAR_PBU_DZ [50]: PBU_USER_PG_50	User defined Outline 8 [-2008] User defined Outline 7 [-2007] User defined Outline 6 [-2006] User defined Outline 5 [-2005] User defined Outline 4 [-2004] User defined Outline 3 [-2003] User defined Outline 2 [-2002]		
[51]: PBU_USER_PG_51 [52]: PBU_USER_PG_52 [53]: PBU_USER_PG_53 [54]: PBU_USER_PG_54 [55]: PBU_USER_PG_55	User defined Outline 0 [-2000] Not SCI [0] 0		

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PL1.7 ADDITIONAL TRAINING MATERIALS

### Link created point contour to a new profile

Define profile thickness



Additional Objects 🛛 🕂 🗙	Eigenschaften	<b>д х</b>				
Develop this BIM Component View:	Lock Update Profile 3 [Profile3.]					
Shaft0.CW.Weight.PitBaseUnit.	✓ [0010] Tools	^				
Additional Child Objects(0)	Component state Active					
<ul> <li>O:Standard</li> <li>Add new</li> </ul>	Name User defined contour pro	ofile				
▲ DigiPara Geometry(4)	This Object belongs to Product Option 0					
<ul> <li>O:Standard (4)</li> <li>Profile 0</li> </ul>	Shape C1 User defined Outlin Sweep None	ne 0 [-2000] 🔍				
Profile 1 Profile 2	DX [mm]: PDX = 10 10					
Add new	X0 [mm] = 0 0 Y0 [mm] = 0 0					
<ul> <li>Characteristic points(5)</li> <li>-2000:User defined Outline 0 (5)</li> <li>PT0 (0.0.0)</li> </ul>	20 [mm] = 0     0     0     [0519] Options     √     [0520] 3D Parameter					
PT1 (0,-150,0) PT2 (-50,-150,0)	[0]: DBG 1000 [1]: GD_H_1 45 [5]: PBU_DY 180					
PT3 (-200,-50,0) PT4 (-200,0,0)	[6]: PBU_DZ 50 [20]: CAR_DBG 1100					
Add new	[21]: CAR_GD_H_1 70 [23]: P23 832.5					

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PL1.7 ADDITIONAL TRAINING MATERIALS

### Recommended settings for several profiles with different individual contours.

View related developer settings







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PL1.7 ADDITIONAL TRAINING MATERIALS

### Save this BIM Component back into ...

• ... the DigiPara BIM Library



# **PL1.8**

# Summary & custom Q&A's





# Congratulations You reached the next level



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Your instructor will be available for individual questions after the module training.

training@digipara.com



# in († O) 🕨

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