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Elevator Design Fundamentals



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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.

Agenda COMPONENT PROPERTIES AND ADVANCED OPTIONS

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A2.1 Component Properties

- Main Project Data & Component State
- Component Exchange

A2.2 Component Options & Rules

- Product Options
- Options and Rules Docking Window
- Component Rules



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A2.3 Rail Brackets

- Brackets & Bracket List
- Bracket Fixing Options
- Concrete Beam

A2.5 Refuge Spaces and Platforms

- Car Balustrade
- Scaffoldings

A2.4 Door Mountings and Installation

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- Entrance Pocket
- Additional Sill Options

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- Hall Button
- Hall Display
- Wall Finish

Agenda PRACTICAL EXAMPLES: TRACTION ELEVATOR

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- Counterweight Location
- Pulley Beam Settings
- Adding Load Hooks

A2.9 Ropes & Wall Fixings

Rope Fixing Position

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- L-shaped Car Frame

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- Machine Beams Central guided
- Gear Base Construction for Self-Construction
- Gear Base Construction Lateral guided

Agenda PRACTICAL EXAMPLES: HYDRAULIC ELEVATOR

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Rail Bracket Fixing Options

A2.13 Summary

Custom Q&A's

A2.12 Machine Room

- Machine Room Basic Settings
- MR to MRL

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A2.1

Component Properties



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Training Preparation

CREATE AN ELEVATOR WITH THE FOLLOWING SPECIFICATIONS:

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Shaft Wizard

- 5 floors
- Typical floor to floor distance 3000 mm
 - Consider travel no
 - Create building floor levels no
- Traction elevator 2:1
- 13 persons / 1000 kg, 1 m/s
- Machine room
 - Below / left
- Car roping
 - 2 pulleys below
 - with CW safety gear
- Counterweight roping
 - 1 pulley top
 - Counterweight left
- Sheet Templates
 - LD Installation Drawing
 - LD Typical Views For Your Elevator

Further specifications

- Car size
 - Car width : 1600 mm
 - Car depth : 1400 mm
- Entrances
 - Front: all floors
 - Rear: first and last level
- Individual Floor to Floor Distance
 - Pit: 1200 mm
 - E1: 2900 mm
 - E2: 3000 mm
 - E3: 3000 mm
 - E4: 3800 mm
- Save the project under the following file name: LDTrainingSampleA2_01.ld3

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A2.1 COMPONENT PROPERTIES

Main Project Data

 The main project data dialog provides you with an initial simple overview of your elevator project.

	Project	Sheet	View Frame	Dimensions
S	<mark>க்</mark> கி கி	M	8	
In	Sloppy	Main Project	Cabin	Group and Shaft
e	Mode	Data	Configurator	Configurator
ard			Project	

📅 DigiPara Liftdesigner 2024 - Main Project Data - 🗆 🗙					
Objects	Properties				
▲ 🗹 E0	Lock Update Database Table [L_Proje	cts.]			
 Project Data Shaft Car Counterweight Drive Machine Room Pit Forces 	 [0116] Project Data Project number Project name Commission number Drawing number Prepared by Date 	A2 Training Goettert 6/13/2024			
► neadroom Forces	Name 1 (1) Key: PROJ_ARCH_NAME1 3D-View				×
Window			Close	Help	

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A2.1 COMPONENT PROPERTIES

Main Project Data

- In addition to the general project data, which is used for the content of the title blocks, for example, you will find the overarching component structure with the most important main components of your 3D elevator model.
- Here you have the opportunity to:
 - change values and properties
 - activate or deactivate components



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Additional components that can be added to the project

can be found via the Data tree or the Breadcrumb docking window



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A2.1 COMPONENT PROPERTIES

Modifying the LOAD_HOOK_COUNT variable

of the desired component (here counterweight)



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A2.1 COMPONENT PROPERTIES

Activate the components geometry



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A2.1 COMPONENT PROPERTIES

Multiple load hooks

- set the count variable to the desired number
- optimize the relative positions of the individual load hooks



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A2.1 COMPONENT PROPERTIES

Components State: Active / Inactive

- has an effect on the entire elevator model
- the associated logic for the component is also inactive



Bre	adcrumb		д	×
Do	ocument. Shaft0. Car. Door1. 🔻			
))	Favorites Options			
Pro	operties		Ļ	×
Loc	k Update Car door Front [Door1.]			
~	[0010] Tools			
	Component state	Inactive	~	
~	[0020] General			
	Manufacturer	Common components		
	Designation	C2L		
	Type	900		
	21			



Component Exchange

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Exchange components from the DigiPara library



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A2.2

Component Options & Rules



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Product Options A2.2 COMPONENTS OPTIONS & RULES

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Are available by default for some of the DigiPara Liftdesigner BIM components e.g. for:

- Rail brackets
- Traction machines
- Gear frames
- Car frames
- etc.



Product Options A2.2 COMPONENTS OPTIONS & RULES

Enabling and disabling

- via Properties docking window by adding or removing a check mark.
- Product Options can consist of one or more profiles.
- Switching off the bracket wall fixing profiles:
 - short profiles outwards left and right



Options and Rules Docking Window

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A2.2 COMPONENTS OPTIONS & RULES

Not only intended for component developers, but also useful for Liftdesigner users.

Activation via the Start tab



Common components are designed to be manufacturerneutral and generally do not have rules governing their behavior when changes are made.

ptions	and rules	
🖌 Ор	tions: Rail bracket for concrete fixing, CWT and car guides	
	Car guides - wall fixing - short profile	
	Car guides - wall fixing - long profile for rectangular 300	
	Car guides - wall fixing - long profile for rectangular 400	
	Car guides - interim piece - U profile	
	Car guides - interim piece - 2 x L profile : 300 (rectangular)	
	Car guides - interim piece - 2 x L profile : 400 (rectangular)	
\checkmark	Car guides - rail fixing - short profile	
	Car guides - rail fixing - long profile for rectangular 300	
	Car guides - rail fixing - long profile for rectangular 400	
	CWT guides - wall fixing - long profile - fixing at rear wall	
\checkmark	CWT guides - protecting profile	
	CWT guides right - wall fixing - short profile centerd - fixing at rear wall	
	CWT guides left - wall fixing - short profile centerd - fixing at rear wall	
\checkmark	CWT guides right - wall fixing - short profile outwards - fixing at rear wall	
\checkmark	CWT guides left - wall fixing - short profile outwards - fixing at rear wall	
	CWT guides right - wall fixing - short profile - fixing at side wall	
	CWT guides left - wall fixing - short profile - fixing at side wall	
\checkmark	CWT guides right - interim piece - fixing at rear wall	
\checkmark	CWT guides left - interim piece - fixing at rear wall	
	CWT guides right - interim piece - fixing at side wall	
	CWT guides left - interim piece - fixing at side wall	
	CWT guides right - rail fixing - fixing at side wall	
	CWT guides left - rail fixing left fixing at side wall	
	CWT guides left - interim piece short - fixing at rear wall	
	CWT guides right - interim piece short - fixing at rear wall	

Component Rule A2.2 COMPONENTS OPTIONS & RULES

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Component rules can be deactivated and reactivated

• by a check mark

 Only the manufacturer or developer of the component is authorized to change rules and save them permanently in the database.



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A2.3

Rail Brackets



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Brackets & Bracket List

A2.3 RAIL BRACKETS

Rail brackets properties

 can be displayed by selecting a single bracket in the drawing and selecting the rail brackets parent object via the Breadcrumb window afterwards.



Bracket Fixing Options

A2.3 RAIL BRACKETS

Rail bracket fixing options

can be changes via the Rail Brackets list

Pro	Properties 4						
Loc	k Update Rail brackets [BracketList.]						
~	 [0024] Product Options 						
	Selected Product Options	Select from Option List					
~	[0415] Fixing Options						
	Anchor Rails	One					
	Place automatically	No					
	Determines number automatically	No					
	Rail Bracket Type	Concrete					
	Separator Beam	No					
~	[0416] Number and Spacing		1				





Rail Bracket Fixing Options

A2.3 RAIL BRACKETS

Anchor rail lengths:

- Use standard from list or define your own lengths
 - YES (default): specified length from the database
 - NO: set length manually

If a manual length is set first and you reactivate the standard lengths, the closest fixed length will be chosen



[0100] Length		
Use standard lengths	Yes	
Anchor rail length [mm]	1550	\sim
Bolts Calculation	100	
Bolt X0	150	
Bolt DX	200	
Bolt Count	250	standard
Wall thickness min.	300	_
[0801] Wall Segment	350	
Concrete beam enabled	400	
Expose concrete beam	400	
[3635] View Frame Settings	550	
Representation	1050	
Dash	1300	
Extended Dimension	1550	
[3805] Render	1800	
All available Surfaces	2050	
[4210] Product Administration	2300	
Object name	EDXANCHOFKAII, IGANCHO	ткан

[0100] Length Use standard lengths	No	
Anchor rail length [mm]	1535	custom
Bolts Calculation	Automatically	
Bolt X0	25	
Bolt DX	250	
Bolt Count	6	
Wall thickness min.	0	
[0801] Wall Segment		
Concrete beam enabled	No	

Rail Bracket Fixing Options

A2.3 RAIL BRACKETS

Anchor bolts:

Adjust count and position manually





Rail Bracket Fixing Options

A2.3 RAIL BRACKETS

Anchor rail position:

- Hint: activate the Design Mode
- select Dimension in current the view frame





Loc	k Update Rail bra	ckets [BracketList.]		
	Create geometry	/	By parent	
	Create geometry	y status	Create	
~	[0024] Product	Options		
	Selected Product Options		Select from Option List	
~	[0415] Fixing C	ptions		
Г	Anchor Rails		Two	
	Place automatica	ally	No	\sim
	Determines number automatically		No	
Rail Bracket Typ				
Separator Beam Placement is exclusively manual a			s exclusively manual as	
~	[0416] Number	umber soon as a dimension is processed in		
	the dimension chain.			



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Create Geometry By parent Create Geometry status Create [0100] Length ~ Use standard lengths Yes Anchor rail length [mm] 200 [0801] Wall Segment Concrete beam enabled No Expose concrete beam [3635] View Frame Settings × Representation Default (by Frame) Ŵ Use standard lengths Yes Anchor rail length [mm] 200 [0801] Wall Segment Concrete beam enabled Yes Concrete beam material Concrete Beam ्री Automatically Concrete beam size Hint for plan view representation: 200 Concrete beam DZ Enable section plane Concrete beam Z0 0 Yes Expose concrete beam [3035] View Frame Settings Representation Default (by Frame)

Concrete Beam for Anchor Rails

How to activate

Concrete Beam

Concrete Beam A2.3 RAIL BRACKETS

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Concrete Beam for Anchor Rails

• Change size and position





& Additional Objects

EL1

Individuell Settings A2.3 RAIL BRACKETS

Individuell settings for single brackets

8900

5900

floor related



Document, Shaft0, CW, BracketList

Bracket5.

Breadcrumb

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A2.4

Door Mounting & Installation



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The component visibility of the anchor rails for the respective viewing frame must be switched on.



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Component Visibility

G 💁



X

Top anchor rails can be added

Shaft Door Anchor Rails

A2.4 DOOR MOUNTING & INSTALLATION

- via the ShaftDoor using the DoorFixingPointListO. Properties
 - **Fixing Options**

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[0420] Fixing Options

One large anchor rail

Extended Dimension

[3635] View Frame Settings

Arrange manually

Representation

Das

1050

Х

975

Yes

No

No

Default (by Frame)

Bottom anchor rails can be added

- via the ShaftDoor using the DoorFixingPointList1. Properties
 - Fixing Options

Shaft Door Anchor Rails

A2.4 DOOR MOUNTING & INSTALLATION

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A2.4 DOOR MOUNTING & INSTALLATION

Shaft Door Anchor Rails

Adjust the position

 directly on the drawing in an entrance view

	<i>~</i>	<mark>्री</mark> की की			
Start	Design	Sloppy			
Page	Mode	Mode			
	Standard				




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Entrance Pocket A2.4 DOOR MOUNTING & INSTALLATION

Display the **Pocket** properties

 The entry pocket properties can be displayed by selecting the landing door in the drawing first and selecting the entry pocket object via the Breadcrumb tree window afterwards.





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Edit the **Pocket** depth

 The entry pocket automatically gets created for all entries on the corresponding shaft wall side.



Pro	perties	ч х					
Lock Update Entry pocket [Pocket0.]							
~	[0022] Project Level Geometry Information						
	Create geometry	By parent					
	Create geometry status	Create					
~	[0295] Pocket Options						
	Grouping	Modify with group					
\sim	[0296] Pocket Dimensions						
	Pocket depth [mm]	50					
	Pocket width option	Automatically (full width)					
	Pocket width [mm]	2180					
	Distance to corner [mm]	0					
	Pocket height above calculation	Rel. to door height					
	DZ [mm]	500					
	Door height	2000					
	Pocket height above [mm]	2500					
	Pocket height below [mm]	200					
	Resulting pocket height [mm]	2700					
~	[3635] View Frame Settings						
	D	Defends des Frances					

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Edit the **Pocket** width

Switch to pocket width option: Manually



Pro	operties	ч х					
Loc	k Update Entry pocket [Pocket0.]						
>	[0022] Project Level Geometry Information						
 ~	[0295] Pocket Options						
	Grouping	Modify with group					
 ~	[0296] Pocket Dimensions						
	Pocket depth [mm]	50					
	Pocket width option	Manually					
	Pocket width [mm]	1540					
Í	Distance to corner [mm]	770					
	Pocket height above calculation	Rel. to door height					

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Edit the **Pocket** height

- Rel. to door height
- Rel. to finished floor



Properties						
Loc	Lock Update Entry pocket [Pocket0.]					
~	[0022] Project Level Geometry Information					
	Create geometry	By parent				
	Create geometry status	Create				
~	[0295] Pocket Options					
	Grouping	This pocket is different				
~	[0296] Pocket Dimensions					
	Pocket depth [mm]	50				
	Pocket width option	Manually				
	Pocket width [mm]	1540				
	Distance to corner [mm]	550		-		
	Pocket height above calculation	Rel. to door height				
	DZ [mm]	400				
	Door height	2000				
	Pocket height above [mm]	2400				
	Pocket height below [mm]	200				
	Resulting pocket height [mm]	2600				
~	[3635] View Frame Settings					

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Individual pocket sizes for specific floors can be defined using the grouping function

• This pocket is different.



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The pocket depth can also be defined quickly and easily using the shaft dimensions.





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Display the Entry properties

- The entry properties can be displayed by selecting the entry concrete in a vertical view
- in edit mode:
 - hatches turned off





Bread	dcrumb	
Doc	ument. Shaft0. Entries1 E0	v (1)
E F	avorites	ŋ
Prop	aution	Shaft0.Entries1.E0.
тор		Entry 0 [E0.]
Lock	Update Entry 0 [E0.]	
(Create Geometry status	Create
×/	[0290] Z - Dimensions	
	Distance to floor above [mm]	2900
	Environment potential [mm]	0
	Finished floor thickness [mm]	50
(Concrete thickness [mm]	250
4	Sync from floor level	Yes
× 1	[0291] Entry Settings	
	Add. sill option	🖂 No 🗸
Ę	Synchronize description from f	or level Yes
~	[0332] Hall Button and Indica	ors
	Entrance situation	Panels for max. 5 cars
	Hall buttons on all floors	Yes
	Hall button type top floor	Common components, Hall button (Top
	Hall button type intermediate flo	or/s Common components, Hall button (inter
	Hall button type bottom floor	Common components, Hall button (Top
× 1	[3635] View Frame Settings	
1	Representation	Default (by Frame)
	Dash	No
	Extended Dimension	No
~ 1	[3805] Render	
	All available Surfaces	0
~	[4210] Product Administration	
	Object name	LDXEntry, idEntry
	-	

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Select from 3 different sill options

• The Add. sill option will be applied to all entries on the corresponding shaft wall



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Entry Settings

 The depth and height of the sill can be defined using the DY and DZ dimensions.



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Set the Grouping option individually

 Specify the Sill option for a single entrance only. The property must be set before the Add. sill option is applied.



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Individual sill options for different floor levels



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A2.5

Refuge Spaces & Platforms



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Our general recommendation is to check the component visibility of the Refuge Spaces and Assembly Platforms in advance.

In new view frames, these are not always switched on automatically by default.





Car Balustrade A2.5 REFUGE SPACES & PLATFORMS

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μ X

4 X

Display the Car Balustrade properties

 The Car balustrade properties can be displayed by selecting the car in the drawing first and selecting the Car balustrade object via the Breadcrumb window afterwards.



Breadcrumb

Favorites

Properties

Document. Shaft0. Car.

Lock Update Car ba

[0010] Tools
 Component state

alustrade. 🔻

ustrade [Balustrade.]

Inactive

Car Balustrade A2.5 REFUGE SPACES & PLATFORMS

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Activating and selecting the car balustrade

Choose a component from the library



Car Balustrade A2.5 REFUGE SPACES & PLATFORMS

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Display the Assembly platforms



Scaffoldings A2.5 REFUGE SPACES & PLATFORMS

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HOME digipara liftdesigner Setting extension Floor Levels Building E0 Pb 4 Level Floor To Floor Re Scaffoldings Designa Distance tion Group and Shaft 120,00 Configurator Headroom 4100 ☑ Edit **♣**¹ **♣**¹⁰ 2 🔷 12000 4 ~ Π 1 🖨 3 9000 ~ 1 🜲 2 6000 ~ 1 🜲 3000 -1 1 🜲 ~ 0 0 3 **4**¹ **4**¹⁰ Default for new floors 1300 3000 Pit

Quantity

Project

<mark>송</mark> 음 종

Mode

1 Sloppy

ard

Sheet

N

Main Project

Data

The number of platforms per floor can be set via the group and shaft configurator.

View Frame

 \bigotimes

Cabin

Configurator

Project

Floor Levels

Dimensions

Scaffoldings A2.5 REFUGE SPACES & PLATFORMS

Location

• The position of new platforms is arranged as a negative value under the entry by default.



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Scaffoldings A2.5 REFUGE SPACES & PLATFORMS

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Placing a platform in the shaft head

• Set height as positive value



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A2.6

Panels



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Hole

The hole of the control panel can be changed or adapted via the properties.

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ф.

Switch on the Design Mode to directly pick holes in the drawing

Design

Mode

Standard

Start

Page

or use the Breadcrumb docking window





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Hall Button A2.6 PANELS

Hole size

- Adapt the clearence
 - Hole Height
 - Hole Width
 - Hole Depth



Loc	k Update Hole 0 [Hole0.]					
~	[0002] Hole Height					
	Clearance above [mm]	10				
	Height of the box [mm]	225				
	Clearance below [mm]	10				
	Resulting opening height [mm]	245				
~	[0003] Hole Width					
	Clearance Left [mm]	10				
	Width of the Box [mm]	70				
	Clearance Right [mm]	10				
	Resulting opening width [mm]	90				
~	[0004] Hole Depth					
	Depth of the box [mm]	65				
	Clearance behind box [mm]	10				
	Resulting opening depth [mm]	75				
~	[0022] Project Level Geometry Inform	nation				

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Through hole size

• The associated through hole can also be edited using the corresponding properties.



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Through hole position and angle

• The associated through hole can be positioned and inclined by setting an angle.



Bre	adcrumb								
Do	ocument.	Shaft0.	Entri	es1.	E0.	Pan	el0.	Hole	0. T
•	Favorite: Options	5							
Pro	operties								
Loc	k Update	Hole 0 [l	Hole0.]						
>	[0002]	Hole He	ight						
>	[0003] I	Hole Wi	dth						
>	[0004] I	Hole De	pth						
>	[0022]	Project l	Level (Geon	netr	y Inf	orm	ation	
~	[0070] 1	Through	n Hole	1 Po	siti	on	-		-
	X0 [mm]						40		
	Z0 [mm]						0		
	Angle						-30		
~	[0071] Through Hole 1 Size								
	DX [mm]	(1)					20		
	DZ [mm]	(1)					50		
	Shape						Cylin	drical	

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Position

- is automatically positioned in the right wall by default
- different positioning options can be defined via the associated properties window



- Hint:
 - In the Design Mode, you can find components that are hidden in the shaft wall.

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Individual position for different floor levels

- Grouping (Hall Button position)
 - This panel is different



Lock U	Jpdate	Hall Button [Panel0.]						
> [0	> [0022] Project Level Geometry Information							
> [0	[0330] Type							
~ [0)331] F	Position						
G	rouping	g (Hall Button position)	This panel position is different	~				
G	eneral	position	🕞 In the right wall					
C	entered	between two doors	No					
Po	osition	relative (right)	[🖞 to the door width					
Re	elative	X-Distance [mm]	240					
R	elative	Y-Distance [mm]	0					
× 10	13321	Hall Button and Indicate	275					

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How to activate further panel for a floor level

• via the entry



Breadcrumb



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Hall Display A2.6 PANELS

Position

- is positioned in automatically in the door (default setting)
- can be defined via the associated properties window



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Hall Display A2.6 PANELS

Hall Button & Hall Display

 can be shown and hidden via the properties on all floors for the elevator project

		Properties		4 х	
		Lock Update Hall Display [Panel1.]			
	4	> [0010] Tools			
		 ~ [0020] General 			
		Manufacturer	Common components		
		Designation	Hall display		
╶╝╨╼┶╶╢╶╢┊╱╢┊┊╧╝╨╼┶		Туре	above landing door		
		Extended settings	<>		
		> [0022] Project Level Ge	cometry Information		
		🗸 [0330] Туре			
· <mark>│ ∥ ├ ^ॼ╤╝</mark> ┤ │ │ │ │ │ │ │ │ │ │ │ │ │ │		Grouping	Modify with group		
	3	Create holes in the wall	Yes		
		 V [0331] Position 			
		Grouping (Hall Display p			
		Positioning calculation	Automatically		
		Position relative	- to the door height		
4 1		Relative distance [mm]	400		
		V [0332] Hall Button and	Indicators		
		Entrance situation	Panels for max. 5 cars		
│ ₩┼╼┼╤╤┽╝ ╹┝╲ ╷│ │ │ ╄╫┾╼┽		Hall Displays on all floor	s No	\sim	
	2 6	> [0671] Number && Lo	catio No		
		> [3635] View Frame Set	tings Yes		
		I \ [220E] Pondor	L	1	
		V [0332] Hall Button and	I Indicators		
		Entrance situation	Panels for max. 5 cars		
		Hall Displays on all floor	s Yes	~	
		> [0671] Number && Lo	catio No		
		> [3635] View Frame Set	tings Yes		
		> [3805] Render			


Wall Finish A2.6 PANELS

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Thickness (Wall)



Bre	adcrumb	ч х				
Document. Shaft0. Entries1. E0. WallFinish. 🔻						
▶ Favorites						
▶ Options						
Pro	perties					
Lock Update Wall finish [WallFinish.]						
~	[0010] Tools					
	Component state	Active				
~	[0020] General					
	Manufacturer					
	Designation					
	Туре					
~	[0022] Project Level Geometry Information					
	Create geometry	By parent				
	Create geometry status	Create				
~	[0301] Wall Finish					
	Thickness (Wall) [mm]	50				
~	[0302] Entrance					
	Left angle	0				
	Right angle	0				
~	[3635] View Frame Settings					
	Representation	Default (by Frame)				
	Dash	No				

Wall Finish A2.6 PANELS



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A2.7

Counterweight

(Traction Elevators)



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Training Preparation

CREATE AN ELEVATOR WITH THE FOLLOWING SPECIFICATIONS:

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Shaft Wizard

- 5 floors
- Typical floor to floor distance 3000 mm
 - Consider travel no
 - Create building floor levels no
- Traction elevator 2:1
- 8 persons / 630 kg, 1 m/s
- MRL
 - top
- Car roping
 - 2 pulleys below
 - without CW safety gear
- Counterweight roping
 - 1 pulley top
 - Counterweight right
- Sheet templates
 - LD Installation Drawing
 - LD Typical Views For Your Elevator

Further specifications

- Car size
 - Car width: 1100 mm
 - Car depth: 1400 mm
- Entrances
 - Front: all floors
 - Rear: no entrance
- Individual floor to floor distance
 - Pit: 1200 mm
 - E1: 2900 mm
 - E2: 3000 mm
 - E3: 3000 mm
 - E4: 3800 mm
- Save the project under the following file name: LDTrainingSampleA2_02.ld3

A2.7 COUNTERWEIGHT

Changing the counterweight location to another wall side

- via the Rope Wizard for existing projects
- The Rope Wizard can be activated via the traction machine, the counterweight, the pulley or the pulley beam properties.





DigiPara Liftdesigner - Rope wizard

1/5

Sheet

A2.7 COUNTERWEIGHT

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Change the counterweight location via the Rope Wizard dialog 4/5



A2.7 COUNTERWEIGHT

Distance between the centers

Breadcrumb

Favorites Options

Properties

Lock Update

~

 [0010] Tools
 Rope Wizard

Create geometry

[0110] Misc

Angle

Create geometry status

[0115] Suspension

Document, Shaff0, CW, V

Counterweight console [CW.]

[0022] Project Level Geometry Information

Distance between centerlines [mm]

 Can be changed in the properties of the parent counterweight object or directly via the corresponding dimension in the drawing.

 $\langle \rangle$

By parent

Create

-150

100

ц. Χ.

4 X





A2.7 COUNTERWEIGHT

Changing the pulley beam settings of the Counterweight frame

via the pulley beam properties

Pulley Beam Settings

- The pulley beam properties can be activated
 - via the pulley beam link in the Breadcrumb





Pulley Beam Settings

A2.7 COUNTERWEIGHT

Adapt the arrangement

by changing the pulley beam angle



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Adapt the position

via the counterweight frame properties

Pulley Beam Settings

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A2.8

Car Frame



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Pulley Beam Settings

Changing the pulley beam settings of the car frame

- via the pulley beam properties
- The pulley beam properties can be activated
 - via the pulley beam link in the Breadcrumb



Pulley Beam Settings

Adapt the arrangement

by changing the pulley beam angle



A2.8 CAR FRAME Adapt the location

• via the car frame properties

Pulley Beam Settings

Breadcrumb Document. Shaft0. Car. Frame. Favorites Options Properties **д х** Lock Update Car frame [Frame.] DZ to bottom guide shoe [mr -140 [0131] Buffer Impact DZ calculation Automatically 135 DZ [mm] [0132] Pulley Beam 1 Location Pulley beam 1 DX [mm] 0 Pulley beam 1 DY [mm] 300 Pulley beam 1 DZ [mm] 0 2 pulleys below Suspension [0140] DBG \sim

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Ч**Е**∯_

Breadcrumb Document. Shaft0. Car. Frame. Support0. Favorites Options Properties **4** X Pulley Beam 0 [Support0.] Lock Update [0010] Tools [0020] General 475 475 Manufacturer Common components Designation Pulley beam car sling Type [0022] Project Level Geometry Information Create geometry By parent Create geometry status Create ✓ [0450] Arrangement Pulley beam angle 180 Align Align [0451] Pulleys on Beam Location pulley 1 (negative value) -475 Location pulley 2 [mm] 475 [3635] View Frame Settings Default (by Frame) Representation

Adapt the pulley distance

Pulley Beam Settings

A2.8 CAR FRAME

Pulley Beam Settings

A2.8 CAR FRAME

The position of the machine can be adjusted so that it adapts to the pulley beam settings.







Training Preparation

CREATE AN ELEVATOR WITH THE FOLLOWING SPECIFICATIONS:

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Shaft Wizard

- 5 floors
- Typical floor to floor distance 3000 mm
 - Consider travel no
 - Create building floor levels no
- Traction elevator 2:1
- 13 persons / 1000 kg, 1 m/s
- MRL
 - top
- Car roping
 - 1 pulley top
 - without CW safety gear
- Counterweight roping
 - 1 pulley top
 - Counterweight left
- Sheet templates
 - LD Installation Drawing
 - LD Typical Views For Your Elevator

Further specifications

- Car size
 - Car width: 1600 mm
 - Car depth: 1400 mm
- Entrances
 - Front: all floors
 - Rear: first and last
- Individual floor to floor distance
 - Pit: 1200 mm
 - E1: 2900 mm
 - E2: 3000 mm
 - E3: 3000 mm
 - E4: 3800 mm
- Save the project under the following file name: LDTrainingSampleA2_03.ld3

L-shaped Car Frame

Must be selected manually

- for non MRL elevators after the shaft wizard has been finished
- The next steps describe the replacement process of a central guided elevator into a lateral guided system for elevators with machine room.

Properties				×	
Loc	k Update Car frame [Frame.]				
~	[0010] Tools				
	Rope Wizard	<>			
	Component state	Active			
~	[0020] General				
I	Manufacturer	Common components			
	Designation	Car sling		4	
	Туре	Rope			
╘	[0021] Car sling				
	Heigth of top car frame beam [mm]	140			
	Heigth of bottom car frame beam [mm	140			
~	[0022] Project Level Geometry Information				
	Create geometry	By parent			
	Create geometry status	Create			



A2.8 CAR FRAME

L-shaped Car Frame

Exchange of central guided in lateral guided car frame

- via the Component Navigator
 - Rope L-shaped car frame 2:1 guides outside





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L-shaped Car Frame

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Changing the car frame position

- via the Properties docking window
- A change of the car frame position is recommended in order to adapt the elevator system to the new requirements. A recalculation is carried out in the background.

Properties		д х
Lock Update Car frame [Frame	e.]	
DZ calculation	Automatically	
DZ [mm]	400	
v [0132] Pulley Beam 1 L	Location	
Pulley beam 1 DX [mm]	0	
Pulley beam 1 DY [mm]	0	
Pulley beam 1 DZ [mm]	0	
Suspension	📋 1 pulley above	
✓ [0140] DBG		
Distance between guides	s [mm] 750	
Car frame position	📑 Right	\sim
 [0141] Weights 	I	
Car frame weight [kg]	Left	
 [0145] Car Frame Heigl 	ht	
H1 [mm]		
H2 [mm]	Right	
Raw car frame height [m	1m]	
~ [0900] Developer		

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L-shaped Car Frame

Modifying the Rail Brackets

via the Properties docking window

Properties # ×				×
Loc	k Update Bracket 2 [Bracket2.]			
~	[0001]			
	Design	<>		
~	[0010] Tools			
	Component state	Active		
Y	[0020] General			
	Manufacturer	Common components		
	Designation	Rail bracket for concrete fixing		
	Туре	CWT and car - CF guides outside - betw	veen	
	[0021] Rail bracket for concrete fixin	ng		
	Position of nulley beam in 7-direction (



L-shaped Car Frame



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Floor Levels

x



Customize the entrance settings

- The switch to a lateral guided elevator system now offers the option of entrances on both sides of the shaft walls.

L-shaped Car Frame A2.8 CAR FRAME

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A2.9

Ropes & Wall Fixings

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Rope wall fixing components are available as child object of

A2.9 ROPES & WALL FIXINGS

Rope Wall Fixings

the current shaft the position determined automatically by default

the position determined automatically by default







Rope Wall Fixings

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Adapt the location and define the wall opening settings

via the fixing options properties



Properties P				
Lock Update Rope wall fixing [WallFixing0.]				
~	[0010] Tools			choose a suitable
	Rope Wizard	\diamond		component
	Component state	Active		
~	[0020] General		1	
	Manufacturer	Common components		configure the
	Designation	Rope Suspension		associated
	Туре	Fixing at shaft ceiling		associated
	Angle	0		geometry
~	[0021] Rope Suspension		1	
	Length of rope fixing (only rods) [mm]	400		
	Length of plate [mm]	150		
	Width of plate [mm]	250		switch on profiles
~	[0022] Project Level Geometry Inform	nation		
	Create geometry	By parent		7
	Create geometry status	Create		
~	[0024] Product Options			
	Selected Product Options	Select from Option List	~	
~	[0480] Fixing Options	RWF in Headroom profile	e	determine the
	Determine X & Y Position automatically	Automatically		position
	X0 [mm]	-1083		
	Y0 [mm]	160		
	Reference plane	Headroom		remove openings
	Reference plane location [mm]	-200		that are no longer
	Wall opening	No		required
	Z0 [mm]	17800		required
	IDEDEDAR DE CONT			

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A2.10

Machine Base (MRL)



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Training Preparation

CREATE AN ELEVATOR WITH THE FOLLOWING SPECIFICATIONS:

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Shaft Wizard

- 5 floors
- Typical floor to floor distance 3000 mm
 - Consider travel no
 - Create building floor levels no
- Traction elevator 2:1
- 13 persons / 1000 kg, 1 m/s
- Drive Location in the shaft head (MRL)
- Car roping
 - 2 pulleys below
 - with CW safety gear
- Counterweight roping
 - 1 pulley top
 - Counterweight left
- Sheet Templates
 - LD Installation Drawing
 - LD Typical Views For Your Elevator

Further specifications

- Car size
 - Car width : 1600 mm
 - Car depth : 1400 mm
- Entrances
 - Front: all floors
 - Rear: first and last level
- Individual Floor to Floor Distance
 - Pit: 1200 mm
 - E1: 2900 mm
 - E2: 3000 mm
 - E3: 3000 mm
 - E4: 3800 mm
- Save the project under the following file name: LDTrainingSampleA2_04.ld3



Central guided

Machine Beams – Central guided

A2.10 MACHINE BASE (MRL)

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As default, the machine with the corresponding machine bed is placed in the shaft head on 2 configurable support beams

• for central guided MRL elevators.







Machine Beams – Central guided

A2.10 MACHINE BASE (MRL)

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4 X

In addition to the adjustable length and position of the beams, the corresponding openings can also be adjusted separately Properties

- Lock Update Machine beam 1 [Beam1.] via the Properties docking window I-Profil Designation 100 Type [0022] Project Level Geometry Information
 Grouping woally with group length V [0373] Machine Bed mounting supported by 2 machine room beams Machine bed Beam support front [mm] 150 Beam support rear [mm] 50 [0421] Machine Beam WO Clearances
 Left side of the profile [mm] 50 wall openings Right side of the profile [mm] 50 Above the profile [mm] 25 Below the profile [mm] 30 Front end of the profile [mm] 30 Rear end of the profile [mm] 30 V [0424] Machine Beam Locations Y0 Beam 2 [mm] 180
✓ Gear Base Construction

For Self-Construction

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A2.10 MACHINE BASE (MRL)

Preparation Step

- switch of current support beams
 - directly on the machine room floor





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A2.10 MACHINE BASE (MRL)

Gear Base Construction Units can be activated

via the Properties docking window

D	a dammala		
Bre	adcrumb		- 4 X
Do	ocument. Shaft <mark>(</mark> . Gear. <mark>GearBase</mark>	Construction.	
►	Favorites		
•	Options		
Pro	operties		д X
Loc	k Update Gear base construction unit [GearBaseConstruction.]	
~	[0010] Tools		
	Component state	Active	
~	[0020] General		
	Manufacturer	Common components	
	Designation		
	Туре		
~	[0022] Project Level Geometry In	nformation	
	Create geometry	By parent	
	Create geometry status	Create	
~	[0060] Horiz. Main Beams Dime	nsions / Position	
	1st beam Y-dist, from gear BP Imn	n] 0	



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A2.10 MACHINE BASE (MRL)

Switch off unnecessary profiles

Customize related Product Options



DIC	aderanto	Τ Λ			
Document. Shaft0. Gear. GearBaseConstruction.					
	Favorites				
•	Options				
Pro	perties	₽ ×			
Loc	k Update Gear base construction unit [Gea	rBaseConstruction.]			
	Component state	Active			
~	[0020] General	1			
	Manufacturer	Common components			
	Designation	Common MRL Gear Base Construction			
	Туре	For Self Construction			
~	[0022] Project Level Geometry Information				
	Create geometry	By parent			
	Create geometry status	Create			
~	[0024] Product Options				
	Selected Product Options	Select from Option List 🛛 🖂			
~	[0060] Horiz. Main Beams Dim	ld beams - horizontal - profile			
	1st beam Y-dist. from gear BP [n 🗌 Ad	d beams - horizontal - wall fixing 3			
	2nd beam Y-dist. from gear BP [d beams - horizontal - wall fixing 4			
	Height [mm] (1)	d beams - vertical - profile			
	Width [mm] (1)	dd beams - vertical - wall fixing 1			
	Overlap left [mm] (1)	d beams - vertical - wall fixing 2			
	Overlap right [mm] (1)	ain beams - horizontal - profile 1			
~	[0061] Additional Horizontal	ain beams - horizontal - profile 2			
	DY rel. to shaft BP [mm]	ain beams - horizontal - wall fixing 3			
	Z0 [mm] (1)	ain beams, vertical, profile 1			
	Height [mm] (2)	ain beams - vertical - profile 1			
	Width [mm] (1)	ain beams - vertical - wall fixing 1			
	Overlap left [mm]	ain beams - vertical - wall fixing 2			
	Overlap right [mm]	an beams vertical wan hang 2			





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A2.10 MACHINE BASE (MRL)

Arrange the Properties window

 Close unnecessary functions for a more organized overview.

	Pro	perties	д ;
	Loc	k Update Gear base construction unit [Gear	BaseConstruction.]
		Designation	Common MRL Gear Base Construction
		Туре	For Self Construction
	~	[0022] Project Level Geometry Infor	mation
		Create geometry	By parent
		Create geometry status	Create
	~	[0024] Product Options	
		Selected Product Options	Select from Option List
	>	0060] Horiz. Main Beams Dimensio	ons / Position
	>	0061] Additional Horizontal Beam	Dimensions / Position
	~	[0062] Vert. Main Beams Dimension	ns / Position
		1st beam X-dist. rel. to gear BP [mm]	100
		2nd beam X-dist. rel. to gear BP [mm]	100
		Height [mm](1)	100
		Width [mm](1)	100
		Overlap front [mm]	-20
_		Overlap rear [mm] (1)	-20
	>	0063] Additional Vertical Beam Dir	mensions / Position
	>	0064] Wall Fixings Horiz. Main Bea	ims
	>	0065] Wall Fixings Add. Horiz. Bea	m
	~	[0066] Wall Fixings Vert. Main Bear	ns
		Length [mm] (2) (1)	400
		DY rel. to gear BP [mm]	200
	>	[0067] Wall Fixings Add. Vert. Bean	n
	~	[26251 View Evenue Cettings	

A2.10 MACHINE BASE (MRL)

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Determine the Beams Dimensions and Position

Pro	perties		
Loc	Lock Update Gear base construction unit [GearBaseConstruction.]		
	Create geometry status	Create	
~	[0024] Product Options		
	Selected Product Options	Select from Opt	tion List
>	[0060] Horiz. Main Beams Dimension	ns / Position	
>	[0061] Additional Horizontal Beam D	imensions / Pos	sition
[0062] Vert Main Beams Dimensions / Position			
	1st beam X-dist. rel. to gear BP [mm]	120	
	2nd beam X-dist. rel. to gear BP [mm]	180	
╘	Height [mm] (1)	100	
	Width [mm] (1)	100	
	Overlap front [mm] (1)	-20	
	Overlap rear [mm] (1)	-20	
>	[0063] Additional Vertical Beam Dim	ensions / Positi	on
>	[0064] Wall Fixings Horiz. Main Bear	ns	





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A2.10 MACHINE BASE (MRL)

Determine the Fixings settings



✓ Gear Base Construction

Lateral guided

Training Preparation

CREATE AN ELEVATOR WITH THE FOLLOWING SPECIFICATIONS:

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Shaft Wizard

- 3 floors
- Typical floor to floor distance 3000 mm
 - Consider travel no
 - Create building floor levels no
- Traction elevator 1:1
- 13 persons / 1000 kg, 1 m/s
- Drive Location in the shaft head (MRL)
- Car roping
 - direct
 - Lateral Guided Car Frames Only
 - Without Counterweight Safety Gear
- Counterweight roping
 - direct
 - Counterweight left
- Sheet Templates
 - LD Installation Drawing
 - LD Typical Views For Your Elevator

Further specifications

- Car size
 - Car width : 1600 mm
 - Car depth : 1400 mm
- Entrances
 - Front: all floors
 - Right: top floor
- Save the project under the following file name: LDTrainingSampleA2_05.ld3

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A2.10 MACHINE BASE (MRL)

From machine beams to mounting between the guide rails



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A2.10 MACHINE BASE (MRL)



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A2.10 MACHINE BASE (MRL)

Selection and alignment of the machine

• via the Gearing Properties



Alignment distance [mm]

Location

Aligned to car

0

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A2.10 MACHINE BASE (MRL)

Customize the pulley diameter

User defined



Pro	Properties			×
Lock Update Pulley 0 [SH0.]				
~	[0010] Tools			
	Rope Wizard	<>		
	Belt Orientation	Default Belt Facing		
	Component state	Active		
~	[0020] General			
	Manufacturer	Common components		
	Designation	Common pulley		
	Туре	270 mm		
~	[0022] Project Level Geometry	Information		
	Draw Default Pulley Geometry	Yes		
	Draw Center Lines	Yes		
	Create geometry	By parent		
	Create geometry status	Create		
~	[0445] Dimensions		1	
	User defined	Yes		
	Diameter [mm]	270		
	Width [mm]	65		
	Number of grooves	5		
J	[3635] View Frame Settings		J	
	Representation	Default (by Frame)		

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A2.11

Rail Brackets

(Hydraulic Elevators)

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Training Preparation

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CREATE AN ELEVATOR WITH THE FOLLOWING SPECIFICATIONS:

Shaft Wizard

- ALGI elevator solution (download from Cloud if not available)
 - ADH 1200 1Z1,2,3 SM700 KB 800
- 4 floors
- Typical floor to floor distance 3000 mm
 - Consider travel no
 - Create building floor levels no
- Traction elevator 1:1
- 16 persons / 1200 kg, 0,5 m/s
 - as specified
- Elevator Characteristics
 - as specified
- Sheet Templates
 - LD Installation Drawing
 - LD Typical Views For Your Elevator
- Save the project under the following file name: LDTrainingSampleA2_06.ld3

Rail Bracket Fixing Options

A2.11 RAIL BRACKETS (HYDRAULIC ELEVATORS)

Can be configured manually

 via the corresponding component properties

A rail bracket can consist of one or more predefined fixing profile groups (similar to Product Options), e.g.

- Standard profiles
- Cylinder fixing profiles
- Guide rail fixing profiles
- etc.



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Pro	perties	1	ļ	×
Loc	k Update Bracket 0 [Bracket0.]			
~	[0020] General			
	Manufacturer	ALGI		
	Designation	ADH 1200		
	Туре	1Z1,2,3-SM 700		
~	[0022] Project Level Geometry I	nformation		
	Create geometry	By parent		
	Create geometry status	Create		
~	[0195] Grouping			
	Grouping	Modify with group		
~	[0415] Fixing Options			
	Set this rail bracket manually	No	\sim	
L	Standard profiles	Vos		
	Jack fixing profiles	Yes		
	Guide Rail Fixing profiles	Yes		
	Jack support fixing profiles	No		
	Helper Guide Rail profiles	No		
	Helper Guide Rail Base profiles	No		
	Left type	Yes		
	Right type	No		
~	[0420] Z - Position			
	Distance to pit / previous bracket	750		
\sim	[3635] View Frame Settings			

Rail Bracket Fixing Options

A2.11 RAIL BRACKETS (HYDRAULIC ELEVATORS)

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Switching off the Jack fixing profiles of the selected rail bracket





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A2.12

Machine Room





Machine Room Basic Settings

Machine Room Basic Settings

A2.12 MACHINE ROOM

Selecting the Machine Room

- via the Breadcrumb window or in Design Mode directly on the drawing
 - the machine room is a child object of the shaft







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Machine Room Basic Settings: Dimensions

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A2.12 MACHINE ROOM

The machine room dimensions can be set individually

• in the Properties window under [0250] Dimensions



Pro	Properties				
Loc	Lock Update Machine room [MachineryRoom.]				
	Left [mm]	200			
	Right [mm]	200			
	Top [mm]	200			
	Bottom [mm]	200			
~	[0241] Options				
	Additional wall opening	\Leftrightarrow			
\sim	[0250] Dimensions				
	MR width [mm]	2750			
	MR depth [mm]	3500			
	MR height [mm]	2450			
~	[0251] Location				
	All lifts share the same MR	Yes			
	Location	Beneath			

Machine Room Basic Settings: Positioning

A2.12 MACHINE ROOM

The machine room can be positioned individually in height (z-direction)

• Example: Z0 [mm]



Machine Room Basic Settings: Positioning

A2.12 MACHINE ROOM

The machine room can be positioned in the same way in x and y direction

- Example: X0 [mm] / Y0 [mm]
- placed separately from the shaft



Loc	k Update Machine room [MachineryRoom	n.]	
~	MR width [mm]	2750	
	MR depth [mm]	3500	
	MR height [mm]	2450	
	[0251] Location		
	All lifts share the same MR	Yes	
	Location	Beneath	
	Merge MR with previous elevator	No	
Г	Align MR automatically	No	
L	X0 [mm]	-4000	
L	Y0 [mm]	1000	
	Z0 [mm]	7300	
~	Align MR accessories automatically	No	
	[0252] Options		
	Machine room-less mode	No	



MR to MRL A2.12 MACHINE ROOM

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Machine room-less Hydraulic elevators can be created manually

 via the machine room Machine room-less mode property

Loc	k Update Machine room [MachineryRoom	n.]
	MR width [mm]	2750
	MR depth [mm]	3500
	MR height [mm]	2450
~	[0251] Location	
	All lifts share the same MR	Yes
	Location	Beneath
	Merge MR with previous elevator	No
	Align MR automatically	No
	X0 [mm]	-4000
	Y0 [mm]	1000
	Z0 [mm]	7300
	Align MR accessories automatically	No
F	[0252] Options	
	Machine room-less mode	No
	[3635] View Frame Settings	
	Representation	Default (by Frame)
	Dash	No

Machine room components are placed in the shaft pit automatically

• They can be deleted, moved

MR to MRL

A2.12 MACHINE ROOM

via the corresponding dimensions and component properties









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The machine room remains a child object of the shaft even in MRL mode

can be added again if required



Bre	adcrumb		₽	×
Do	ocument. Shaft0. MachineryRoom.	Ψ		
) (Favorites Options			
Pro	perties		џ	×
Loc	k Update Machine room [MachineryRoom	ı.]		
~	[0010] Tools			
	Component state	Active		
~	[0020] General			
	Designation	LDXMachineRoom		
	Туре	1490 x 1910		
	Select another standard alignment	\diamond		
 ~	[0022] Project Level Geometry Inf	ormation		
	Create geometry	By parent		
	Create geometry status	Create		
~	[0240] Wall Thickness			
	Free and fore and	200		

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A2.13

Summary & custom Q&A's



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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



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