

Masterclass

Efficient Machine Cabling : Design and Implementation

PROCESS CONSULTING

ENGINEERING SOFTWARE

IMPLEMENTATION

GLOBAL SUPPORT

Not sure what



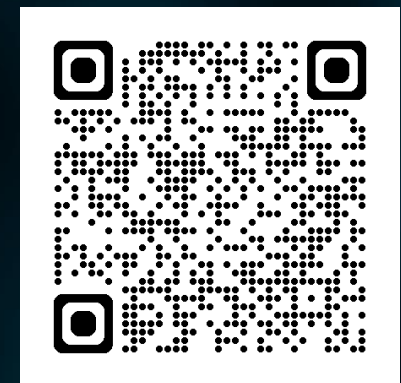
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PROCESS CONSULTING

ENGINEERING SOFTWARE

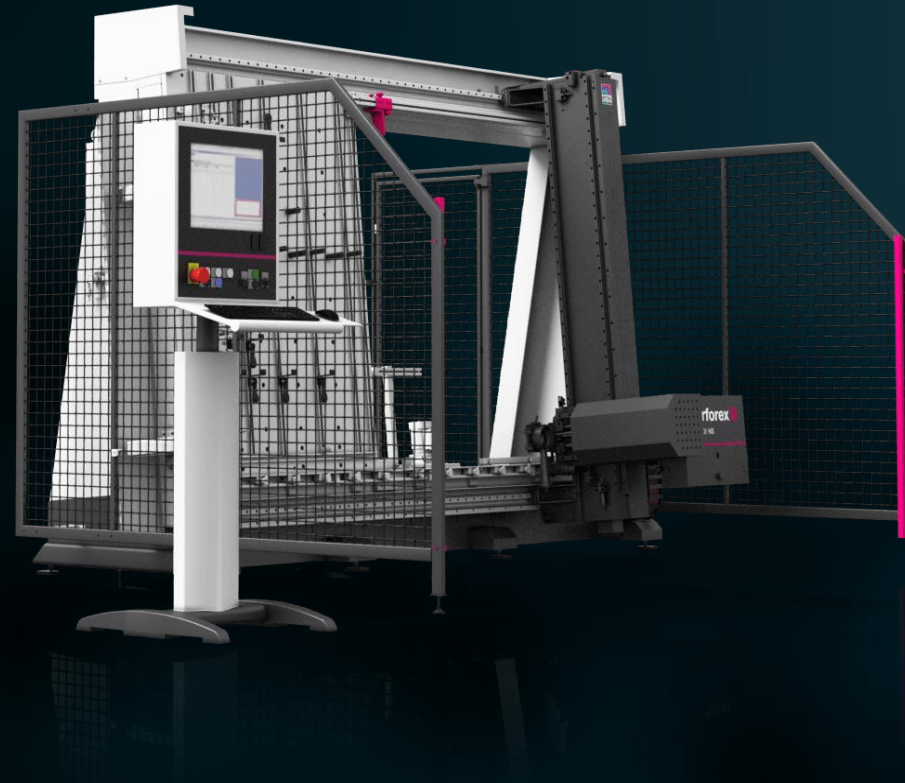
IMPLEMENTATION

GLOBAL SUPPORT

What leads you to our Masterclass "Efficient Machine Cabling" ?

Focusing on your current machine cabling process

Where is your challenge?



What do you want improve?

Replace this slide



Open Menti to edit



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4483 6174

Waiting for participants

Where is your challenge ? / What do you want to improve?

0

Cable way planning

0

Cable length
determination

0

Prefabricated cable
choice

0

Cable installation
instruction

0

Cable preparation

0

Cable installation

Customers ask us

How can I **quickly** and **reliably** determine the **required cable length**?

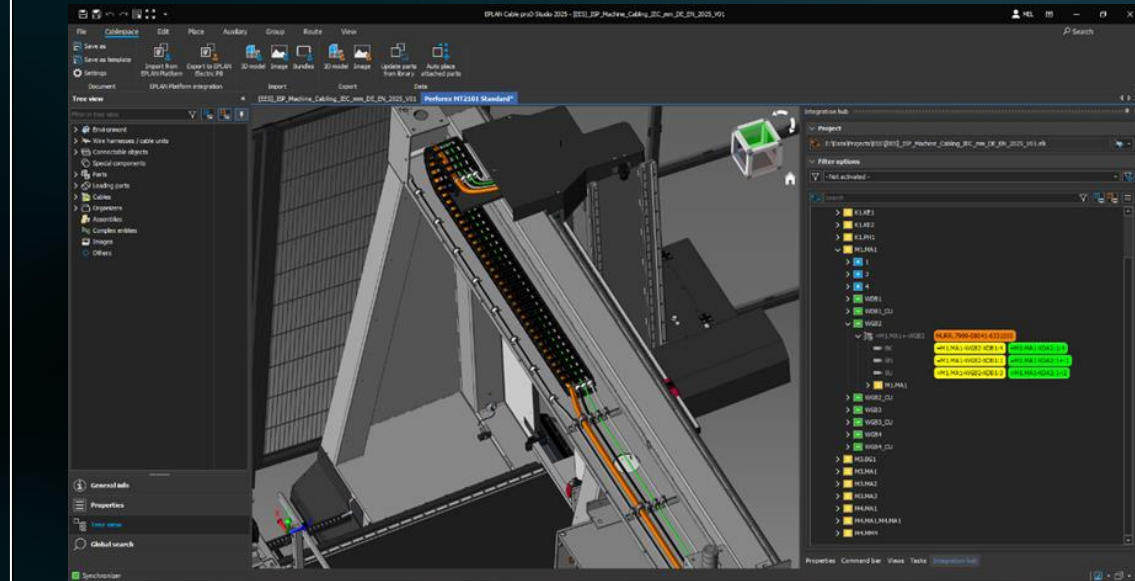
How can I ensure that cables are always installed **right the first time**?



Eplan Cable proD

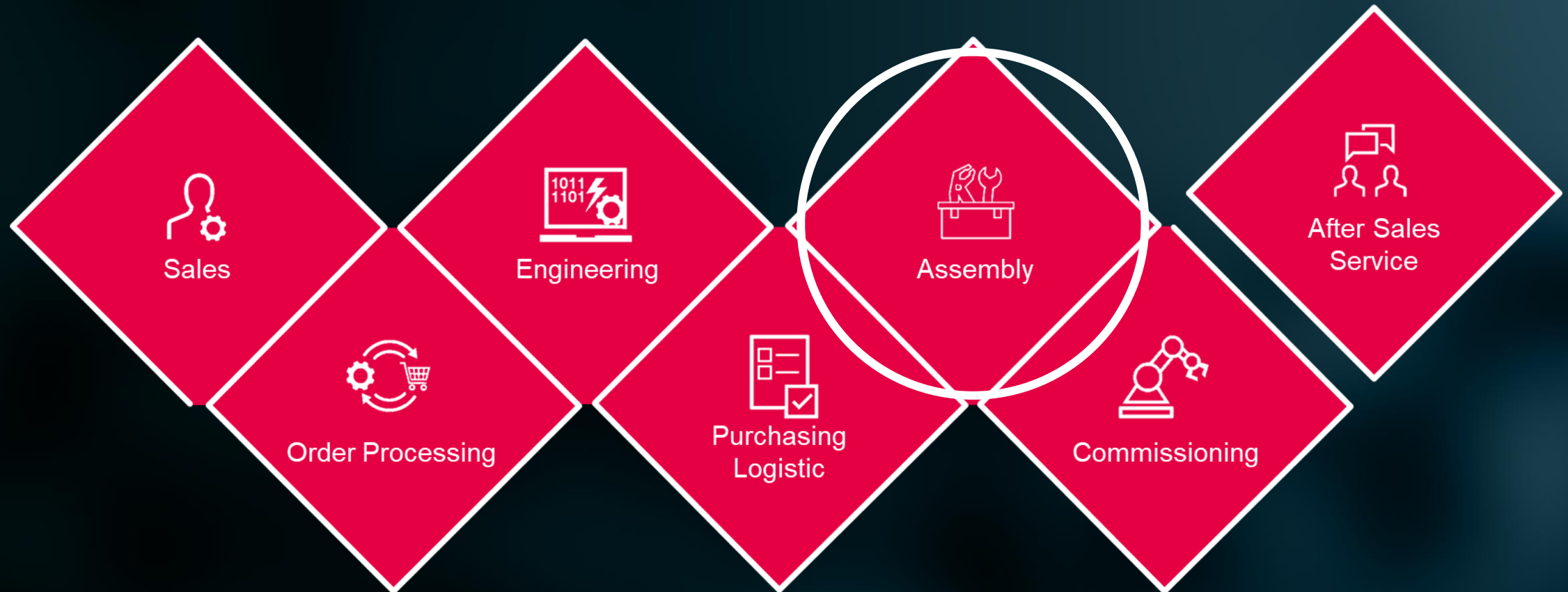
With digital cable planning to efficient machine cabling

Eplan Cable proD for an efficient cableway planning, a precise length determination and a guided cable installation.



The result in practise

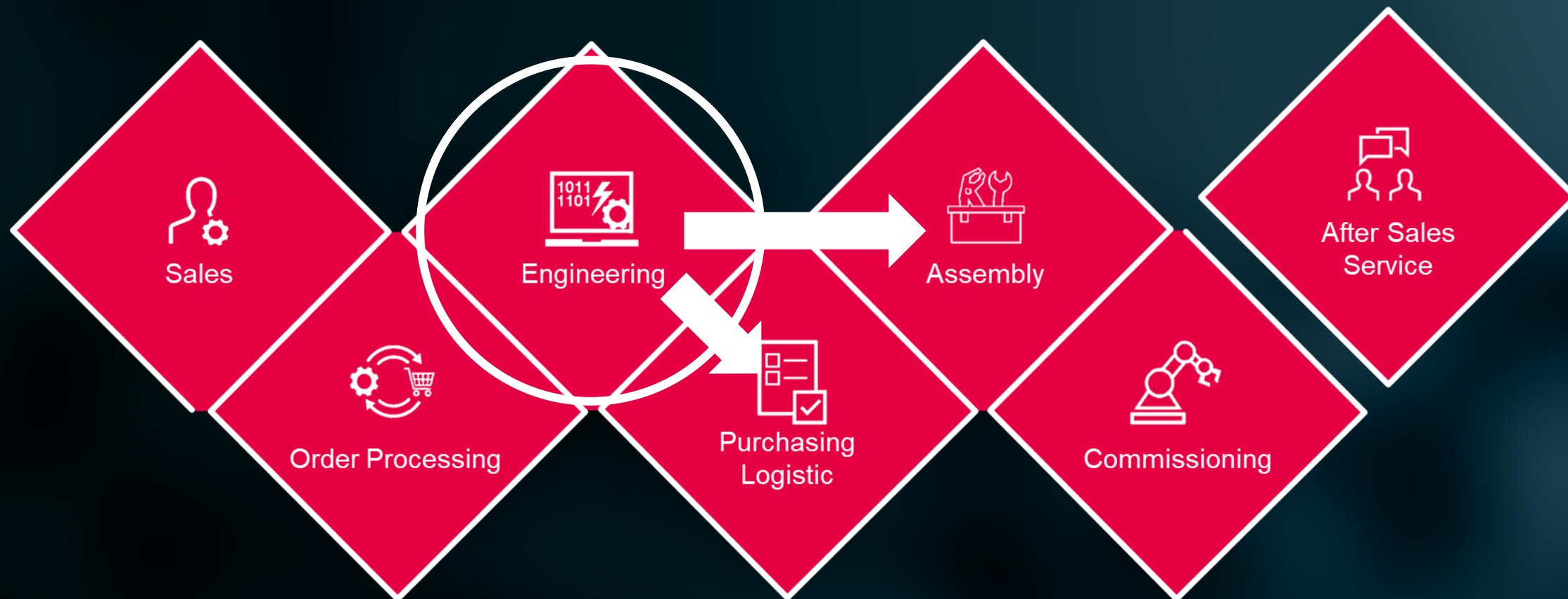
Added values in your mounting phase





The result in practise

Added values in your planning phase



EPLAN

efficient engineering.

ePLAN

project viewer

Search

Wire harnesses / cable units

Connectable objects

Parts

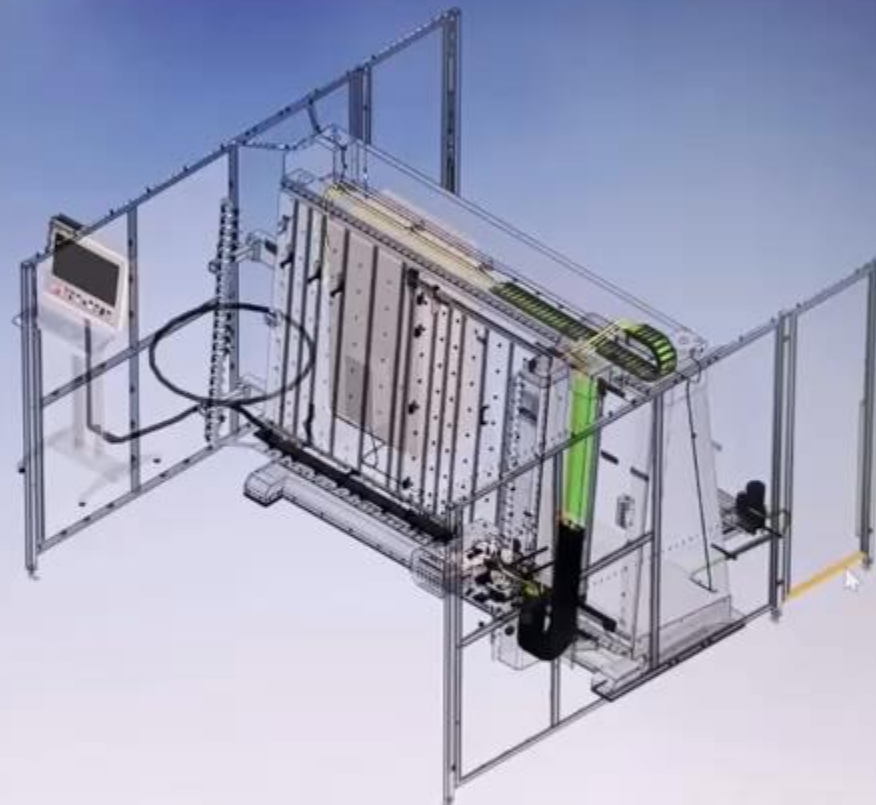
Leading parts

Cables

- +G1.GA1+WEB1
- +K1.KE2+2-WDB1
- +K1.KE2+2-WDB3
- +K1.KE2+3-SJB1-W1
- +K1.KE2+3-WDB5
- +K1.KE2+3-WDB7
- +K1.KE2+3-WDB2
- +K1.KE2+3-WDB4
- +K1.KE2+3-WDB6
- +K1.KE2+3-WDB8
- +K1.KE2+3-WDB9
- +K1.PH1+2.1-WDB2
- +K1.PH1+3-WDB1
- +K1.PH1+3-WDB10
- +K1.PH1+3-WDB11
- +M1.MA1+3-WDB1
- +M1.MA1+3-WDB2
- +M1.MA1+3-WDB3
- +M2.BG1+3-WDB2
- +M2.MA1+3.1-WDB1

Project structure

Scene structure



Document information

Properties

Views

Settings

DELL



How to start?



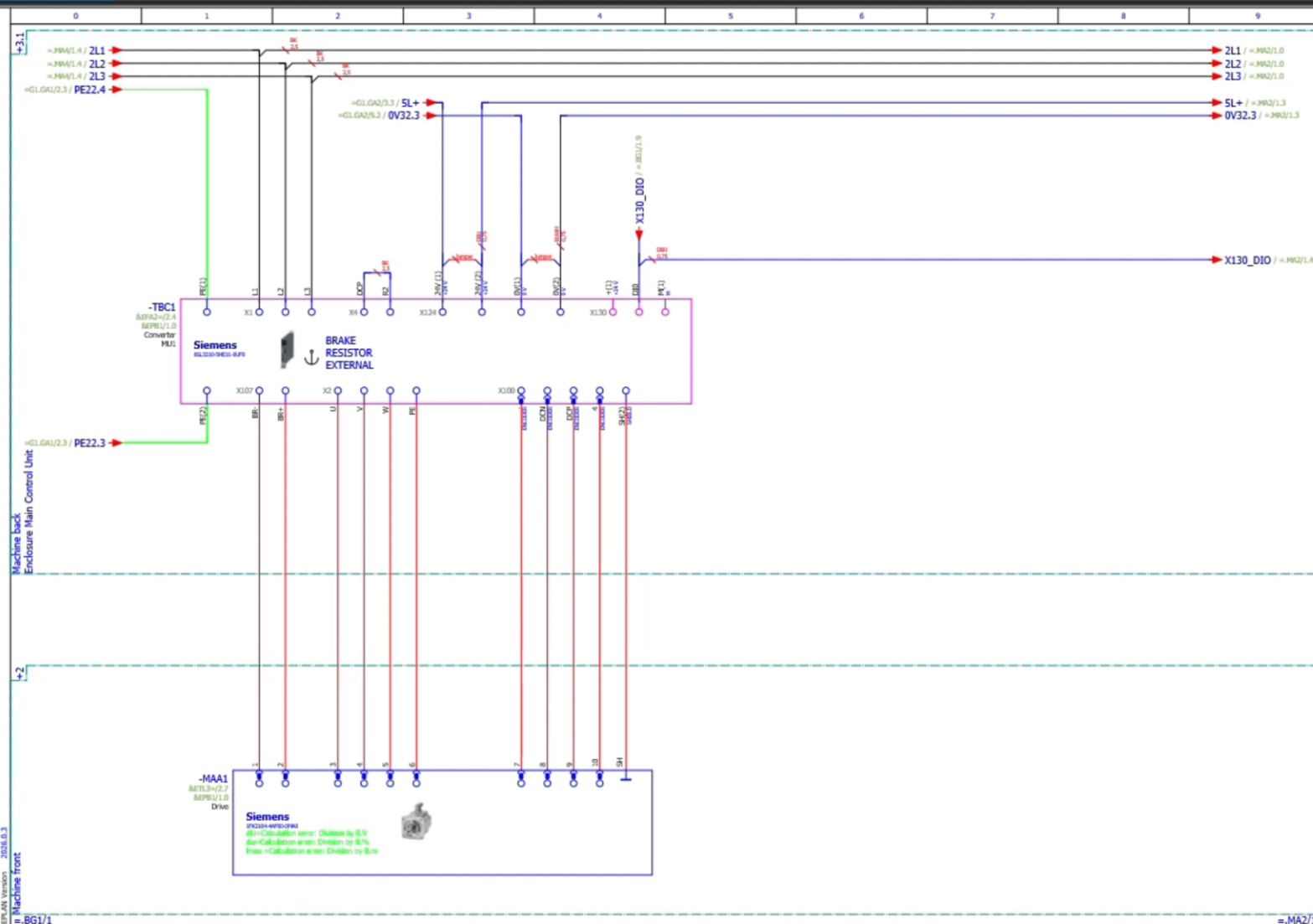
”

Step 1: Working with your current data



[EBD] Cabling

- Tree List



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Project name	EBD Ritttal Perfex MTXXXX EN
Commission	<Commission>

Machine front

			An industry example project to demonstrate digital machine cabling with Eplan Cable proD	Job number Project number Drawing number	Rittal GmbH & Co. KG		Electrical control	PID-PAUL GSD & Mikesen e	MEF51 Circuit diagram Page
Modification	Date	Name	Creator DE000017709	Approved by		Date: 07.04.2026	Ed: 01000517709		Page 59 from 30

1 Electrical control

Grid C: 4,00 mm

Logic 1:1

No data

List of results Go to

Summary

Step 1 – Working with your current data

Install, start and plan based on your current schematics,

- Plan your cable ways and get your needed cable length
- Transfer length back to your schematics
- Chose your cable part based on your determined length
- Share your cable planning with the shopfloor via the 3D Viewer
- Routing cables through the machine first time right, based on the 3D Instruction
- **No improvements in schematics or parts data needed. No effort for preparation.**

”

Step 2: Improve cable parts data with manageable effort



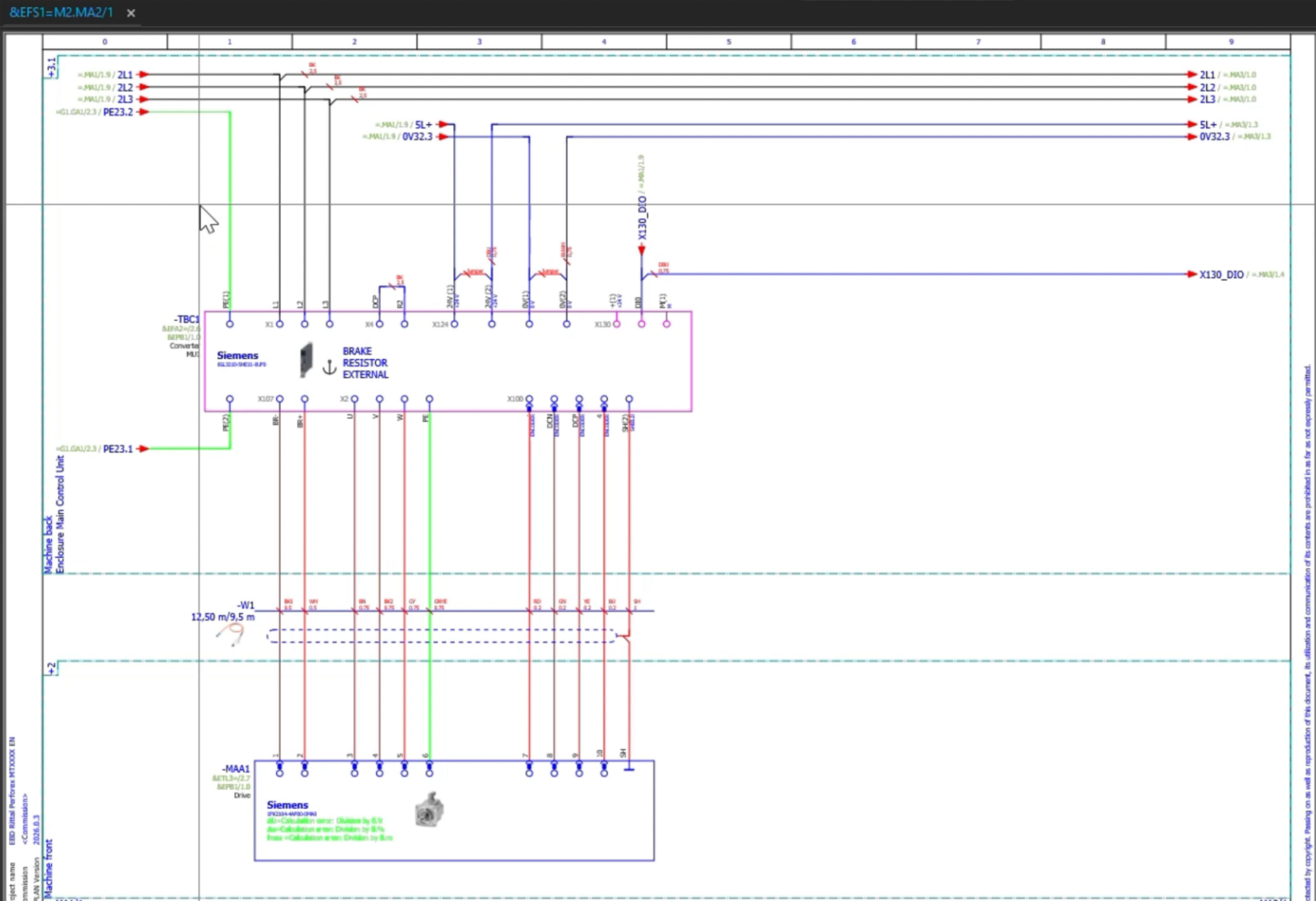
Filter:
[EBD] Cabling

Value:

- EBD Rittal Perforex MTXXXX EN
 - EFA2 (Overview data topology)
 - EFS1 (Circuit diagrams)
 - G1 (Energy Supplysystem)
 - K1 (Controlsystem)
 - M1 (Workpiece Clampingsystem)
 - M2 (Drill- & Millsystem)
 - BG1 (Tool Controlsystem)
 - MA1 (X-Axis Drivesystem)
 - MA2 (Y-Axis Drivesystem)
 - 1 Electrical control
 - MA3 (Z-Axis Drivesystem)
 - MA4 (Spindle Drivesystem)
 - PH1 (Spindle Tool Relaxationsystem)
 - MM4 (Supply Chip Suctionssystem)
 - EMB1 (Cable partlist)
 - EMB2 (Cable prefabrication)
 - EMB3 (Cable installation)
 - ETB1 (3D layouts)

Tree List

Graphical preview - EBD Rittal Perforex ...



Project name EBD Rittal Perforex MTXXXX EN		Job number <Project number>		Rittal GmbH & Co. KG		Electrical control		=MA2/1	
Commission EPLAN Version 2026.0.3		Drawing number		Date: 07.04.2026		EPLAN Version: 2026.0.3		Page: 60 from 313	
Modification		Date		Name		Crestor		Approved by	
Modification		Date		Name		Crestor		Approved by	

RX: 15,58 RY: 12,46

Summary

Step 2 – Improve cable parts data with manageable effort

Improve your parts data and schematics with manageable effort to get,

- Cable type and length for an automatic cable parts exchange
- Right outside diameter to check space and the right cable equipment
- Bending radius to check cableway planning
- Correct cable bill of material
- Real cable colors for a better understanding in the shopfloor

”

Step 3: Planning "as built" (virtual twin)



Summary

Step 3 – Planning "as built"

Invest in updating your parts data, schematics and 3D Panel layouts like as build and get,

- Exact cable length determination
- A 100% exact cableway planning with no open questions for the shop floor
- A 100% correct bill of material with all needed cable equipment
- Reports with clear instructions for your work preparation
- A 3D viewer with all details to install the cables in a most efficient way

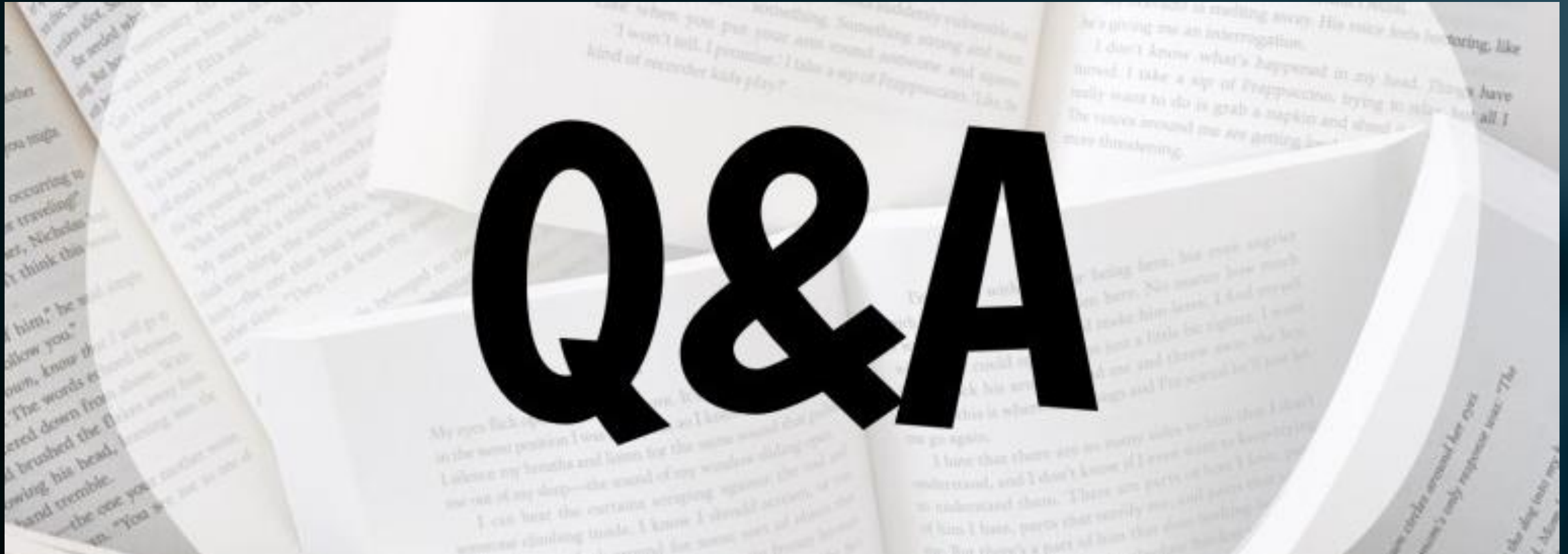
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“Start immediately, create real impact from day one and grow your processes step by step.”



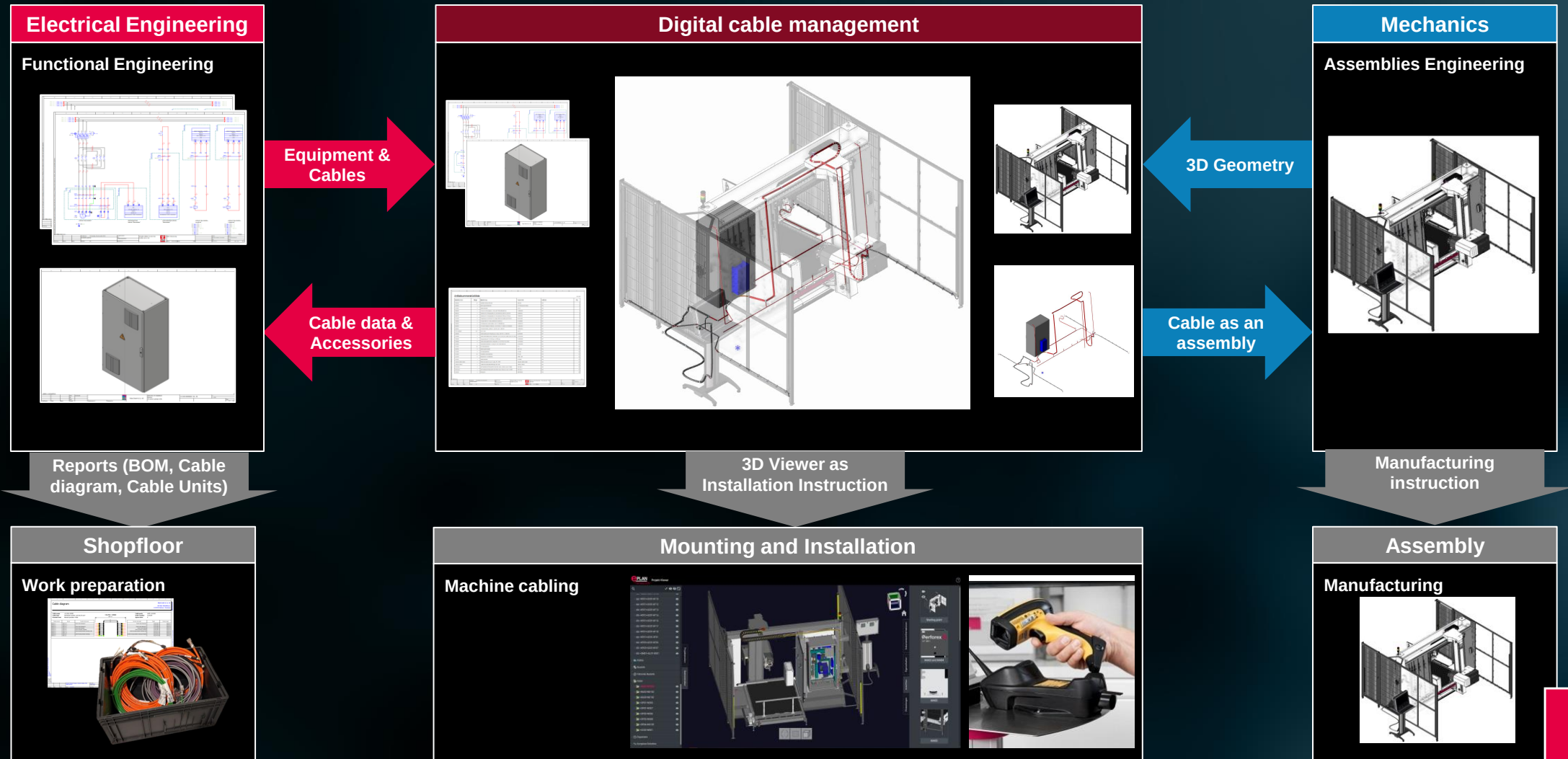
CONCLUSION

Time for YOUR questions



Summarize

The data process with Eplan Cable proD



Summarize

Added values based on Eplan Cable proD

Engineering with Eplan Cable proD

Purchase

Cable and cable equipment partlist

Cable and cable equipment partlist

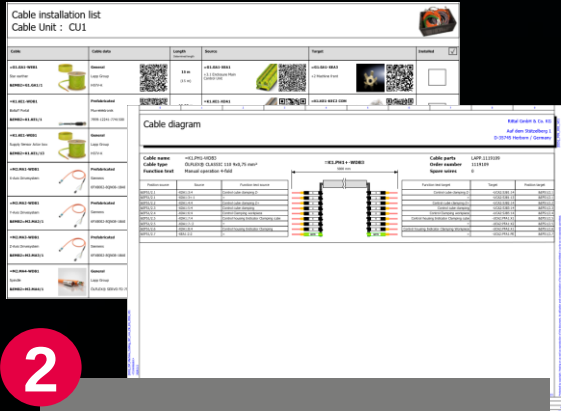
Cable and cable equipment partlist

Article number	Quantity	Description	Type number	Document	Picture	Pin.
401.001.001	1	Cable gland, polyamide	02.001.001			1
401.001.002	1	Cable gland, polyamide, with 10x10x10, for cables up to 10 mm	02.001.002			2
401.001.003	1	Cable tie	02.001.003			3
401.001.004	1	Cable tie	02.001.004			4
401.001.005	1	Cable tie	02.001.005			5
401.001.006	1	Cable tie	02.001.006			6
401.001.007	1	Cable tie	02.001.007			7
401.001.008	1	Cable tie	02.001.008			8
401.001.009	1	Cable tie	02.001.009			9
401.001.010	1	Cable tie	02.001.010			10
401.001.011	1	Cable tie	02.001.011			11
401.001.012	1	Cable tie	02.001.012			12
401.001.013	1	Cable tie	02.001.013			13
401.001.014	1	Cable tie	02.001.014			14
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401.001.042	1	Cable tie	02.001.042			42
401.001.043	1	Cable tie	02.001.043			43
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401.001.046	1	Cable tie	02.001.046			46
401.001.047	1	Cable tie	02.001.047			47
401.001.048	1	Cable tie	02.001.048			48
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401.001.052	1	Cable tie	02.001.052			52
401.001.053	1	Cable tie	02.001.053			53
401.001.054	1	Cable tie	02.001.054			54
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401.001.056	1	Cable tie	02.001.056			56
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401.001.067	1	Cable tie	02.001.067			67
401.001.068	1	Cable tie	02.001.068			68
401.001.069	1	Cable tie	02.001.069			69
401.001.070	1	Cable tie	02.001.070			70
401.001.071	1	Cable tie	02.001.071			71
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401.001.073	1	Cable tie	02.001.073			73
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401.001.076	1	Cable tie	02.001.076			76
401.001.077	1	Cable tie	02.001.077			77
401.001.078	1	Cable tie	02.001.078			78
401.001.079	1	Cable tie	02.001.079			79
401.001.080	1	Cable tie	02.001.080			80
401.001.081	1	Cable tie	02.001.081			81
401.001.082	1	Cable tie	02.001.082			82
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401.001.088	1	Cable tie	02.001.088			88
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401.001.093	1	Cable tie	02.001.093			93
401.001.094	1	Cable tie	02.001.094			94
401.001.095	1	Cable tie	02.001.095			95
401.001.096	1	Cable tie	02.001.096			96
401.001.097	1	Cable tie	02.001.097			97
401.001.098	1	Cable tie	02.001.098			98
401.001.099	1	Cable tie	02.001.099			99
401.001.100	1	Cable tie	02.001.100			100

1

Reliable cable and cable equipment ordering

Work preparation

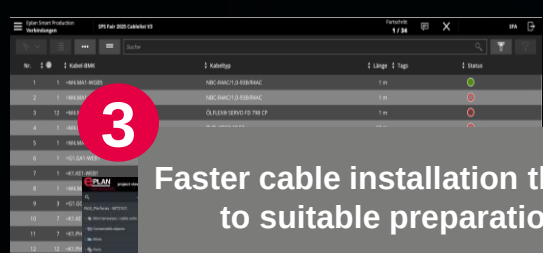


2

Preparation of cables and cable units



Production



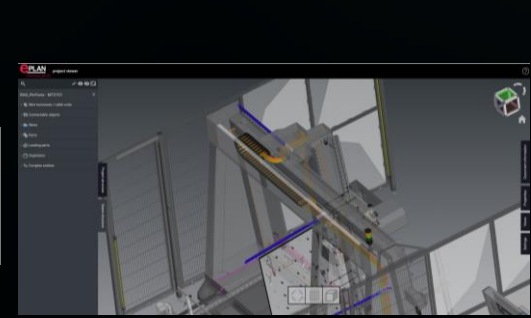
3

Faster cable installation thanks to suitable preparation

4

Increased productivity through clear specifications

Service & Maintenance



5

Reduced downtime

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What's to you the biggest added value Eplan Cable proD delivers?

☐ Cable length determination

☐ Correct Cable BOM

☐ Enabling use of prefabricated cables



☐ Better work preparation

☐ Efficient cable installation

☐ Improve "first time right" rate for cable installation



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Waiting for participants

Your possible next steps

Efficient machine cabling with Eplan Cable proD



Meet us on stage or @partner plaza to ask your further questions



Visit our homepage and discover customers success stories



Book a free software demonstration onsite/online together with your team



Book a proof of concept or consultancy based on your process, 3D data and schematics onsite



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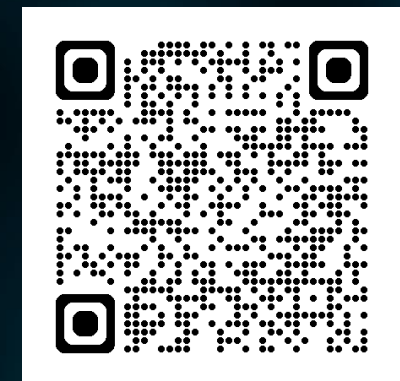
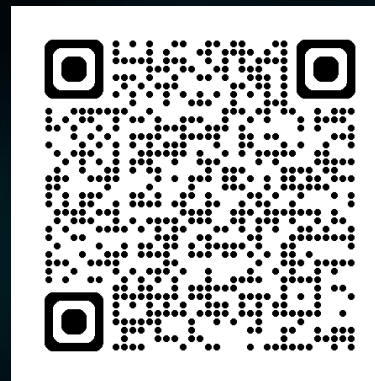
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