



Digitalisering av stålentreprenörer

Niklas Kihlén

Stålbyggnadsdagen 2023

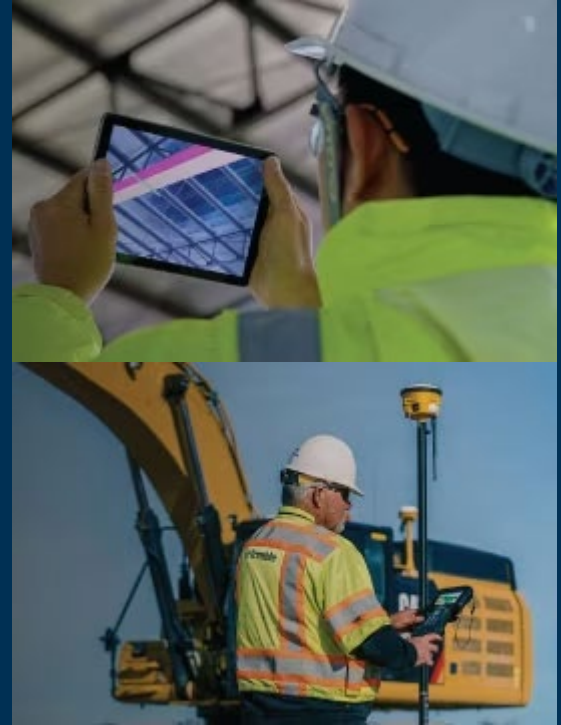


Niklas Kihlén
Byggingenjör
Datateknik
Trimble 23 år
1:a Stålbbyggnadsdagen, 2000





“A new approach to work
Driven by a passion for innovation,
Trimble is setting the pace for
the future of work with
connected data and cutting-edge
technology”



Tekla Structures - C:\TeklaStructuresModels\Utbildning\Stålbud - [View 1 - 3d]

STEEL CONCRETE REBAR EDIT VIEW DRAWINGS & REPORTS MANAGE ANALYSIS & DESIGN TRIMBLE CONNECT BRIDGES TIMBER FORMWORK Quick Launch

Fly View properties Representation Screenshot Document manager Drawing properties Create fabrication drawing Create GA Drawing Master drawing catalog Multidrawing Perform numbering Numbering settings Change number Reports Organizer Building hierarchy Level Space Window

Model origin Search in model standard Outline planes

1 2 3 4 5 6 A B C

Report

TEKLA STRUCTURES MATERIAL LIST FOR CONTRACT No:1 Page: 1
TITLE: Tekla Corporation Date: 12.10.2023

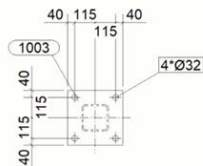
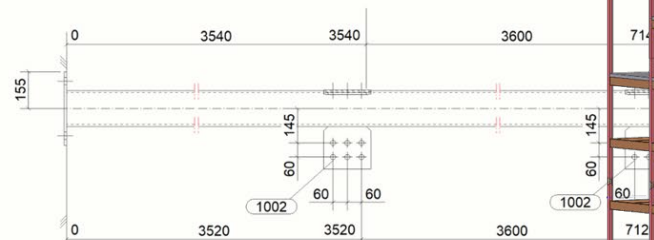
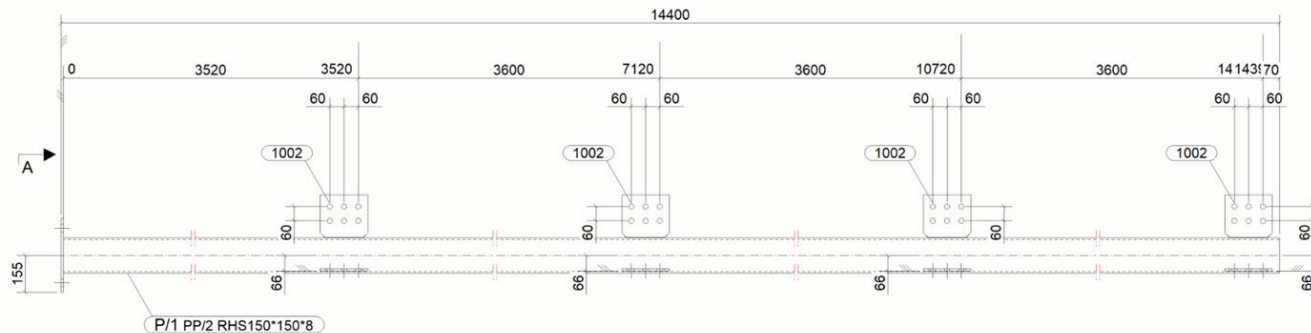
Size	Grade	Qty.	Length (mm)	Area (m ²)	Weight (kg)
IPK300	S355J2	20	7200	8.3	304.1
			144000	166.9	6081.6
PL10*150	S355J2	1	351	0.1	2.1
			351	0.1	2.1
RIIS150*150*8	S355J2	18	14400	8.4	509.8
			259200	151.1	9176.6
UPE300	S355J2	20	7209	7.0	320.3
UPE300	S355J2	12	8000	7.7	355.4
UPE300	S355J2	4	9800	9.5	435.4
UPK300	S355J2	20	7200	7.0	319.9
			423380	409.8	18811.2
Total:					34071.4 kg

OK



PLACERING I STOMNÄT	
NUMMER	SYSTEMLINJE
P/1	1/C

ETAPP	ANTAL
1	1

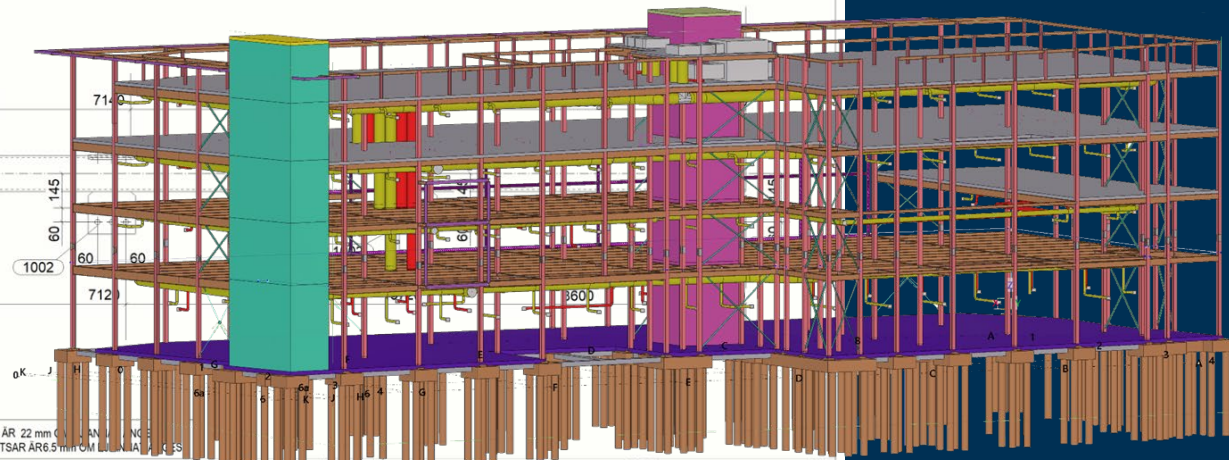


A - A
1:20

ALLMÄNNA NOTERINGAR:

ALLA HÅL ÄR 22 mm
ALLA SVETSAR ÄR 6.5 mm OM INDIKAT

MATERIALLISTA FÖR ETT GODS MÄRK:		P/1	1 st. TILLVERKAS			
STYCKLIT.	PROFIL	MATERIAL	ANT.	LÄNGD	AREA/st	VIKT/st
PP/2	RHS150*150*8	S355J2	1	1438***	8.4	509.5
1003	PL10*310	S355J2	1	310.00	0.2	7.5
1002	PL10*180	S355J2	8	200.00	0.1	2.8
TOTALT				9.2		539.4



Tekla Corporation

PROJEKT

STATUS

HANDLING

ÄNDRING

DATUM

NUMMER

A3

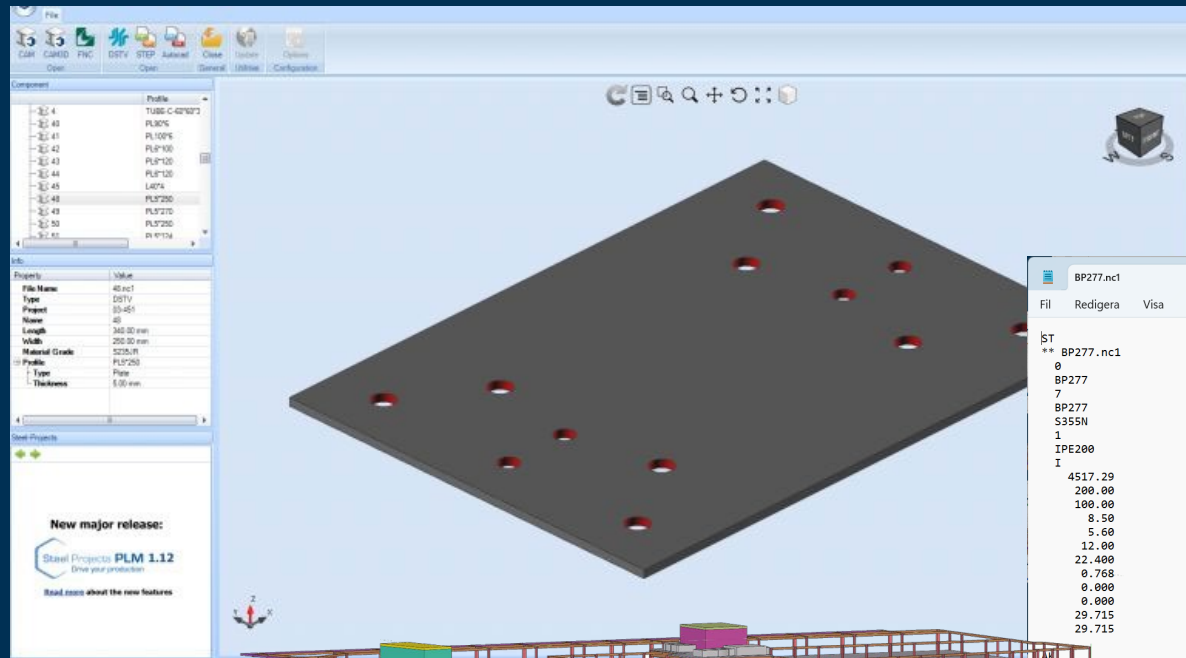
1:20

REVISJON

P/1



A	B	C	D	E	F	G	H	I	J	K	L	M	N	
ASSEMBLY POS	ANT.ASSEMBLY (st)	PART POS	TOT ANTAL PARTS (st)	MATERIAL	DIMENSION	KAPMÅTT (mm)	KAPTYP	A	B	AREA (m²)	TOT.AREA (m²)	VIKT (kg)	TOT.VIKT (kg)	
1	P165	1	PP77	1	S275JR	HEA260	12669	A	0,0	0,0	18,8	18,8	863,5	863,5
2	P162	1	PP74	1	S275JR	HEA260	12669	A	0,0	0,0	18,8	18,8	863,5	863,5
3	P164	1	PP76	1	S275JR	HEA260	12669	A	0,0	0,0	18,8	18,8	863,5	863,5
4	P105	1	PP104	1	S275JR	HEB160	1916	A	0,0	0,0	1,8	1,8	81,6	81,6
5	P106	1	PP104	1	S275JR	HEB160	1916	A	0,0	0,0	1,8	1,8	81,6	81,6
6	B591	1	BP84	1	S355N	HEB200	1555	A	0,0	0,0	3,6	3,6	172,2	172,2
7	B589	1	BP83	1	S355N	HEB200	1555	A	0,0	0,0	3,6	3,6	172,2	172,2
8	B685	2	BP83	2	S355N	HEB200	1555	A	0,0	0,0	7,2	7,2	344,4	344,4
9	B686	1	BP86	1	S355N	HEB200	1555	A	0,0	0,0	3,6	3,6	172,2	172,2
10	P147	1	PP25	1	S275JR	HEB260	1916	A	0,0	0,0	3,6	3,6	172,2	172,2
11	B550	1	BP272	1	S355N	IPE200	1602	A	0,0	0,0	3,6	3,6	172,2	172,2
12	B583	1	BP267	1	S355N	IPE200	1602	A	0,0	0,0	3,6	3,6	172,2	172,2
13	B896	1	BP268	1	S355N	IPE200	1602	A	0,0	0,0	3,6	3,6	172,2	172,2
14	B516	1	BP242	1	S355N	IPE200	1602	A	0,0	0,0	3,6	3,6	172,2	172,2
15	B521	1	BP275	1	S355N	IPE200	1602	A	0,0	0,0	3,6	3,6	172,2	172,2
16	B545	2	BP292	2	S355N	IPE200	1602	A	0,0	0,0	7,2	7,2	344,4	344,4
17	B546	1	BP277	1	S355N	IPE200	1602	A	0,0	0,0	3,6	3,6	172,2	172,2
18	B599	1	BP332	1	S355N	U160	1690	A	0,0	0,0	0,9	0,9	31,8	31,8
19	B604	1	BP331	1	S355N	U160	1690	A	0,0	0,0	0,9	0,9	31,8	31,8
20	B595	3	BP333	3	S355N	U160	1690	A	0,0	0,0	2,7	2,7	85,2	85,2
21	B64	1	BP335	1	S355N	U160	1690	A	0,0	0,0	0,9	0,9	31,8	31,8
22	B63	1	BP326	1	S355N	U160	1690	A	0,0	0,0	0,9	0,9	31,8	31,8
23		26		26							114,0		4 853,4	



BP277.nc1

File Redigera Visa

```

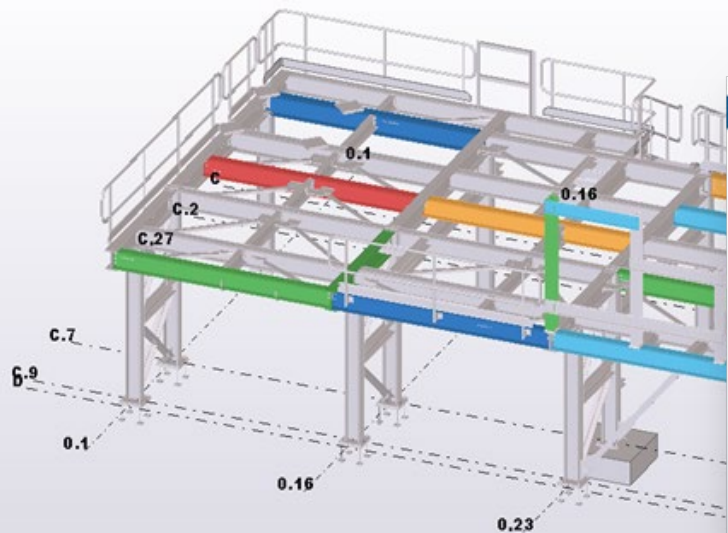
ST
** BP277.nc1
0
BP277
7
BP277
S355N
1
IPE200
I
4517.29
200.00
100.00
8.50
5.60
12.00
22.400
0.768
0.000
0.000
29.715
29.715

```

26.94s	0.00	0.00	0.00	0.00	0.00	0.00
1490.35	0.00	0.00	29.71	0.00	0.00	0.00
1490.35	200.00	0.00	0.00	0.00	0.00	0.00
26.94	200.00	0.00	-29.71	5.60	0.00	0.00
26.94	0.00	0.00	0.00	0.00	0.00	0.00
0.00s	100.00	0.00	0.00	0.00	0.00	0.00
1460.22	100.00	0.00	0.00	0.00	0.00	0.00
1517.29	0.00	0.00	0.00	0.00	0.00	0.00
57.07	0.00	0.00	0.00	0.00	0.00	0.00
0.00	100.00	0.00	0.00	0.00	0.00	0.00
0.00s	100.00	0.00	0.00	0.00	0.00	0.00
57.07	0.00	0.00	0.00	0.00	0.00	0.00
117.29	0.00	0.00	0.00	0.00	0.00	0.00
1460.22	100.00	0.00	0.00	0.00	0.00	0.00
0.00	100.00	0.00	0.00	0.00	0.00	0.00

100% Windows (CRLF) UTF-8





Status Sharing 1.02 for Tekla Structures



Trimble: Example



None

Enable

Commit

Started

UDAs



Set for:

8/7/2017

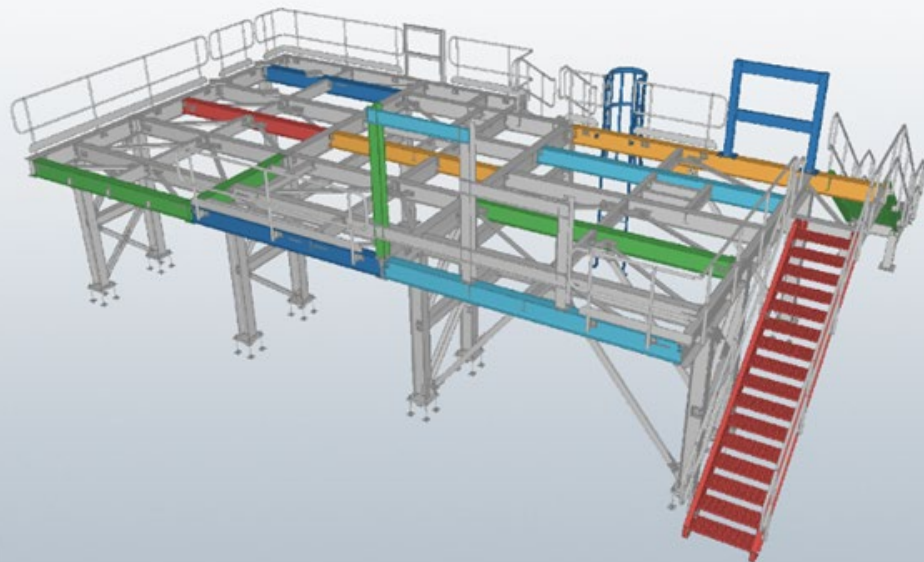
7

Reset

AT&T

8:29 AM

55%



Trimble
Example

None

Enable

Commit

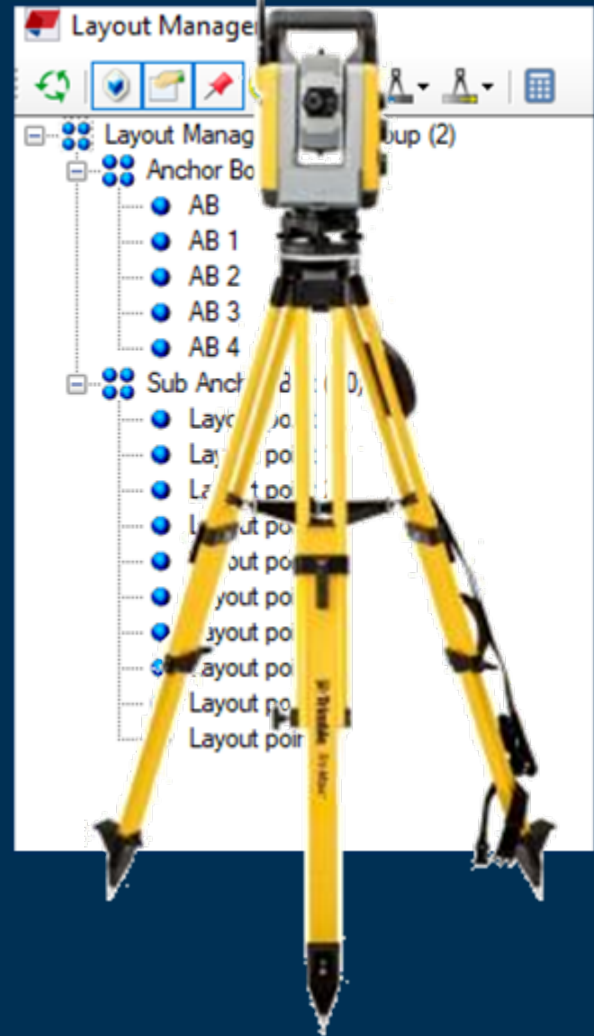
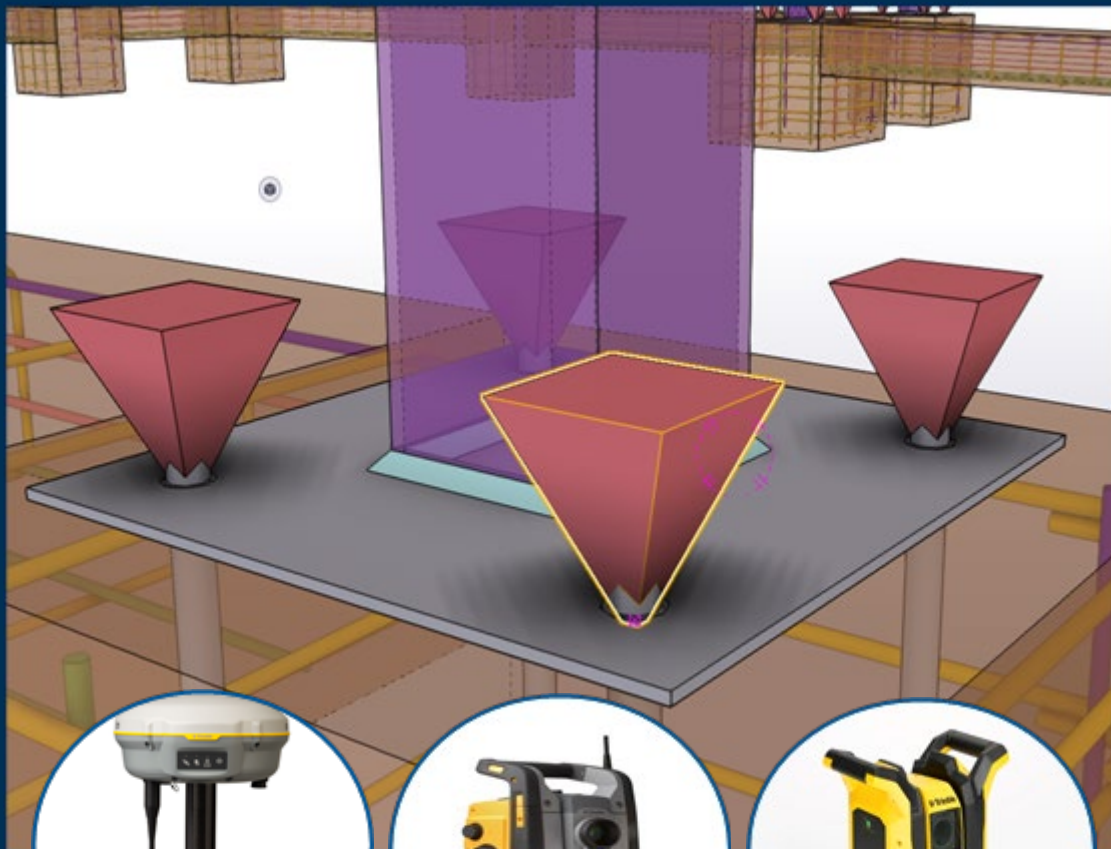
Started

Paused

Completed

None





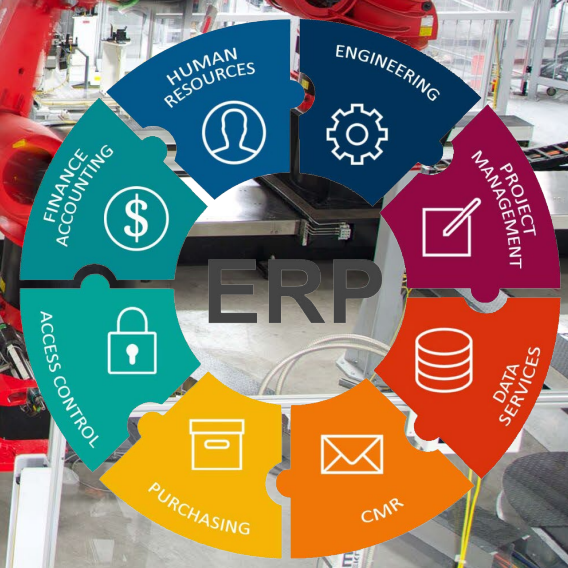
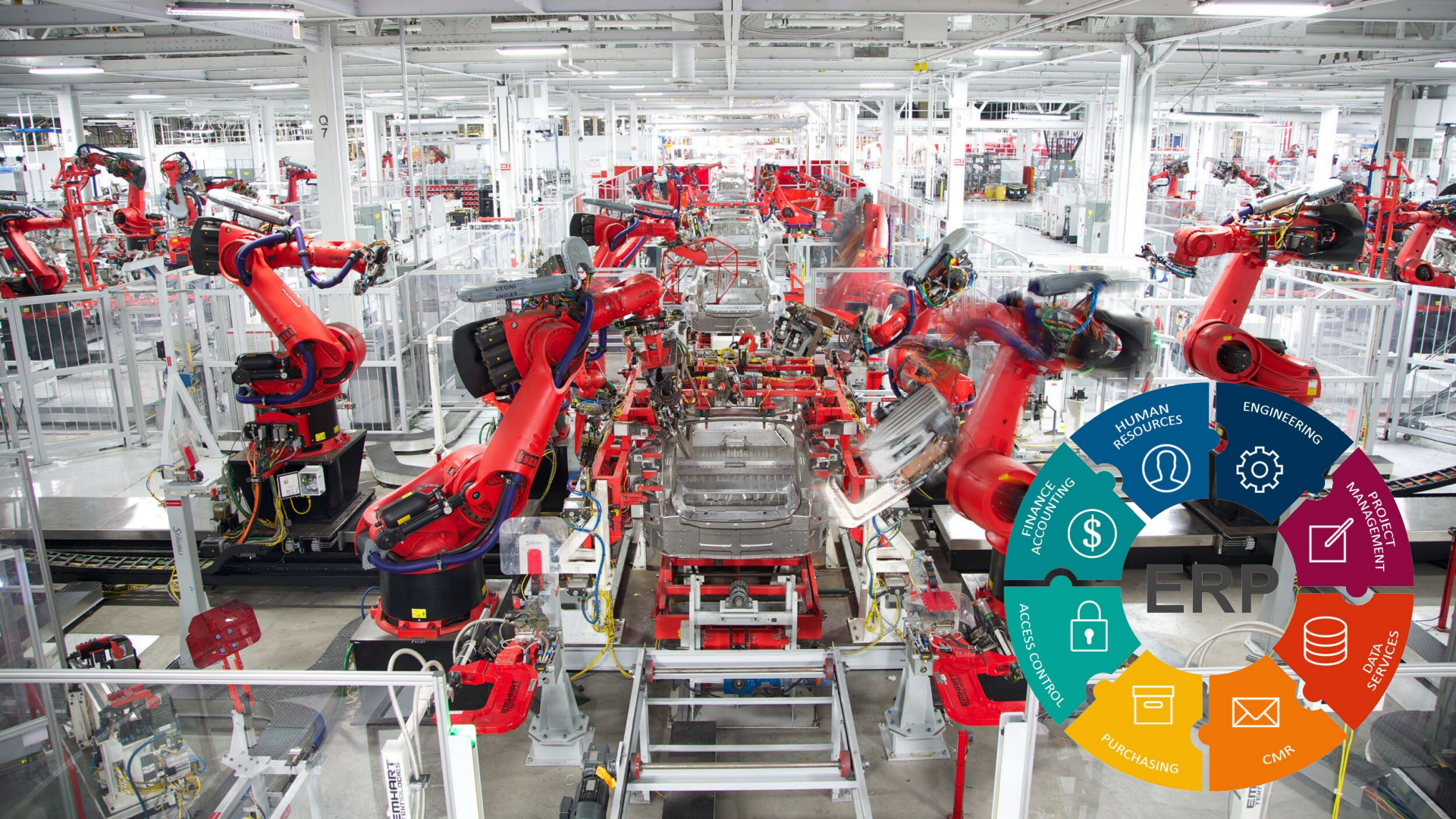


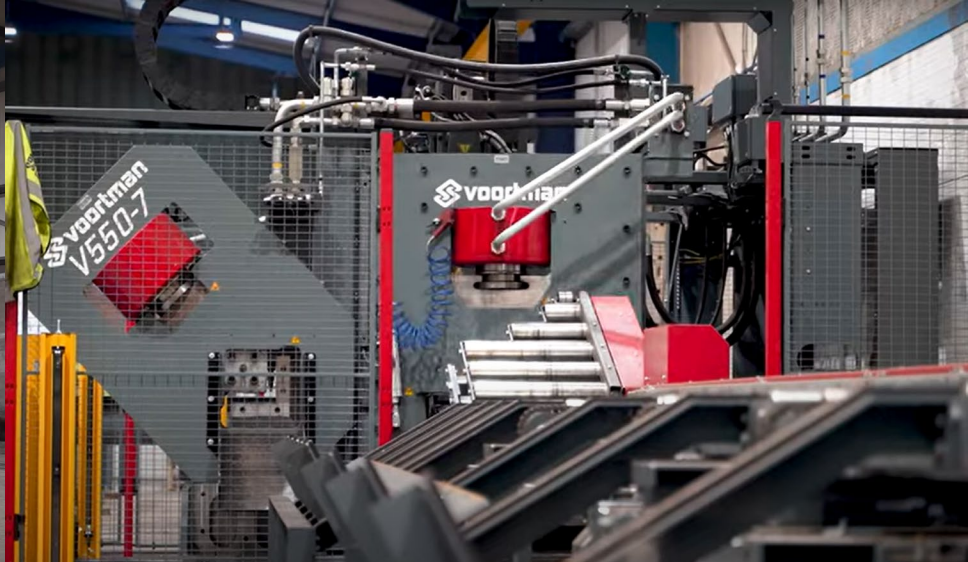




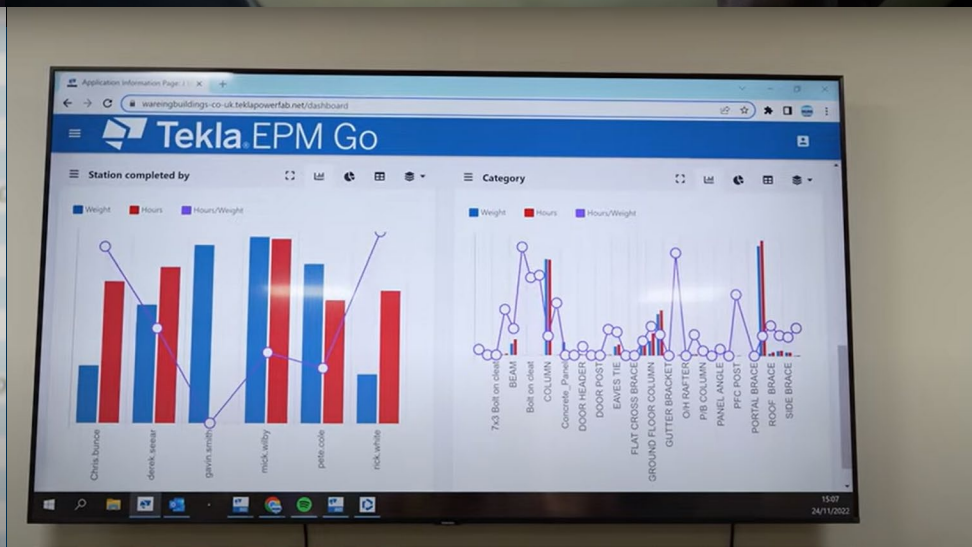
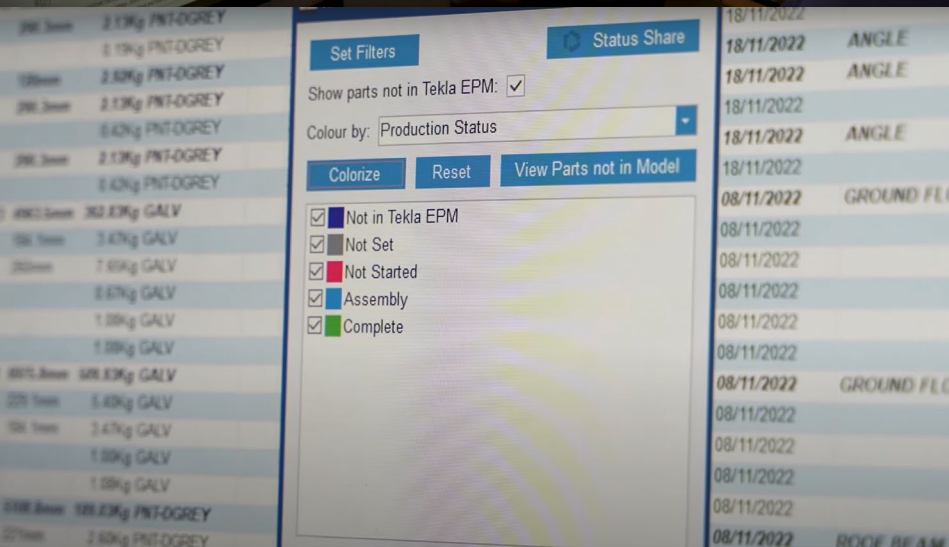












“

Before, we used to
run 15-20 projects
per year. Now we
run 12-20 projects
continuously

- Jonathan Henriksen, M&N Structures



Purchase Order

Category	Qty	Dimensions	Length	Job	Cost
HSS	3	8 x 8 x 1/2	12.192m	126	\$3253.41
PL	2	3/4 x 60	6.096m	126	\$3062.50
W	4	12 x 14	13.716m	126	\$1398.60
W	3	12 x 14	16.764m	126	\$1282.05
W	8	12 x 14	18.288m	126	\$3729.60
W	4	18 x 40	10.668m	345	\$3108.00
W	8	21 x 44	10.668m	345	\$6837.60
W	2	24 x 76	10.668m	345	\$2952.60
W	1	27 x 84	12.192m	256	\$1864.80

Material Subtotal
\$ 27489.16



AI

JOB#: 345

Multiple jobs/projects

JOB#: 126

JOB#: 256





Niklas Kihlén



Tekla PowerFab

