

# Case Study: Design Automation in CAD

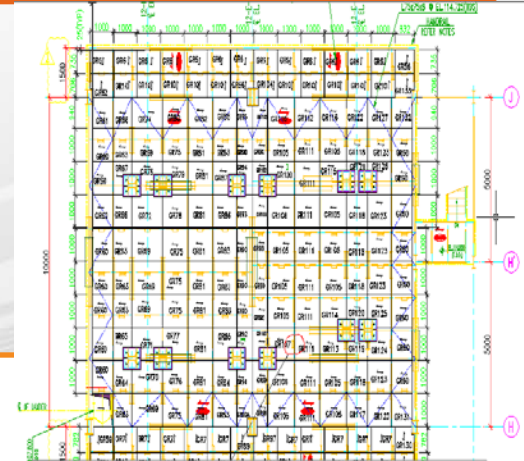
## Automatic Bill Of Material (BOM) Generation within CAD Software

**Client** :- Gratings Manufacture

**Business Issue** :-

- Manual calculate the number of components with quantities of each component in the drawing.
- Average number of components 150 with different quantity of each components.
- Client wants a automated process to avoid the repetition, counting errors & manual interaction.

**Client Tool** :- AutoCAD



### Benefits

- ✓ Simple interactive program that calculate the accurate number of each component
- ✓ Time reduce from 30-45 minutes to 1 – 2 Minutes
- ✓ No scope for Human errors
- ✓ More Accurate Result

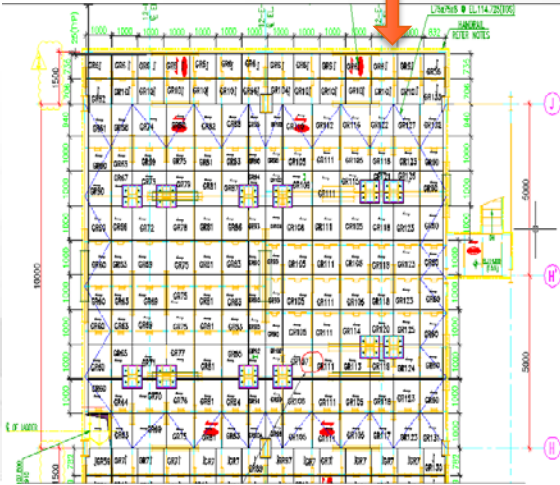
# Case Study: Design Automation in CAD

## Automatic Bill Of Material (BOM) Generation within CAD Software

### Input

#### Process By CTS:

1. Load the command
2. Select the drawing
3. Place the BOM



### Output

#### BOM Comparison

##### Existing BOM

SR. NO.	MARK	SPAN	QTY IN nos..	REMARKS
1	GR1	660	26	
2	GR2	782	1	NOTCH
3	GR3	734	8	
4	GR4	734	1	NOTCH
5	GR5	706	1	NOTCH
6	GR6	735	26	
7	GR7	782	20	
7A	GR7A	782	1	NOTCH
7B	GR7B	782	1	NOTCH
8	GR8	894	18	
9	GR9	894	2	
10	GR10	706	20	
11	GR11	932	7	
12	GR12	932	1	NOTCH
13	GR13	932	1	NOTCH
14	GR14	932	1	
15	GR15	1594	7	
16	GR16	1594	1	NOTCH
17	GR17	1594	1	NOTCH

##### CTS Generated

Bill of Material		
GR1	26	
GR2	1	NOTCH
GR3	8	
GR4	1	NOTCH
GR5	1	NOTCH
GR6	26	
GR7	20	
GR7A	1	NOTCH
GR7B	1	NOTCH
GR8	18	
GR9	2	
GR10	20	
GR11	7	
GR12	1	NOTCH
GR13	1	NOTCH
GR14	1	
GR15	7	
GR16	1	NOTCH
GR17	1	NOTCH



- ✓ *Accurate BOM*
- Generation within Min*
- ✓ *Repetitions Avoided*
- ✓ *Time Saved*