

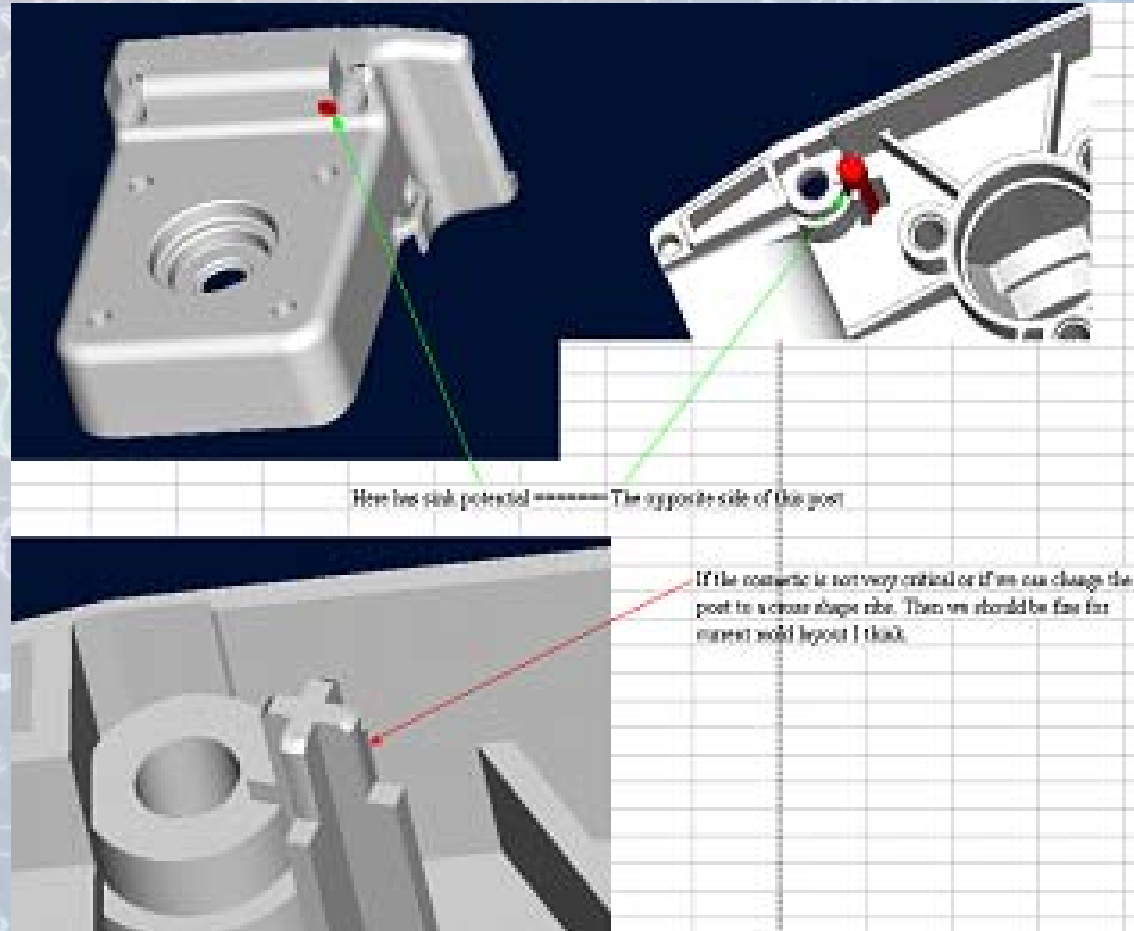


Case Study

Dusty Rhodes

Case Study Example

- We create a case study for every new project

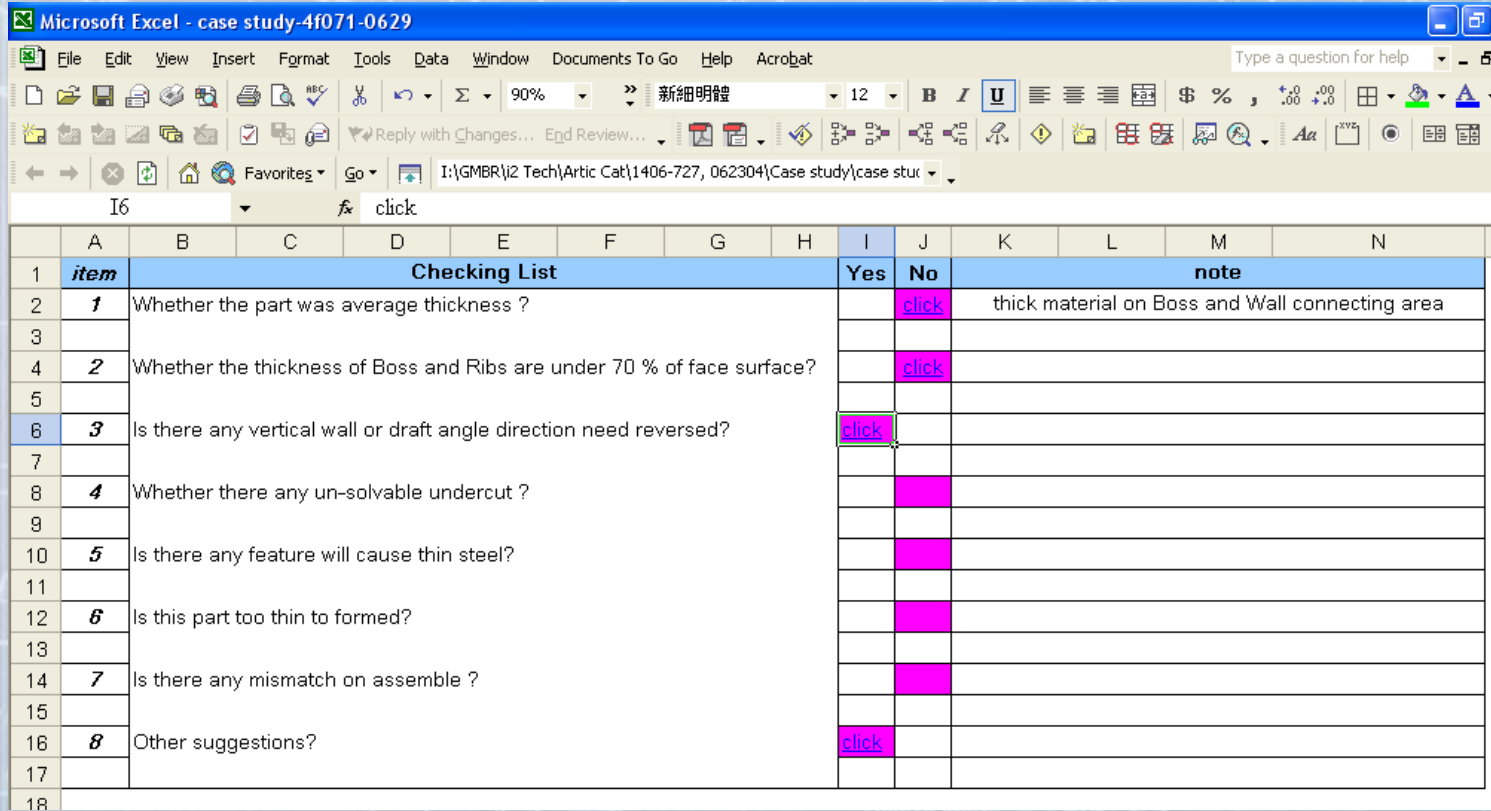


Case Study Example

- **In this example the critical areas were:**
 - **Nominal wall thickness**
 - **Boss wall stock thickness relative to nominal wall thickness**
 - **Potential sinks from contact of side walls with ribs and bosses**
 - **Part undercuts**
 - **Thin steel conditions or “knife edges”**
 - **Mismatch issues of parts at assembly**

Case Study Example

- Checklist



The screenshot shows a Microsoft Excel spreadsheet titled "Microsoft Excel - case study-4f071-0629". The spreadsheet contains a checklist table with the following structure:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	
1	<i>item</i>	Checking List								Yes	No	note			
2	1	Whether the part was average thickness ?									click	thick material on Boss and Wall connecting area			
3															
4	2	Whether the thickness of Boss and Ribs are under 70 % of face surface?									click				
5															
6	3	Is there any vertical wall or draft angle direction need reversed?								click					
7															
8	4	Whether there any un-solvable undercut ?													
9															
10	5	Is there any feature will cause thin steel?													
11															
12	6	Is this part too thin to formed?													
13															
14	7	Is there any mismatch on assemble ?													
15															
16	8	Other suggestions?								click					
17															
18															

Case Study Example

- Part thickness

Microsoft Excel - case study-4f071-0629

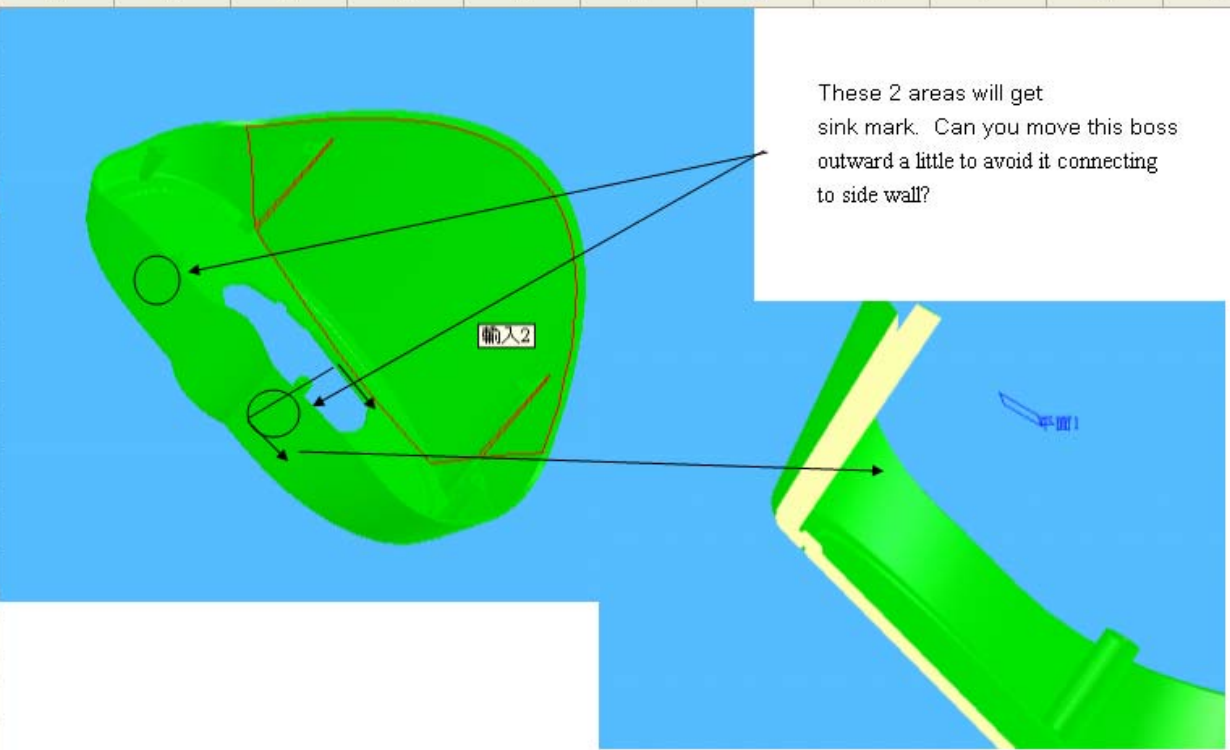
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Reply with Changes... End Review...

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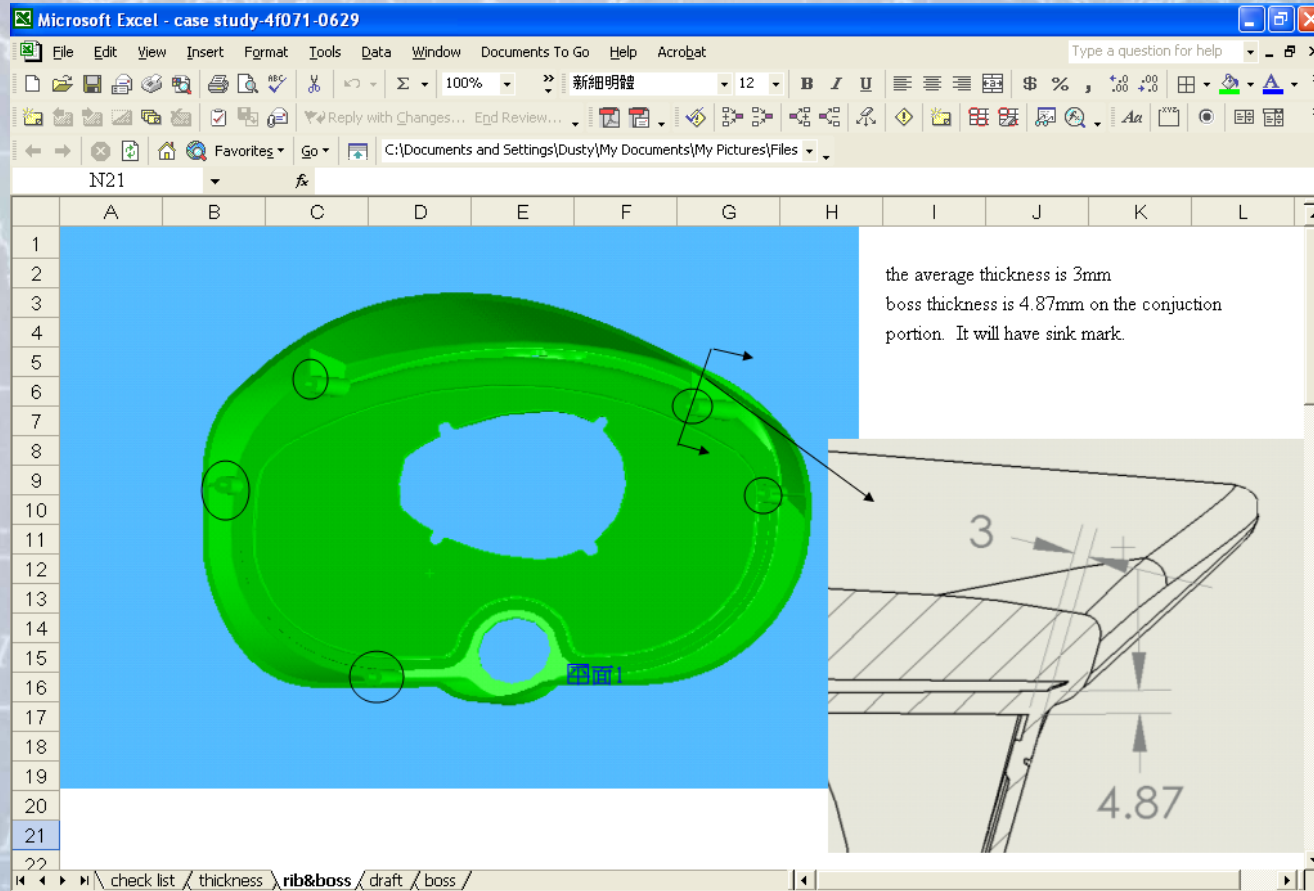
	A	B	C	D	E	F	G	H	I	J	K																							
1	 <tr><td>2</td></tr> <tr><td>3</td></tr> <tr><td>4</td></tr> <tr><td>5</td></tr> <tr><td>6</td></tr> <tr><td>7</td></tr> <tr><td>8</td></tr> <tr><td>9</td></tr> <tr><td>10</td></tr> <tr><td>11</td></tr> <tr><td>12</td></tr> <tr><td>13</td></tr> <tr><td>14</td></tr> <tr><td>15</td></tr> <tr><td>16</td></tr> <tr><td>17</td></tr> <tr><td>18</td></tr> <tr><td>19</td></tr> <tr><td>20</td></tr> <tr><td>21</td></tr> <tr><td>22</td></tr> <tr><td>23</td></tr> <tr><td>24</td></tr>											2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
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section view

check list \thickness / rib&boss / draft / boss /

Case Study Example

- Ribs & potential sink marks



Microsoft Excel - case study-4f071-0629

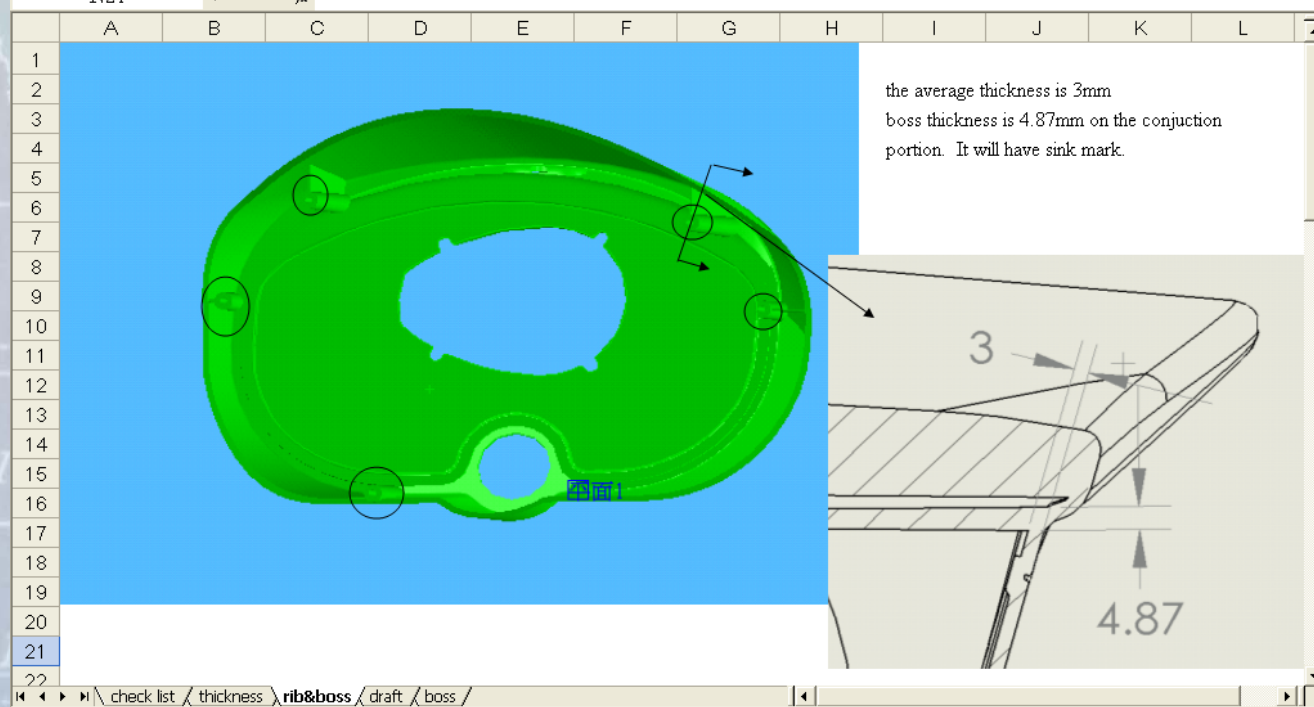
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Type a question for help

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the average thickness is 3mm
boss thickness is 4.87mm on the conjunction portion. It will have sink mark.

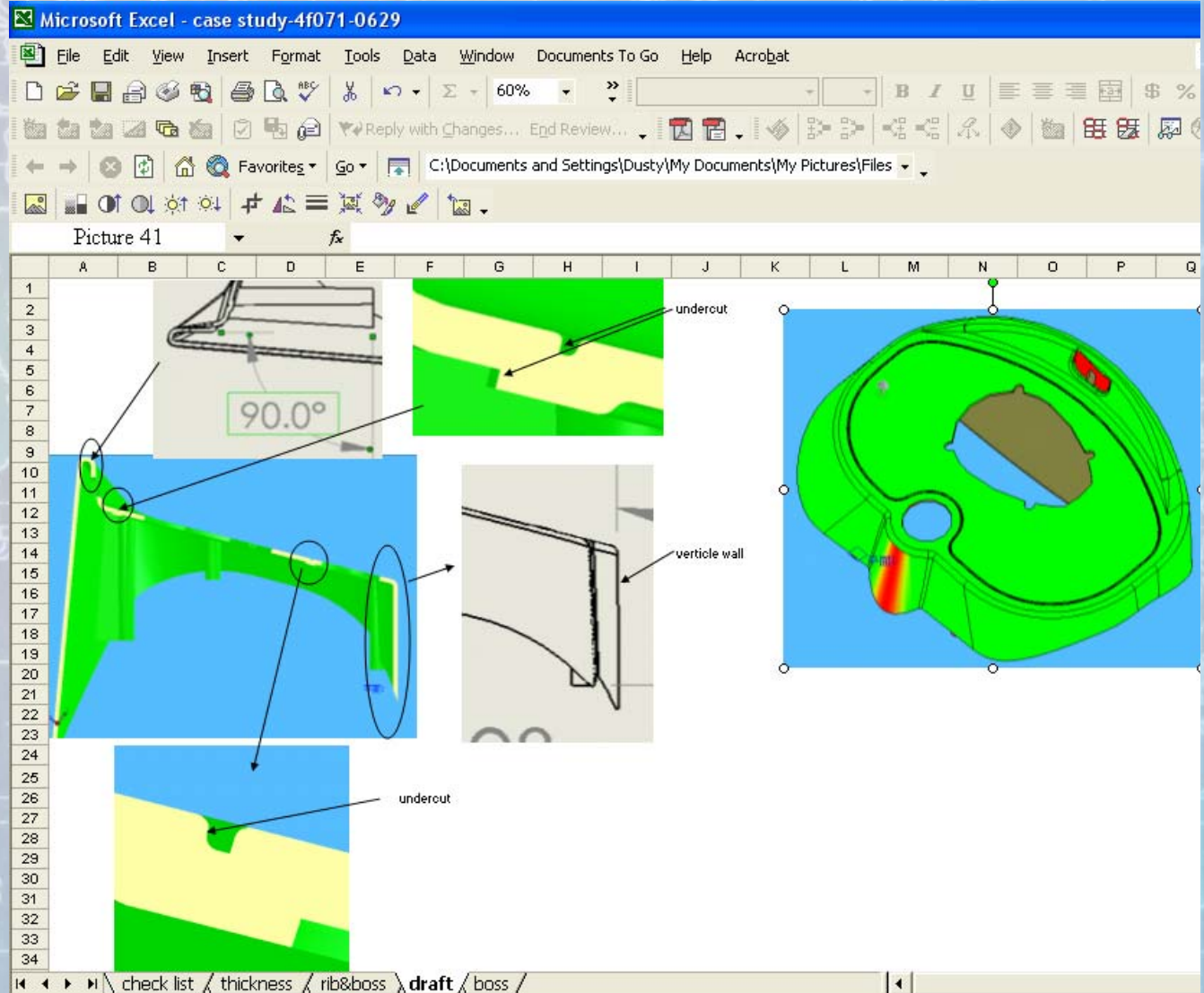
3

4.87

check list / thickness / rib&boss / draft / boss /

Case Study Example

- Draft related issues



Case Study Example

- **Boss details**

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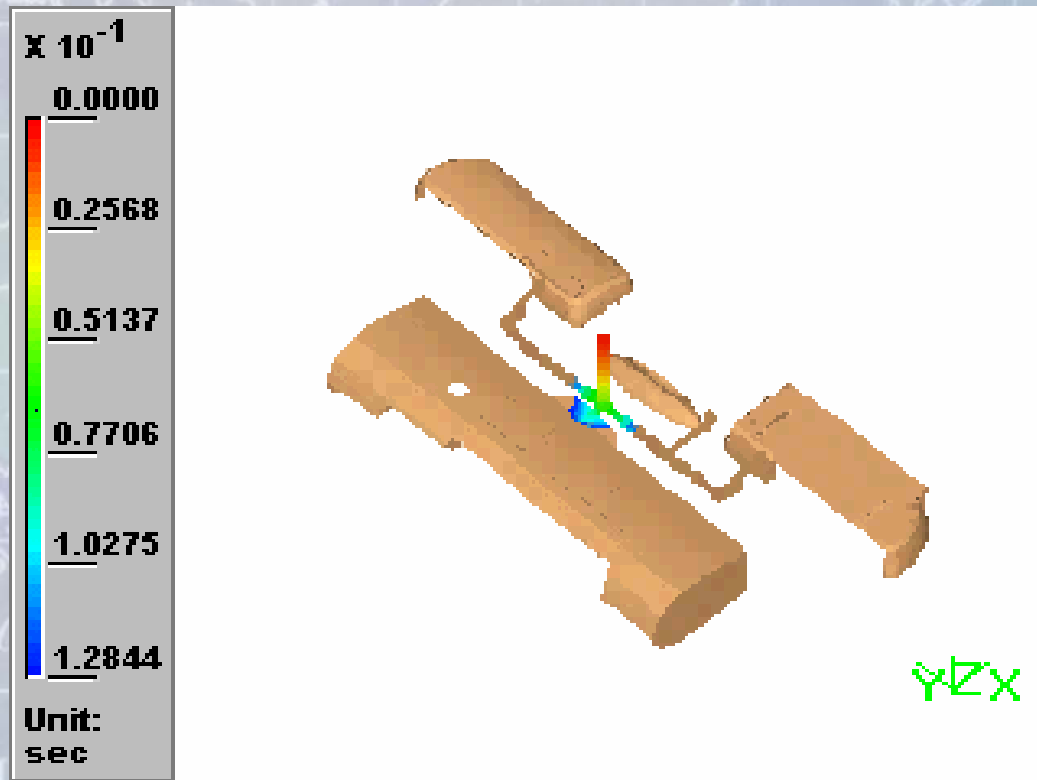
there are 5 long bosses,
they cause long core pins. (dia. 4 mm ,110.8mm long)
These pins will be bent while inject.

4 110.79

Core out from cavity side
(suggestion 1)

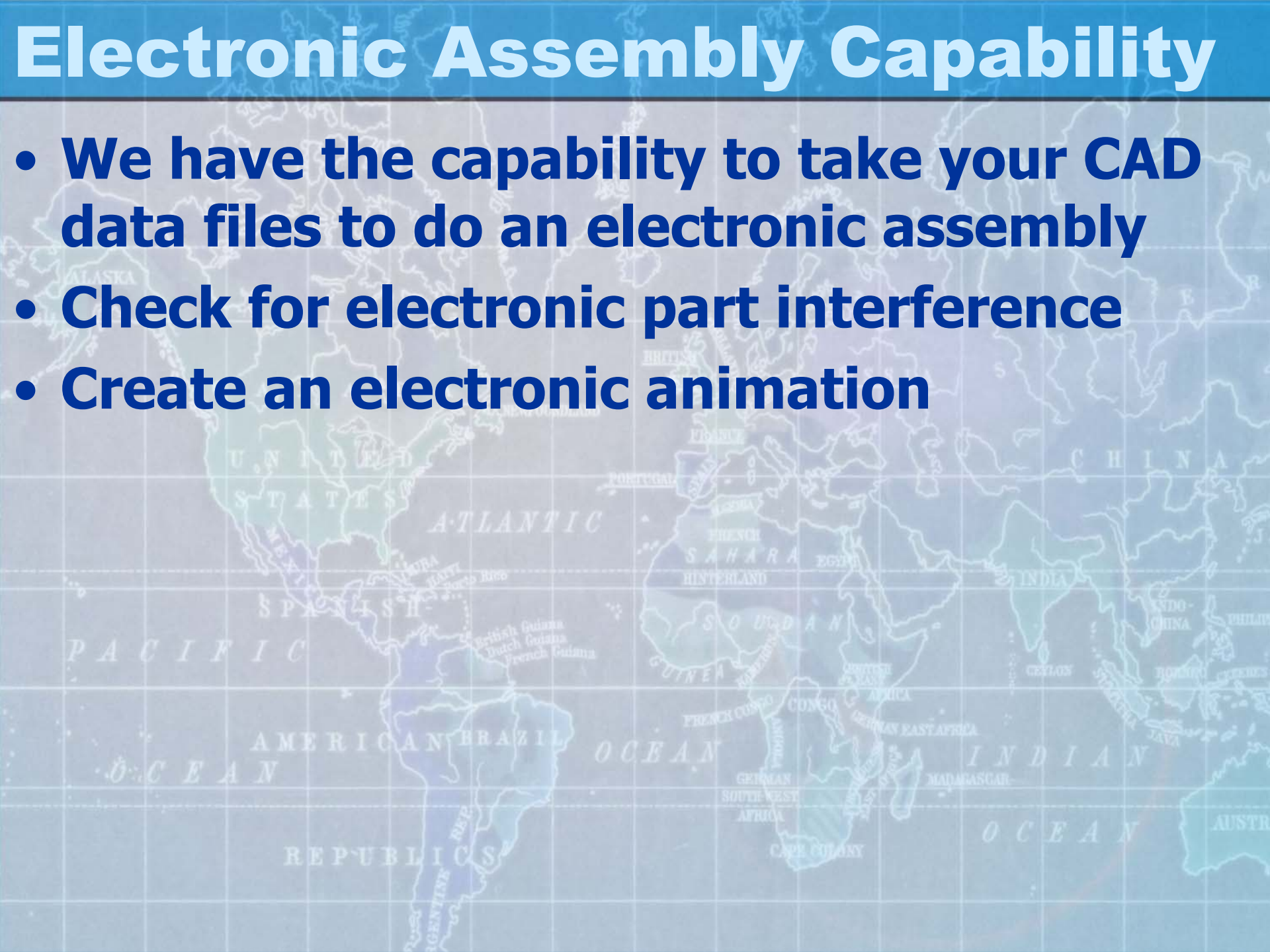
check list / thickness / rib&boss / draft / boss /

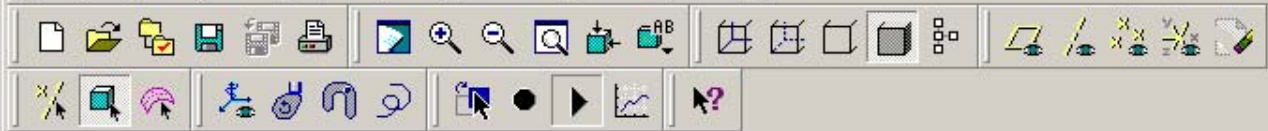
Mold flow



Electronic Assembly Capability

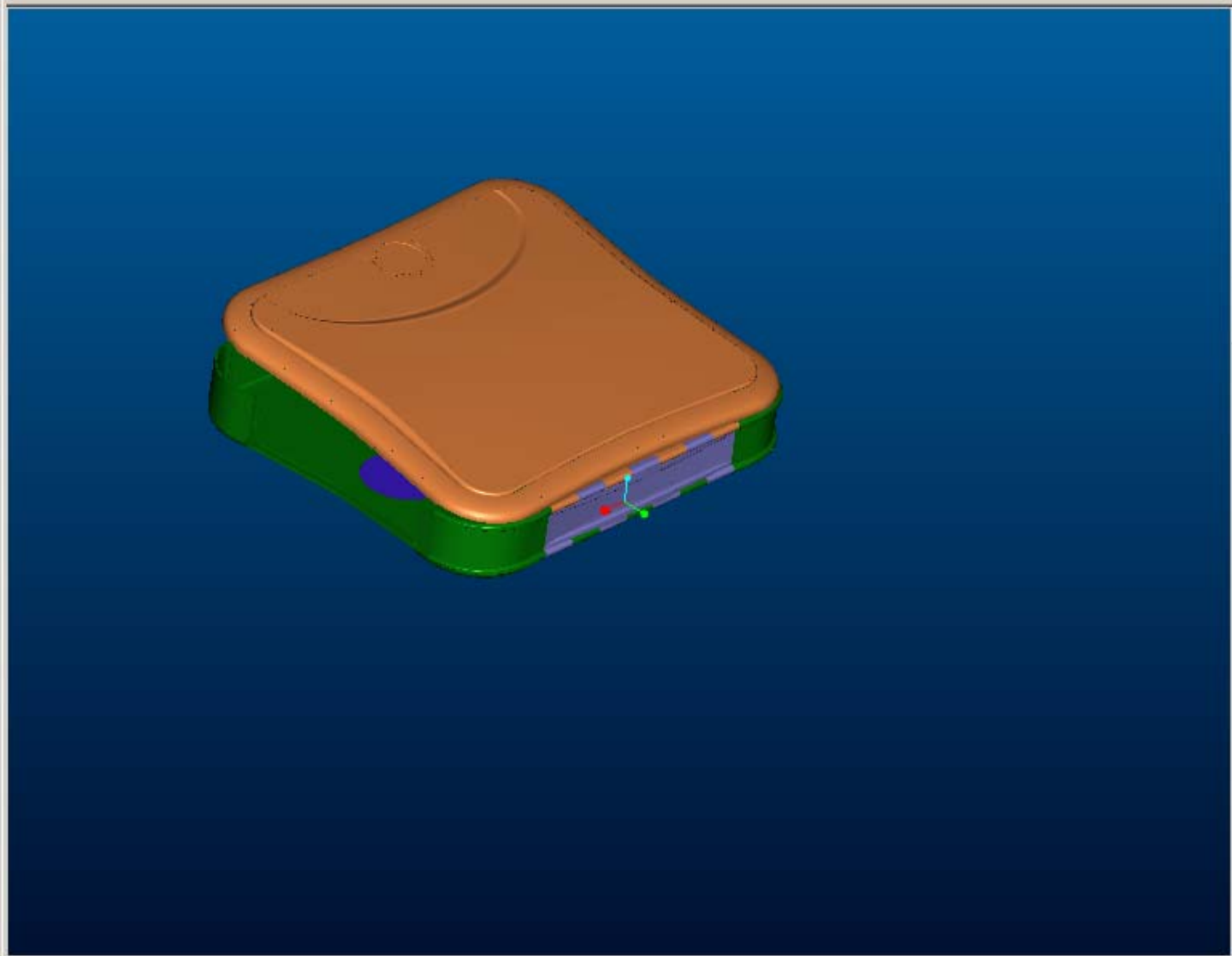
- We have the capability to take your CAD data files to do an electronic assembly
- Check for electronic part interference
- Create an electronic animation





Menu Manager

- ASSEMBLY
- Mechanism
- MECHANISM
 - Model
 - Connect
 - Drag
 - Run Motion



Animate

Frame

0 7 100

Speed

Capture...

Close

The 'Animate' dialog box provides controls for animating the model. It features a 'Frame' slider ranging from 0 to 100, with a current value of 7. Below the slider are navigation buttons: a left arrow, a double left arrow, a right arrow, and a double right arrow. A 'Speed' slider is also present, along with a 'Capture...' button and a 'Close' button. A mouse cursor is positioned over the right arrow navigation button.

Progress Reports

- **Web based**
- **Available 24/7**
- **Updated typically once a week**
- **Includes detailed spreadsheet**
- **Tool photos**
- **Steel certs, heat treat certs**
- **1st article reports**

Sample Progress Report

TOOLING SCHEDULE REPORT

CUSTOMER	Hytech	P.I. NO.	PY05E371	SUBCNTRCT	Yuan Hon		NOT FINISH	WEAR PLATE	
PROJECT TITLE	18095 (16 cavities)	T1 DATE	8/17/2005	PROJECT Mngr.	Eric Young		DELAY	SPRING	
ITEM	項目	PRED.START	PRED. FINISH	REAL START	REAL FINISH	%	ON TIME/ADVANCE	EJECTOR PIN	
		預定開始時間	預定完成日期	實際開始時間	實際完成時間	完成比率	RED WORD=NO ON SCHEDULE	SPRUE&LRING	
MOLD DESIGN	模具設計		6/21/2005		6/21/2005	100%			
MOLD BASE STEEL	模座備料	6/22/2005	6/30/2005	6/22/2005	6/30/2005	100%			
CORE PLATE MILL	公板加工	7/1/2005	7/20/2005	7/1/2005	7/20/2005	100%			
CAVITY PLATE MILL	母板加工	7/1/2005	7/20/2005	7/1/2005	7/20/2005	100%			
EJECT PIN HOLE	頂針孔	7/20/2005	7/28/2005	7/20/2005	7/28/2005	100%			
WATER LINE	水孔	7/28/2005	8/2/2005	7/28/2005		70%			
MANIFOLD	熱流板								
CAVITY STEEL	母模仁備料	6/22/2005	6/30/2005	6/22/2005	6/30/2005	100%			
ROUGH MILL	粗切削	6/30/2005	7/5/2005	6/30/2005	7/5/2005	100%			
WATER LINE	水孔	7/5/2005	7/11/2005	7/5/2005	7/11/2005	100%			
HEAT TREATMENT	熱處理	7/11/2005	7/15/2005	7/11/2005	7/15/2005	100%			
WIRE EDM	線切割	7/15/2005	7/21/2005	7/15/2005	7/21/2005	100%			
FINISH MILL	精切削	7/21/2005	7/28/2005	7/21/2005	7/28/2005	100%			
EDM ELECTRODE	母模電極	7/18/2005	7/25/2005	7/18/2005	7/25/2005	100%			
EDM SPARKLE	放電加工	7/28/2005	8/12/2005	7/28/2005		10%			
ROUGH POLISH	打光	8/12/2005	8/15/2005			0%			
CORE STEEL	公模仁備料	6/22/2005	6/30/2005	6/22/2005	6/30/2005	100%			
ROUGH MILL	粗切削	6/30/2005	7/5/2005	6/30/2005	7/5/2005	100%			
WATER LINE	水孔	7/5/2005	7/11/2005	7/5/2005	7/11/2005	100%			
HEAT TREATMENT	熱處理	7/11/2005	7/15/2005	7/11/2005	7/15/2005	100%			
WIRE EDM	線切割	7/15/2005	7/21/2005	7/15/2005	7/21/2005	100%			
FINISH MILL	精切削	7/21/2005	7/28/2005	7/21/2005	7/28/2005	100%			
EDM ELECTRODE	公模電極	7/18/2005	7/25/2005	7/18/2005	7/25/2005	100%			
EDM SPARKLE	放電加工	7/28/2005	8/12/2005	7/28/2005		10%			
ROUGH POLISH	打光	8/12/2005	8/15/2005			0%			

