



INTERNATIONAL TOOL & ENGINEERING



Bringing the world to your door

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Welcome to International Tool & Engineering

International Tool and Engineering is a full-service supplier of Overseas tooling, specializing in progressive, transfer, and line dies.

We believe our formula of having North American tool makers directly located in Asia, along with a local staff to follow tools from design to delivery, all the while maintaining North American program management located in South Eastern Michigan, sets any project up for success. Our team in the US works directly with the customer base to ensure proper process specific to each design catered to home line press specs.

We work directly with our international team overseeing tool design, build and tryout through to die shipment. (American and Asian). We are a full-service supplier with over 17 yrs of experience. If there is a need to reduce tooling costs to become more competitive in the marketplace as well as maintaining a tool build to North American standards, ITE is your choice for tooling.

We would be happy to quote any tooling program and review our standards with you.

We look forward to hearing from you.



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• Strong American Presence

Our Formula of consistently having full time presence in Asia ensures that the quality and project timing meets our customer's needs.





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•Benefits of working with International Tool & Engineering

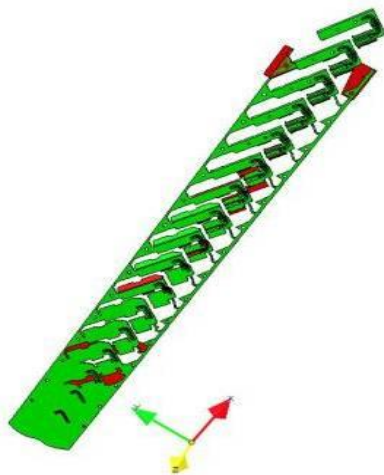
- Up front engineering and simulation for product feasibility & solutions
- International Tool & Engineering & customer involvement in strip layouts, processing & design buyoff
- International Tool & Engineering to manage the complete tooling program to fulfill the customers requirements of low cost, quality tooling with timely delivery
- Strong presence in Asia to ensure the success of programs as well as strong developed relationships with the tooling facilities, for a team atmosphere to achieve progress and satisfaction of the needs required for overseas ventures
- Weekly progress updates, Tracker, pictures of tool status to ensure the latest updates on the project timeline.
- We provide solid program management and will supply all the needed follow up information that the customer requires and needs to define the project
- Onsite program management personnel in Asia to ensure no delay in communication and needed direction, as well as full home line support per PPAP approvals.
- Design and coordination of tooling build between US and Asia per customer standards
- Strong APQP procedures & documentation in place with well defined milestones that are used as program gates to achieve customer expectations
- Strong Standard training for American build standards to achieve the desired build practices, to meeting the customer's tooling standards.



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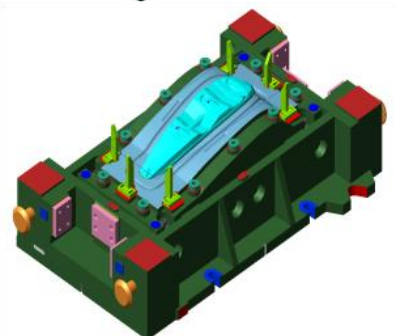
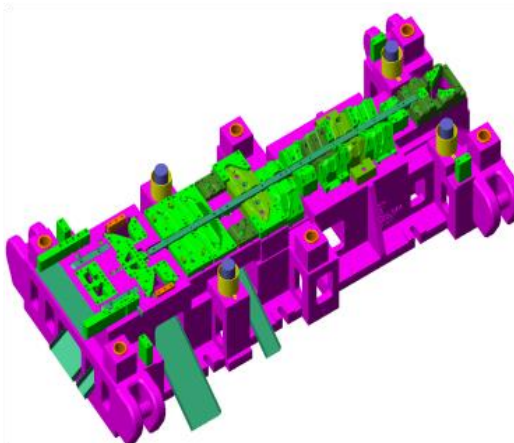
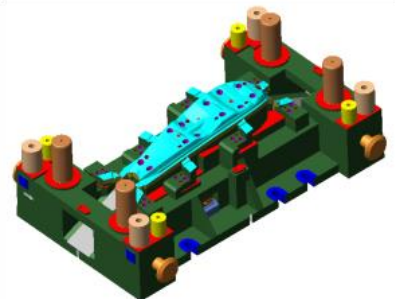
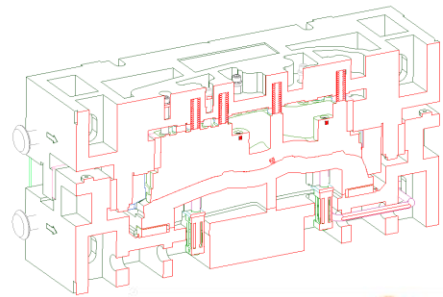
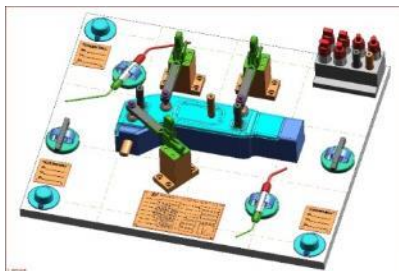
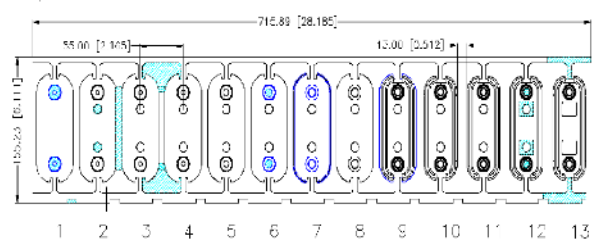
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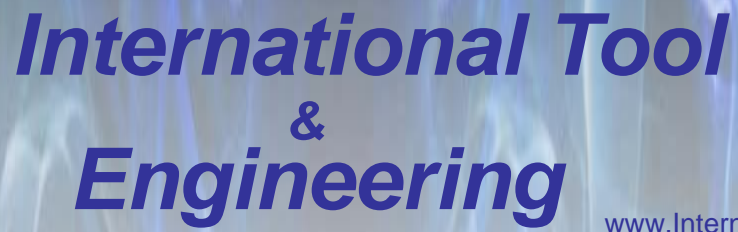
•From Designs



- 1.BUBBLE
- 2.NOTCH & PIERCE
- 3.TRIM
- 4.TRIM
- 5.EXTRUDE
- 6.PIERCE
- 7.COIN
- 8.DLE
- 9.TOM
- 10.RESTRKE
- 11.IDLE
- 12.PIERCE & SLAVE
- 13.CUTOFF

P/N 0131160101300 3mm ALUM

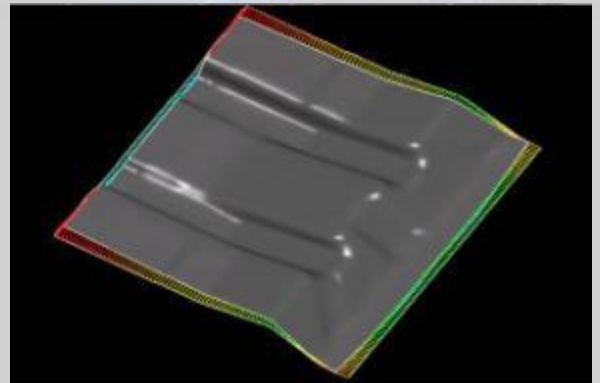
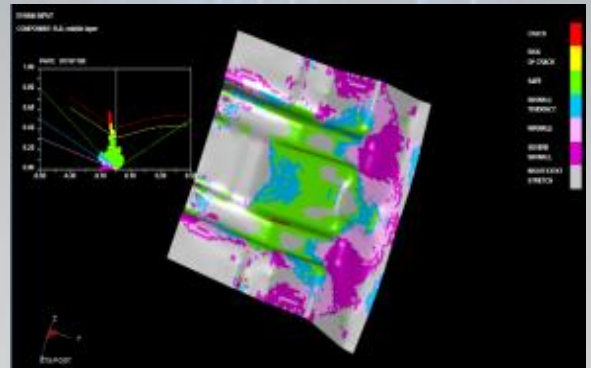




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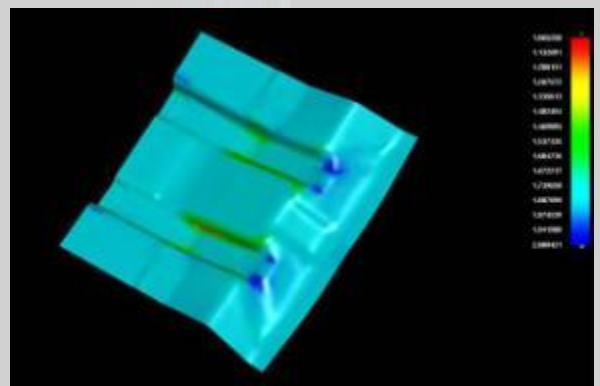
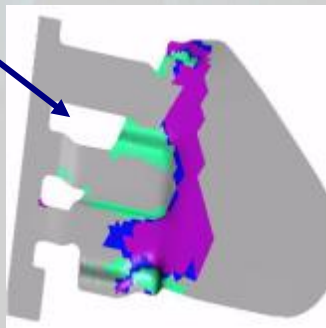
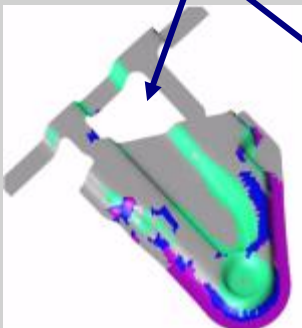
- ***Simulations***

- **Dynaform**
- **Draw analysis**
- **Bead placement, addendums**
- **Simulation to Tryout Maps**



Progressive Dies

- Multistage draws/forms
- Carrier testing
- Trim development

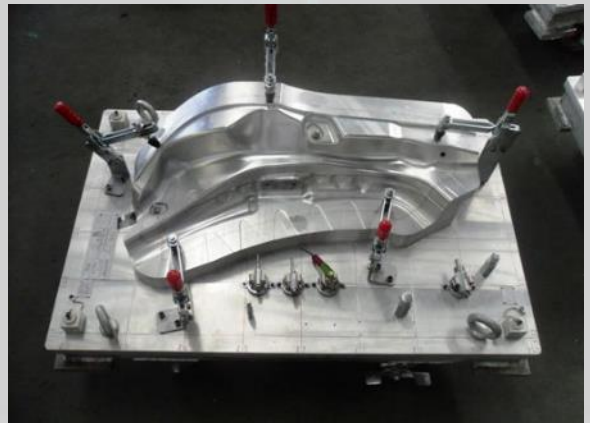
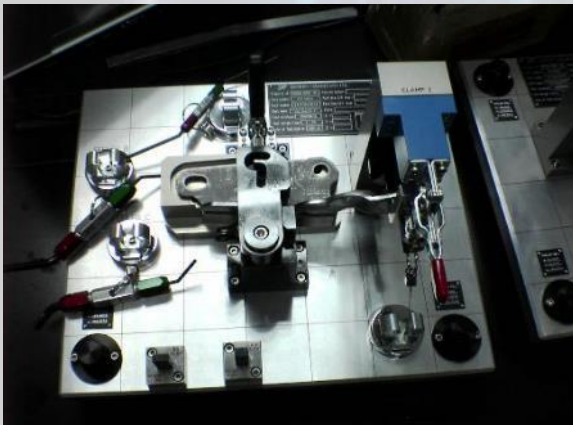
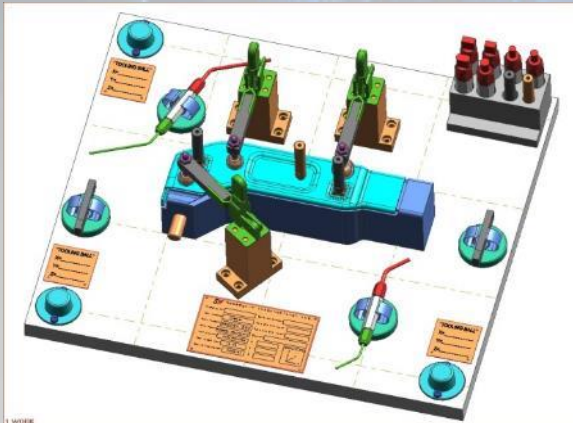




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- **Fixtures**

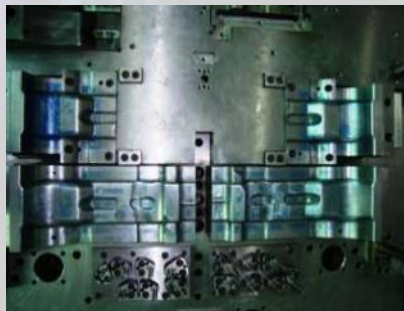
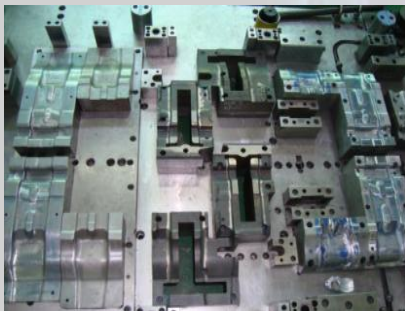
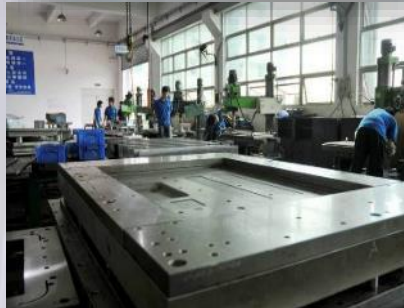




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•To Manufacturing





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•To Finished Products

International Tool & Engineering is there to deliver you a successful project .





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Below are just a few of our APQP forms used as gates to ensure that we are complying with all of our customer's requirements and expectations.

Approved Materials Used in ITE Tools

Standard components and die steels confirmation

GLOBAL TOOL STEELS COMPARISON

APPROVED STEELS	Hardness (HRC)	Equivalent steel					
		America	Germany	France	U.K	Japan	
		AISI	DIN	NF	BS	JIS	
SKD11	58~60	D2	1.2379	Z160CDV12	BD2A	SKD11	
Cr12	53~55	D3	1.2080	Z200C12	BD3	SKD1	
P20	28~35 pre-hard	P20 / 4140					
45#		1045	CK45	XC45	080M46	S45C	
A3		1020	CK22	XC18	050A20	S20C	

Die steels confirmation

Lower die	If Casting Build	Moly Iron (GMI/241)	Upper die	If Casting Build	Moly Iron (GMI/241)
	Die set	A3		Balance block	45#
	Parallels	A3		Keeper	45#
	Lift plate	P20 / 4140		Trim punch	D2
	Stock guide	Cr12		Punch holder	45#
	Stop block	45#		Holder backup plate	Cr12
	Lower cutting steels	D2		Form punch	D2
	Lower backup plate	45#		Form punch holder	45#
	Form die	D2		Stripper	45#
	Standoff	45#		Stripper windows	P20 / 4140
	Lift rail	P20 / 4140			

Brand of Standard Components

Guide pin and bushing?	Danly
Gas spring?	Kaller / Dadco
Ball-lock retainer?	Dayton
Pierce Punches & Die button?	Dayton
Pilots & Die button?	Dayton
Cam Units ?	Sankyo / Misumi + Return
Spools ?	Purchased Type Only
Pad Retainers ?	Purchased Type Only
Wear plate?	Lamina
Sensor and junction box?	Turck

Payment Terms: Currency USD

Tooling Payment Schedules:	
30% Payment	Die Design Completion
30% Payment	1st off parts
30% Payment	Buyoff at Tool shop
10% Payment	Home line Support - 45 days
Fixture Payment Schedules:	
30% Payment	Die Design Completion
60% Payment	Fixture delivery to tool shop
10% Payment	Home line Support - 45 days



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Data Control Record

		BUY-OFF PROCEDURE & RECORDS STANDARDS HANDBOOK DOCUMENT ITE's APQP REVISION No. ME.001 DATA RECEIVED RECORD		
PROGRAM MCS		INTERNATIONAL TOOL & ENGINEERING (ITE) DATA RECEIVED RECORD		
PART NO. 13385680				
DESCRIPTION				
DIE SOURCE ITE - China				
GD&T History				
Receive	Rev.	File name	Status	Comments
6/9/2014	Quote	13385680.01	Quote	Quote Drawing
8/3/2014	0.002299	13385680.01	current	Release Drawing
<h1>Page 1</h1>				
CAD MATH History				
Receive	Rev.	File name	Status	Comments
6/9/2014	Quote	13385680.01	Quote	Quote Data
8/3/2014	0.002299	13385680.01	current	Release Data



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APQP – Strip Review & Approval Form

		INTERNATIONAL TOOL & ENGINEERING (ITE) STRIP LAYOUT AND DIE DESIGN BASIC THOUGHT PROCESS GUIDE																																				
<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>PROGRAM: MCS</p> <p>PART NO.: 13385680</p> <p>DESCRIPTION: 0</p> <p>DIE SOURCE: ITE - China</p> </div> <div style="width: 65%;"> <p>ITE DRY-OFF PROCEDURE & RECORDS</p> <p>STANDARDS HANDBOOK DOCUMENT</p> <p>ITE - APQP REVISION No. ME.0015</p> <p>DESCRIPTION - PROCESS & SIGNOFF</p> </div> </div>																																						
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 45%;"> <p>Tool Type: Progression</p> <p>Parts Per Stroke: 2</p> <p>Strip Width: 8.82 inches [Progress] [Value]</p> <p>Progression: 5.34 inches [Progress] [Value]</p> <p>Blank size: NA inches [Line/Transfer only]</p> <p>Shut Height: NA</p> <p>Feed Height: NA</p> <p>Die Drill Hole in Imperial: Metric</p> <p>Die Drill out: High [Value]</p> <p>Any Changeover Required: No</p> <p>Material Consumption Approved: yes [Approved]</p> <p>Cushion Bites Approved: yes</p> </td> <td style="width: 55%;"> <p>Flank:</p> <p>Form Number: 22</p> <p>Prod Size L x W: 102</p> <p>Run Size L x W: 102</p> <p>Feed Direction: R to L</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Length</th> <th>Width</th> </tr> <tr> <td>Die Size: 96</td> <td>35</td> </tr> </table> <p>Number of Stations: 3</p> <p>Estimated Tonnage: 300 Tons</p> <p>Spares Required: No</p> </td> </tr> </table>						<p>Tool Type: Progression</p> <p>Parts Per Stroke: 2</p> <p>Strip Width: 8.82 inches [Progress] [Value]</p> <p>Progression: 5.34 inches [Progress] [Value]</p> <p>Blank size: NA inches [Line/Transfer only]</p> <p>Shut Height: NA</p> <p>Feed Height: NA</p> <p>Die Drill Hole in Imperial: Metric</p> <p>Die Drill out: High [Value]</p> <p>Any Changeover Required: No</p> <p>Material Consumption Approved: yes [Approved]</p> <p>Cushion Bites Approved: yes</p>	<p>Flank:</p> <p>Form Number: 22</p> <p>Prod Size L x W: 102</p> <p>Run Size L x W: 102</p> <p>Feed Direction: R to L</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Length</th> <th>Width</th> </tr> <tr> <td>Die Size: 96</td> <td>35</td> </tr> </table> <p>Number of Stations: 3</p> <p>Estimated Tonnage: 300 Tons</p> <p>Spares Required: No</p>	Length	Width	Die Size: 96	35																											
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<div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> <p>DUAL PHASE (DP):</p> <p>High Strength Low Alloy (HSLA)</p> <p>Cold Rolled or Hot Rolled (CR/HR)</p> <p>OTHER TYPE OF MATERIAL:</p> <p>ANNUAL VOLUME: 15,000 PER YR - 5 YRS</p> </div> <div style="width: 35%;"> <p>YES NO N/A</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table> </div> </div>						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																								
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<div style="display: flex; justify-content: space-between;"> <div style="width: 70%;"> <p>Received released math data per kick off?</p> <p>Received released GD&T drawing files per kick off?</p> <p>Received proxx allocation?</p> <p>If Transfer, Proxx corner or transfer arm info received from customer?</p> <p>Received customer standards?</p> <p style="color: red; font-weight: bold;">Note: Program timing not to start until above information is received</p> <p>Is the blank size less than or equal to quoted size? If not why?</p> <p>Is the estimated tonnage less than or equal to quoted size? If not why?</p> <p>Does the die size fit the quoted proxx?</p> <p>Is there a minimum of one idle station?</p> <p>Is notch, corner, or misfeed & strip roll back identified in strip layout?</p> <p>Is corner for part off identified in strip layout?</p> <p>Optimize strip width?</p> <p>Optimize the strip carrier width?</p> <p>Is location of stamp for traceability identified in strip layout?</p> <p>Are pilots at its maximum diameter within the minimum carrier dimension?</p> <p>Datum / Piloting consistent?</p> <p>Maximized material consumption and minimized scrap?</p> <p>Is the current number of parts the best scenario?</p> </div> <div style="width: 25%;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table> </div> </div>						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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PROCESS / OPERATION LAYOUT APPROVAL																																						
<p>NOTES:</p> <hr/> <hr/> <hr/> <hr/> <hr/>																																						
<div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> <p>ITE MFG. ENGINEERING: _____</p> <p>CUSTOMER PLANT REPRESENTATIVE: _____</p> <p>TOOL SOURCE REPRESENTATIVE: _____</p> </div> <div style="width: 35%;"> <p>Date: _____</p> <p>Date: _____</p> <p>Date: _____</p> </div> </div>																																						



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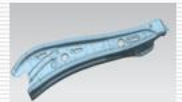
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At the time of strip review. ITE will also supply a completed simulation report and if there are part concerns. ITE will also supply part issues and suggested solutions as part of our up-front engineering procedures

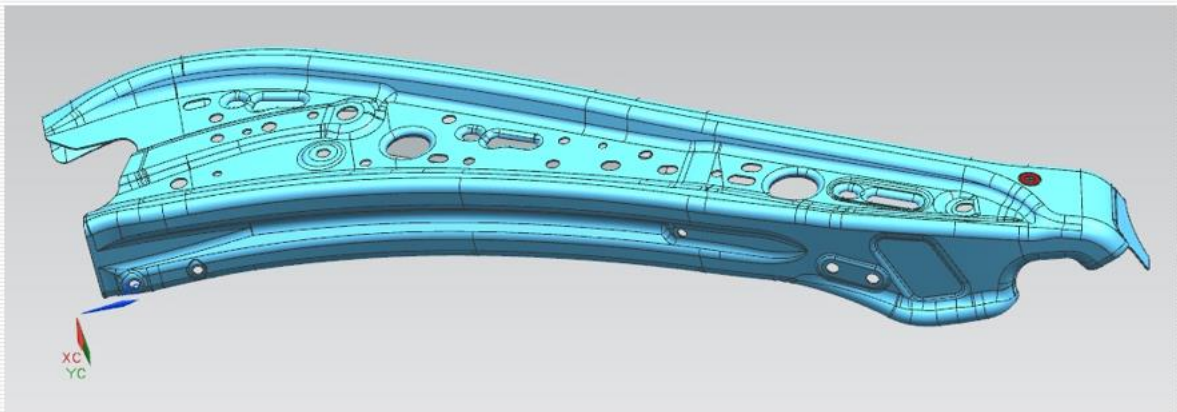
SEE BELOW EXAMPLES



PART INFORMATION 56960-01



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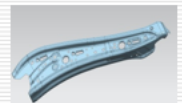
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EXAMPLE

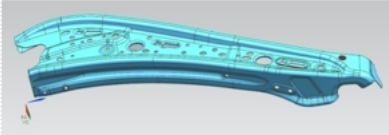
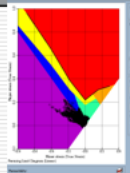



PART INFORMATION 56960-01



INTERNATIONAL TOOL & ENGINEERING
CURRENT PRODUCT / DEVELOPMENT
INFORMATION

Part Number	56960-01		Part Name		
Program	PART INFORMATION	E/C Level	See information in next page	Date Received	2014.07.23
Development Lvl.	Ug / Catia	Sim. Ver.	REV00	Date Created	2014.07.23
Program Manager	jack	CAD Designer	AutoForm4.6	FEA Analyst	Kevin

SIMULATION PARAMETERS					
Material Information				Simulation Summary	
Material Spec	CR980T	Material Type	Steel		
Material Thickness	T=0.8	Material Source	**		
Yield	545	Friction			
tensile	1067	K - Value			
R- Bar	**	n - Value			
				FLD	STATUS
					



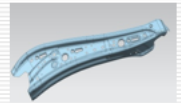
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EXAMPLE



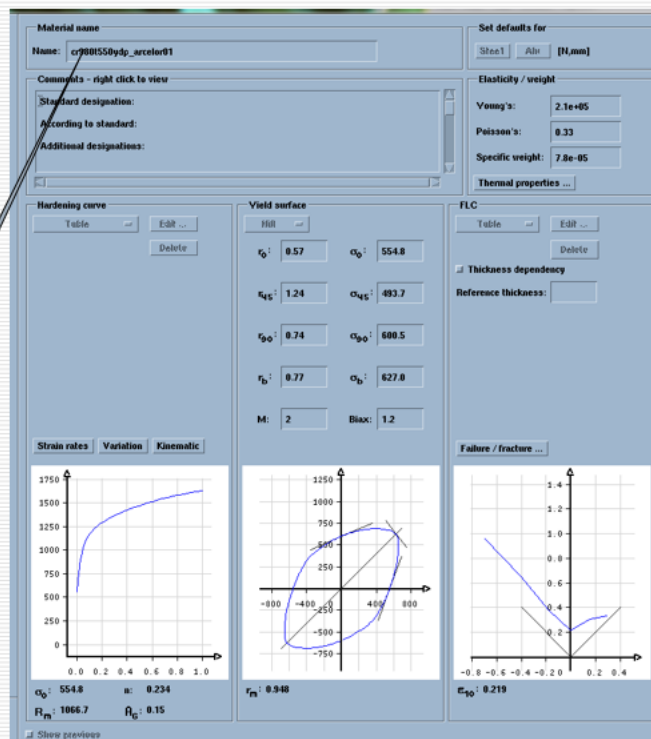
PART INFORMATION 56960-01



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Material:
cr980t550ydp_arcelo
r01

Material





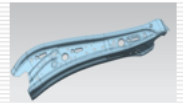
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EXAMPLE



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OP10 FORM



OP20 FORM



OP30 FORM



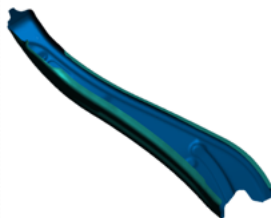
OP40 FORM



OP50 CAM FORM



OP60 CAM FORM



OP70 CAM FORM



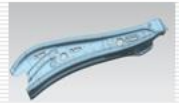
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EXAMPLE

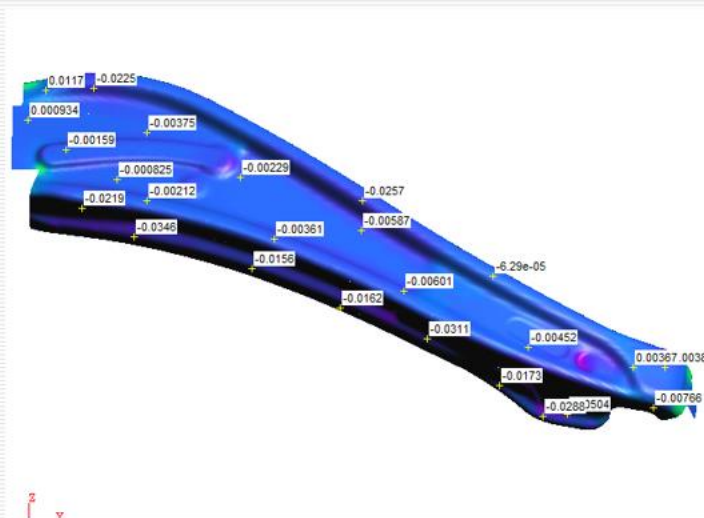


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THINING





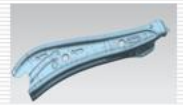
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EXAMPLE

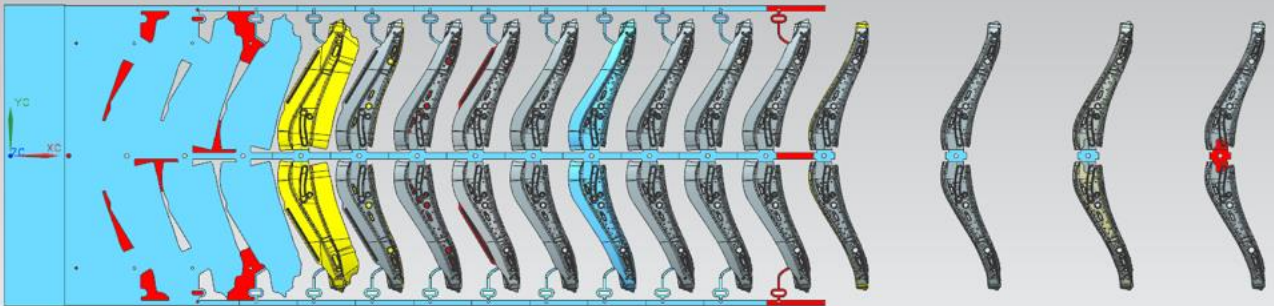


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Layout





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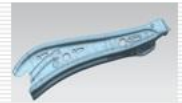
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EXAMPLE – PART CONCERNS

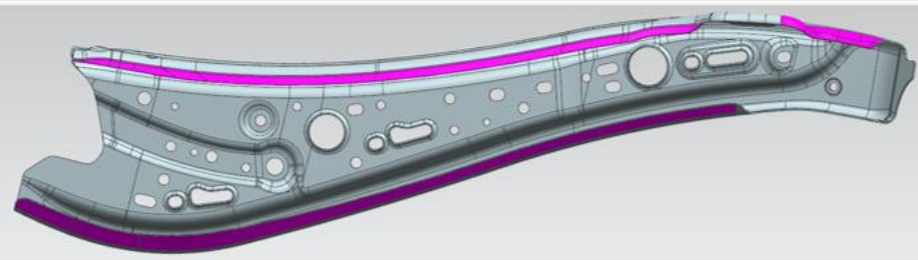
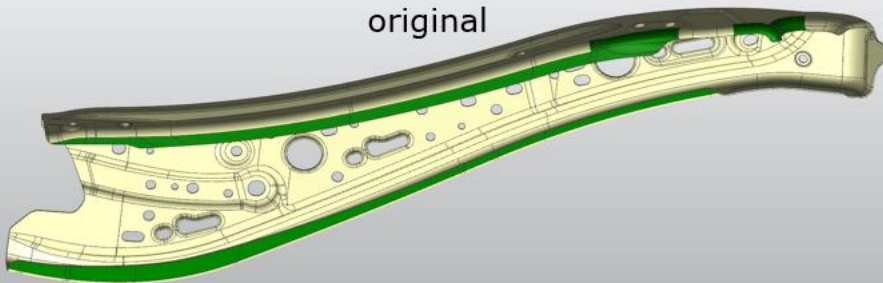


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original



modification



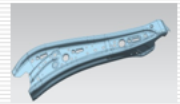
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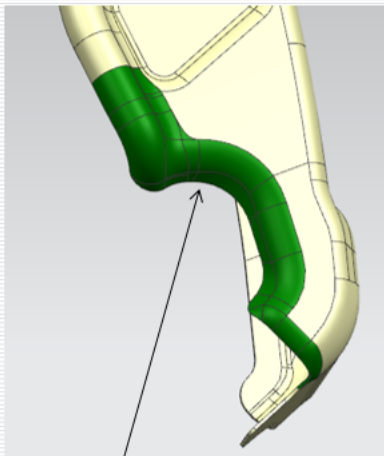
EXAMPLE – PART CONCERNS



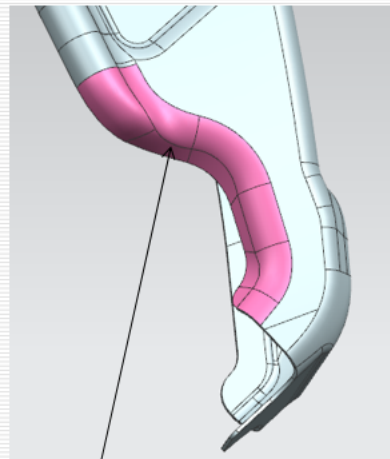
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Green is original



Pink is modification



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After Strip Approval, ITE will then proceed unto designs, ITE will schedule a 50% review with customer with extensive documentation capturing the customers requested corrections. Once corrections are completed, ITE will then schedule a 100% review with the customer

APQP - Design Review Form

 International Tool & Engineering		ITE BUY-OFF PROCEDURE & RECORDS STANDARDS HANDBOOK DOCUMENT ITE's APQP REVISION No. ME.013 DESCRIPTION - DESIGN CHECKLIST
PROGRAM MCS PART NO. 13305680 DESCRIPTION 0 DIE SOURCE ITE - China	INTERNATIONAL TOOL & ENGINEERING (ITE) DIE DESIGN CHECKLIST	
NOTE: It is tool shop's responsibility to ensure to meet all aspects of ITE's Design and Build Standards.		

DESIGN REVIEW / DESIGN APPROVAL FORM	YES NO N/A FIX
DESIGN ITEMS:	
1 Is die information called out?	
Part Number ? <u>56961</u>	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Part Name ? <u>Seat bracket</u>	
Part Level? <u>Math Lvl: GD&T Lvl:</u>	
Designed Metric/Imperial ? <u>metric</u>	
Progression and coil width? <u>780 X 230</u>	
List overall die size <u>Wide 680 x Length 1450 x Sht. Ht. 965.2</u>	
Material size used at buyoff <u>Wide x Length x Gauge</u>	
2 Does overall die size match Die Press Spec Sheet?	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
3 Does die design show die open?	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
4 Is there sufficient clearance for automation to remove part out of die?	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
5 If die is hand transfer is there enough clearance to remove part off post?	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>
6 Are heels, or guide pins enter prior to any work being done?	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
7 Will one heel and/or guide pin be offset?	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>




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Below is example of the design review
correction record

APQP – Review Record

 International Tool & Engineering		ITE BUY-OFF PROCEDURE & RECORDS STANDARDS HANDBOOK DOCUMENT ITE's APQP REVISION No. ME.012 DESCRIPTION - DIE CORRECTION RECORD	
PROGRAM	GMEVO	<input checked="" type="checkbox"/> Design Corrections	
PART NO.	FD 56730	<input type="checkbox"/> Build Corrections	
DESCRIPTION			
DIE SOURCE	ITE China		
LOCATION	China		
NOTE: Please see original hard copy for the complete buy off checklist			
1	Need to protect the tapping unit, Customer want the lower die shoe to add 6inches each side to width and upper 3 inches each side to width.	10	Need to add wearplate to heel block, make cam retainer longer and move the other retainer down, then also add another screw (3 screws per retainer)
2	strip width is larger than quoted, customer loses money need to make strip size same as your quoted size (quoted Size 141x 523)	11	Need to make this fill slide cam as a pivot form to fill part before camilage enters
3	Need to change strip carrier, customer rejected it. Also need to change orientation of part. So that the carriers are pulling the part and not pushing the part	12	need to add more gas spring to balance out lifter, also need to move angle back to help part fall off of tool
	Rotat part 180 degrees, then change carrier to a one carrier per side and the one carrier will be a pinch trim	13	Make detail on solid detail with an insert for adjustability on the one side. This will make it stronger
4	Make the inserts availabl from top	14	Make ALL trim punches with minimum of 2 screws
6	Need to ad part ejectors	15	no punches can be longer than 3 inches long and the bondy must be minimum of 1/2 in diameter. Build riser post to make smaller and chane body diameter of small punches
6	Customer wants 4 screws in each of the heel post	16	remove this pallel and replace it with solid block backed up to press ram

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ITE will provide weekly status up-dates along with an open issue log and picture reports of the tools progress as evidence of the timeline and status

Please see the below examples

APQP – Weekly Status Report

Project Management																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
#	Part Number, Name & Material Type	Revision & Level	Sketch	Die Type	TIME	Schedule	WIP Layout	SPD 1 Start	SPD 1 End	SPD 1 Approval	SPD 2 Start	SPD 2 End	SPD 2 Approval	SPD 3 Start	SPD 3 End	SPD 3 Approval	SPD 4 Start	SPD 4 End	SPD 4 Approval	SPD 5 Start	SPD 5 End	SPD 5 Approval	SPD 6 Start	SPD 6 End	SPD 6 Approval	SPD 7 Start	SPD 7 End	SPD 7 Approval	SPD 8 Start	SPD 8 End	SPD 8 Approval	SPD 9 Start	SPD 9 End	SPD 9 Approval	SPD 10 Start	SPD 10 End	SPD 10 Approval	SPD 11 Start	SPD 11 End	SPD 11 Approval	SPD 12 Start	SPD 12 End	SPD 12 Approval	SPD 13 Start	SPD 13 End	SPD 13 Approval	SPD 14 Start	SPD 14 End	SPD 14 Approval	SPD 15 Start	SPD 15 End	SPD 15 Approval	SPD 16 Start	SPD 16 End	SPD 16 Approval	SPD 17 Start	SPD 17 End	SPD 17 Approval	SPD 18 Start	SPD 18 End	SPD 18 Approval	SPD 19 Start	SPD 19 End	SPD 19 Approval	SPD 20 Start	SPD 20 End	SPD 20 Approval	SPD 21 Start	SPD 21 End	SPD 21 Approval	SPD 22 Start	SPD 22 End	SPD 22 Approval	SPD 23 Start	SPD 23 End	SPD 23 Approval	SPD 24 Start	SPD 24 End	SPD 24 Approval	SPD 25 Start	SPD 25 End	SPD 25 Approval	SPD 26 Start	SPD 26 End	SPD 26 Approval	SPD 27 Start	SPD 27 End	SPD 27 Approval	SPD 28 Start	SPD 28 End	SPD 28 Approval	SPD 29 Start	SPD 29 End	SPD 29 Approval	SPD 30 Start	SPD 30 End	SPD 30 Approval	SPD 31 Start	SPD 31 End	SPD 31 Approval	SPD 32 Start	SPD 32 End	SPD 32 Approval	SPD 33 Start	SPD 33 End	SPD 33 Approval	SPD 34 Start	SPD 34 End	SPD 34 Approval	SPD 35 Start	SPD 35 End	SPD 35 Approval	SPD 36 Start	SPD 36 End	SPD 36 Approval	SPD 37 Start	SPD 37 End	SPD 37 Approval	SPD 38 Start	SPD 38 End	SPD 38 Approval	SPD 39 Start	SPD 39 End	SPD 39 Approval	SPD 40 Start	SPD 40 End	SPD 40 Approval	SPD 41 Start	SPD 41 End	SPD 41 Approval	SPD 42 Start	SPD 42 End	SPD 42 Approval	SPD 43 Start	SPD 43 End	SPD 43 Approval	SPD 44 Start	SPD 44 End	SPD 44 Approval	SPD 45 Start	SPD 45 End	SPD 45 Approval	SPD 46 Start	SPD 46 End	SPD 46 Approval	SPD 47 Start	SPD 47 End	SPD 47 Approval	SPD 48 Start	SPD 48 End	SPD 48 Approval	SPD 49 Start	SPD 49 End	SPD 49 Approval	SPD 50 Start	SPD 50 End	SPD 50 Approval	SPD 51 Start	SPD 51 End	SPD 51 Approval	SPD 52 Start	SPD 52 End	SPD 52 Approval	SPD 53 Start	SPD 53 End	SPD 53 Approval	SPD 54 Start	SPD 54 End	SPD 54 Approval	SPD 55 Start	SPD 55 End	SPD 55 Approval	SPD 56 Start	SPD 56 End	SPD 56 Approval	SPD 57 Start	SPD 57 End	SPD 57 Approval	SPD 58 Start	SPD 58 End	SPD 58 Approval	SPD 59 Start	SPD 59 End	SPD 59 Approval	SPD 60 Start	SPD 60 End	SPD 60 Approval	SPD 61 Start	SPD 61 End	SPD 61 Approval	SPD 62 Start	SPD 62 End	SPD 62 Approval	SPD 63 Start	SPD 63 End	SPD 63 Approval	SPD 64 Start	SPD 64 End	SPD 64 Approval	SPD 65 Start	SPD 65 End	SPD 65 Approval	SPD 66 Start	SPD 66 End	SPD 66 Approval	SPD 67 Start	SPD 67 End	SPD 67 Approval	SPD 68 Start	SPD 68 End	SPD 68 Approval	SPD 69 Start	SPD 69 End	SPD 69 Approval	SPD 70 Start	SPD 70 End	SPD 70 Approval	SPD 71 Start	SPD 71 End	SPD 71 Approval	SPD 72 Start	SPD 72 End	SPD 72 Approval	SPD 73 Start	SPD 73 End	SPD 73 Approval	SPD 74 Start	SPD 74 End	SPD 74 Approval	SPD 75 Start	SPD 75 End	SPD 75 Approval	SPD 76 Start	SPD 76 End	SPD 76 Approval	SPD 77 Start	SPD 77 End	SPD 77 Approval	SPD 78 Start	SPD 78 End	SPD 78 Approval	SPD 79 Start	SPD 79 End	SPD 79 Approval	SPD 80 Start	SPD 80 End	SPD 80 Approval	SPD 81 Start	SPD 81 End	SPD 81 Approval	SPD 82 Start	SPD 82 End	SPD 82 Approval	SPD 83 Start	SPD 83 End	SPD 83 Approval	SPD 84 Start	SPD 84 End	SPD 84 Approval	SPD 85 Start	SPD 85 End	SPD 85 Approval	SPD 86 Start	SPD 86 End	SPD 86 Approval	SPD 87 Start	SPD 87 End	SPD 87 Approval	SPD 88 Start	SPD 88 End	SPD 88 Approval	SPD 89 Start	SPD 89 End	SPD 89 Approval	SPD 90 Start	SPD 90 End	SPD 90 Approval	SPD 91 Start	SPD 91 End	SPD 91 Approval	SPD 92 Start	SPD 92 End	SPD 92 Approval	SPD 93 Start	SPD 93 End	SPD 93 Approval	SPD 94 Start	SPD 94 End	SPD 94 Approval	SPD 95 Start	SPD 95 End	SPD 95 Approval	SPD 96 Start	SPD 96 End	SPD 96 Approval	SPD 97 Start	SPD 97 End	SPD 97 Approval	SPD 98 Start	SPD 98 End	SPD 98 Approval	SPD 99 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Approval	SPD 284 Start	SPD 284 End	SPD 284 Approval	SPD 285 Start	SPD 285 End	SPD 285 Approval	SPD 286 Start	SPD 286 End	SPD 286 Approval	SPD 287 Start	SPD 287 End	SPD 287 Approval	SPD 288 Start	SPD 288 End	SPD 288 Approval	SPD 289 Start	SPD 289 End	SPD 289 Approval	SPD 290 Start	SPD 290 End	SPD 290 Approval	SPD 291 Start	SPD 291 End	SPD 291 Approval	SPD 292 Start	SPD 292 End	SPD 292 Approval	SPD 293 Start	SPD 293 End	SPD 293 Approval	SPD 294 Start	SPD 294 End	SPD 294 Approval	SPD 295 Start	SPD 295 End	SPD 295 Approval	SPD 296 Start	SPD 296 End	SPD 296 Approval	SPD 297 Start	SPD 297 End	SPD 297 Approval	SPD 298 Start	SPD 298 End	SPD 298 Approval	SPD 299 Start	SPD 299 End	SPD 299 Approval	SPD 300 Start	SPD 300 End	SPD 300 Approval	SPD 301 Start	SPD 301 End	SPD 301 Approval	SPD 302 Start	SPD 302 End	SPD 302 Approval	SPD 303 Start	SPD 303 End	SPD 303 Approval	SPD 304 Start	SPD 304 End	SPD 304 Approval	SPD 305 Start	SPD 305 End	SPD 305 Approval	SPD 306 Start	SPD 306 End	SPD 306 Approval	SPD 307 Start	SPD 307 End	SPD 307 Approval	SPD 308 Start	SPD 308 End	SPD 308 Approval	SPD 309 Start	SPD 309 End	SPD 309 Approval	SPD 310 Start	SPD 310 End	SPD 310 Approval	SPD 311 Start	SPD 311 End	SPD 311 Approval	SPD 312 Start	SPD 312 End	SPD 312 Approval	SPD 313 Start	SPD 313 End	SPD 313 Approval	SPD 314 Start	SPD 314 End	SPD 314 Approval	SPD 315 Start	SPD 315 End	SPD 315 Approval	SPD 316 Start	SPD 316 End	SPD 316 Approval	SPD 317 Start	SPD 317 End	SPD 317 Approval	SPD 318 Start	SPD 318 End	SPD 318 Approval	SPD 319 Start	SPD 319 End	SPD 319 Approval	SPD 320 Start	SPD 320 End	SPD 320 Approval	SPD 321 Start	SPD 321 End	SPD 321 Approval	SPD 322 Start	SPD 322 End	SPD 322 Approval	SPD 323 Start	SPD 323 End	SPD 323 Approval	SPD 324 Start	SPD 324 End	SPD 324 Approval	SPD 325 Start	SPD 325 End	SPD 325 Approval	SPD 326 Start	SPD 326 End	SPD 326 Approval	SPD 327 Start	SPD 327 End	SPD 327 Approval	SPD 328 Start	SPD 328 End	SPD 328 Approval	SPD 329 Start	SPD 329 End	SPD 329 Approval	SPD 330 Start	SPD 330 End	SPD 330 Approval	SPD 331 Start	SPD 331 End	SPD 331 Approval	SPD 332 Start	SPD 332 End	SPD 332 Approval	SPD 333 Start	SPD 333 End	SPD 333 Approval	SPD 334 Start	SPD 334 End	SPD 334 Approval	SPD 335 Start	SPD 335 End	SPD 335 Approval	SPD 336 Start	SPD 336 End	SPD 336 Approval	SPD 337 Start	SPD 337 End	SPD 337 Approval	SPD 338 Start	SPD 338 End	SPD 338 Approval	SPD 339 Start	SPD 339 End	SPD 339 Approval	SPD 340 Start	SPD 340 End	SPD 340 Approval	SPD 341 Start	SPD 341 End	SPD 341 Approval	SPD 342 Start	SPD 342 End	SPD 342 Approval	SPD 343 Start	SPD 343 End	SPD 343 Approval	SPD 344 Start	SPD 344 End	SPD 344 Approval	SPD 345 Start	SPD 345 End	SPD 345 Approval	SPD 346 Start	SPD 346 End	SPD 346 Approval	SPD 347 Start	SPD 347 End	SPD 347 Approval	SPD 348 Start	SPD 348 End	SPD 348 Approval	SPD 349 Start	SPD 349 End	SPD 349 Approval	SPD 350 Start	SPD 350 End	SPD 350 Approval	SPD 351 Start	SPD 35

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EXAMPLE – WEEKLY PICTURE REPORT



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Tool status AMS67152/187



We are machining hard trim steel now and will be finish it on 25th, we will then run the customer sample on 28th.



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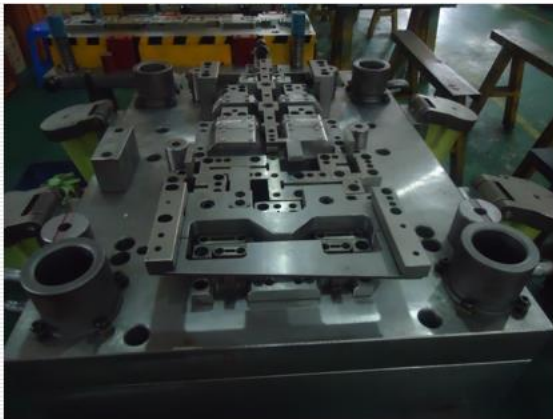
EXAMPLE – WEEKLY PICTURE REPORT



INTERNATIONAL TOOL & ENGINEERING



Tool status AMJ20414/426



We are improving the part quality and will
be run the sample on 25th.



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SUCCESS***