



ABIS MOLD TECHNOLOGY (HK) CO., LTD



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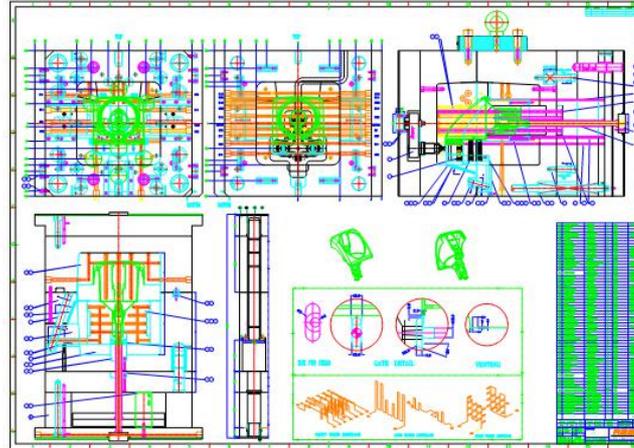


ABIS Mold was found in 1996 in Shenzhen, adjacent to HK, China. and we moved to Long gang District in 2010. With the advanced facilities from Germany, Switzerland and Japan, and a highly experienced design and engineering team, ABIS builds multi-cavity molds to exacting tolerances, providing the critical structural foundation for leading manufacturing companies to produce high precision mold.

At ABIS, All new programs are entered into APQP as soon as the purchase order is received. A team will be assigned to review all steps of the project from tool design through work cell assignment, continuing on to the customer's first production run. Before mold building, Our teams will evaluate your part design to give you the proactive comments, such as Cooling, Venting, Gating, Cavity/Core sticking concerns, Short Shot possibility, Thin steel conditions, etc. also our engineers will assist in improving the part design and optimizing the mold design to save your cost.

Our molding press machine ranges from 40T to 650T, 300+ molds capacity each year, and 70 % are exported to Europe and North America. Post molding operations include: CNC Machining, decorating, ultrasonic welding, silkscreen and assembly & insertion.

In addition to our plastic mold and molding specialties, we also can provide you the services such as die casting, stamping /punching, blowing mold, as well as the secondary process.



Engineering:

- Pro/ENGINEER(3D Modeling)
- Solid works(3D Modeling)
- AutoCAD(2D Modeling)
- Mold flow Mold Advisor (Plastic flow/deform simulation)-outsource
- Master CAM (CNC Programming)
- Unigraphics (CNC Programming)
- CNC Machining Centers
- CNC EDM's (Electro-Discharge Machining)
- Wire-Cut Machines

Mold standards

- Mold Steel: ASSAB, DAIDO, FINKL, AUBERT & DUVAL, GS, LKM;
- Mold Base: DME, HASCO, FUTABA, LKM;
- Hot Runner: MOLD MASTER, Master TIP, HUSKY, HASCO, DME, YUDO, INCOE, THERMOPLAY;
- Standard Parts: DME, HASCO, NEAREST ANSI STANDARD, NEAREST DIN STANDARD, LKM;
- Texture: Mold-tech, Yick Sang,
- Polish: SPI standard



Mold Making QC main steps

Mould Design Control : Design review checklist before submitting to the customer. We will not start the steel purchasing work until get your written approval on our mold drawing.

Incoming quality control: all steel material and outsourcing standard components will be checked to ensure that they are in accordance with the BOM(QTY and material/components name specified).

In process quality control: all the machining and assembling process is under control, we have QC team to check and supervise the tolerance and processed surface to satisfy the requirements. (Mould Steel Hardness Inspection, Mould Electrodes Inspection, Mould Core and Cavity Steel Dimension Inspection , Mould Pre-Assembly Inspection)

Final quality control: within 3 days the completion of the plastic mold, we will have a thorough check for the main size of the molded plastic sample and mold to ensure that the critical or full dimension (if required) are within tolerance.

Mould Pre-shipment Final Inspection : Free-fumigation three-plywood case packing; make sure the mold is conformity to the approved mold drawing. The spare components and easily broken components and the electrode (if required) are packaged, as well as the mold drawing and some certificated.

Plastic Molding QC main steps

Vernier caliper measurement is performed by our trained operators when the first product comes out of our machine, we check the contour dimensions and assembly status (if exist) to identify if any rejects.

The molded parts are then inspected again by our experienced QA department for the full dimensions especially the critical dimensions set by customer, and quality result was recorded at the same time. The Result will be to our QC Supervisor directly to see if the unqualified dimensions (if exist) are caused by the uncontrolled factors or our mistakes and we will take the related actions to improve it.

We will trustily report the T1 result to customers, and send T1 samples to customers for checking . sometimes T1 samples need improvements, If good samples are required by customer at first, we will take actions to improve the mold to make sure the samples have 0 defects. No shrinkage, warpage, flash, material streak, air bubble, step line, ejector mark, and dimension within tolerance.

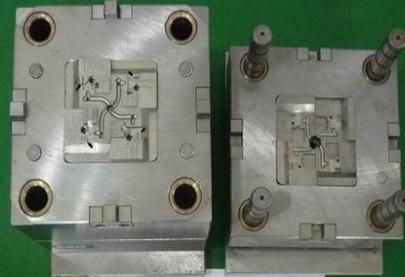
Package inspection: make sure QTY/color (if required) and weight are correct.



Small Precision Plastic Mold



PRODUCT NAME: EL2011-001, FACE UP PART: 102222
MFG MOLD NO.: 10200001
N.W: 168 KG
G.W: 183 KG
MADE IN ABIS MOLD, CHINA



PART NO: Light Pipe
SIZE: 360*360*400
N. W: 80KG
G. W: 90KG
MADE OF ABISMOLD, CHINA



PART NAME: C0186_101_C4_CABLE TIDY
SIZE: 530*380*460MM
N.W: 210 KG
G.W: 222 KG
MADE IN ABIS MOLD, CHINA



PRODUCT NAME: M3-ZEINACOVER, FACE UP PART: 102222
MFG MOLD NO.: 10200001
N.W: 168 KG
G.W: 183 KG
MADE IN ABIS MOLD, CHINA



PARTNO.:M3-ZEINACOVER
SIZE: 490*520*720 MM
N.W: 435 KG
G.W: 450 KG
MADE IN ABISMOLD,CHINA





PART NO: Handle
SIZE: 650X950X630
N. W: 1200Kg
G. W: 1235Kg
MADE OF ABISMOLD, CHINA

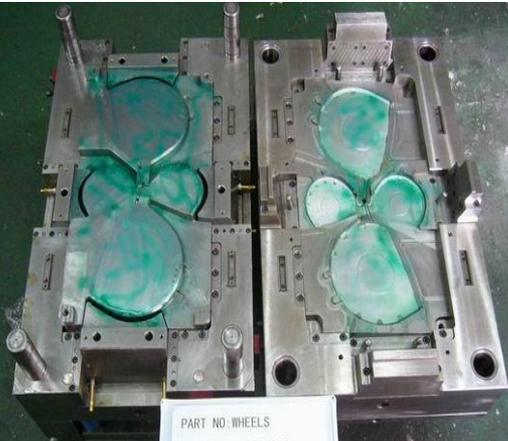
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PART NO: big cover
SIZE: 900X650X715
N. W: 1415Kg
G. W: 1455Kg
MADE OF ABISMOLD, CHINA



PART NO: 150114-011
SIZE: 900X650X715MM
G. W: 1455 Kg
MADE IN ABIS MOLD



PART NO: WHEELS
SIZE: 1250X850X830
N. W: 3230Kg
G. W: 3250Kg
MADE OF ABISMOLD, CHINA



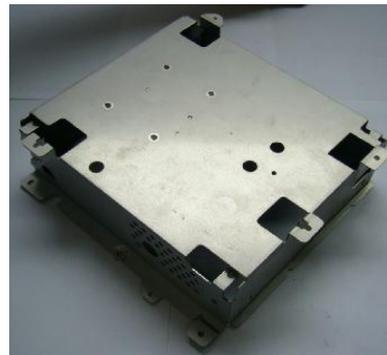
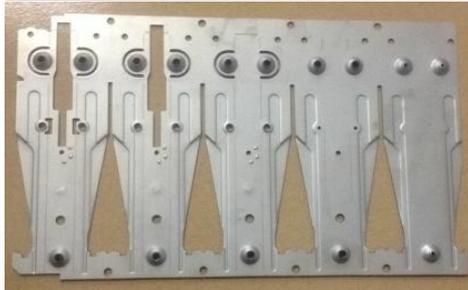
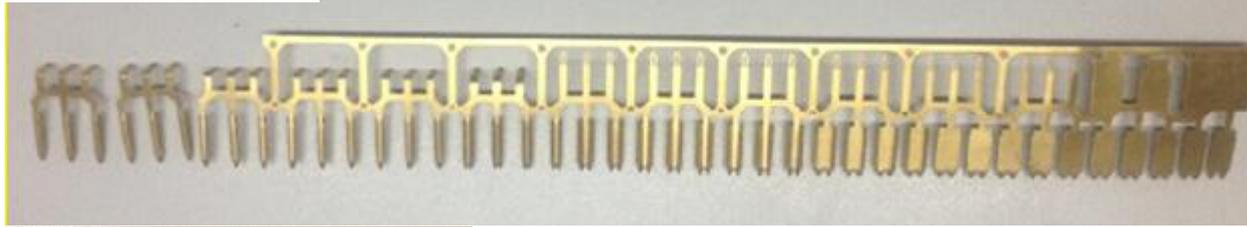
PART NO: BODY
SIZE: 1510X900X1050
N. W: 4160Kg
G. W: 4200Kg
MADE OF ABISMOLD, CHINA



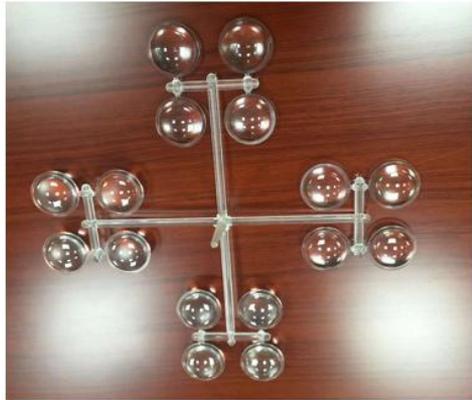
PART NO: TWITOPLAST 50621006
SIZE: 1530X830X970mm
N.W: 4830KG
G.W: 4931KG
MADE IN ABISMOLD, CHINA



Metal Stamping



Medical Mold Parts



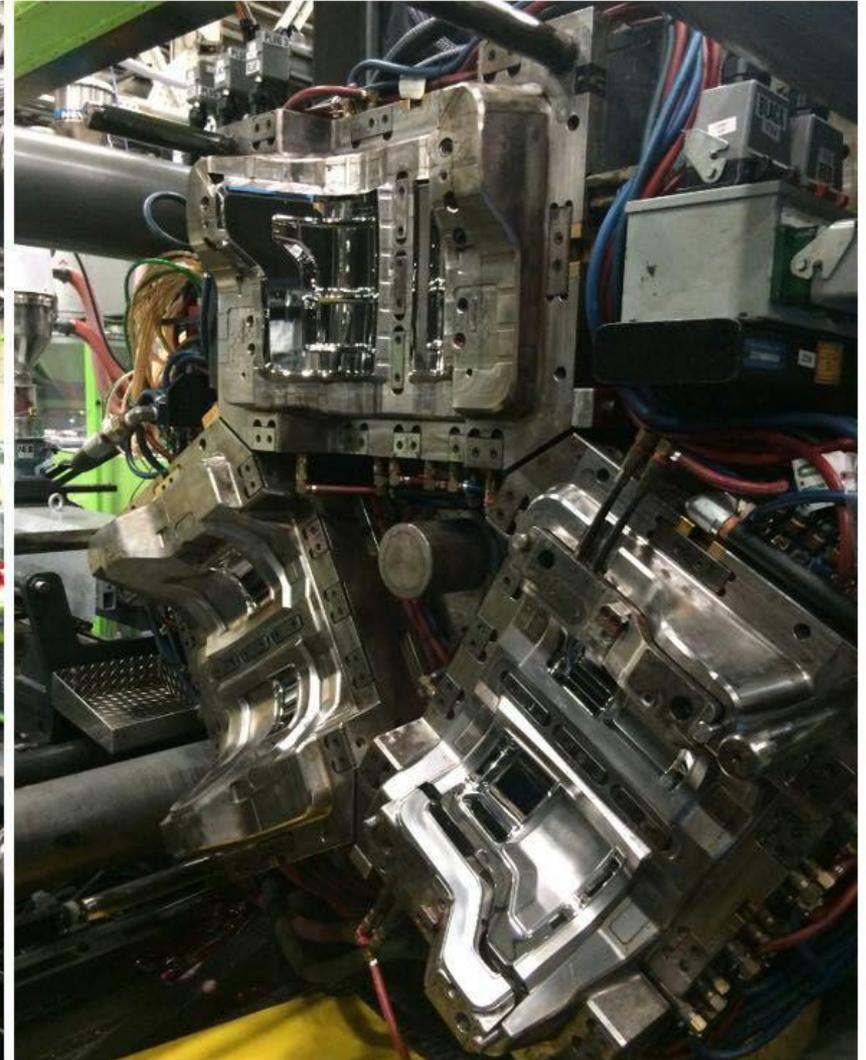




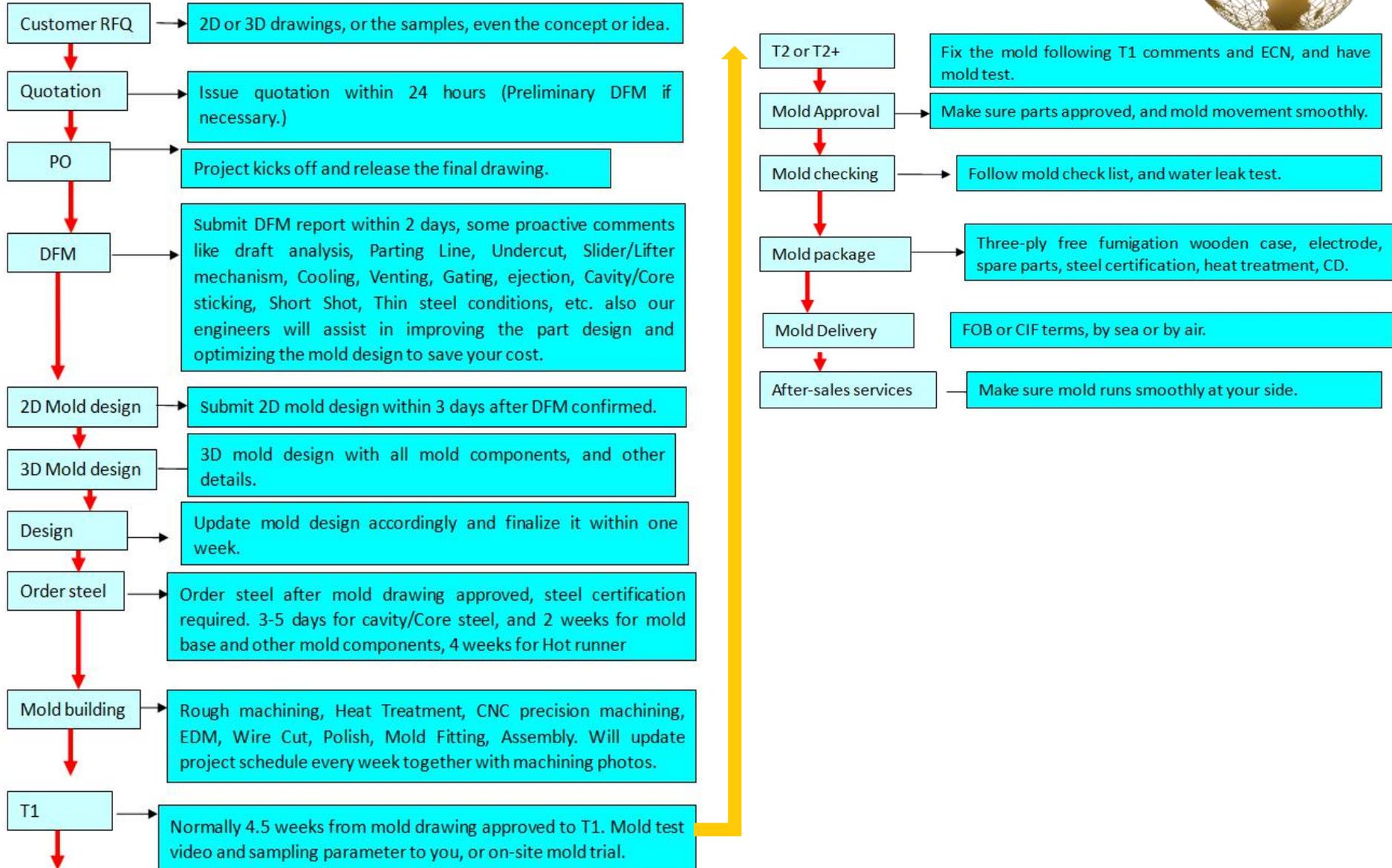


Inserting molding parts











Dimension Inspection Report

Customer	SMR	Mold Trial#	T1	Unit	Metric	Picture 
Project #	Phase 2	Trial date	2014.12.29	Inspection date	2015.01.08	
Part Name	BB76_SCALP without TS_RH	Mold number	ABIS2014128	Inspector	Mr. Li	
Part / Draw #	60063006D #2	Material	ABS MP 0160R	Manager	/	

Inspection Tools: Block gauge (BG), Caliper (CP), Coordinate Measuring Machine (CMM), Height gauge (HG), Micrometer (MM), Projector (PJ), Pin gauge (PG), Radius gauge (RG), Thickness gauge (TG)

Dimension spec				Shot 1		Shot 2		Shot 3		Shot 4		Judgment	
Dim #	Dimension	Tolerance	Inspection Tool	1	2	1	2	1	2	1	2	OK / NG	Remarks
1-1	1.20	+ 0.20 - 0.20	CP	1.19	1.23	1.22	1.24	1.22	1.23	1.20	1.21	OK	
1-2	1.20	+ 0.20 - 0.20	CP	1.21	1.22	1.20	1.20	1.21	1.23	1.22	1.20	OK	
2-7	1.50	+ 0.20 - 0.20	CP	1.51	1.52	1.52	1.53	1.51	1.50	1.49	1.52	OK	
2-8	1.50	+ 0.20 - 0.20	CP	1.52	1.52	1.52	1.52	1.51	1.53	1.49	1.51	OK	
2-9	1.50	+ 0.20 - 0.20	CP	1.51	1.52	1.52	1.52	1.51	1.50	1.49	1.50	OK	
3-1	1.70	+ 0.20 - 0.20	PJ	1.72	1.69	1.70	1.69	1.70	1.71	1.73	1.70	OK	
3-2	1.70	+ 0.20 - 0.20	PJ	1.71	1.72	1.69	1.70	1.71	1.72	1.71	1.72	OK	
3-3	1.70	+ 0.20 - 0.20	PJ	1.71	1.72	1.71	1.70	1.69	1.70	1.69	1.71	OK	
3-4	1.70	+ 0.20 - 0.20	PJ	1.69	1.70	1.70	1.71	1.72	1.71	1.73	1.71	OK	
3-5	1.70	+ 0.20 - 0.20	PJ	1.71	1.71	1.72	1.73	1.71	1.71	1.72	1.73	OK	
3-6	1.70	+ 0.20 - 0.20	PJ	1.71	1.72	1.73	1.71	1.72	1.71	1.71	1.72	#REF!	
Prepared	Mr. Lillian			Checked		Mr. Li		Approved		Mr. Zhang			
Date	2015.01.10			Date		2015.01.08		Date		2015.01.08			

To be completed by customer:

Signature: _____

Result:

Pass

Fail

Special Acceptance

Parameter Report



ABIS MOLD INJECTION PARAMETER REPORT

> 类型 Shot Type: 单色 One shot mold 双色第一次 1st shot of 2-shot 双色第二次 2nd shot of 2-shot

模具编号 Tool No.	产品名称 Part Name	模具规格(mm) Tool L*W*H	试模次数 Test times
模腔数量 N Cavity	塑胶原料 Raw Material	颜色 Color	项目负责人 Project Manager
产品总重量 Gross Wt(g)	机台型号 Press Type	试模数量(啤数) Shot Qty	设计工程师 Design Engineer
试模日期 Test Date	上机时间 Beginning Time	完成时间 Finish Time	审核 Reviewed / 日期 Date

*试模前的准备: 试模品、产品图纸、物检表、卡尺、模温计、油温机、通风机、通风机、电子天平、吸相机、打磨机(用于喷胶接口首保)等工具

备注 Comments:

> 成型参数表 Molding Parameter Sheet:

时间 Time(s)	周期时间 Cycle Time		温度设置 Temp(°C) Setup	射胶温度 Nozzle Temp °C	
	填充时间 Filling Time			一段温度 Zone 1 Temp °C	
	保压时间 Holding Time			二段温度 Zone 2 Temp °C	
	冷却时间 Cooling Time			三段温度 Zone 3 Temp °C	
压力 Pressure (1Mpa=10Bar=145Psi)	射胶压力 Injection Pressure	一段 1st Stage	速度或速率 Percent of Speed(mm/s) or Flow Rate(g/s)	四段温度 Zone 4 Temp °C	
		二段 2nd Stage		热流道温度 Hot Runner Temp °C	
		三段 3rd Stage		腔模设置温度 Cavity Temp. Setup	
		四段 4th Stage		芯模设置温度 Core Temp. Setup	
位置 Position(mm)	保压压力 Holding Pressure	一段 1st Stage	原料干燥 Raw Material	行位设置温度 Slide Temp. Setup	
		二段 2nd Stage		射胶速率一段 Injection Speed 1	
		三段 3rd Stage		射胶速率二段 Injection Speed 2	
		背压 Back Pressure		射胶速率三段 Injection Speed 3	
模具 Tool	射胶位置 1st Inj. End Position	二段 2nd Stage	实际模温 Actual Temperature (°C)	射胶速率四段 Injection Speed 4	
		射胶位置 2nd Inj. End Position		保压速率 1st Holding Speed	
		射胶位置 3rd Inj. End Position		保压速率 2nd Holding Speed	
		射胶终止位置 Inj. End Position		保压转换 Turn Hold(time/pos.)	
顶出 Ejection (%)	熔胶终止位置 Melt End Position	射胶位置 Suck Back End Position	顶出行程 Ejection Stroke	熔胶速率 Charge Speed	
	顶出行程 Ejection Stroke	顶出次数 Count of Ejection		干燥温度 Drying Temp(°C)	
	顶出次数 Count of Ejection	侧模压力 Clamp Pressure		干燥时间 Drying Time(H)	
	侧模压力 Clamp Pressure	开模压力 Opening Pressure		前模表面 Cavity Surface	机水 Normal Water
顶出行程 Ejection Stroke	开模压力 Opening Pressure	顶出行程 Ejection Stroke	后模表面 Core Surface	热油 Hot Oil	
	顶出行程 Ejection Stroke	顶出次数 Count of Ejection		机水 Normal Water	
	顶出次数 Count of Ejection	侧模压力 Clamp Pressure		热油 Hot Oil	
	侧模压力 Clamp Pressure	开模压力 Opening Pressure		机水 Normal Water	
顶出行程 Ejection Stroke	开模压力 Opening Pressure	顶出行程 Ejection Stroke	行位表面 Slide Surface	热油 Hot Oil	
	顶出行程 Ejection Stroke	顶出次数 Count of Ejection		机水 Normal Water	
	顶出次数 Count of Ejection	侧模压力 Clamp Pressure		热油 Hot Oil	
	侧模压力 Clamp Pressure	开模压力 Opening Pressure		机水 Normal Water	

> 产品外观问题/Product Appearance Faults:

<input type="checkbox"/> 粘前模 Sticking in Cav	<input type="checkbox"/> 抛光不良 Poor Polishing	<input type="checkbox"/> 披锋 Flash	<input type="checkbox"/> 裂纹 Stress Crack	<input type="checkbox"/> 缝合线 Weld Line
<input type="checkbox"/> 粘后模 Sticking in Core	<input type="checkbox"/> 顶出不匀 Uneven Eject.	<input type="checkbox"/> 顶台 Ejector Marks	<input type="checkbox"/> 缺射痕 Jetting	<input type="checkbox"/> 黑点 Dark Spots
<input type="checkbox"/> 水纹 Water Wave Marks	<input type="checkbox"/> 拖花 Scratch Marks	<input type="checkbox"/> 变形 Deformation	<input type="checkbox"/> 缺胶 Short Filling	<input type="checkbox"/> 烧焦 Burn Marks
<input type="checkbox"/> 冷料流痕 Cold Slug Marks	<input type="checkbox"/> 困气 Gas Trap Effect	<input type="checkbox"/> 缩水 Sink Marks	<input type="checkbox"/> 缺胶 Gap	<input type="checkbox"/> 气泡 Air Bubble

> 试模过程检查/Tryout Process Check:

开合模动作检查	模具漏水检查	流动平衡检查, 填充 30%、60%、90%
模具顶出动作检查	顶出填充检查 模具排气	填充 99% 检查毛边、缩水与变形

> 试模问题点描述及建议/Comments:

问题: 产品毛边/缺料

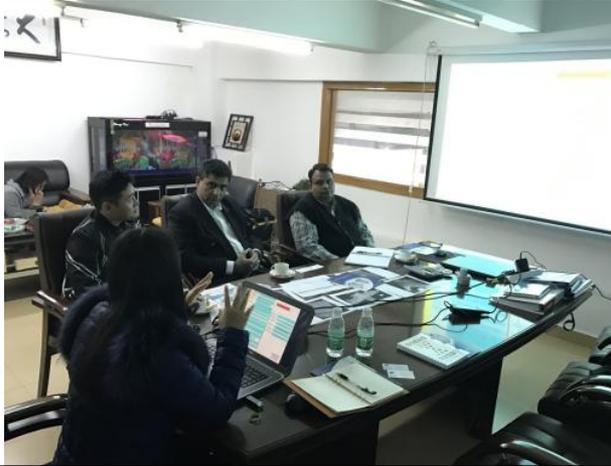
对策: 飞模/流速加大/进胶口加大/冷却井加大

记录 Record	日期 Date	审核 Review ed	日期 Date
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Client on the first, quality on the top.

Project Discussion









Our final aim: ABIS Building!



THANKS!

