

專業
主題

Camera System development and related improvement

內容
摘要



Co-Extrusion



Material amount report



Annual Conference
With Dr. Young



Mini Extruder

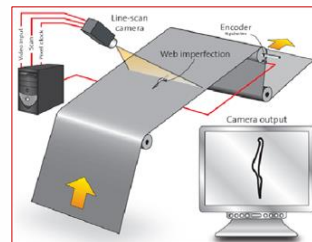
Inteplast Group is a plastic manufacturer. Quality is our priority so I help XF plant to develop a camera system. Besides, we have to purchase right amount of resins, I design a tool to calculate easier. Furthermore, we have to lower the material cost, so I help my colleague to do the trial run at mini extruder.



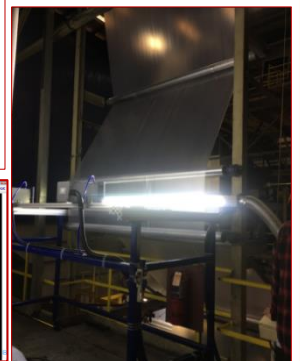
Main project during the internship in Inteplast Group

Quality Monitor Camera System development

In order to inspect the film quality at our Co-Extrusion line, we installed the camera system. Due to the film is running so fast, it's difficult for human eyes to catch all the defects and not practical to ask operators to check the quality in front of the roll 24/7. Since this is the first process of our production flow, we need to catch all the defects before it goes to next process to prevent the unnecessary scrap occurred and better efficiency.



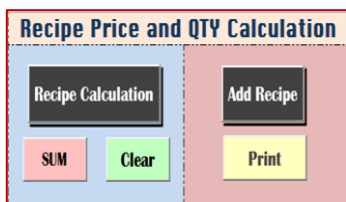
← Illustration
Real World ↓



Real Time Report

Recipe Price and QTY Calculation Tool

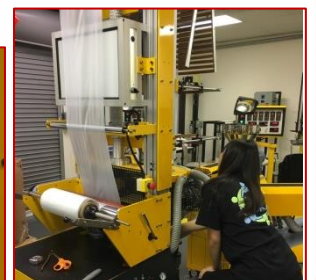
We have to calculate the material usage for next month based on MKT forecast, in order to purchase right amount of material. We used to calculate manually, but it's too complicated to open all the recipe files to capture the data. This tool is using excel to let it be a database to contain all the recipes and the latest material cost in the same file.



Recipe	Material Code	Qty	Unit Price	Total	QTY	Unit Price	Total Price	
#1	FCB000	1.25	136.25	170.31	100	300	30000	
#2	FCB000	1.25	136.25	170.31	100	300	30000	
#3								
#4								
#5	H3128	12.2	54.82	668.80	1,250	1,375	1,718.75	
#6	EX1028	47	66.4	3,122.80	4,700	5,170	24,301.00	
#7	HD001	21	54.11	1,136.31	3,900	4,200	17,580.00	
#8								
#9								
							Total Price	61,111.00

Trial Run at Mini Extruder

To lower the recipe cost, we need to increase the percentage of reclaim for our film, but we don't have enough XF reclaim, so we plan to purchase the reclaim from outside source. We have to test the properties to see if it meets our internal specs or even better.



電子
工程

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實習單位：World-Pak XF
實習廠區：Inteplast Group

實習期間：9/18/17~9/11/18
指導主管：Wen-Bin Lee