# Proposal for Ecofriendly Super High Speed Printing Machine & Universal Inks Project



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# 1. Introduction of the Project

#### 1-1 Business Direction

- We focus on the Digital Textile Dyeing Business as our Business Direction which is a charged issue worldwide as Eco-friendly business.
- We concentrate on production of the top quality raw materials of Textile Dyeing Products, which all the relevant Enterprises including Textile Dying Companies, Sewing Factories, Textile Design Companies can do maximize their profits.

#### 1-2 R&D Present Status

- Super high speed Natural Inks
- Ecofriendly Ceramic Inks
- Printing LED Inks
- Other Special Inks



# 1. Introduction of the Project

#### 1-3 Business Structure (Profit-making Structure)

- The super high speed inks is the After Market Business as a business structure for
  manufacturing the super high speed dyeing machine and super high speed inks.
   The After Market Business means the very necessary consumption market when the
  products are sold out. For an example, Auto Parts, Pure water Filter, Blades, Ball Point Pen
  and Sharp Pen are represented as the After Market products.
- When a super high speed printer is sold, it creates the profit even once, but the sales profits for the Nano Inks occurs every month continuously.



## 2-1 Super High Speed Printing Machine

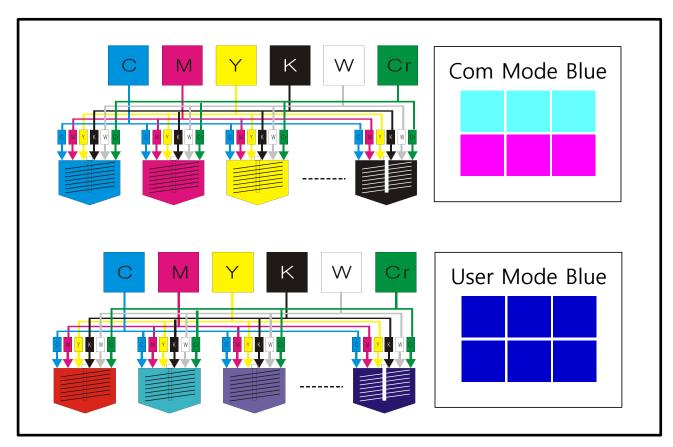
- Our Ecofriendly Super High Speed Printing Technology was applied the Screen Matrix Printing Technology which was developed in 2000 by our company.
- And, it is a Ecofriendly Innovative Technology which saves all the costs with average 8,000 yards' fast printing speed and low Dyeing Cost and ,additionally, which reduces the production procedures and whose economy is excellent and which does not occur any waste waters.





# 2-2 Super High Speed Printing Machine

• Can supply with color mixing technologies that the customers desire in addition to all the colors built in the computer.





# 2-3 Super High Speed Printing Machine

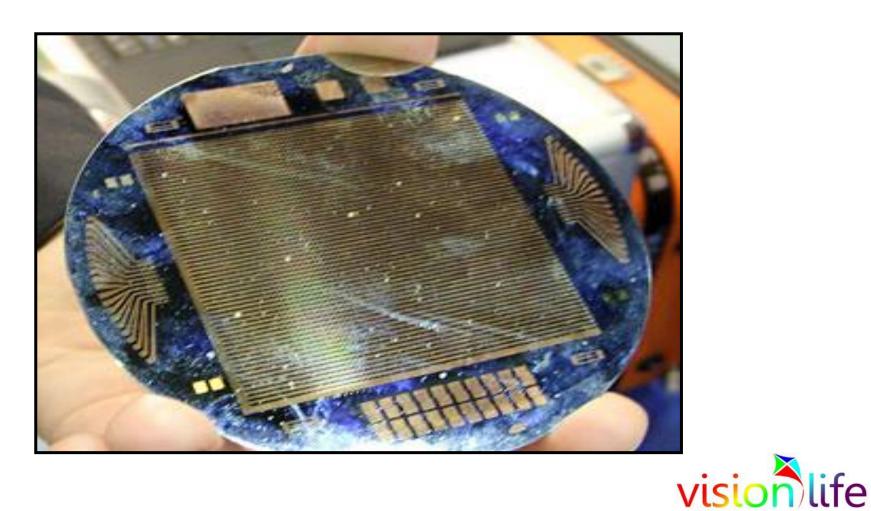
• Is the technology that can run multiple jetting 1 to 8 times per pixel. The more the jetting times are, the better the colors and printing quality gets.

	1	2	3	4	5	6	7	8	•••	960
1										
2						1				
3					2	8	2			
4				2	3	8	3	2		
5						8				
6						8				
7						8				
8						8				
•••						8				
960										



# 2-4 Super High Speed Printing Machine

• Is Super Precision Technology which can accumulates maximum 921,600 nozzles in 6cm x 6cm structure possibly.



#### 2-5 Super High Speed Inks

- Is the inks which can be printed with only one kind of Dye Ink on such various kinds of Textiles as chemical fibers, cottons, silks, wools, and linen fabrics.
- Is the inks which realize an excellent Fastness practically even if it is cleaned right after printing.
- The consumption of this Ecofriendly Nano Dye based Inks will be constantly occurred
  accordingly to sales of the Super High Speed Printing Machine, as the Ecofriendly Nano
  Dye Inks is the specially compounded dye ink which can be used only for our Ecofriendly
  Printing Machine.





#### 3-1 Market Environment

 The Ecological Issues are accelerated gradually worldwide, specially, China is now in very serious situation for contaminated dyeing waste water caused by the existing Textile Dyeing Process. Accordingly, the new Textile Dyeing Methods are very necessarily required, which might not produce any dyeing waste waters.







Figures which shows the contaminated streams by the contaminated dyeing waster waters caused by the existing Textile Dyeing Process(China)



#### 3-2 Market Environment

 Since Korea enhanced the regulation for the contaminated dyeing waste waters of the existing Textile Dyeing manufacturers, The new Ecofriendly Dyeing Method is very necessarily required.at this present time.





#### 3-3 Market Size

According to statistical data issued by Korea Institute of Industrial Technology (KITECH),
the volume of production of the Dyeing Textiles is about 400 million yards in Korea, 3
billion Yards worldwide. Calculating with quantities of the Dyeing machines which runs 1
million yards yearly basis, it is estimated the figures about 400 machines in Korea and
30,000 machines for worldwide.





# 3-4 Analysis of the Competitors

• Comparison for the Printing and Dyeing Technology

Description	Existing Textile Dye Industry	Ecofriendly Super High Speed Printing Technology
Production Speed	Available with large facilities and many labors	Impossible for comparison of 8,000 yards per hour.
Printing Quality	Effected by production Speed, machines, technical skill, degree of difficulty	Complete Colorful Precise Printing and Dyeing by super precise jetting and sensor
Fastness	Big difference depending upon Dye quality	Excellence for wash fastness and sunshine after printing
Occurrence of Contaminated Waster water	Gigantic Occurrence of Contaminated Dyeing waster water	No occurrence of any contaminated waste water



# 3-5 Analysis of the Competitors

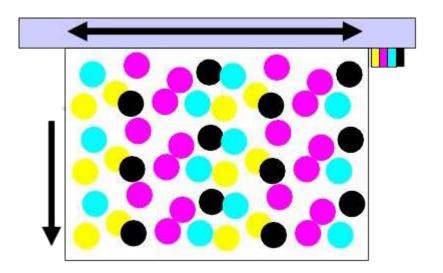
• Comparison for Process

	Digital Wide Format Printer	Super High Speed Printer
Pretreatment	Emission of Pre-coating Chemical Contamination of Textiles	Nil
Output Process	Print Speed 10~20yd/h Printing on the Textiles, no economical	Print Speed 8,000yd/h Direct printing on the Textiles
Post Treatment	Heated steam process, Water Cleaning Process, Emission of the contaminated dyeing waste water	Nil



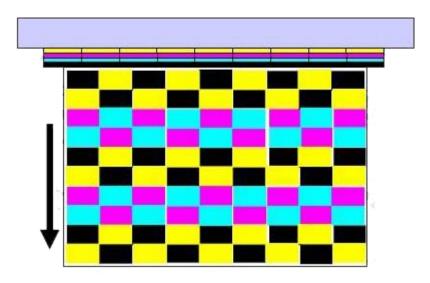
## 3-6 Competitiveness for the printing quality

**Digital Textile Printing Machine** 



Since there are spaces between each drop s, it is hard to maintain the color quality c onstantly even if the same solution Dyes a re used.

# **Super High Speed Printer**



It is possible to have high speed printouts because we use the Color Algorithm we d eveloped and we can do make an excelle nt and a good quality dye products



#### **3-7 Price Competitiveness**

Super High Speed Printing Technology may look very similar to the existing Digital Textile
Printer which use the same Inkjet Method. But, since we take complete different Printout
mechanism, our Super High Speed Printing Technology can do replace the disadvantages
of the technologies which DTP has for Print Speed, Printing Costs, Printing Quality and etc,
and, additionally, it is a new innovative technology which is most competitive against the
existing Dip Dyeing Method.

# 3-8 Comparison Sheets for installation of the existing printers based on Print Speed, 8000 yards

Existing Dyeing Method	Digital Textile Printing Method	Super High Speed Dyeing Method		
\$10,000,000	\$10,000,000	\$3,500,000		



#### 3-9 The evidence for our Sales Plans

- According to the Chinese Knowledge's Center's data, the production volumes of textiles targeted reduction of the contaminated dyeing waste water from the Dyeing Manufacturers more than 201 companies has become about 380 million Yards (230 million yards for 60% for Chemical component Textiles)
- 230 million yd/1,000 million yd The market size is 2,300 printers

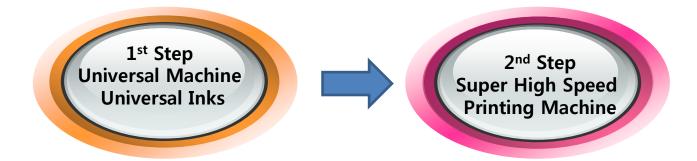
序号	省(区)	企业名称	产能(万米)
1	天津	天津市宁河县染整厂	2500
		:	
84	浙江	杭州萧山闻堰漂染有限公司	17000
		:	
173	河南	河南省唐河县丰源纺织印染(集团)有限公司	20000
		:	
201	陕西	咸阳昌龙纺织有限公司	550



# 4. Marketing Strategy

#### 4-1 Basic Strategy

- We can preoccupy the market and lead the market by completion of development of the technology that can meet the reality of the existing Dyeing Industries. We will maximize its value added by Dyeing Process QSS System for Industrial use and Personal use.
- First Step to pursue stabilization of the business Second Step: to take the necessary steps to process the Super High Speed Dyeing Project step by step.



#### 4-2 Advantage of the Strategy

• It is not to adventure the new market, but to replace the existing market into the advanced new technology. Therefore, it effects saving the marketing cost so much.

