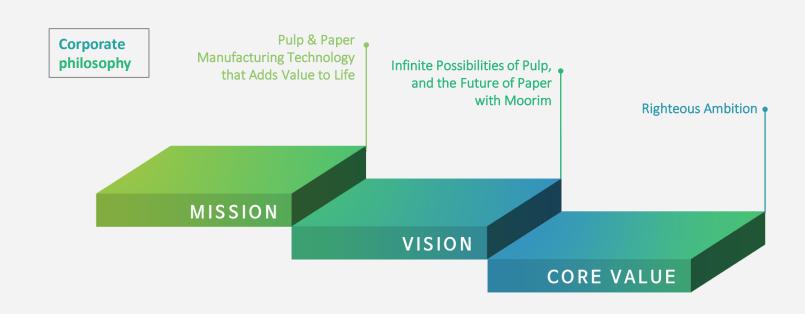




Moorim adds value to our everyday life by constantly developing eco-friendly products with the finest technology in pulp and paper manufacturing





Moorim is taking a great step forward as a Global Pulp & Paper Company

Moorim Headquarters in Seoul



Moorim Paper Jinju mill

The leading paper company for industrial use



Main Products

Printing paper for industrial use, Board, Digital paper

Moorim SP Daegu mill

High value-added specialty paper company



Main Products

Various type of specialty paper (Industry / Fancy / Information / Commodity)

Moorim P&P Ulsan mill

The one and only integrated pulp & paper mill in Korea



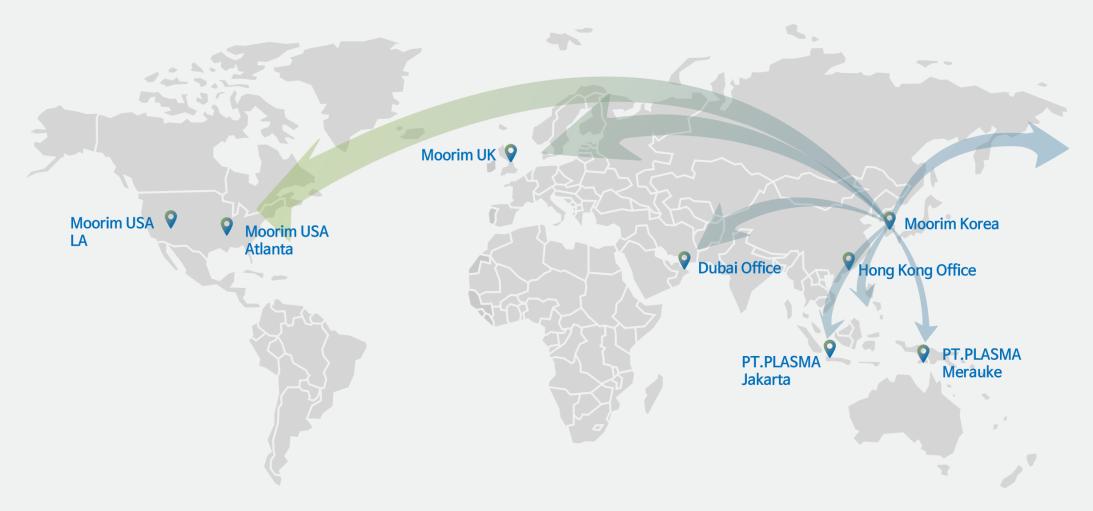
Main Products

Bleached Kraft Pulp, Printing paper



As the center of the Korean paper industry and the paper-driven Korean wave,

Moorim sells to 105 countries in the world







Paper Sales

Moorim USA

• Atlanta 3700 Crestwood Pkwy, Suite 200, Duluth, GA 30096, USA

+1.770.680.5190

• LA 17890 Castleton St. Suite 302, City of Industry, CA 91748, USA

+1.626.363.4698

Moorim UK

98 Maybury Road, Woking, Surrey, GU21 5HX, UK +44.(0) 1483.215160

Hong Kong Office

11F, Unit D, Guangdong Tours Centre, 18 Pennington Street, Causeway Bay, Hong Kong +852.2121.0071/2

Dubai Office

West Wing 6A-114, Dubai Airport Freezone, Dubai, UAE +971.(0)4.214.6175



PT.PLASMA

• Surabaya Spazio Condominium Office Lt.3 unit.326 Jl.Mayjen Yono Suwoyo Kav.3,

Surabaya Jawa Timur 60226, Indonesia

+62.21.720.7506

• Merauke Jl.Raya Mandala No. 195 Merauke, Papua 99616, Indonesia

+62.971.324.355





Korea's only pulp & paper total company

Moorim P&P

Moorim P&P completed Korea's first integrated pulp and paper mill. With this, Moorim poised to emerge as a Global Pulp & Paper Company through quality and cost competitiveness, and our eco-friendly printing paper technology.

• Date of Establishment : January in 1974

• Location: 3-36 Ubonggil Onsan-eup, Ulju-gun, Ulsan

Area: 589,505 m²

• Capital: 155,900 million won

• Employees : Around 600

• Main Products: Bleached Kraft Pulp, Printing Paper

• Product Capacity : [paper] 520,000 MT

[pulp] 450,000 MT

• Sales Revenue: 605,700 million won (2017)











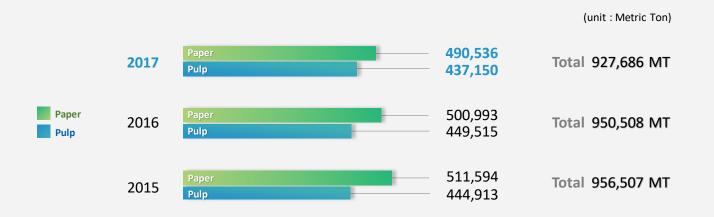






Production Volume

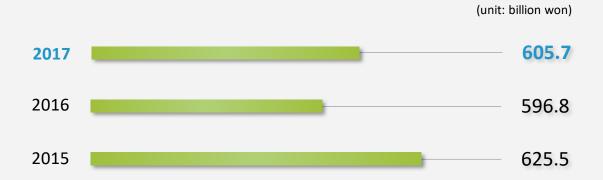
(2015 - 2017)







(2015 - 2017)





Product



Bleached Kraft Pulp

The only low-carbon bleached hardwood kraft pulp in Korea



Bale Weight(kg) 250

Bale Size(W×L×H, mm) 860×686×440

Dirt(mm²/m²) 2.0 Under Brightness(%) 89.0 Over

Capacity 450,000 MT









Moorim's Printing & Writing Paper brand, Neo Star

- Excellent printing job with superb runnability
- Eco-friendly paper with low carbon emission
- FSC-CoC certified



Coated(2 side) MFC

Gloss Pop Plus

Matt S Plus

Leaflet

Coat Uncoated

Uncoated Paper

Coated(1 side)

Uncoated SB

Label

Uncoated Ivory





Main Product

C2S

NEO STAR GLOSS

Usage Luxury Printing, Brochure, Catalog, Leaflet

Basis weight 80 ~ 200 gsm

Features Excellent printing job with superb runnability, High gloss

Certificate FSC, Carbon Footprint of Products

C2S

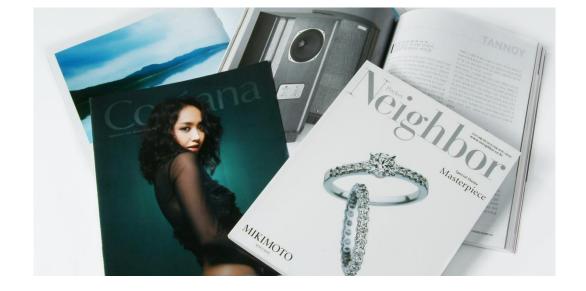
NEO STAR MATT

Usage Luxury Printing, Brochure, Catalog, Leaflet

Basis weight 80 ~ 180 gsm

Features Excellent printing job with superb runnability, Non-glossy paper

Certificate FSC, Carbon Footprint of Products





C2S

NEO STAR LEAFLET

Usage Flyers for advertising, Leaflet

Basis weight 90, 95 gsm

Features Excellent printing job with superb runnability,

Fast drying on all printing jobs

Certificate FSC

C2S

NEO STAR COAT

Usage High value flyers for advertising, Luxury leaflet

Basis weight 70, 75, 80 gsm

Features Excellent printing job with superb runnability,

Fast drying on all printing jobs

Certificate FSC





Main Product

C1S

NEO STAR LABEL

Usage Self-adhesive label face stock, Can and wine label, Sticker, Wrapper

Basis weight 80~120 gsm

Features High gloss surface, No two-sideness defect(Curling, Humidity problem)

All types of sheets and rolls are available upon request

Certificate FSC

MFC

NEO STAR POP PLUS

Usage Book publication. Premium magazine, Textbook, Study book, Writing paper

Basis weight 90~120 gsm

Features High bulky and comfortable color for reading,

Excellent printability and Smoothness

Certificate FSC





Main Product

UNCOATED

NEO STAR UNCOATED PAPER

Usage Printing and Writing paper

Basis weight 70~120 gsm

Features Suitable for book printing with outstanding smoothness

Certificate FSC, Carbon Footprint of Products, Korea Eco-label

UNCOATED

NEO STAR UNCOATED IVORY

Usage Book publication. Diary, Notebook, Writing paper

Basis weight 70~120 gsm

Features High opacity and comfortable color for reading,

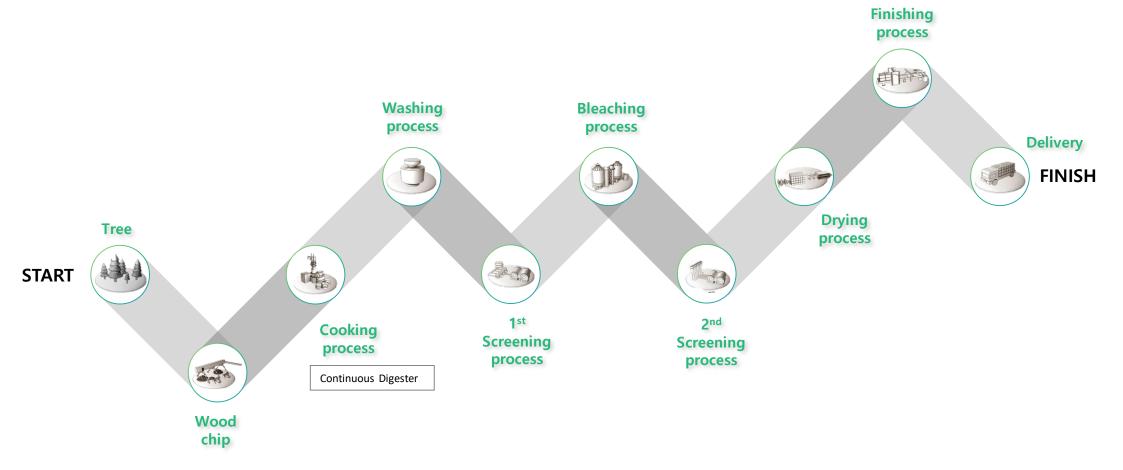
High quality book publication text paper

Certificate FSC









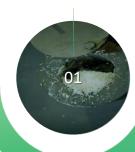


Mix water with pulp until adequate state and mix various chemicals at a certain ratio

Coat base paper, covering coating pigment by coater and improve gloss and smoothness of coated paper by supercalendar

Store finished products, set up optimal logistics system for punctual delivery

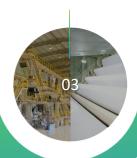
Stock Preparation







Coating





Finishing

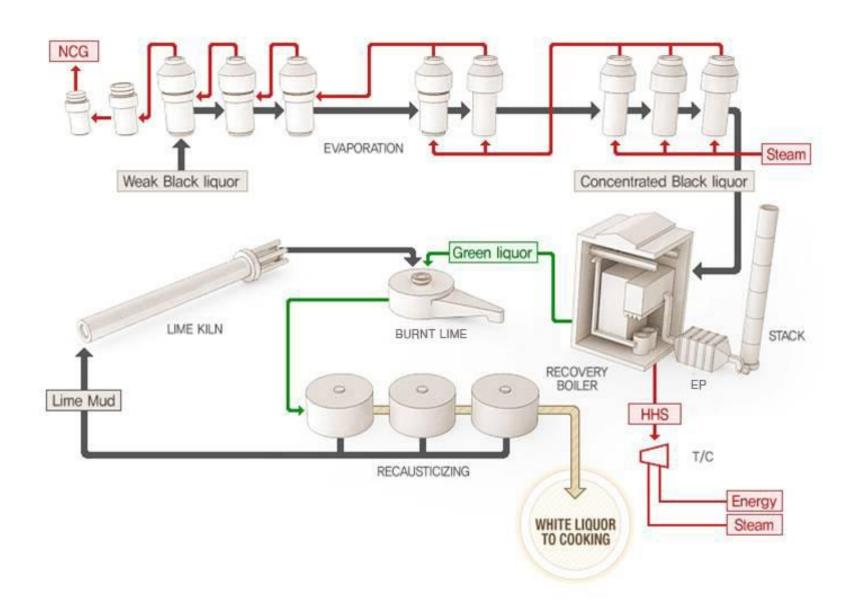
Logistics



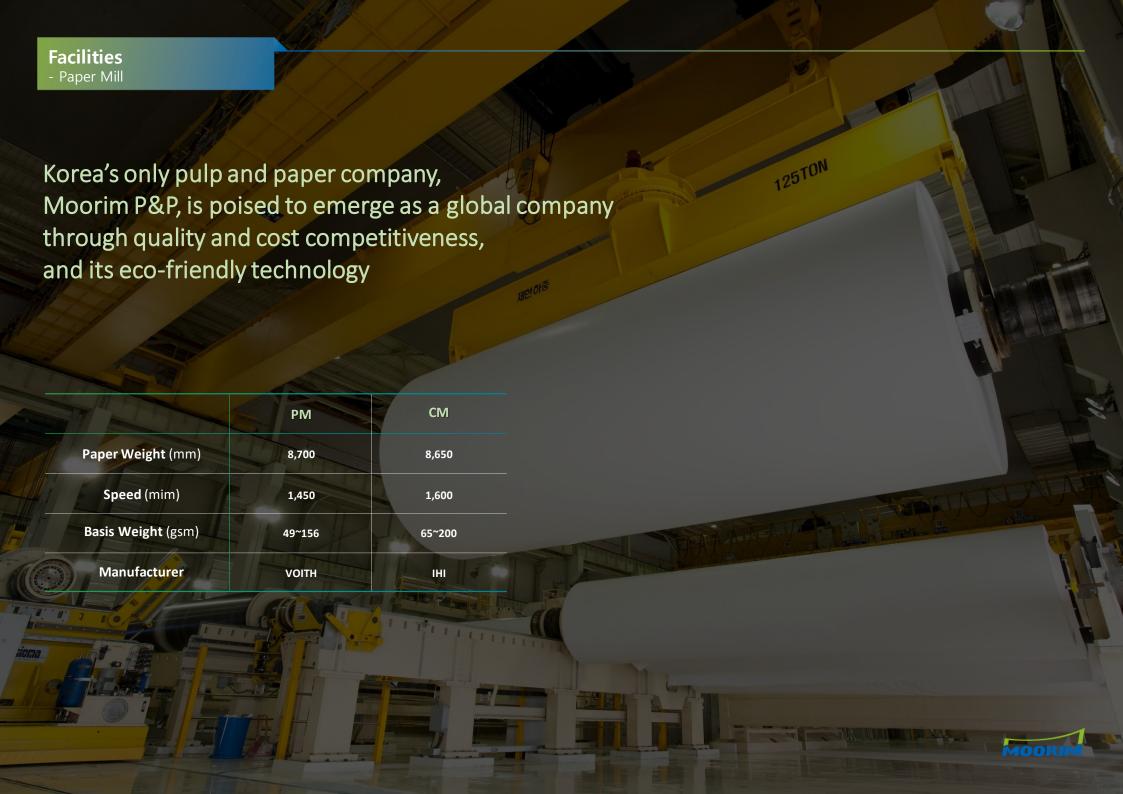
Cut paper with suitable size and package paper

Make vase paper or uncoated paper by paper machine









The production of the best quality bleached kraft pulp, The supply of Elemental Chlorine Free (ECF) pulp

	#1 Mill	#2 Mill			
Wood handling	ling Dual Circular Pile + Single Longitudinal Pile				
Cooking	Compact cooking G2 (ImpBin)				
Washing	Pressure Washer	Diffuser Washer			
1st Screening	Slot Type	Slot Type			
Bleaching	Dual O2 - D1 - EOP - D2	02 - D* – P/O – D			
2nd Screening	LC Centricleaner (Cyclotech)	LC Centricleaner (Albia)	URIM		
Pulp Machine	Fourdrinier Wire	Double Wire Press			
Drying	Cylinder 80EA (5Group)	Flakt Dryer (Air - Float Dryer)	Also D		
Width	3.6m (5Bales)	4.8m (7Bales)			

Facilities

- Power Equipment

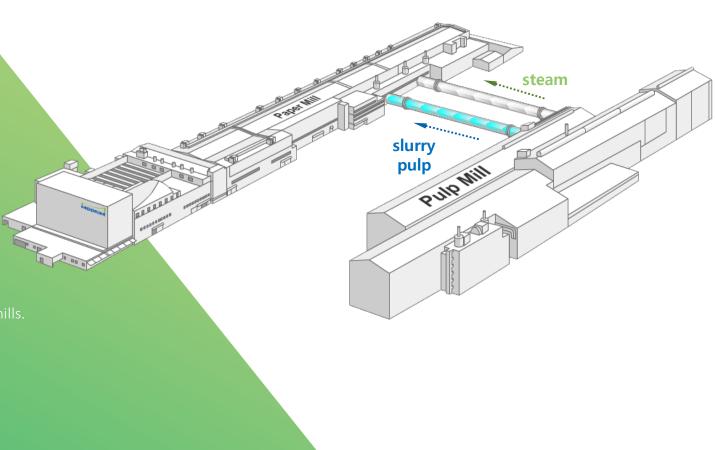
Two recovery boilers and turbines supply 100% of the required power and steam. And the recovered chemicals are recycled to the cooking process.

	#1 Mill	AMERICA	#2 Mill	
Evaporation	187 Ton/hr	BORIM	271 Ton/hr	
Causticization	1,750 m²/D	H	2,750 m²/D	
Lime reburning	170 T CaO/D		270 T CaO/D	
Recovery boiler	135 Ton/hr		180 Ton/hr	
Turbine	14.4 MW	R	22.7 MW	
		- 1	H CONTRACTOR	
		The plan		
				MOORIM
and the least many				



Brimming with potential thanks to fresh pulp content

Integrated paper retains pulp strength
without dry and dissociation process
due to the direct supply of slurry pulp from pulp mills.
It has excellent quality and solid texture
since its cellulose fibers are alive.





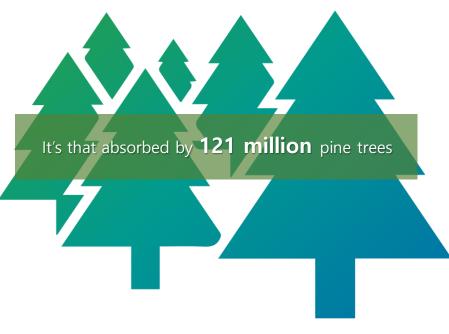
02

Energy efficient thanks to Oil-Free production

During the cooking stage of pulping,
a massive quantity of steam is generated from
the burning of black liquor produced in lignin condensation,
which is then re-used in the drying stage making for
an eco-friendly process requiring no additional fossil-fuel consumption.

The amount of greenhouse gases saved through Moorim's integrated mill is

800,000 ton



And it also has cost savings around \$153,000,000 per year



03

Low carbon generating through clean fuel use in production

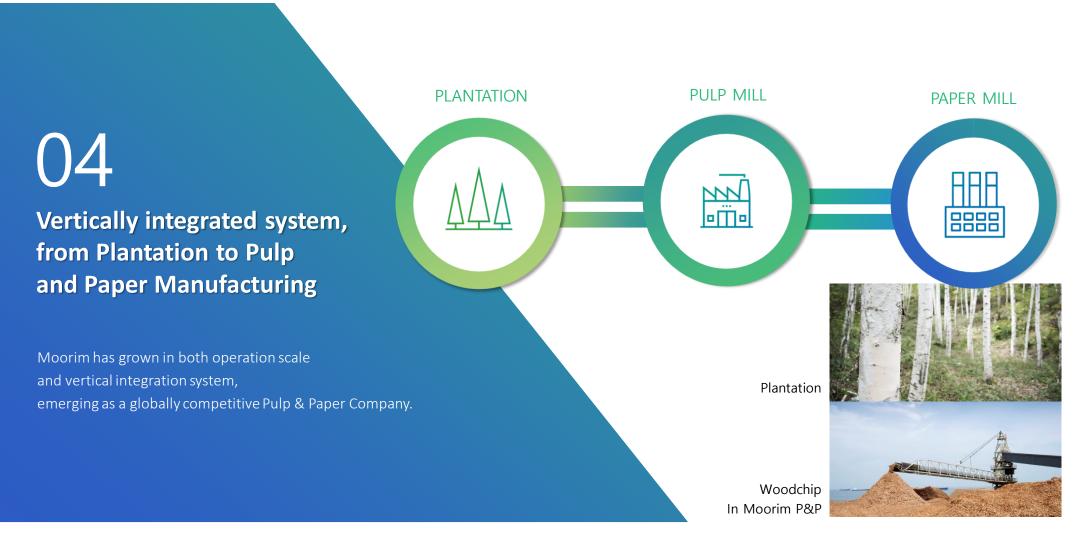
Moorim acquired many green certificates such as FSC certification and Low-Carbon Product certification for the first time in Korea.

Moorim's corporate name means a 'thick, dense forest,' as it prioritizes sustainable growth while producing quality paper.



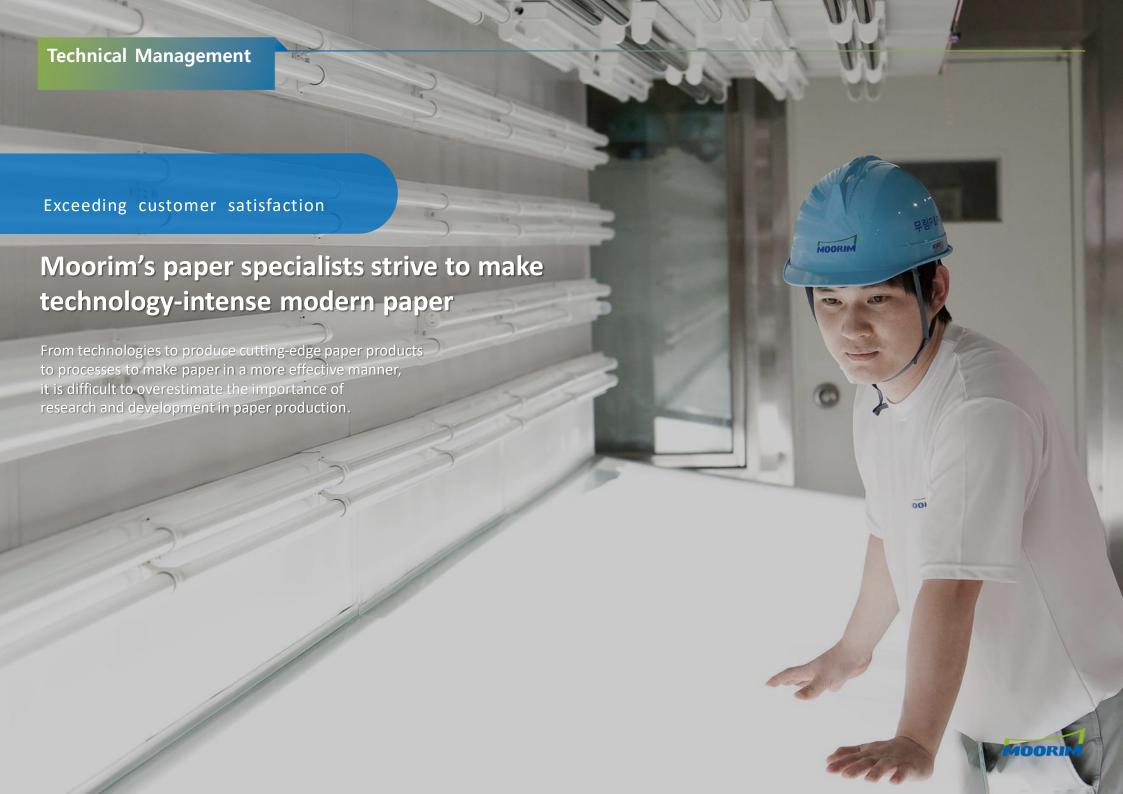


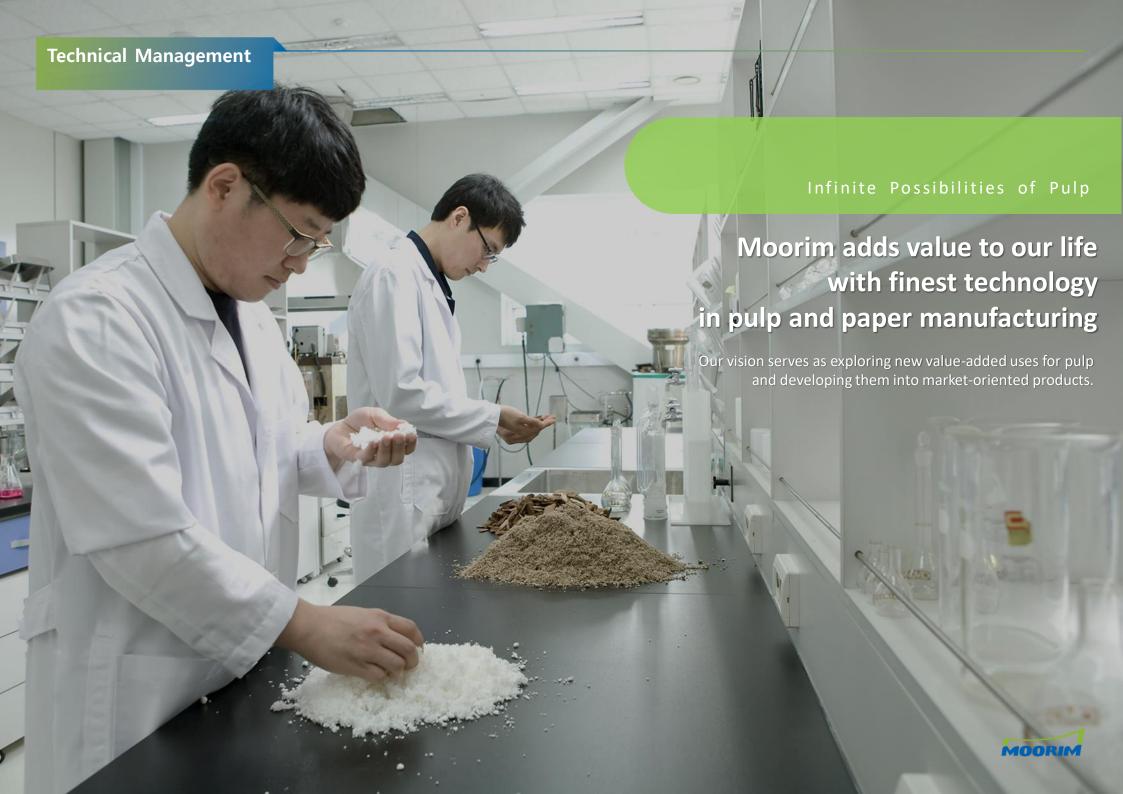












Technical Management

Driven by keen enthusiasm for paper

The largest Pulp and Paper R&D center in Korea

Holding myriad patents for security paper, ballot paper, and more, with specialists working to revolutionize modern living, Moorim's R&D Center is dedicated to developing cutting-edge technology for the paper industry.

Date of Establishment
Field of Study

Institute

December 1986

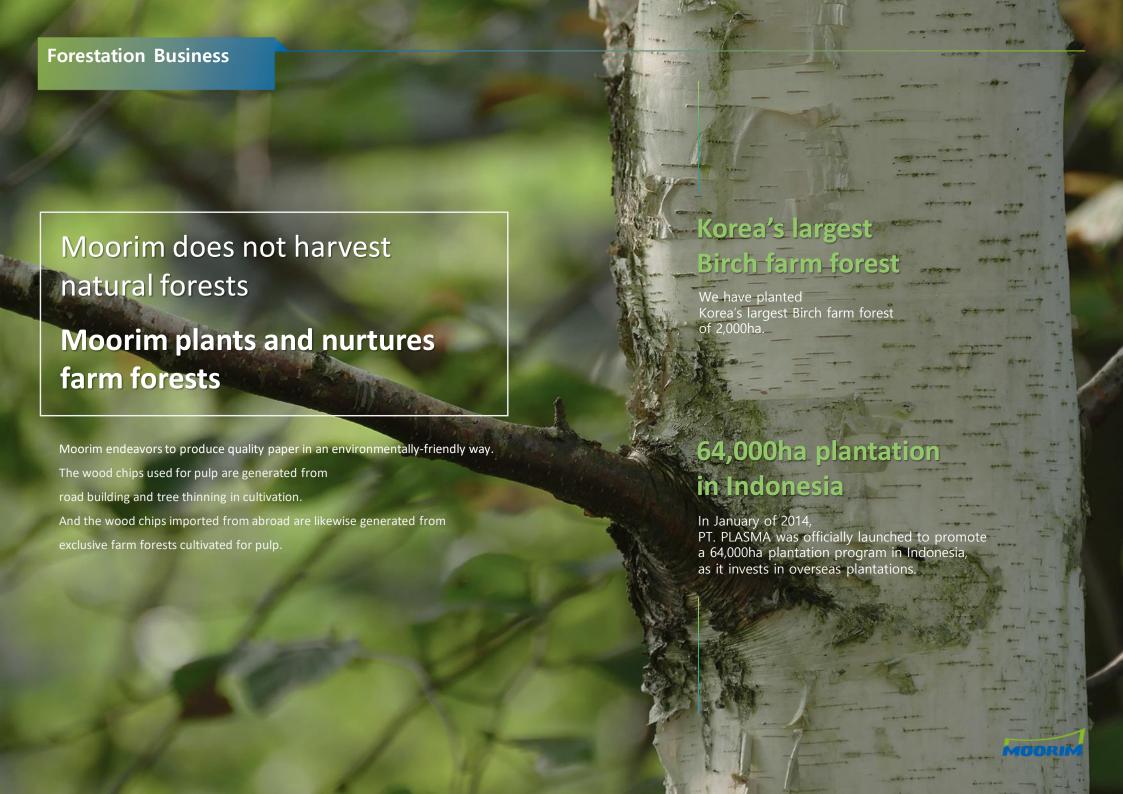
Product development, Process improvement,
Research in union with scholarship project,
Infinite Possibilities of Pulp, etc

- Paper Research Center in Jinju Mill
- Pulp & New Material Research Center in Ulsan Mill









Moorim strives for Everyone's happiness

Moorim's social contribution follows a resolute principle

: that actions should not be one time only, but serve instead as opportunities to provide extended assistance.



The story of good paper
: Big Issue Korea

Moorim supports better living through paper. We support financial independence for homeless to live better life.



Helping hands for the needy 'Moorim Volunteers'

'Moorim Volunteers' have visited local welfare facilities monthly and provide community services for those in need.



Paper-plane Festival

We encourage children to develop their creativity and imagination through paper, giving families a great day out and a chance to have quality time



For cultural and art development 'Moorim Mecenat'

We support cultural and arts groups in pursuit of real partnership, rather than simple sponsorship.