



<http://ilsungcomposites.com>

ILSUNG COMPOSITES

Composites material & Manufacturing machine

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ABOUT ILSUNG COMPOSITES

- 1962 Establishment of Ilsung Machinery Factory (Daegu)
- 2001 Developed battery film coating machine for Samsung SDI
- 2016 Developed CF SMC machine (Performance by the national task)
- 2018 Commercialization of CF SMC machine
- 2020 "CF SMC Production system" Exhibition to "JEC Korea 2020" and Received innovation award in domestic equipment
- 2021 Deliver Styrene-free type CF-SMC to HYUNDAI Motor (Genesis G90 Interior Trim)
Received the Minister of Trade, Industry and Energy Award for "Contribution to the local development"
- 2022 Developed Spread Tow Weaving machine
- 2024 ILSUNG Composites established and construction of the factory
- 2025 "Induction Heating based rCF Reclaiming" 2025 JEC Innovation Award Winner in "Circularity and Recycling"

Application of Product



HYUNDAI Genesis G90 Interior Trim



HYUNDAI & KIA EV Lower Protection Cover

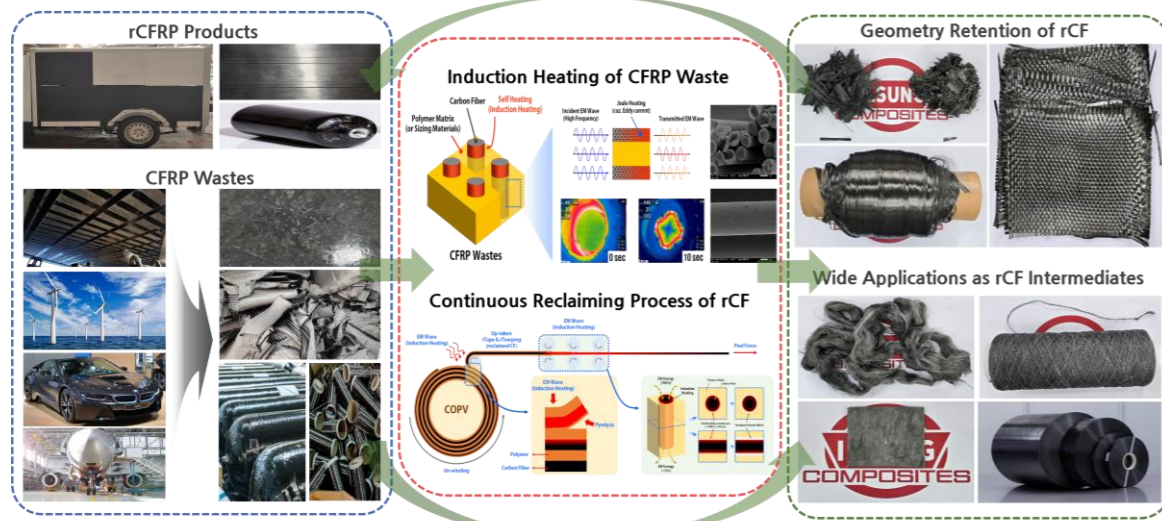
Induction Heating based Recycle Carbon Machine & Recycle Carbon



2025 JEC WORLD INNOVATION AWARDS WINNER

- No process of crushing or cutting waste
- Short process time
- No separate flow medium is required
- No fiber shape/length limit

Closed-loop Technologies in Carbon Fiber Industries



ILSUNG SMC Machine & Composites

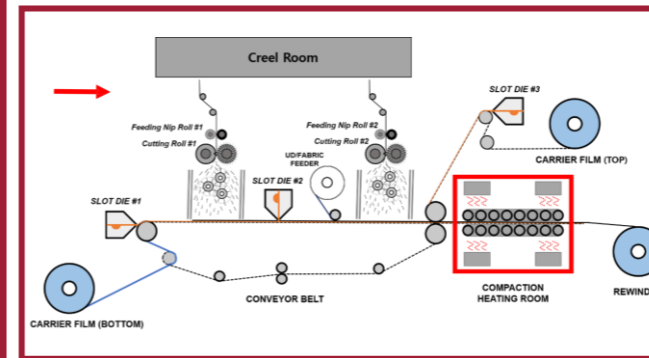
ILSUNG SMC is Korea's No.1 SMC that manufactures using automated equipment. We accept SMC Consignment production from institutes and companies.



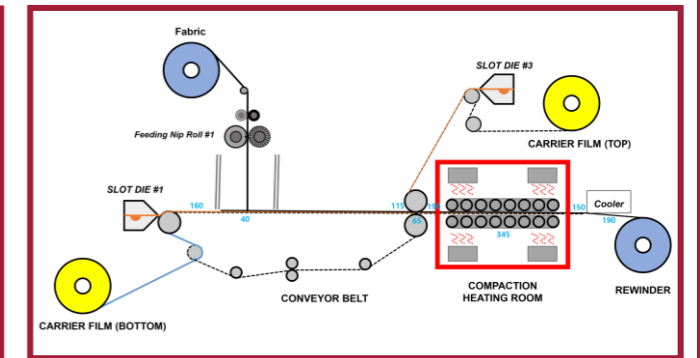
Patented Unique SMC Production Line

2020 JEC KOREA INNOVATION AWARDS WINNER

High-performance, SMC machine improving mechanical properties and productivity



Chopped fiber SMC



Woven SMC

Advantage of ILSUNG CF SMC

Slot die coating	Chopping system	Slot die coating
<ul style="list-style-type: none"> Metered coating High repeatability Thin layer coat (below 10 μm) First in, First out 	<ul style="list-style-type: none"> High speed cutting (Up to 150 meter/min) Multiple resin layers in between carbon fiber (Slot Die 2) Ultra thin resin coating (From to 5 μm) High carbon fiber contents possible (Up to 65% (w/w)) 	
		<p>Chopping system</p> <ul style="list-style-type: none"> Better wet-out Low porosity Gorgeous surface High speed productivity High Carbon Fiber Content

ILSUNG CF SMC Technical sheet

Resin Type	Vinyl Ester		Epoxy	
	Fiber Content (w/w)	50%		
Fiber Type	12K	12K	12K	12K
Fiber Length	1 inch	2 inch	1 inch	2 inch
Tensile Strength (ASTM D 638)	170 Mpa	250 MPa	200 MPa	270 MPa
Tensile Modulus (ASTM D 638)	27 GPa	31 GPa	28 GPa	38 Gpa
Flexural Strength (ASTM D 790)	250 Mpa	470 MPa	420 MPa	450 Mpa
Flexural Modulus (ASTM D 790)	17 GPa	29 GPa	23 GPa	29 Gpa