



KOREA AUTOMATIC MACHINERY



Korea Automatic Machinery has pioneered in Korea to make the finest products



Business agreement on the training for snowplow

Signed business agreement on the training for efficient equipment use



Local presence of mobility team

Mobility team is stationed in the area when heavy snow is forecast



Expansion of after-sales service personnel

On-site production personnel is additionally assigned to the after-sales service mobility team in case of heavy snow



Periodic inspection services provided

Inspection tours carried out twice a year

THE FIRST & THE BEST

Since its establishment in 1989, Korea Automatic Machinery has grown to be Korea's first and best company specialized in snowplow. Through our long-standing know-how and continued technological development, our excellence has been recognized; thus preparing for our new leap forward to grow into a global company.



building foundation for business growth

1993. 1991. 1989.

2020 2018

Taking a leap forward as a global company

2020. Apr. • CaCl₂ liquid plant applied with sprinkling solutionization hopper and quick solutionization method designated as Excellent Products by the Public Procurement Service

2019. Dec. • Received a certificate of priority purchase for excellent inventions (CaCl₂ liquid plant applied)

2017 2015

Proving its excellent technology

2017. Nov. • Performance certified by SMBA (snowplow with gripping force on the road surface)

Sep. . Automatic spreader designated as Excellent Product by the Public Procurement Service

Apr. . Received Minister's Prize from the Ministry of Science, ICT and Future Planning as a contributor for the promotion of science and technology, and selected as Small Giant Company by the Ministry of Employment and Labor (employment promotion)

Mar. Performance certified by SMBA (automatic spreader equipped with waste heat recovery device and wireless communication controller)

2016. Dec. • Acquired NET (New Excellent Technology) Certification (heating technology in deicing agent using the waste heat recovery device)

Oct. • Acquired CE Marking (automatic chloride spreader)

Jun. • Received commendation from the Public Procurement Service and selected as an Excellent Company (G-PASS)

Mar. . Selected as an IP-STAR Company

2015. Oct. • Selected as a member of the P300 Project

Jul. • Auto spray system designated as Excellent Product by the Public Procurement Service

Advancing with technology

2014. May. • Performance certified by SMBA (wide-width shovel blade snowplow)

Apr. • Performance certified by SMBA (auto spray controller)

2013. May. • Performance certified by SMBA (CaCl₂ liquid plant applied with multi-line mixing technology)

Mar. • Acquired K-Mark Certification (for performance) and Q-Mark Certification (for quality)

2012. Aug. • Successfully developed the new-concept CaCle liquid plant

Feb. • Received an award from the Government Excellent Products Association

2011. May. • Acquired CE Marking (snowplow)

Stepping up as a promising company

2009. Apr. • Snowplow designated as Excellent Product by the Public Procurement Service

2008. Mar. • Selected for the export-oriented company project and the technical innovation and development project by SMBA

2006. Jun. • Designated as a Promising Export Firm by SMBA

Jan. • Certified as an Inno-Biz enterprise by SMBA 2005. Jun. • Established Corporate R&D Center Accreditation and Management System with the Korea

Industrial Technology Association (KOITA)

Apr. • Snowplow designated as Excellent Product by the Public Procurement Service

2004. Sep. • CaCl₂ liquid plant designated as Excellent Product by the Public Procurement Service

2003. Dec. • Received Certificate of Endorsement (representing the highest standards of service and quality excellence) from Incheon Metropolitan City (chloride spreader, snowplow, and CaCle liquid plant)

Sep. • Received Good Quality (GQ) Certification from SMBA (CaCle liquid plant)

May. • Acquired ISO 9001:2000 certification [sand (CaCl2) spreader, snowplow, and CaCle liquid plant]

2002. May. • Acquired ISO 9002 certification (snowplow)

2001. Jun. • Received Good Quality (GQ) Certification from SMBA [sand (CaCl₂) spreader, automatic chloride spreader, and snowplow]

May. Received Certificate of Promising Small and Medium Enterprise from Incheon Metropolitan City

2000. Dec. . Acquired ISO 9002 certification [sand (CaCl2) spreader]

Oct. • Selected as a Venture Company by the Small and Medium Business Administration (SMBA) (new technology developing company)

 Sand spreader designated as Excellent Product by the Public Procurement Service May.

· Relocated the factory to Namdong Industrial Complex Nov.

· Developed sand (calcium chloride) spreader and snowplow for airport runways

Company established / Proving its excellent-quality products



AUTOMATIC SPREADER

The pre-wetted salt deicing spreader (salt & CaCl2 solution) is an advanced snow removal equipment that offers fast snow removal effect and reduces material cost at the same time.

* You can choose between solid deicing agents and deicing solutions depending on road conditions and environment.

FEATURES



Equipped with deicing agent heating device

Uses salt and deicing agent (heating) to allow efficient snow removal



Wired and wireless controller

2

Wireless connection between vehicle and equipment / LED button controller for night operation



Emergency operation function

8

In the event of a controller failure the spreader is operated in emergency mode.



Automatic fuel supply system

Provides excellent convenience as it allows the fuel to be supplied from the vehicle to the spreader



GPS-based automatic spread system

Automatically regulates the amount of deicing agent depending on the vehicle speed



Adjustable directions (left, middle, and right)

Spreads deicing agent to the right place without the need to change the driving lane



Wide-width spread

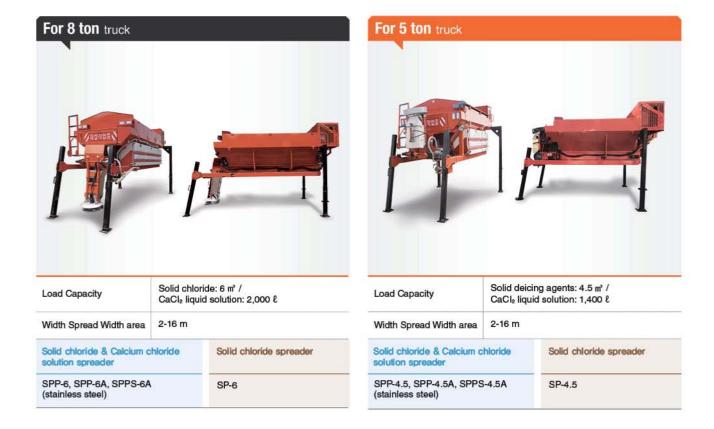
This is used when snow removal is required on a wider lane (up to 16 m)







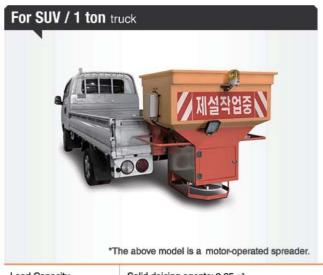
For 15 ton truck Load Capacity Solid deicing agents: 11 m² / CaCl₂ liquid solution: 3,000 ℓ Width Spread Width area 2-16 m Solid chloride & Calcium chloride solution spreader SPP-11, SPP-11A, SPPS-11A (stainless steel)











Load Capacity	Solid deicing agents: 0.25 m²
Width Spread Width area	2-8 m
Characteristic	Lightweight



1.5m³ ELECTRIC SPREADER

Korea Automatic Machinery seeks to provide efficiency and convenience to the environment, and in management and operation. Our unique and new motor-operated and automatic chloride spreader will open up the future for the continuous development of snow removal equipment.

CHANGES BROUGHT BY MOTOR-OPERATED EQUIPMENT



Budget reduction

No refueling, filter and oil change needed



Eco-friendly

No smoke, vibration, or noise



Enhanced controller functions

Capable of controlling the spread width, amount, and direction in the driver's seat



Simplified structure

Reduces failure rate by excluding hydraulic systems



Lightweight

Reduces load on vehicles laden with deicing agents







SNOWPLOW

The snowplow intended for mounting on a vehicle has excellent snow removal capability at the time of heavy snowfall (of more than 3 cm), and its push-out operation is a pre-treatment work performed to maximize the effect before spreading the deicing agent.

Vibration isolation link

- The link made of polyethylene (UHMW-PE) material improves shock absorption and restoring force thereby reducing driver's perceived impact force.
- Unlike steel links from other companies, it is highly resistant to corrosion

Mounting device

 Made of a structure that is easily coupled and tightened with equipment



Vibration isolation link



Mounting device



FEATURES



Road gripping force controlling feature

Adjusts the pressure the that the snowplow applies to the road surface / Improves steering when operating snow removal vehicles / Protects equipment by minimizing load and vibration on snow removal vehicles and snowplows / Reduces wear rate of rubber shovel blade



Overload prevention device

If the load persists for more than a certain period of time, it cuts off the electricity to prevent damage to the main device



Self-load snow removal function

Can be buffered and height-adjusted by inter-working with the road surface ▶ Reduced fatigue



Maximum life / high performance

Inserted special reinforcing cloth into rubber shovel blade









W×H

Weight

W×H

Snow removal capacity



Vehicle	2.5-5t truck	
W×H	2,400 x 650 mm	
Weight	450 kg	



2,100 x 620 mm

250 kg



Vehicle	Front and rear of rhe tractor
W×H	2,400 x 650 mm
Weight	200 kg



2,000 x 1,250 mm

1,000 t/h

CaCl₂ LIQUID PLANT

It is an eco-friendly equipment developed by our company for the first time in Korea. Even with its size that is significantly smaller compared to conventional equipment, this equipment can improve productivity in an innovative way and even melt solidified deicing agents.

Solutionization of solidified deicing agent

Capable of solutionizing solidified deicing agents, and reduces wastes in deicing agents, enhances economic/environmental sustainability, and capable of self-cleaning of hoppers

Innovative productivity

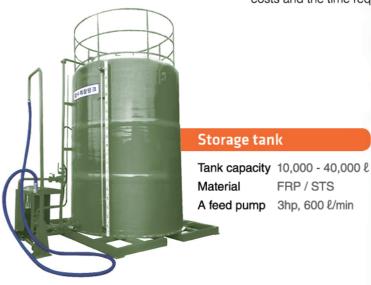
Capable of producing 400 ℓ per minute

Prevents freezing of pipelines and storage tanks

Prevents freezing by injecting deicing agent into pipelines without the use of electrothermal wire

Miniatur tion Miniaturization

Can be installed in a confined space for space utilization/Improves mobility, reducing costs and the time required for installation



Safe storage & stable supply

Equipped with storage tank level control

Semi-permanent use

FRP is a monolithic tank constructed withfilament winding technique. Manufactured in the molding process, its price is lower than STS tankand has higher durability and resistance to allow semi-permanent use of the tank.





Capable of solutionizing solidified deicing agents

with the application of sprinkling solutionization hopper and crushing device



AUTO SPRAY SYSTEM

The auto spray system used for early snow removal tasks is installed in areas vulnerable to snow-removal such as hills, overpasses, lamp sections, and tunnel entrances. It monitors the field in real time through CCTVs and regulates the control program remotely, enabling the snow removal work to be carried out in multiple sections by a single operator alone. As a result, it overcomes the limitations of equipment and improves initial responsiveness.



