

# Company Profile

Qui sommes-nous

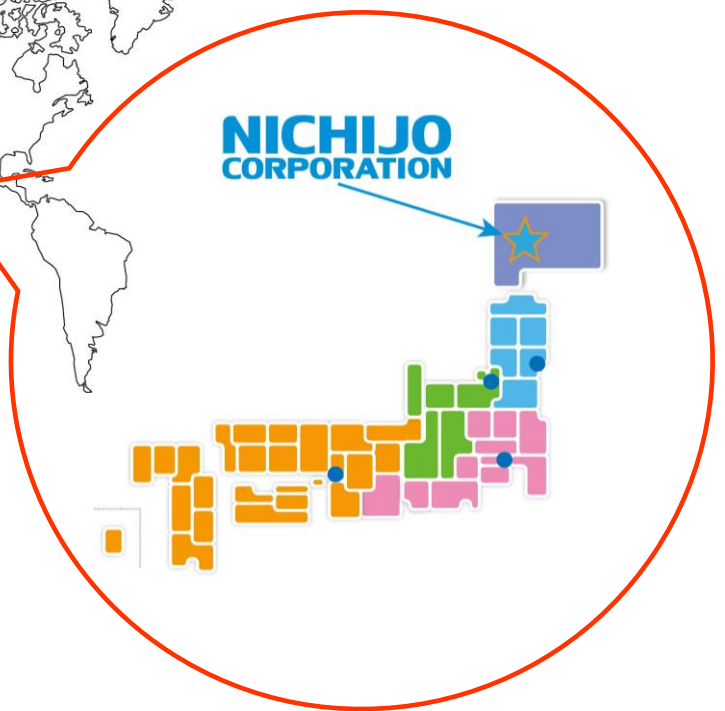
## Company profile

Since its establishment in 1962, NICHIGO, based in *Hokkaido*, has been working on the development of snow removal machinery. Building on its expertise and experience, the company develops and manufactures not only snow removal equipment, but also large special-purpose vehicles, such as railway track maintenance vehicles and Heavy Lift Cars vehicles.

As a manufacturer serving as a one-stop solution provider, NICHIGO provides development, design, manufacture, and marketing services.



Head Office



As a solution to the problem of snowplow operator shortage due to a dwindling birthrate and an aging population in Japan, we took part in an industry-academia and public-private partnership project associated with labor savings in the field of snow removal\* and developed a single-operator vehicle designed to automate snow removal operation.

\* i-Snow project



Japan is a country prone to natural disasters. In view of this, we have also developed a plug-in hybrid rotary snowplow capable of serving as an emergency power source to supply electric power to buildings, etc., in the event of an emergency.



# Product Lineup

Notre gamme de produits



NICHIGO has a complete lineup of Rotary snowplows to meet diverse needs, including large types that are particularly useful on expressways and in main roads in snowy regions, medium-size types for a wide range of applications such as snow haulage removal in urban areas, and small types that can be used to remove snow from community roads in residential areas and residential streets. Leveraging our technology and experience with rotary snowplows, we can also manufacture other transport equipment, such as railway motor cars and transport equipment to meet intralogistics needs.

## Rotary Snowplows



## Other products



# Plug-in Hybrid Rotary Snowplow HTR145PHV

Chasse-neige rotatif hybride rechargeable (PHEV)  
HTR145PHV

Technology under development



## Protecting lifelines in Times of disasters with cutting-edge technology

**HTR145PHV** is a rotary snowplow that can protect the lifelines of local community with its powerful snow removal performance during normal times. In the event of an emergency power outage, such as power failure caused by a disaster, the snowplow's battery can serve as an emergency power source to support community lifelines by supplying electricity to facilities such as shelters and hospitals.



### Power supply system of the Plug-in Hybrid Rotary Snowplow

#### (1) Capable of supplying electricity to a building

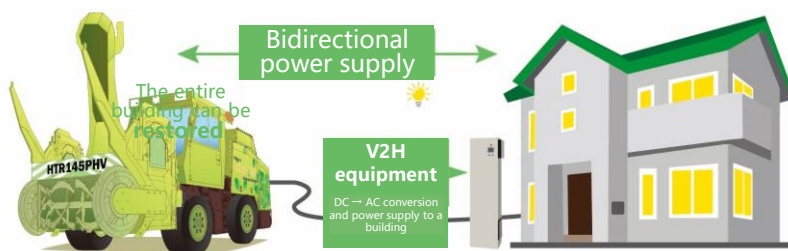
In the event of a power outage, electricity can be taken from the rotary snowplow and supplied to a building via a vehicle-to-home device.



(Charging scene)

#### (2) Capable of supplying AC power. In an emergency, the system can supply 6,000W of power.

Electricity can be supplied to a wide range of equipment.



(Snow removal operation)



(Dedicated configuration of plug-in hybrid equipment)



# Products Overview

## Aperçu des produits



### i-Snow [smart nice operation work]

Platform for integrated activities to enhance productivity and safety at snow removal sites through labor-saving measures

Improving efficiency and saving labor in snow removal operations to help address emerging problems at snow removal sites, such as winter disasters and frequent road closures caused by abnormal weather, etc, and a declining workforce due to the aging of operators.

- (1) Labor saving operation and automated control of snow-throwing operations by utilizing high-accuracy 3D map data and quasi-zenith satellite Michibiki
- (2) Automatic chute control according to snow mound profiles made possible by an surrounding environment measuring system (3D-LiDAR)
- (3) Automatic control of snow removal rates according to snow removal load by using the snow removal rate control system
- (4) Safety measures using millimeter-wave radar, stereo camera system, etc.

(1) Labor saving in operation and automated control of snow-throwing operations



### HTR308L

For loading snow onto trucks in single traffic lane  
 Engine rated output: 242 kW, Maximum snow clearing capacity : 2,700t/h  
 ※For loading snow onto trucks : 730m<sup>3</sup>/h snow clearing width : 2,600mm

HTR308L is a single-lane, rear-loading rotary snowplow designed to improve operational efficiency and safety.  
 In Japan, snow transport and disposal is normally carried out using two-lane parallel loading.  
 However, by adopting a long-reach belt conveyor system, the HTR308L enables single-lane, in-line loading.

Transport / Operation Posture Diagram

