

Stainless Steel Packaged Ice Storage & Delivery Systems

Specifically designed to meet the needs of the packaged ice industry, North Star Stainless Steel Packaged Ice Storage & Delivery Systems feature heavy-duty industrial components and an integrated control panel to provide automatic and continuous storage and delivery of all types of ice. North Star offers two stainless steel ice systems for food-grade applications to meet the demanding standards of the packaged ice industry. Our integrated control panels are customized to run North Star components and additional equipment for simple operation of the entire ice plant from one location.

Feature	Benefit
<i>Wide range of standard dimensions and custom designs</i>	<ul style="list-style-type: none">• Capacities from 20 to 280 U.S. tons (18 to 255 MT) in a single unit. Multiple units can be combined for even greater storage• Efficient use of available floor space• Full utilization of cubic footprint provides maximum storage capacity
<i>Two stainless steel systems available: MR-Plus with stainless steel ice contact components; and MR-Elite, constructed entirely of stainless steel</i>	<ul style="list-style-type: none">• Designed for food-grade applications• Only stainless steel components make contact with the ice• Easy to clean and sanitize
<i>Integrated control panel</i>	<ul style="list-style-type: none">• Custom designed for each installation• Controls entire ice storage and delivery system as well as additional ice making, collection and delivery equipment• Touch screen operator interface provides system status and alerts
<i>Designed to operate with both wet and dry bins</i>	<ul style="list-style-type: none">• Stores all sizes of packaged ice; ideal for bagging operations• Design ensures continuous discharge of ice to bagging lines
<i>Proven design, installed around the world</i>	<ul style="list-style-type: none">• Requires only simple maintenance of electro-mechanical systems• CE approved



North Star insulated enclosures will fit in existing or new ice plants.

Packaged Ice Storage & Delivery Systems

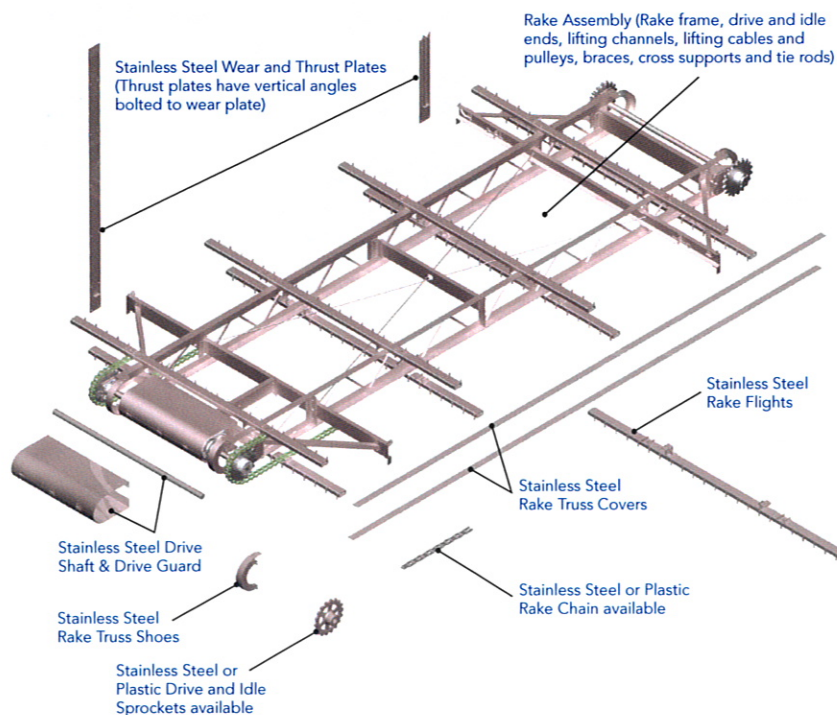
System Components

North Star packaged ice systems are available in two options – the MR-Plus and the MR-Elite. The design of the MR-Plus ensures that ice comes into contact with only stainless steel or food-grade plastic components. The MR-Elite is for applications that require a completely stainless steel rake assembly.

Component	MR-Plus System	MR-Elite System
Ice Rake	Stainless steel truss covers, truss shoes and rake flights	Complete rake assembly is stainless steel
Rake Chain	Stainless steel or food-grade plastic*	Stainless steel or food-grade plastic*
Drive Assembly	Stainless steel cover & drive shaft	Stainless steel cover & drive shaft
Drive & Idle Sprockets	Stainless steel or food-grade plastic*	Stainless steel or food-grade plastic*
Reinforced bin wall frames with food-grade bin liners, viewing panel, and hinged side access doors	Stainless steel bin panels, and wear and thrust plates	Stainless steel bin panels, wear and thrust plates, bottom tie bars, and bottom flatbar strips
Delivery Systems	Stainless steel screw conveyors – 10 to 30 U.S. tons (9 to 27 MT) per hour delivery rate.	

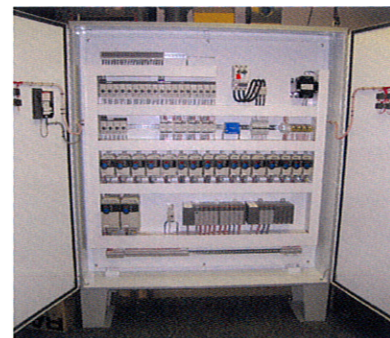
*depending on model

North Star Stainless Steel Ice Rake Components



North Star Integrated Control Panels

North Star offers an integrated control panel custom designed to control all North Star storage and delivery components, as well as ice making, collection, and delivery equipment by other manufacturers. At the heart of the panel is a state-of-the-art Allen Bradley programmable logic controller (PLC), which can be programmed for single or multiple bin installations. The touch screen operator interface provides easy control of all components and system status and alerts. A stacklight offers immediate, highly visible notification of system faults. A built-in modem allows for remote troubleshooting support and program upgrades. North Star integrated control panels have received UL 508a certification, as well as ETL, cUL and CE listings.



North Star integrated control panels can be programmed to operate all components of a packaged ice plant from one central location.

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