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product info

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MIDDLE PLATE DESIGN

Our middle plate design enables the ability to easily install a camera in the middle of the track.

DIRECT COOLING

Direct contact between the cooling pipes and the ice mixture reduces energy costs and increases cooling efficiency.

MATERIALS

The materials that are used contain UV stabilizers and additives that increase slickness for greater slide.

SOLID EDGES

Solid edges allow heavy weight impact, without risk of damage.

INCORPORATED LEVELING SYSTEM

The incorporated leveling system allows us to install the in-run track on uneven surfaces.

MODULAR COMPOSITION

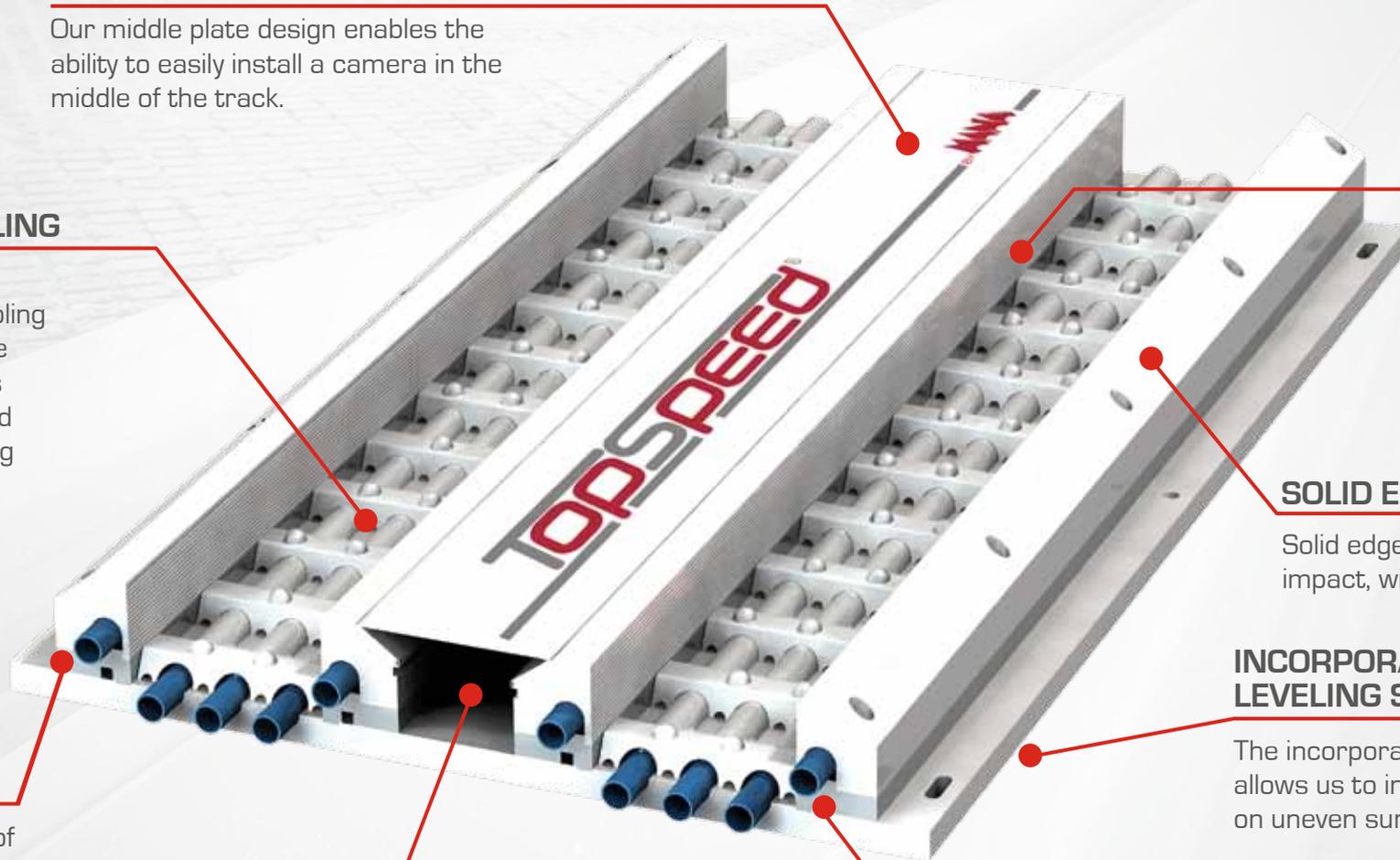
The modular composition of the in-run track makes replacement of any part quick and easy.

COOLED EDGES

The unique feature of our in-run track.

SPRINKLING SYSTEM

A centrally positioned sprinkling system ensures optimal moisture conditions on the tops of the ceramic knobs.



ASYMMETRIC POSITION

Asymmetric position of ceramic knobs helps to reduce friction between the skis and the ceramic knob.

MATERIALS

The materials that are used contain UV stabilizers and additives that increase slickness for greater slide.

MIDDLE PLATE DESIGN

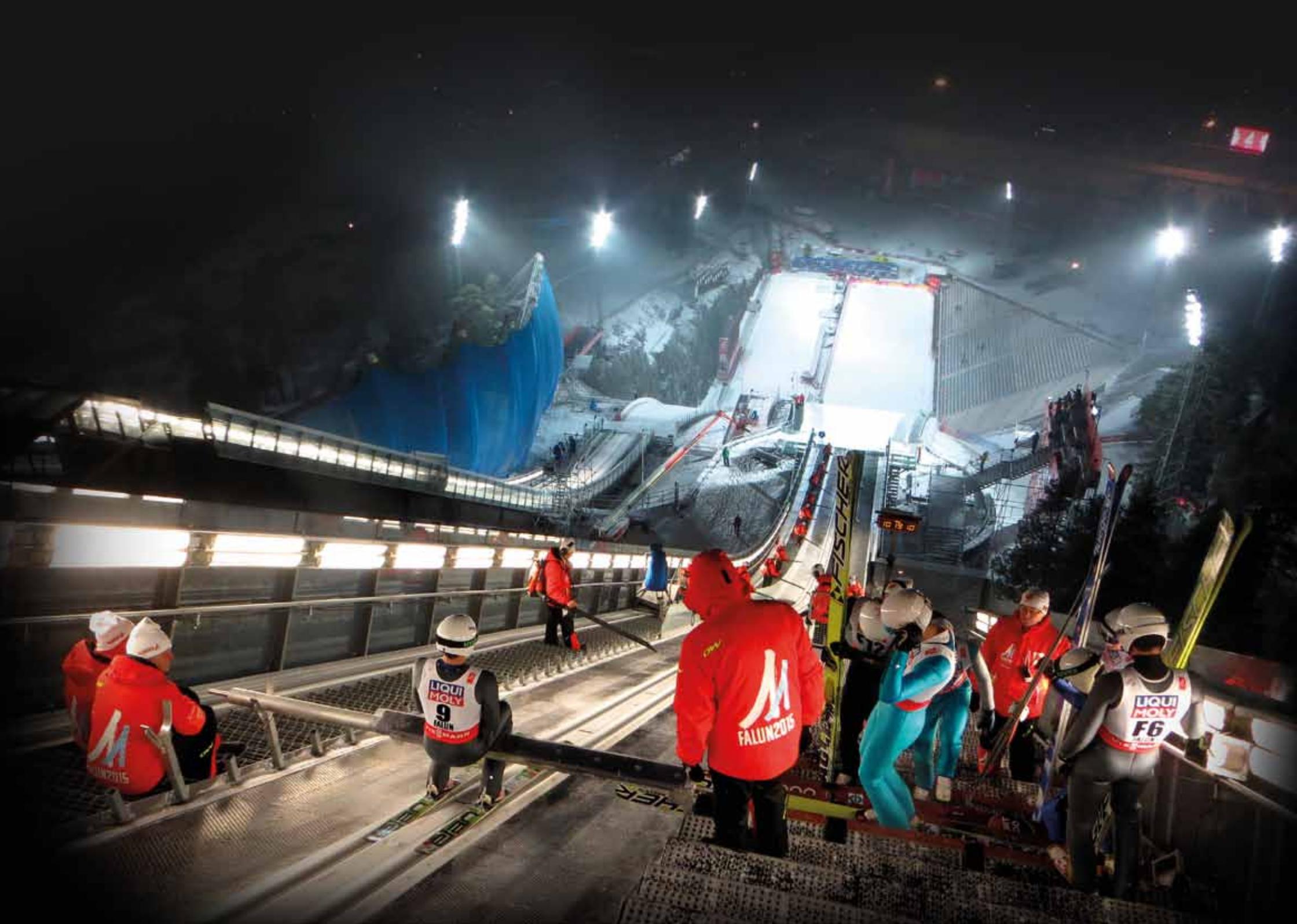
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COOLING SYSTEM

Comes in two versions: internal or external. The internal version is for ski-jumping centers that have a specially designed place to contain a cooling system. The external version is for ski-jumping centers that do not have a specially designed place for a cooling system. It has output power of 12kW – 25kW and low power consumption. The cooling system has a back-up system in that it contains two cooling units. If one unit fails to work, the other one takes over. All our cooling devices include a heater that melts snow, ice or frost which may form on the in-run track.



COVER SYSTEM

The cover system can be delivered in different sizes (length and width), colors and prints. The cover weighs approximately 1 kilo per 1 square meter. It should be used in conjunction with an electronic winch (positioned on the top of the ski-jumping hill, option: wireless control). The speed of the winch varies between 10 and 30 meters per minute.



ICE TILLER/MILL

This tiller/mill is an accessory for track preparation, in addition to the snow mixture case and multifunctional carrier. It has a low noise level and is highly effective in cutting ice. The grooves are cone-shaped and can be up to 20 millimeters deep. The position of the grooves can be customized. The default specification of the grooves are five grooves.



WATER SYSTEM

The water system includes a sprinkling nozzle every 3 meters (every third in-run element) and a connection to water supply. Water is sprayed on the top of the ceramic knobs and ensures a perfect sliding surface for skis. The water system can be regulated with magnetic valves via a central computer system (option). This water system is integrated into all TopSpeed® in-run track elements.

LEVELING SYSTEM

The leveling system is meant to be used when the base of the in-run track is uneven. The leveling system is designed to be able to adjust the height of the base (FIS) line +/- 100mm. We can achieve accuracy of the in-run track surface up to 1mm.



RUBBER MATS

Rubber mats help you to secure the FIS safety area and have optimal walking surface along the track. This rubber matting decreases the amount of slickness of the slope. The crampons can be used on this matting. We recommend using it on ski-jumping hills where ice in-run track is used (winter and summer track). It is black or light grey in color. The dimensions may vary depending on application.



LIQUID N2 DISTRIBUTION SYSTEM

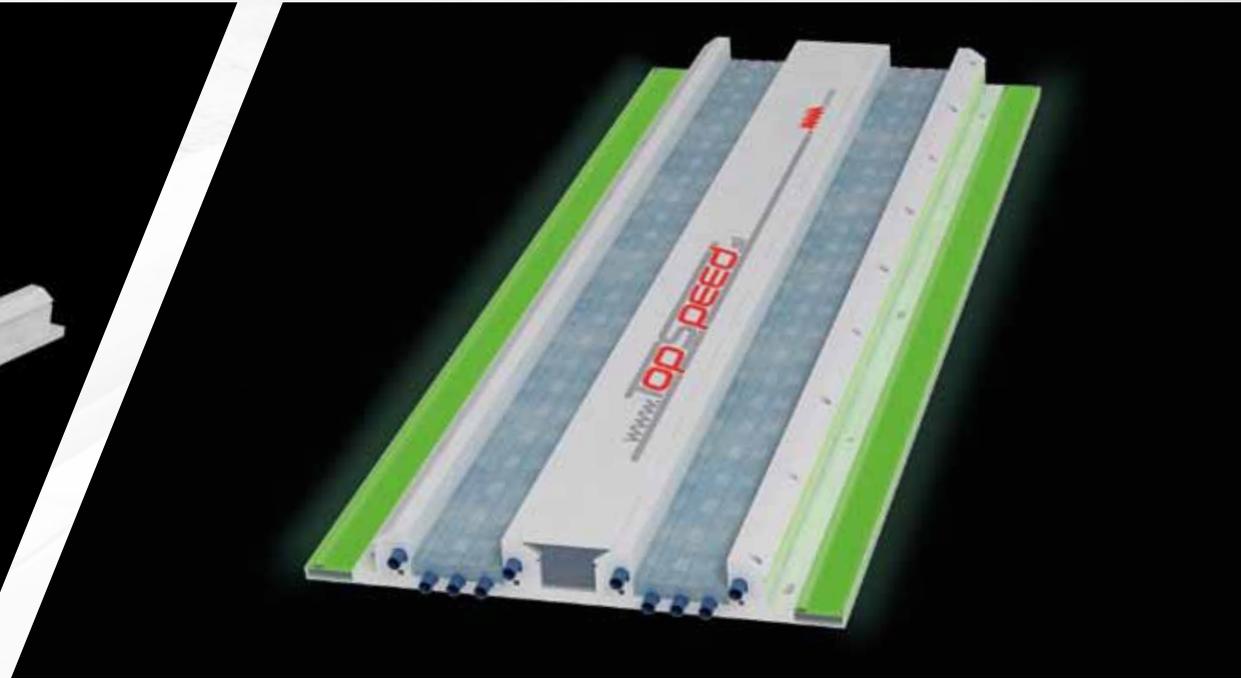
In case of too warm of weather or failure of all cooling systems, use of the liquid N2 distribution system comes in handy. This distribution system contains a specially designed carrier and pipes so that liquid N2 can be applied on the in-run track. The temperature of this liquid is approximately -200°C and can freeze the entire in-run track within 45 minutes. It is meant to be used only in emergency situations.



WINCH

We are using French produced winches with a range of power from 4 kW – 10kW. Speed can be adjusted depending on the type of use. The winch is protected against dirt and water – IP56 standard and supplied with a galvanized and braided steel cable. It is not meant to be used for transportation of people. Control of winch is wireless.





TS Forerunner

FORERUNNER

The Forerunner[®] is an automatic brushing system for cleaning the in-run track after or before every ski-jumper in order to need less or no forerunners at all. This system is installed on the side of the in-run track and does not interfere with the ski-jumpers. You can provide the exact same ski-jumping conditions for each and every ski-jumper with the use of the Forerunner[®]. There is no need for extra man power with blowers or brushes. It is very useful in case of snow or rain and can clean all dirt out of the in-run track.

TS illumination system

ILLUMINATION SYSTEM

The in-run track can have an integrated illumination system with changing colors based on the investor's wishes. The idea is that the track gets illuminated in the same colors as are presented on the ski-jumper's information board (red, yellow, green). It is designed in a way that does not bother the ski-jumpers and offers additional information and fun for spectators.





New in-run tracks come with a lot of new technical equipment. This equipment should be properly used to extend its expected life span.

We can assist you when you have an important ski-jumping competition or other event during which you will not have your own technical team.



The technical assistance covers: use of winch, use of covering system, use of ice mill/tiller, use of multipurpose carrier, use of cooling aggregate, use of special tools and so on.

If the in-run track is being prepared for a ski-jumping competition or any other important event and you don't have an experienced crew, our team can offer assistance. Preparation can include anything from preparing the entire track from scratch to merely fine tuning an existing snow surface.



We can also educate your local team on how to prepare an in-run track in summer and winter conditions, how to handle technical issues and how to maintain the system. First level education is included in the price of all TopSpeed® in-run tracks.

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