

# The Snowmobile Ski PERFECTED

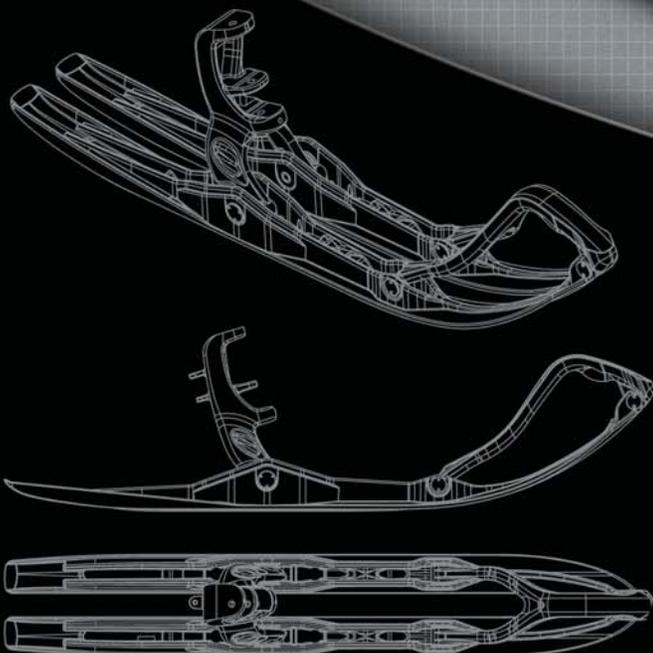
Introducing Split Rail's revolutionary dual axis snowmobile ski which transforms the handling of your snowmobile for the ultimate in performance and control.

- Dual Axis Rails flex independently and conform to changes in terrain for ultimate steering control
- Twin carbides combined with hollow ski center eliminate darting and unwanted snow build-up
- Surface area equivalent to current day ski designs for excellent snow floatation
- Arch spindle design directs snow dust to track area for increased cooling and slide rail lubrication

**"It's Like Riding on Rails"**

No longer just a Figure of Speech...

**...It's a Reality.**



**SPLIT RAIL**  
Dual Axis Snowmobile Skis

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# SNOWMOBILE DYNAMICS

## Understanding how Split Rail Skis increase the handling performance of your snowmobile

### INCREASED PERFORMANCE AND STEERING CONTROL (ON TRAIL)

A snowmobile skis ability to constantly stay in contact with the trail by conforming to changes in terrain ultimately increases the control and performance of the snowmobile. Split Rail Skis excel beyond current day ski designs due to its patented center-less ski design and "Dual Axis Technology".

### SPLIT RAIL SKI HAS DUAL AXIS TECHNOLOGY

- 1) 1st Axis** – Split Rail Ski has 2 low profile keels that permit the two rails of the ski to flex from the front of the ski to the rear of the ski. Flexing of the ski eliminates bridging of any divots or potholes in the trail and allows the ski to conform to the terrain. The two carbides on the ski together with the 4 sharp sidewall edges remain in contact and carve the snow. Steering and handling is outstanding.
- 2) 2nd Axis** – Split Rail Ski has 2 rails that flex independently of each other and pivot on the axis side to side. When the ski enters a divot or pothole in the trail, both rails at the rear of the ski vertically self-adjust to conform to the contour of the terrain and carve the snow.
- 3)** Compared to conventional and tunnel skis, Split Rail Skis minimize snow pressure build up and eliminate the "push" effect caused by unwanted lift in corners. Unlike solid center skis which begin to lose contact with the surface as snow pressure builds, Split Rails center-less design regulates optimum snow pressure to its 4 sharp sidewall edges. The sidewall edges maintain positive contact with the snow surface and help propel the snowmobile to where the skis have been pointed. The snowmobile can now make sharp turns with enhanced handling and steering control and the confidence of the rider is increased as well.

### INCREASED PERFORMANCE AND STEERING CONTROL (FRESH SNOW TRAIL CONDITIONS)

The Split Rail Ski, Conventional & Tunnel Ski underside surface areas are identical and all experience "lift" going straight ahead. When entering a corner, with a conventional or tunnel ski, "lift" continues to increase as snow builds up under the ski. Handling is lost as a result of the carbides losing contact with the trail. The surface area of the Split Rail Ski is divided, which in turn produces less "drag" and the Split Rail Ski "hydroplanes" going straight ahead. When entering a corner a Split Rail Ski produces minimal "lift" as the snow passes through the center of the ski. The rider experiences the best of both worlds as the Split Rail Ski technology produces "lift" in the "straight- away" & "carving" in the corners.

### ELIMINATION OF DARTING AND INCREASED TRACK SLIDE-RAIL LUBRICATION

The two most undesirable traits of hard packed snow and icy conditions are darting and reduced track slide- rail lubrication. Split Rail Skis patented center-less ski and arched spindle design effectively solves both issues.

#### Eliminates Darting:

Split Rail Skis have two features that address and eliminate "darting".

- 1)** Split Rail Skis feature 4 carbides (2 per ski). When one of the carbide runners becomes trapped in an existing groove on the surface of the snow or ice the other 3 tracking carbides overpower and compensate for the trapped single carbide. This enables the snowmobile to track true and straight.
- 2)** A Split Rail Ski has 2 rails and each rail has 2 sharp sidewall edges. When combined together there are 4 sharp sidewall edges per ski that carve the snow and again forces the snowmobile to track true and straight.

#### Improve Track Slide-Rail Lubrication:

Split Rail Skis excel in limited snow conditions due in part to its patented center-less ski design. When turning the snowmobile this design funnels snow dust through its arch spindles directly into the track area improving slide-rail lubrication and heat exchanger cooling.

### INCREASED PERFORMANCE AND CONTROL - SLUSH CONDITIONS

Slush significantly increases "drag" and "robs" horsepower from the snowmobile when outfitted with Conventional & Tunnel Skis. Split Rail Skis greatly reduce "drag" due to the majority of slush being channelled between the rails of its patented center-less ski design. A snowmobile outfitted with Split Rail Skis is better able to partially rise above the slush and "hydroplane". Precise steering control is maintained due to the 4 sharp sidewall edges of each ski remaining in contact with the trail surface. Overall, the snowmobile is able to maintain its velocity without any experience of bogging or loss of horsepower.

### INCREASED STEERING CONTROL ON BARE PAVEMENT

Split Rail Skis excel on bare pavement due to its four carbide cutting edges. When the rider points the sled it goes directly to that location. There is no skidding sideways when crossing roads and dragging of the sled when pulling up to the gas pumps is eliminated. All riders will truly appreciate this exclusive Split Rail Ski feature.

