

RAVTECH Specialty Bearings

We have recently concluded an agreement with Ravtech Inc. covering the exclusive design and distribution of extreme high performance specialty ball and roller bearings and virtually frictionless magnetic seals for motorsports applications.

The bearings are manufactured under the Ravtech name by MRC Specialty Bearing aerospace facility in Jamestown, New York. The seals are produced by Magnetic Seal Corporation in Rhode Island.

General information follows.

Refer to pages 50-51 for technical details.

Ravtech Extreme High Performance Bearings for Motorsports

AEROSPACE QUALITY	<ul style="list-style-type: none"> All Ravtech bearings are produced in accredited aerospace manufacturing facilities.
Xecor™ COATED RINGS	<ul style="list-style-type: none"> Corrosion-control surface treatment Treatment facilitates post-application performance evaluation
HIGH-STRENGTH MACHINED RETAINERS	<ul style="list-style-type: none"> Silver-plated for additional lubrication Significantly stronger than stamped steel or polyamide styles <ul style="list-style-type: none"> Provides additional protection in case of loss of lubrication Increased time to shut down prior to catastrophic failure Multiple material options that provide the optimal balance between strength, cost, & weight <ul style="list-style-type: none"> Machined bronze Heat-treated, high-strength alloy steels Titanium High-strength polymers
AEROSPACE-GRADE CERAMIC & STEEL BALL & ROLLER OPTIONS	<ul style="list-style-type: none"> Aerospace quality balls & rollers <ul style="list-style-type: none"> HYBRID SiN (Ceramic) option High-Precision 52100 steel ball & roller option
BEARING TYPES	<ul style="list-style-type: none"> Single-row, deep groove radial ball bearings (Conrad-type) Angular contact ball bearings <ul style="list-style-type: none"> Multiple contact angle options for optimal performance Cylindrical roller bearings Needle roller bearings
CUSTOM DESIGNS	<ul style="list-style-type: none"> Ravtech designed bearings have been used on championship winning Formula 1, CART & IRL cars
TECHNICAL SUPPORT	<ul style="list-style-type: none"> Mounting, lubrication, bearing selection, and application recommendations Post- application performance analysis assistance Shaft & housing fit recommendations Life calculation

Ravtech Low-Drag Extreme Performance (LDEP) Seals

AEROSPACE QUALITY	<ul style="list-style-type: none"> • All Ravtech seals are produced in accredited aerospace manufacturing facilities.
SUSTAINED HIGH TEMPERATURE & HIGH RUBBING SPEED CAPACITY	<ul style="list-style-type: none"> • Long-life • Unequaled reliability
LOWER COEFFICIENT OF FRICTION	<ul style="list-style-type: none"> • Dynamic frictional coefficients of 0.05 to 0.1 are typical for Ravtech LDEP seals
REDUCED FACE LOADING	<ul style="list-style-type: none"> • Ravtech LDEP seal face loads are unaffected by shaft position <ul style="list-style-type: none"> • Less heat generation • Longer wear • Less power loss from friction
GREATER TOLERANCE FOR HIGH SURFACE SPEEDS	<ul style="list-style-type: none"> • Ravtech LDEP seals can tolerate rubbing speeds up to 21,000 ft/minute <ul style="list-style-type: none"> • No spring bounce • No chatter • No spring fatigue
SPRINGS TRAP FLUIDS	<ul style="list-style-type: none"> • Oil & other organic fluids can “coke” at high temperatures, impeding lubrication <ul style="list-style-type: none"> • Ravtech LDEP seals constantly circulate oil as they rotate, allowing them to run cool.
HIGH TEMPERATURE CAPABILITY	<ul style="list-style-type: none"> • Ravtech LDEP seals can be designed to withstand temperatures up to 600°F (316°C)
MAGNETICALLY CONTROLLED SEALING SURFACES	<ul style="list-style-type: none"> • Seal faces are lapped to within a tolerance of 2 helium light bands • Seal faces mate and seal on installation