

# KOFORD

E N G I N E E R I N G

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## 2009



### 2008 National Champions

Koford Engineering is the leading producer of high performance slot car equipment. We produce a complete line of products for every class of wing car racing, and a wide variety of products for drag and scale racing. Our new line of controllers feature innovative design, smooth action and long life. We also offer accessory equipment such as our new smaller power supplies, grinders, tire wrenches, and many other items.

Koford Engineering finished 1, 2, and TQ at the 2008 Nat's!

Koford products were used by the winners of 13 out of 13 wing car events at the 2008 US Nat's. Koford chassis dominated winning 11 of 13 classes, our arms won 11 out of 12 classes. Koford set ups were used by the winners of 7 of 12 classes and our magnets were used by the winners of 4 out of 8 Cobalt magnet classes.

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## OPEN ARMATURES

Koford open armatures have won nearly every major race for the past 17 years including the 2008 Nat's. The advanced technology of Koford arms puts them in a class by themselves. Koford SAW comms are produced entirely at the Koford factory with computer controlled equipment producing tolerances in the millionths. No competitor has been able to duplicate their unique design which provides superior strength and stability at speeds of 200,000 rpm and more. Koford arms also feature Koford produced 800° epoxy which is available nowhere else. Heat which will destroy other arms will not affect our arms. Our armature shafts are made from special high speed steel with superior magnetic characteristics and are precision ground, plated with a ultra hard low friction coating which features superior solderability to prevent pinion spinning and resist corrosion, and then they are ground again to achieve diameter tolerances typically in the millionths.

M461 L blank 480 SAW com open arm, fits setups for .850 long arms. Specify 64, 74-1/2, 84-1/2, 94-1/2 \$68.98 ea.

M199SAW Custom G7 SAW comm, K blank (.480-.490), L blank arms, (.480-.485 dia.), H blank (.480-.500) or .459 blank (.445-459 dia.), specify stack length (.350 standard K and L blanks, .380 for H and .459), stack diameter, overall length, wind, and timing (usually 15°-20° for race arms, 20°-25° for qualifiers and drag arms), made to order 4 week min. lead time K and L blanks are standard for high power wing car open racing. H blanks are narrow leg arms suitable for OMO, or low power, 459 arms are the standard for drag racing. \$90.00 ea.

M275SC15-24 459 drag arms. Approx. .850 long. High time. \$68.98 ea.

## EUROSPORT ARMATURES

M199SAW Custom Euro arms. **1.5mm shaft end ready to use now standard.** Made to order. Suggested configuration is H blank with long comm, .240 stack (.743 long) 10°-20° or .300 stack, .735 long, 15-25° timing. \$90.00 ea.

M255M .300 long stack H blank Eurosport, long comm .743 long arms to fit .480 tall Koford set ups. H blank Euro arms are most suitable for flat tracks. Available in 19t-24-1/2, 22t-25, 26t-26, 31t-27, and 40t-28. \$68.98 ea.

M461M .300 stack L blank Eurosport, long comm .743 long arms to fit .480 tall Koford set ups. L blank Euro arms are most suitable for banked tracks. Available in 19t-24-1/2, 22t-25, 26t-26, 31t-27, and 40t-28. \$68.98 ea.

M255F .240 stack H blank, long comm Eurosport to fit .480 tall Koford set ups. This blank is best suited for 1/32 cars and flat tracks. .735 arm length. Available in 22t-25, 26t-26, 31t-27, and 40t-28. \$66.98 ea.

M461F .240 stack L blank, long comm Eurosport to fit .480 tall Koford set ups. This blank is best suited for 1/32 cars on long fast banked tracks. .735 arm length. Available in 22t-25, 26t-26, 31t-27, and 40t-28. \$68.98 ea.

## GROUP 27 ARMATURES

M467-27A-32 2008 Nat's winner. Wound on the famous Tri Star G27 blank this is an .850 long .490 dia. arm featuring the Koford short S comm, 800° epoxy, and plated shaft. \$60.40 ea.

M467-27A Same as above but 40° timing. Used for qualifying or on low power. \$60.40 ea.

M467-27-C custom timing or diameter. \$65.75 ea.

## GROUP 20 ARMATURES

M468-20-44 Tri-Star Drag 20 arm, .510 dia., 44° \$38.82ea.

M468-20-48 Tri-Star Drag 20 arm, .510 dia., 48° \$38.82 ea.

M468-20-50 Tri-Star Drag 20 arm, .510 dia., 50° \$38.82 ea.

**NEW!** M468M-20-48 Tri-Star Drag 20 arm, .513 dia., 48° \$38.82 ea.

M468-20L Tri-Star G20 arm to fit Box Stock set ups. .518 diameter replacement arm for G20 RTR cars. 30° timing for road racing. \$38.82 ea.

M468-20H Tri-Star drag 20 arm, .518 dia., 40° for SS/A class. \$38.82 ea.

## **GROUP 15 ARMS**

M467-15B .490 G15 arms based on the Tri-Star blank. Length is .850. Specify timing -38, -40 or -44 \$37.07ea.

M467-15C .500 G15 arms based on the TriStar blank. Length is .850. 2008 Nat's winner. Specify timing -38, -40, or -44. \$37.07 ea.

M468-15 .518 dia. SPEC 15 arm. \$37.07, ea.

## **C12 ARMS**

M467-12C race arm, 32° .490 C12 arm .760 long, 2008 Nat's winner Pro/Am. \$37.04 ea.

M467-12B qualifying arm, 40° .490 cobalt 12 arm .760 length. \$37.04 ea.

M467-12D C12 race arm .500 diameter 32° approx. .760 long. \$37.04 ea.

## **GROUP 12 ARMS**

M468-Box-40 Tri-Star G12 arm .518 diameter 40° timing. Multiple Nat's winner. Features super hard, wear resistant, better than drill blank shaft and 800° epoxy for the ultimate in reliability. \$35.13 ea.

M468-12-44 Tri-Star drag 12 arm, .510 dia., 44° \$36.55 ea.

M468-12-48 Tri-Star drag 12 arm, .510 dia., 48° \$36.55 ea.

## **COMPETITOR ARMS**

M468-A Competitor (GT-1) arm wound on Tri-Star .518 diameter \$27.16 ea

## **SUPERWASP ARMS**

**NEW!** M468-SW Super Wasp arm wound on Tri-Star .518 diameter \$28.30 ea

## **OPEN - COBALT SET UPS**

Koford set ups have been the most successful G7 set up for the last 14 years. Superior magnet design & material, a can with the strength required for open racing combined with superior magnetic properties and a plated finish for anti rust, better solder adhesion and superior magnet

retention, vertical brushes for cooler , more efficient operation and 16% more swept comm area, are among a few of the reasons why. We have a motor design suitable for any racing or qualifying condition. Our Nat's winning 10 mags are a break through in magnet design providing high highest performance with the longest motor life. Our superstrong but lightweight can provides the ultimate in durability.

M283-10-380 Ten mag open set up with 380 long magnets and .480 tall plated CNC can and Gold vertical hoods to fit 480 open arms. \$248.13 ea.

**NEW!** M283-20-380 Twenty mag open set up with 380 long magnets and .480 tall plated CNC can and Gold vertical hoods to fit 490 open arms. \$275.74 ea.

M283-68OT "Big Six" mag open set up, with .380L x .480 tall 6 magnets with .480 tall plated CNC can and Gold vertical hoods. For .480 arms. \$234.57-D6 ea.

## **OPEN DRAG - COBALT SET UPS**

M283-D6 .480 high x .400 long 6 magnet drag set up for .459 dia. drag arms in billet can. \$234.57 ea.

**NEW!** M283-DS6 .480 high x .400 long 6 magnet drag set up for .445 dia. drag arms in billet can. \$243.05 ea.

## **G27 COBALT SET UPS**

Koford set ups have become the dominant product in the G27 class. Koford set ups are smaller, lighter and more reliable than competitors products and feature plated cans to prevent rust and provide superior magnet retention. Our special group endbells are smaller and lighter for better handling, and stronger for better durability. These products take a .850 long arm.

M283-6-400 "Big Six" mag G27 set up with 400 long x .480 tall magnets, CNC can and Gold horizontal hoods to fit .490 G27 arms. \$235.19 ea.

## **C12 COBALT SET UPS**

2008 Nat's winner and World record setter! Koford set ups are smaller, lighter and more reliable than competitors products and feature precision CNC with plating cans to prevent rust and provide superior magnet retention. Our special group endbells are smaller and lighter for better handling.

**NEW! M283-6-300C** .480 tall CNC can, horizontal hood ultra short 6 mag magnet Cobalt 12 set up to fit .760 long .490 dia. arms. \$220.19 ea.

**M283X** Quad magnet CNC can ultra short Amateur C12 legal set up. Fits .760 long .490 dia. arm. \$189.33 ea.

### **EUROSPORT SET UPS**

**NEW! M283-6-300E** .480 tall CNC can, vertical hood ultra short 6 mag magnet Eurosport set up to fit .743 long .480 dia. arms. \$220.18 ea.

**NEW! M283-6-250E** .480 tall CNC can, vertical hood ultra short 6 mag magnet Eurosport set up to fit .735 long .480 dia. arms. \$218.11 ea.

**M283RQ-300** CNC can radius tip quad magnet Eurosport set up with .300 long x .480 tall magnets for .300 stack .480 dia. x .760 long Eurosport arms. \$187.08 ea.

**M283RQ-250** CNC can quad magnet Eurosport set up with .250 long x .480 tall radius tip magnets for .240 stack .480 dia. x .760 long Eurosport arms. \$180.27 ea.

### **C CAN CERAMIC SET UPS**

**M547A** Ultra set up with M528 can, .450 long magnets \$33.98 ea.

**M508** Super Feather light weight set-up with gold plated horizontal hoods. \$33.98 ea.

**M508A** Super Feather light weight set up with can ball bearing and gold plated horizontal hoods. \$52.88 ea.

**M508B** Super Feather light weight set up with double ball bearings and gold plated horizontal hoods. \$66.41 ea.

### **G15 SET UPS**

**NEW! M548A** CNC can set up with .450 long Radial magnets for .500 arm. \$136.53 ea.

### **COMPLETE COBALT MOTORS**

**M196-6-G7** "Big six" mag 480 tall CNC open motor with SAW arm. Specify 84-1/2, 74-1/2, 94-1/2, or 64 arm. \$336.18 ea.

**M196-6-27** "Big Six" mag CNC can G27 motor with 32° Tri-Star arm. \$316.05 ea.

**M196D654** G7 drag motor with .480 tall extra thick 6 mags in CNC billet can with high time .459 dia. 54 arm. \$313.03 ea.

**M196-C12AQ** Cobalt 12 motor with tall quad magnets, CNC can and .760 long arm. \$249.49 ea.

### **CERAMIC C CAN WING AND SCALE MOTORS**

**NEW! M527C** Ultra Competitor Motor. Motor is blueprinted and assembled by Koford craftsmen with premium brushes and fully broken in. \$53.39 ea.

**NEW! M527SW** Ultra Super Wasp Motor. Motor is blueprinted and assembled by Koford craftsmen with premium brushes and fully broken in. \$53.39 ea.

**M527A** Ultra G12 motor. New lighter weight can and shorter length but stronger magnets Motor is blueprinted and assembled by Koford craftsmen with premium brushes and fully broken in. \$53.39 ea.

**M527B** Ultra G12 blueprinted motor with shunts and can ball bearing. \$88.45 ea.

**M504D** Super Feather RTR G12 Motor with shunts and can ball bearing. Motor is assembled by Koford craftsmen with premium brushes and fully broken in. \$92.88 ea.

**M504E** Super Feather RTR G12 Motor with shunts and double ball bearings. Motor is blueprinted and assembled by Koford craftsmen with premium brushes and fully broken in. \$106.64 ea.

**M504A** Super Feather RTR Gp 12 motor. Motor is blueprinted and assembled by Koford craftsmen with premium brushes and fully broken in. \$53.39 ea.

**M504B** Super Feather RTR Spec 15 Motor. Motor is blueprinted and assembled by Koford craftsmen with premium brushes and fully broken in. \$53.39 ea.

**M504C** Super Feather RTR Competitor Motor. Motor is blueprinted and assembled by Koford craftsmen with premium brushes and fully broken in. \$53.39 ea.

**M504F** Super Feather RTR Super Wasp Motor. Motor is blueprinted and assembled by Koford craftsmen with premium brushes and fully broken in. \$53.39 ea.

**M504-20RTR** Replacement motor for Koford G20 RTR cars. \$63.37 ea.

## **DRAG 20 MOTORS**

M525-20 Drag 20 motor with famous Koford Tri-Star Drag 20 arm (.518) and C can set up using the new M524 drag can and single piece magnets. Motor is assembled by Koford craftsmen with premium brushes and fully broken in. \$60.35 ea.

M495-20 - Blueprinted drag 20 motor with new radially oriented drag magnets. Motor is assembled by Koford craftsmen with premium brushes and fully broken in. \$69.39 ea.

M550-20 Double ball bearing Drag 20 with silver shunts, Koford radially oriented drag magnets, and high time .510 Koford drag 20 arm. \$120.47 ea.

## **DRAG 12 MOTORS**

M525-12 Drag 12 motor with Koford Tri-Star12 arm and C can set up using the new M524 drag can and single piece magnets. Motor is assembled by Koford craftsmen with premium brushes and fully broken in. \$56.66 ea.

M495-12 Blueprinted drag 12 motor with new radially oriented drag magnets. Motor is assembled by Koford craftsmen with premium brushes and fully broken in. \$65.70 ea.

M550-12 Double ball bearing Drag 12 with silver shunts, Koford radially oriented drag magnets, and high time .510 Koford drag 12 arm. \$116.78 ea.

## **CANS FOR COBALT SET UPS**

**NEW!** M554 .510 tall ultra precision, ultra straight, super strong, fully CNC machined, windowed, G7 can, with .630 ID, perfect for those 24 mag or more set ups. Plated for maximum solder and epoxy bond strength and no rusting. \$45.39 ea.

M555 .480 tall G7 Drag Billet can, with .630 ID, non windowed and designed for maximum flux path. Plated for maximum solder and epoxy bond strength and no rusting. \$42.98 ea.

M521 Short 480 tall .630 ID ground CNC C12 can, fits .300 long magnets. Can is ultra precision, ultra strong, ultra straight. Slightly longer than M496 can for easier spacing. Plated for maximum solder and epoxy bond strength and no rusting. For .760 long arms. \$37.35 ea.

M471A Ultra precision, ultra straight, super strong, fully CNC machined, windowed, Nat's/World's winning open/G27 can, with .630 ID, .450 tall can for full coverage-maximum bonding area. Plated for maximum solder and epoxy bond strength and no rusting. \$39.95 ea.

M471B .480 tall ultra precision, ultra straight, super strong, fully CNC machined, windowed, open/G27 can, with .630 ID. Plated for maximum solder and epoxy bond strength and no rusting. \$44.37 ea.

M471E Light weight scalloped .480 tall can. Scalloped on diagonal edges so as to not reduce motor brace solder area. Ultra precision, ultra straight, super strong, fully CNC machined, windowed, can, with .630 ID. Plated for maximum solder and epoxy bond strength and no rusting. \$48.45 ea.

M496 Short CNC can for Eurosport racing, fits .250 or .300 long Euro magnets. Can is .400 tall, ultra precision, ultra strong, ultra straight. Plated for maximum solder and epoxy bond strength and no rusting. For .760 long arms. \$35.98 ea.

## **CANS FOR CERAMIC SET UPS**

M559 Lightweight, windowed .480 tall, precision CNC machined G15 can, fits M415 and other standard aluminum endbells. \$46.25 ea.

M528 ultra light weight C can for G12 racing. Designed to be strong and produce maximum gauss in ultra light weight design. \$9.59 ea.

M524 Drag C can with optimized design for more gauss than the competition. \$10.95 ea.

M505 Super Feather G12 can(uses 5MM bushing) 1 gram lighter than standard M421 can (not for drag racing). \$9.59 ea.

## **CERAMIC MAGNETS**

M529 Matched 450 long G12 magnets. \$13.50 pr.

M456 Matched .500 long C can magnets. \$13.50 pr.

M532 480 tall x 450 long x .167 thick high gauss radially oriented G15 magnets. Radial orientation produces a radial field like a 10 mag motor but the magnets are one piece for maximum durability and ease of installation. \$35.00 pr.

M533 .165 thick high gauss radially oriented C can drag magnets. Radial orientation produces a radial field like a 10 mag motor but the magnets are one piece for maximum durability and ease of installation. \$19.50 pr.

M518 480 tall x 500 long x .167 thick high gauss radially oriented G15 magnets. Radial orientation produces a radial field like a 10 mag motor but the magnets are one piece for maximum durability and ease of installation. \$35.00 pr.

## **COBALT MAGNETS G7/G27/C12/EUROSPORT**

### **440 LONG**

M277L-440 Singles for G27 light. .418 tall x .068 thick. Use with M278B or M471A can. \$64.98 pr.

### **400 LONG**

**NEW!** M277D6-88-400 drag cobalt magnet segment outers for .480 tall x .400 long x .088 six mags, \$77.98 set.

**NEW!** M277D6C-88-400 Drag 6 centers to make 480 tall x 400 long x .088 six mags. \$38.98 pr.

**NEW!** M277D6-95-400 drag cobalt magnet segment outers for .480 tall x .400 long x .095 six mags, \$82.98 set.

**NEW!** M277D6C-95-400 Drag 6 centers to make 480 tall x 400 long x .088 six mags. \$41.98 pr.

M277N-400 .032 tall x .400 long x .069 thick "Slivers". Center segments for making G27 twenty four magnet motors with M277O400 outers. Not magnetized. \$11.84 pr.

M277O-400 Outer segments for making .480 tall x .400 long x .069 thick G27 twenty magnet motors with M277S-400 slivers. \$35.52 (set of 4)

M277S-400 .042 tall x .400 long x .069 thick "Slivers". Center segments for making G27 twenty magnet motors with M277O400 outers, or 14 magnet motors with M277F8-400 outers. Not magnetized. \$12.05 pr.

M277D6-400 drag cobalt magnet segment outers for .480 tall x .400 long x .081 six mags, \$72.32 set.

M277D6C-400 Drag 6 centers to make 480 tall x 400

long x .081 six mags. \$36.16 pr.

M277TB6-400 Thin "Big Six" outer segments for G27. New Bifurcated tip design and near equal segment size design. Used with M277TBC6-400 to make 480 tall x 400 x.060 thick magnets. \$64.00 set of 4

M277TB6C-400 Thin "Big Six" center segments for G27. Use with M277TB6-400 to make 480 tall x 400 long x 060 thick magnets. \$32.00 pr.

M277B6-400 "Big Six" outer segments for opens or where a tight air gap is desired for G27. Used with M277BC6-400 to make 480 tall x 400 x.071 thick magnets. \$67.00 set of 4

M277B6C-400 "Big Six" center segments for opens or where a tight air gap is desired for G27. Use with M277B6-400 to make 480 tall x 400 long x 071 thick magnets. \$34.00 pr.

M277TF400 Thinner outer magnet segments, .400 long for 8 & 10 mag G27 motors. Use M277TA400 for .480 tall 10 mags or M277C400 tall center segments for .480 tall 8 mags. \$58.99 set of 4.

M277F8400 Thicker outer magnet segments, .400 long for 8 & 10 mag G7 motors. Use M277C400 tall center segments for .480 tall 8 mags or M277A400 for .480 tall 10 mags. \$60.99 set of 4.

M277FQ400 .400 tall x .400 long flat top quads, use with M277A400 for .450 tall 6 mags and M277C400 for .480 tall 6 mags. \$69.99 set.

M277TA400 Thinner center segments .400 long for 6, 8, and 10 mag G27 set ups. Thinner thickness reduces grinding. Adds .050 to magnet height. Not magnetized. \$20.95 pr.

M277A400 Regular center segments for .450 tall x 400 long 6, 8 or 10 mags G27 set ups. Not magnetized. \$20.95 pr.

M277C400 Tall center segments for .480 tall x .400 long 6 or 8 mag G27 set ups when used with M277FQ magnets. Not magnetized. \$ 24.50 pr.

M277Q-400 Angle tip 400 long x 400 tall x .071 thick quads. Use alone or mix and match for multi mag set ups. \$69.99 set.

### **380 LONG**

M277N-380 .032 tall x .380 long x .069 thick "Nanos". Center segments for making G7 twenty four magnet motors with M277O380 outers. Not magnetized. \$11.25 pr.

M277O-380 Outer segments for making .480 tall x .380 long x .069 thick G7 twenty magnet motors with M277S-380 slivers. \$33.90 (set of 4)

M277S-380 .042 tall x .380 long x .069 thick "Slivers". Center segments for making .480 tall G7 twenty magnet, or 510 tall 22 magnet motors with M277O380 outers, or 14 magnet motors with M277F8-380 outers. Not magnetized. \$11.36 pr.

M277B6-380 "Big Six" outer segments. New Bifurcated tip design and near equal segment size design. Use with M277BC6-380 to make 480 tall x .380 long 6 mag open set ups. .071 thick. \$64.00 set of 4

M277B6C "Big Six" center segments. Larger center segment. Use with M277B6-380 to make 480 tall x .380 long 6 mag open set ups. .071 thick. \$32.00 pr.

M277F8380 Outer magnet segments, .380 long for 8 & 10 mag G7 motors. Use M277A380 for .480 tall 10 mags or M277C380 tall center segments for .480 tall 8 mags. .072 thick. \$59.99 set of 4.

M277FQ380 Outer segments for .380 long 6, 8, or 10 mag G7 motors. .072 thick. \$69.99 pr.

M277A380 Regular center segment for making .380 long 6, 8 or 10 magnet set ups. Add .050 to magnet height. .072 thick. \$19.95 pr.

M277C380 Tall center segments for .480 tall x .380 long 6 or 8 mag set ups. Adds .080 to magnet height. .072 thick. \$23.50 pr.

### **350 LONG**

M277F8350 Thicker outer magnet segments, .350 long for 8 & 10 mag G7&C12 motors. Use M277A380 for .480 tall 10 mags or M277C380 tall center segments for .480 tall 8 mags. \$59.99 set of 4.

M277FQ350 Thicker outer segments for .350 long 6,8,10 mag G7 or C12 set ups. \$64.99 set

M277A350 Center segments for .450 tall x .350 long 6, 8 or 10 mag set ups. Adds .050 to magnet height. \$18.50 pr.

M277C350 Tall center segments for .480 tall x .350 long 6 or 8 mag G7/C12 set ups. \$22.50 pr.

### **300 LONG**

**NEW!** M277B6-300 Big Six Eurosport outer segments for .480 tall x .300 long x .071 thick magnets to fit M521 can for 480 arms. Bifurcated tip. \$57.00 set of 4

**NEW!** M277B6C-300 Big Six Eurosport C12 center segments for .480 tall x .300 long x .071 thick magnets to fit M521 can for 480 arms. \$29.50 set of 2

M277TB6-300 Big Six C12 outer segments for .480 tall x .300 long x .063 thick magnets to fit M521 can for 490 arms. Bifurcated tip. \$57.00 set of 4

M277TB6C-300 Big Six C12 center segments for .480 tall x .300 long x .063 thick magnets to fit M521 can for 490 arms. \$29.50 set of 2

M277RQ300 .070 thick quads for Eurosport set ups to fit M521 can. \$65.99 set of 4

M277TF300 Thinner outer segments .300 long for .470 tall 10 mag C12 set ups using the M277TA300 center segments (3 per side). \$52.99 set of 4.

M277TA300 Thinner center segments .300 long for 6, 8 and 10 mag C12/Eurosport set ups. Thinner thickness reduces grinding. Adds .050 to magnet height. \$17.00 pr.

M277FQ-300 .400 tall x .300 long Eurosport flat top quad magnets to fit the new M496 can. For .459 arms. \$62.99 ea.

M277A300 Center segment .300 long. For use with .300 long magnet FQ magnets for .450 tall 6 mag Eurosports. For .459 or .480 arms \$18.00 ea.

M277TQ-300 .480 tall x .300 long x .065 thick C12 quads to fit M521 can. Radius tip. \$59.95 set of 4

## **250 LONG**

**NEW!** M277B6-250 Outer segments for .480 tall x .250 long x .071 thick Eurosport Six magnets. Use with M277TB6C-250 centers in M521 CNC can with .480 arms. \$56.00 set of 4

**NEW!** M277B6C-250 Center segments for .480 tall x .250 long x .071 thick Eurosport magnets. Use with M277TB6-250 outer segments in M521 CNC can with .480 arms. \$29.00 set of 2

M277RQ250 .070 thick x .480 tall quads for Eurosport set ups to fit M521 can. \$59.41 set of 4

M277TT Eurosport .400 tall x .250 long singles. Thin for .480 arms. \$53.99 pr.

M277Q250 Europort angle top magnets .400 tall x .250 long for .459 or .480 arms. \$64.45 set

M277FQ250 Eurosport flat top quad magnets .400 tall x .250 long for .459 or .480 arms. \$64.45 set

M277A250 Center segment .250 long. For use with .250 long magnet FQ magnets for .450 tall 6 mag Eurosports. For .459 or .480 arms \$18.00 ea.

## **EPOXY**

M345 High temperature epoxy magnet adhesive. Single component advanced structural adhesive especially formulated for gluing slot car magnets. Has superior impact strength and high temperature capabilities compared to commonly available magnet adhesives. Oven cure. \$2.98 ea.

M385 High temp. endbell epoxy. Optimized for use in endbells. Oven cure. \$2.98 ea.

## **COBALT MOTOR ENDBELLS**

M287-O Light alloy endbell, with maximum heatsinking capacity for open motors. Fits tall can set ups. \$18.97 ea.

M287-OC Completely assembled vertical hood aluminum endbell for Koford G7 motors. \$44.50 ea.

M287-Q Ultralight superstrong aluminum endbell to fit Koford cobalt set ups. For use in G7 Qualifying/Eurosport where full cooling area of regular M287-O endbell is not required. \$18.98 ea.

M287-QC Completely assembled vertical hood aluminum endbell for Eurosport and Open qualifiers. \$44.50 ea.

M287-HC Completely assembled horizontal hood aluminum endbell for Koford C12 & G27 motors. \$44.50 ea.

M287-T Long tower endbell for capped comms. \$16.97 ea.

M287-TC Completely assembled long tower endbell for capped comms with vertical hoods. \$44.50 ea.

M287-01 Open endbell (larger heat sink area) for short cans. Fits old Koford cans as well as various other manufactures Euro cans. \$16.97 ea.

M287-01Q Euro endbell (smaller heat sink area) for short cans. Fits old Koford cans as well as various other manufactures Euro cans. \$16.97 ea.

## **CERAMIC MOTOR ENDBELLS**

M514 Super Feather G12 endbell kit with Gold plated horizontal hardware. \$13.65 ea.

M506 Blueprinted Super Feather G12 endbell with Gold plated horizontal hardware. Hardware and screws epoxed in place and aligned with alignment bar. Hoods debured with diamond tool \$17.83 ea.

M419 Bare endbell for all Koford C can motors. Comes with holes for M466 screws, fits M507 hardware. Use M509 bearing. \$4.89 ea.

M415 Bare G15 endbell. \$19.95 ea.

M568 Assembled aluminum G15 endbell. \$45.48 ea.

## **HOODS, & HEATSINKS**

M507 Super Feather G12 Gold plated aluminum, horizontal hardware. \$9.98 set. (6 sets per card)

M502 Gold plated vertical hoods for open set ups. \$9.98 ea.

M478 Horizontal brush Gold plated aluminum hoods for all Koford Endbells. Gold plating offers the lowest possible contact resistance providing more power than "copper" hoods on non shunted motors like Box Stocks. These hoods are recommended for use on C12, and G27 motors. For G7 motors use M502 vertical hoods only. \$9.98 set(6 per cd.)

M381 Metal plates for ceramic magnet set ups, fits under M507 hood/bussbar. \$2.98 set(6 per cd.)

## **MISC. ENDBELL ITEMS**

M267 Teflon® spring insulation, perfect fit on springs \$.79 ea.(6 per cd.)

M268 Silver plated shunt wire \$1.29 ea.(6 per cd.)

M281 Self centering ultra light aluminum alloy spring cups for Koford set ups, easy open box of 24 \$1.29 pr.

M282 Insulator for aluminum endbell, box of 24. \$.98 ea.

M329 Silver heat transfer compound. Provides the best heat and current transfer to the brushes, lower viscosity than M295 allows the use of light tension springs. Not for use with soldering irons. \$3.98 ea.

M295 Heat transfer compound. Apply between brush and hood on motors to reduce comm temperatures and increase reliability, also especially effective for removable soldering iron tips. \$1.98 ea.

## **MOTOR SCREWS**

M256 0-80 aluminum endbell and can screws, anodized to resist corrosion, 1/3 the weight of steel. Use standard wheel wrench to tighten. Reduces stripping of endbell threads compared to steel screws. Easy open box of 24. \$.59 ea.

M466 Self tapping Box Stock can & endbell screws. 1/8" long for minimum weight and to provide can screw clearance on Feather set ups. Tighten with standard wheel wrench. box of 24.\$.25 ea.

M300 Thread retaining compound used to keep can screws from vibrating loose on aluminum endbells. Prevents endbell damage by allowing can screws to be tightened until only snug. \$3.60 ea.

## **BRUSHES AND SPRINGS**

M485 - S.B.F. II Horizontal brushes for 16D, Super 16D, Competitor, etc. The Worlds best motor brush, winner of countless World and National championships. These are the brushes which our M476 and M244 brushes are machined from. \$3.50 pr. 6 pr. per card

M486 S.B.F. horizontal brushes in 50 pr bulk pack. \$162.50 pk.

M244 Hard premium brushes for vertical brush hoods, open and group classes. \$3.99 pr.(6 per cd.)

M476 Horizontal brushes for C12, G27 precision ground shunt slot. Now shortened and ready to use. \$3.99 pr. (6 per cd.)

M313 Standard springs for all Koford motors. Spring material withstands 800°F. \$1.98 pr.(6 per cd.)

M276 Heavy tension for Eurosports (more brakes), G7 qualifying or drag racing on very high power. \$1.98 pr.(6 per cd.)

## **MOTOR BEARINGS**

**NEW!** M538 flanged 5mm precision ball bearings for C can endbells \$15.50 ea.

M185R Precision imported 5mm can and endbell ball bearing, has extra low play for better motor performance, and high speed retainer for long life and the minimum possible vibration. \$14.40 ea.

M509 5MM flanged bushing for Super Feather can & endbell. \$.98 ea. (6 sets per card)

M522 6MM oilites to fit Feather can. 6 per card. \$.98 ea.

## **MOTOR BUILDING TOOLS**

M406 Diamond ID Grinding Tool. For perfectly sizing your magnet air gap concentric with the bearing centerline. Each size removes a maximum of .005 on the diameter. Available in .468, .470, .472, .480, .490, .492, .495, .500, .505, .510, .512, .518, .520, .525, .528, .530, .533, .534, .536, and .538 diameters. \$42.99 ea.

M406C Custom size "Gold" diamond ID grinding tool. Each size removes a maximum of .005 on the diameter. Made to order, specify diameter, allow 2 weeks lead time. \$46.00 ea.

M188 Bearing installation tool, .464, .468, .472, .480, .490, .492, .495, .498, .500, .505, .510, .512, .518, .520, .525, .528, .530, .532, .533, .534, .536, .538 \$6.92 ea.

M188C Bearing assembly tool custom sizes. \$9.26 ea.

M523 Eurosport bearing assembly tools. Short length just for Euro set ups. .482, .490, .492. \$8.26 ea.

M523C Custom size Eurosport bearing assembly tools. \$9.95 ea.

M197 Cobalt magnet cleaner. \$1.99 ea.(6 per cd.)

M270 Brush radius tool for fast break in. \$4.49 ea.

M148 Alignment bar with holes, provided with centering holes for both vertical and horizontal style brush hoods. The essential tool for motor assembly, used by motor builders world wide. \$3.39 ea.(6 per cd.)

M439 Flat blade screwdriver in anodized aluminum Hex handle. \$6.25 ea.

## **ARMATURE SPACERS**

M265 .007 phosphor bronze spacers, Ultra precision fit on armature shaft to eliminate vibration due to loose fit, phosphor bronze is very hard but will not stick to magnets. 12 per bag. \$1.99 pk.(6 per cd.)

M266 .003 phosphor bronze spacers, 12 per bag. \$1.99 pk.(6 per cd.)

M249 .007 aluminum arm spacers, 1/3 the weight of bronze, brass or steel. Use between bronze spacers so as to provide necessary support, 12 per bag. \$1.99 pk.(6 per cd.)

## **REBALANCE & SERVICES**

Armature recondition: We have the finest comm truer, custom designed and built by Koford, featuring ball slides and supporting the armature shaft 360° instead of using V

blocks, to produce a much more precise and truly round commutator as well as a brand new balancer which is the most sensitive digital balancer in slot car racing. Our service has been used by countless Nat's winners, Top qualifiers, and used to set total lap and single lap World records. We are careful not to excessively drill your arms when balancing! Treat your armatures to the best. Our service includes cleaning, diamond true, ultra precision balancing, and fast service. Arms should be sent in padded envelope or box only. We accept Master Card and Visa payment and return shipments are by mail or UPS (extra cost)

\$4.50 ea. Add \$8.00 per package for UPS ground return

True comm only, for unbalanced arm racing classes. \$2.00 ea.

Grind stacks, .010" diameter reduction max.: specify diameter. After running on high power or if allowed to free rev or if broken in on excessive voltage open arms will grow in diameter due to centrifugal force and require grinding to the original diameter to maintain magnet clearance. \$1.00 ea.

Grind stacks, more than .010" diameter reduction: specify diameter. \$2.00 ea.

Engrave stacks after grinding. \$.50 ea.

Remagnetize magnets, All cobalts and ceramics. Send magnets in can only. Send in box only, not envelope to avoid crushing by the shipper. \$3.00 ea.

Gauss readings after remagnetizing magnets. \$2.00 ea.

Add \$2.00 per armature or set up for shipping outside the United States.

## **READY TO RUN 27 & DRAG CARS**

M352-B Spray glue G27 car with EDM chassis and treated fish tires. \$390.98 ea.

M352-S G27 car with EDM chassis for glue racing. \$394.78 ea.

M462 Complete funny car with CNC billet can 6 mag drag motor and aluminum chassis. Ready to win out of the box but also easy to drive with great consistency off the line with the rugged Koford aluminum drag chassis. \$499.50 ea.

## **RTR 12 & 20 CARS**

M457A USRA legal Box Stock 12 car with the Koford spring steel chassis and the Nat's winning Gp12 motor. Koford quality and technology comes to Box Stock racing. Features hardened solder on pinion, flatted axle, etc. \$167.20 ea.

M342-2 G20 RTR car. Koford spring steel chassis and high performance Pro components including high performance tires, precision 64 pitch polymer spur, ultralight rubber fronts, graphite guide, ultraflex silicone lead wire, ultra precision plated tool steel axle, and many other components of a high quality level not usually associated with ready to runs. \$170.89 ea.

## **EDM CHASSIS G7/G27 /G15/C12**

The Koford "Beuf Express" family of chassis won nearly every major race in 2008 including G7, Semi Pro, G15, C12, and Box Stock at the Nat's. Competitors offer copies of Koford chassis but the quality is not the same. At the Nat's copy "clone" chassis bent easily, peeled plating under body mounts and many snapped rails. Koford chassis provide a winning combination of speed, predictable behavior and durability. Our chassis are cut on our own wire EDM machines providing the best fit and accuracy of parts and the best strength. Koford has long been the leader and innovator in chassis technology. Our firsts include the modern perimeter chassis, interlocking back end, top brace, clip lead wire retainer, plated chassis, inboard rails, and the EDM aluminum chassis. All Koford EDM chassis are computer designed on our CAD system and produced on our own wire EDM machines for the ultimate in quality. Our aluminum chassis are made from the strongest aluminum alloy available and then are plated with a composite alloy plating which provides solderability and best contribution to structural strength possible (superior to the plating used on many other chassis).

## **G7/G27/G15/C12 CHASSIS**

M531C Shorter length 4.284 long, Beuf Express Ultra G7 chassis. Extra strong G7 chassis for the newest generation of high speed tracks. \$165.80 ea.

M531D Kit version of the above \$116.37 ea.

M414Y 2007/2008 Nat's winner, TQ and World Record Holding Beuf Express Ultra G7 chassis Extra strong G7 chassis for the newest generation of high speed tracks. Shorter 4.375" guide lead and reverse taper outer rails. \$165.80 ea.

M414Z Kit version of the above \$116.37 ea.

M531A Beuf Express Wedge G7 chassis. Extra strong G7 chassis with wedge outer rail configuration. Provides

better resistance to parallelograming compared to perimeter designs. For the newest generation of high speed tracks. 4.334 guide lead. \$165.80 ea.

M531B Kit version of the above \$116.37 ea.

M414W 2008 Nat's winner Pro C12. Ultrashort "Beuf Express" C12/G27 chassis 4.284 long for high speed tracks. Assembled integral guide tongue aluminum chassis. \$155.51 ea.

M414X Kit version of the above. \$106.07 ea.

M414U "Beuf Express Wide Rail Xtra" Extra strong chassis for Superspeedway tracks 4.409 long. Redesigned in 07 for more bite. Short assembled integral guide tongue aluminum G7 chassis. \$165.80 ea.

M414V Kit version of the above. \$116.37 ea.

M414S 2006 Nat's winner Pro G7! Short "Beuf Express Xtra" Extra strength 4.409 long assembled integral guide tongue aluminum G7 chassis redesigned in 05 with tapered center rail and pin tire mounts. \$165.80 ea.

M414T Kit version of the above. \$116.37 ea.

M414K "Beuf Express" Assembled Integral Aluminum chassis. The original "Beuf Express" popular for G7 but also suitable for G27 and C12. Longer 4.534 length. runs well on a wide variety of tracks, especially older flatter and/or slipperier tracks. 2004/2003/2002/2001/2000 Nat's winner! \$155.51 ea.

M414L Kit version of the M414K. \$106.07 ea.

M414M Short Beuf Express assembled chassis 4.409 long. 2004 G27 Nat's and World's winner, 2004 Nat's C12 winner. Longer length and more flex makes this chassis ideal for Olgivie tracks. \$155.51 ea.

M414N Kit version of the short Beuf Express. \$106.07ea.

M414O The 2008/2007 Nat's winning Beuf Express G15 chassis in assembled form, redesigned for 08 with wider center rail and longer 4.475 length for greater speed. \$155.51 ea.

M414P Kit version of the Beuf Express G15 chassis. \$106.07 ea.

## **G12/SPEC 15 CHASSIS**

**NEW!** M530G Assembled short 4.415 long Beuf Express Ultra Gp12 chassis with gear guard \$47.28 ea.

**NEW!** M530H Kit, short 4.415 long Beuf Express Ultra Gp12 chassis with gear guard \$44.13 ea.

M530A Assembled ULTRA Beuf Express Gp-12 chassis. 4.490 long chassis designed for the latest high speed tracks. \$47.28 ea.

M530B Kit version of the 4.490 long ULTRA Beuf Express Gp12 chassis. \$44.13 ea.

M530C Assembled short version of the 2008/2007 Nat's winning ULTRA Beuf Express Gp-12 chassis. 4.415 long chassis designed for the latest high speed tracks. \$47.28 ea.

M530D 2008, 2007 Nat's winner! Kit version of the 4.415 long ULTRA Beuf Express Gp12 chassis. \$44.13 ea.

M530E Assembled ULTRA Beuf Express Gp-12 chassis with gear guard. 4.490 long chassis designed for the latest high speed tracks. \$47.28 ea.

M530F Kit version of the 4.490 long ULTRA Beuf Express Gp12 chassis with gear guard. \$44.13 ea.

M511A Assembled Superspeedway Beuf Express Gp-12 chassis. Wider rails for higher speed and greater strength on high speed tracks. 4.610 long. \$47.28 ea.

M511B Kit version of the Superspeedway Beuf Express Gp12 \$44.13 ea.

M512A 2006 Nats winner Am! Assembled version of the Short Superspeedway Beuf Express Gp-12 chassis. Wider rails for higher speed and greater strength on high speed tracks, 4.535 long. \$47.28 ea.

M512B Kit version of the Short Superspeedway Beuf Express Gp12 \$44.13 ea.

M513A Assembled Short Beuf Express Gp-12 chassis. 4.535 long. \$47.28 ea.

M513B Kit version of the Short Beuf Express Gp12 \$44.13 ea.

M500A Assembled Beuf Express Gp-12 chassis. The 2004 Nat's winner! 4.610 long, longer length and narrower rails provide more bite and make it easier to drive and better handling for tracks that are not highly banked. It features

a top brace, EDM cut, and plating for the ultimate in solder joint strength and corrosion resistance. \$47.28 ea.

M501A Kit version of the Beuf Express Gp12 \$44.13 ea.

M503 Nats winner! SPEC15 chassis also legal for Gp12. EDM'd and plated. 4.646 long. \$47.28 ea.

## **DRAG CHASSIS**

M433 Complete ultralight aluminum funny car drag chassis. Far stronger, more rigid, and consistently fast than other aluminum chassis. Includes wheelybar. \$122.99 ea.

M441 Aluminum funny car chassis in kit form including front tires and wheelybar tires. \$92.99 ea.

## **PILLOW BLOCKS**

M397B EDM spring steel .035" thick pillow blocks with extended tail and top brace pocket. Fits .063 thick chassis. \$11.42 pr.

## **MOTOR BRACES**

M305 EDM spring steel narrow motor brace for G7/27 Horizontal motor brace design provides lower center of gravity, motor protection, and best fit. \$9.33 ea.

M482 C12 motor brace. \$9.33 ea.

M390 Top brace for aluminum chassis cars. Use in combination with motor brace to provide an extremely rigid strong back end. Helps prevent bearing punch out due to wall shots and extends bearing life. \$5.23 ea.

## **OTHER CHASSIS COMPONENTS**

M520 Gp12 bottom weight for Beuf Express chassis \$6.98 ea.

**NEW!** M536 Machined brass retainers (eyelets) for .063 tubing 24 pieces in an easy open box. \$.16 ea.

M394 Front bumper mounts. \$1.39 set(6 per cd.)

M324 Lead wire retainer. Prevents lead wire from dragging on track, solders to middle rail. \$.49 ea.(6 per cd.)

M259 Precut spring temper stainless steel pin tubing, fits full width of car. \$1.25 ea.(6 per cd.)

M453 Precut brass pin tubes. Use for solid mount EDM chassis for the front mount or use for GTP/NASCAR chassis for pin tubes. 24 pieces in easy open box \$.35 ea.

M391 EDM angled aluminum front wheel mounts. Ultra light with maximum solder area! \$2.98 pr.

M303 Precut brass keepers for stainless pin tubing, 24 pieces in easy open box. \$.56 ea.

### **3/32 AXLE TIRES FOR GLUE RACING**

Koford tires were once again winners at the 2008 Nat's, winning 7 classes. Our M472 wing car rims are ultra light drilled, waffled and milled, made of our superstrength aluminum and designed for perfect dynamic balance when used with Koford flatted axles. We have developed our own method of treating rubber which results in a denser, more durable tire, as well as one which removes all residual stresses preventing the warpage and out of round seen in other tires due to residual stresses. Koford tires are the winner of countless World and National championships in every class, and holder of the total lap King track World record. Go with the best!

Selection guide: "Wonder rubber" tires have the longest life and are suitable for all classes of glue racing. Speed rubber is the ultimate qualifying rubber for all classes. WH tires are suitable for lighter glue condition and smaller races, WX (Wonder Extra Hard) or WXX (Wonder Extra Extra Hard) are suitable for heavy glue conditions and highly banked tracks. For G7/G27 racing on the new superfast tracks the stronger G7 (Giant) hub tires are recommended, while for Box/C12/G15 the regular G hubs are suitable. For flatter tracks use B or M hub tires.

M472G7-WXX 2008 Nat's winner, G7 world record holder! Giant (.600) magnesium rim tires for all classes of racing on the new Gerding Kings. Wonder Double Extra hard rubber. Stronger hub for greater crush resistance. \$18.50 pr.

M472G7-WX Giant (.600) magnesium rim tires for all classes of cars on high speed tracks. Especially good for gutters where a little extra bite is needed, or tracks with a little less bite. Extra Hard Wonder rubber. Stronger hub for greater crush resistance. \$18.00 pr.

M472G-WXX Giant hub (.600) magnesium hubs, drilled, milled, and waffled (30 holes) .760 tires with Wonder Double Extra Hard rubber. Group race tires up to C12 for the new Gerding tracks. \$17.98 pr.

M472G-WX Giant hub (.600) magnesium hubs, drilled, milled, and waffled (30 holes) .760 tires with Wonder Extra Hard rubber. Group race tires for high speed tracks when there is not enough glue down to use WXX rubber or for use on the gutters. \$17.48 pr.

**NEW!** M472G-SX Rim width Giant (.600) hubs with Speed rubber for Gp12 up to C12 .760 qualifiers. \$18.20 pr.

472F-SX Full width Speed Rubber, full hub G7 and G27 .760 qualifiers. Ultralight drilled (30 holes), waffled and milled hub Super Size (.500) magnesium rims. \$20.89 pr.

M472B-SX Rim width Speed rubber Gp12 up to C12 .760 qualifiers. Drilled (24 holes), waffled and milled .500 Super Strength Magnesium rims. World Record holder. \$14.00 pr.

M472B-WXX Wonder Extra Extra Hard on Drilled, waffled and milled .500 Super Strength Magnesium rims. Race tires for Ogville tracks for all classes for heavily glued conditions. \$14.00pr.

M472B-WX Wonder Extra Hard on Super Size rim. Super Size .500 diameter rim for lower rolling resistance. Drilled, milled and waffled race tires. Softer than BWXX. Recommended for flatter lower speed tracks. Not recommended for the new Gerding tracks. \$14.00 pr.

M472B-WH Wonder Hard on Drilled, waffled and milled hub Super Size rim. Softer than WX for lighter glue conditions or flatter tracks. \$14.00 pr.

M472M-WXX Extra Extra hard Wonder on medium size .460 dia. Drilled, waffled and milled hub hub. \$14.00 pr.

**NEW!** M472P-SX Rim width Speed rubber Group qualifying tires on .500 dia. plain mag. hubs. Heavier but less expensive than M472B-SX. \$12.00 pr.

M472PWX Plain hub .500 dia. magnesium rims .760 x 3/32 with Wonder Extra Hard rubber. \$12.00 ea.

M472PWXX Plain hub .500 dia. magnesium rims .760 x 3/32 with Wonder Double Extra Hard rubber. \$12.00 ea.

M472PWH Plain hub .500 dia. magnesium rims .760 x 3/32 with Wonder Hard rubber. \$12.00 ea.

M229-760WX Extra hard Wonder ondrilled and milled (not waffled) medium size.450 dia. aluminum hubs. \$9.98 pr.

M229-760WH Hard Wonder on drilled and milled (not waffled) .450 dia. aluminum rims. \$9.98 pr.

### **3/32 AXLE TIRES FOR SPRAY GLUE AND SCALE RACING**

Fish tires are for normal conditions, treated fish are harder and last longer with on a stickier track and with faster cars.

M526-720-3F Full small diameter (.432) hub Fish tires .720 x 3/32 \$9.70 pr.

M551-760F .760 x 3/32 rim width Fish rubber mounted on .432 OD plain hub. Ideal when less bite then full hub tires provide is needed. Good for lower horsepower classes. Economical. \$7.15 pr.

M551-790F .790 x 3/32 rim width Fish rubber mounted on .432 OD plain hub. Ideal when less bite then full hub tires provide is needed. Good for lower horsepower classes. Economical. \$7.15 pr.

M526-760-3WH Full small diameter (.432) hub Wonder rubber tires .760 x 3/32 \$9.70 pr.

M526-760-3F Full small diameter (.432) hub Fish tires .760 x 3/32 \$9.70 pr.

M526-790-3F Full small diameter (.432) hub Fish tires .790 x 3/32 \$9.70 pr.

M526-13/16-3F Full small diameter (.432) hub Fish tires 13/16 x 3/32 \$9.70 pr.

M526-760-3TF Full small diameter (.432) hub Treated Fish (firmer) tires .760 x 3/32 \$10.70 pr.

M526-790-3TF Full small diameter (.432) hub Treated Fish (firmer) tires .790 x 3/32 \$10.70 pr.

M526-13/16-3TF Full small diameter (.432) hub Treated Fish (firmer) tires 13/16 x 3/32 \$10.70 pr.

M472F-760TE Treated (harder) fish rubber .760 full hub scale racing tires. Waffled, drilled and milled for the lightest possible weight. \$20.89 ea.

M472F-760F Fish rubber .760 full hub scale racing tires. Waffled, drilled and milled for the lightest possible weight. \$19.89 ea.

M229-760-3-TF Drilled and milled rim .760 x 3/32 treated fish tires. Slightly firmer and with much longer life then regular fish tires. Winner of Chicagoland Spray glue series in G27,G20 & Box Stock. \$9.99 pr

M229-760SB .760 x 3/32 soft black natural "Fish" rubber on drilled and milled rims. Excellent flat track, no glue tires. \$8.99 pr.

M229-.790-3-F .790 x 3/32 fish tires on drilled and milled rims. \$8.99 pr.

M229-790-3TF .790 x 3/32 treated fish tires on drilled and milled rims. Perfect for outlaw racing. \$9.99 pr.

M472B-760F Rim width fish tires on drilled, milled and waffled rims. Ultrastrength magnesium. \$14.00 pr.

### **TIRES FOR 1/8 AXLES**

M229-812SB 13/16 x 1/8 "Fish" rubber on drilled rims. \$8.99 pr.

M229-790SB .790 x 1/8 "Fish" rubber on drilled aluminum rims. \$8.99 pr.

M229-790-8-TF .790 X 1/8 treated (firmer) fish on drilled rims. \$9.99 pr.

M229-850SB .850 x 1/8 "Fish" rubber on drilled aluminum rims. \$8.99 pr.

M229-13/16-8-TF 13/16 x 1/8 treated "Fish" rubber on drilled rims. Treated tires are ideal for stickier track conditions where they provide longer tire life and better straightaway speed. \$9.99 pr.

M229-850-8-TF .850 x 1/8 treated "Fish" rubber on drilled aluminum rims. \$9.99 pr.

### **FRONT TIRES**

M234I The lightest front on the market. Made from high strength tear resistant rubber, will fit either our M391 EDM front wheel mounts or a straight pin. \$1.98 pr.(6 per cd.)

M234H High impact flexible crosslinked rubber is 1/3 the weight of aluminum but won't melt or corrode when soldering wheel mounts or keepers. Use with straight pin or .025 - .039 wire. \$1.98 pr.(6 per cd.)

### **DRAG TIRES (WHEELIE BAR)**

M425 Gold anodized wheelie bar wheels. \$2.49 pr.(6 per cd.)

### **TIRE TRACTION & BRAID JUICE**

M319 Heavy tire traction. The choice of the Pro's. \$2.98 ea.(box of 12)

M320 Medium tire traction. Ideal for G15 C12 and lower class cars which require a lighter glue. \$2.98 ea.(box of 12)

M384 Light tire traction. \$2.98 ea.(box of 12)

M452 Drag Glue. Blow away the competition! Tests show our glue results in better ET's than existing technology! \$5.50 ea. ( box of 12).

M386 Braid juice. Non flammable and nontoxic. More cooling and lubricity than the others. \$2.49 ea. (box of 12)

### **AXLES**

M156F Premium 3/32 axles with precision ground gear and wheel flats, now with perfect balance with M472 Koford tires and the new Koford gears. Flats keep your wheels on, and compensate for the weight of the set screw for perfect balance. Because the flats do not extend to the end of the axle, your tire will stay on even if the set screw loosens. Machined to the exact length required and rounded, no trimming required, ultra precision fit in bearings to eliminate chatter, the ultimate in straightness. Won't snap like other drill blank axles. The best money can buy. Hardened and ground, then plated with a ultra hard material harder than the axle itself, and then ground again. Plating reduces corrosion, prevents axle rusting solid to bearing, and reduces wear. As used by Team Koford. \$5.49 ea.

M156R 3/32 premium axles, for those who wish to grind their own flats. \$2.49 ea.(6 per cd.)

M445F EDM drilled, 3/32 flatted race/qualifying axle. EDM drilling provides greater strength than laser drilling, axles have individual flats sized for perfect dynamic balance.

Axles are super accurate and are plated and then ground for the ultimate in corrosion resistance. \$19.98 ea.

M340 Premium 3/32 Qualifying flatted hollow axle. Fully hardened and precision ground to  $\pm .0001$  tolerance for the racer who wants the very best. Much higher strength and precision than regular hollow axles, also stronger than laser drilled axles. Flats provide dynamic balance and prevent gear or tire spinning. Now with deeper flats for better balance. \$5.98 ea.

M339 Premium Qualifying 3/32 hollow axle. For those who wish to grind their own flats. \$3.98 ea.

M418 1/8 axles with the famous Koford precision fit. The same straightness and size control which racers have long enjoyed with 3/32 axles now comes to 1/8 axles. \$1.49 ea. (6 per cd.)

### **AXLE SPACERS**

M296 .010 thick 3/32 Phos Bronze axle spacers. Very hard but will not stick to magnets. 12 per bag. \$1.59 pk.(6 per cd.)

M411 1/8 axle spacers with the famous precision Koford fit made from .010 Phos Bronze. 12 per bag. \$2.08 pk.(6 per cd.)

M449 Plastic axle spacer for narrow motor box cars with 3/32 axles. A snug fit on the axle so that it doesn't fall off. Easy open box of 24. \$.69 ea.

M477 .020 thick precision fit stainless spacers for 1/8" axles. 12 per pk. \$2.25 pk.(6 per cd.)

### **AXLE BEARINGS**

M217 Ultra Premium shielded rear axle ball bearings, ribbon retainer and ultra precise internal geometry for smooth rotation and the lowest drag. Highest quality steel and ribbon retainer for long life. \$32.55 pr.

M301 Ultra Premium narrow width, ultralight, open construction, rear axle ball bearings, ribbon retainer and ultra precise internal geometry for smooth rotation and the lowest drag. Highest quality steel and ribbon retainer for long life. \$31.07 pr.

M235 Narrow width, open, ultralight, rear axle ball bearings. \$17.37 pr.

M546 3/32" axle oilites. \$1.15 pr. (6 pr. per card)

## **POWER SUPPLIES & GRINDERS**

**M325H** Ultra high power regulated supply with digital read out and fan. Up to 12v and up to 20 amps. New high temp transformer windings for maximum durability. The M325H is the only slot car power supply that regulates the output voltage so that as a motor breaks in and the current decreases the output voltage does not change. Smaller size and higher current than competitors. It is a compact 4" wide x 5-1/2" deep (not including cord), and is 3" tall. It weighs only 2lb 14 oz. No battery required. Excellent for power hungry accessories like tire truers and comm lathes. The new standard for slot power supplies! \$265.95 ea.

**M413** Grinder/drill runs off of power supply. Unit is small and compact. \$42.95 ea.

**NEW! M574** Precision metal housed grinder for use with M325 power supply. The small size, light weight and precision toolless 3/32" collet make this tool a joy to use and easy to fit in your slot box. Use with M576 grinding wheels or other 3/32" tools. \$160.00 ea.

**NEW! M575** Precision metal housed grinder and variable speed/reversible direction control to plug into standard 120v outlet. Use with M576 grinding wheels or other 3/32" tools. \$310.00 ea.

**NEW! M576** Diamond grinding wheel for M574/M575 grinder. This wheel is solid metal bonded diamond not plated. It will cut any material including Cobalt and Ceramic magnets and last for years. Will not break like aluminum oxide discs. \$60.00 ea.

**NEW! M587** Rubber polishing wheel for M574/M575 grinder. \$13.85 ea.

## **TOOLS**

**NEW! M572** .003 Side play adjusting tool for 3/32 axles. Allows you to quickly get the perfect side play every time. \$1.98 ea.(6 per card)

**M388** .005 Side play adjusting tool for 3/32 and 1/8 axle cars. \$1.98 ea.(6 per cd.)

**NEW! M569** Tech check tool for wing cars. EDM'd from high grade aluminum and black anodized. \$9.98 ea.

**M360** Tall motor change block with cut outs for rear tires. Designed to allow the body to flip over to allow motor changes without removing the front body pins. \$17.24 ea.

**M339** Standard height motor change block with cut outs for rear tires. \$16.12 ea.

**M424** Flux brush. At last a flux brush which is the correct size for slot car racing and will hold up to the attack of acid flux. \$.89 ea.

**M162** Precision gear and wheel wrench with reduced diameter for clearance with plastic gears. \$7.25 ea.

**M163** Improved reduced diameter tips for the above wrench, also fits all standard handles. \$4.25 ea.

**M439** Screw driver using the same plated drill blank tip and anodized aluminum handle as our set screw wrench. \$6.25 ea.

## **GUIDES, LEAD WIRE, BRAID, ETC.**

**M469** Cut down threaded graphite guide with lead wire slots for integral guide tongue chassis with the famous Koford precision fit. \$2.73 ea. (6 per cd.)

**M483** 20 gauge race magnet wire. Heavier with lower resistance than qualifying magnet wire, but much lighter than regular lead wire. \$1.59 ea.(6 per cd.)

**M273** Precision threaded graphite guide with lead wire slots. \$1.22 ea.(6 per cd.)

**M302** Lightweight drilled, anodized aluminum guide nut. \$1.59 ea.(6 per cd.)

**M430** Super ultraflex lead wire. 413 strands for longest possible flex life, with clips. Longer flex life but greater flexibility means less guide return than M210. Excellent for controller trigger connections. \$1.69 set(6 per cd.)

**M437** 432 strand braid. Extra strands for longer braid life. 12 pr. box. \$.68 pr.

**M211** Three foot length of our ultra flex wire. \$3.20 ea.(6 per cd.)

**M431** Three foot length of our super ultraflex lead wire. \$3.20 ea.(6 per cd.)

**M383** The Nat's TQ ultralight qualifying lead wire made from ML magnet wire. Enough for several cars. \$1.49 ea.(6 per cd.)

M321 .010 thick Phosphorous Bronze guide washer. Use to adjust guide height Will not deflect like stacked Teflon® washers. Packaged 6 per bag. \$1.87 pk. (6 per card)

M322 .005 Teflon® guide washer. Use to reduce friction between guide and chassis. Where guide height adjustments are required, use M321. Packaged 6 per bag. \$1.63 pk.(6 per cd.)

## **LANE STICKERS & PINS**

**NEW!** M557 Big bright stickely lane stickers. 6 sheets of 8 colors per package. \$2.75 pk.

**NEW!** M573 Motor box labels \$ .98 set (6 per card)

**NEW!** M545 Short length big head pro body pins. No trimming required! Won't stick past the end of the body mount tube and hang up lead wire or stick marshalls. Ligher weight then long pins. Custom made just for us, the best on the market. 48 pins per package. \$2.59 pk.(6 per cd.)

M376 Big head pro body pins. Ideal length for bending over on swing over front body mounts, or for use on with full width body mounts. Custom made just for us, the best on the market. 48 pins per package. \$2.59 pk.(6 per cd.)

## **KOFORDWEAR**

M204 Koford Engineering T shirt , specify S, M, L, or XL. \$14.00 ea., XXL \$18.50 ea., XXXL \$21.00 ea.

M364 Long sleeve Koford shirt, M only. \$25.00 ea.

M362 Koford Engineering hat. \$10.00 ea.

M363 Koford Engineering apron. \$11.75 ea.

## **OIL**

M327 Premium BB oil. Ultra high temp. synthetic oil with special antiwear and corrosion inhibitor additives. Oil formulation is selected to have the least detrimental effect iif excess gets on brushes. Treat your bearings to the best. \$4.78 ea.

M328 Premium bronze bearing oil. Contains special additives to reduce bronze induced oxidation, and to reduce wear. \$4.98 ea.

## **SPURS**

### **72 PITCH SPURS**

**NEW!** M561-44 72 Pitch, 5 degree, 44 tooth angled polymer spur. Stronger material then plastic gears from other manufactures. Wider face width further increases strength and improves motor angle. Magnesium gear hub. \$5.95 ea.

**NEW!** M560 72 Pitch, straight polymer spur Stronger material then plastic gears from other manufactures. Wider face width further increases strength and improves motor angle. Magnesium gear hub. 43 and 44 tooth. \$5.95 ea.

### **64 PITCH SPURS**

M539-39 Ultraprecision 39 tooth gear with SuperStrength magnesium hub. Same tough material as used on our Nat's winning M428 gears. 64 pitch for greater crash resistance, ease of gear setting and performance. \$10.95 ea.

M540-39 2007 Worlds G7 winner! Blue Dot ultraprecision 39 tooth gear with SuperStrength magnesium hub. Superplastic with 45% higher tensile strength then the material used on as used on the Nat's winning M428 gears, and also a smoother more accurate mesh. 64 pitch for greater crash resistance, ease of gear setting and performance. \$10.95 ea.

M541-39 2008/2007 Nat's G7 winner! Red Dot ultraprecision 39 tooth gears with SuperStrength magnesium hub. Our most accurate spur with 4x better accuracy then competing plastic and metal gears. Superplastic with 28% higher tensile strength then our Nat's winning M429-39 gears. 64 pitch for greater crash resistance, ease of gear setting and performance. \$10.95 ea.

M428 Selected M219 polymer spurs. Each individually tested on our roll tester for total composite error with a master gear traceable to the National Institute of Standards. Only gears with the best mesh are selected, Just the thing for that big race. 2006 Nat's winner G7, G27, G7 TQ. Used to set single lap, and total lap world records. Typically total composite error is 1/2 that of M219 gears. Greater tooth strength then 72 pitch gears. When used with M427 Black Diamond pinions provides better efficiency then 72 pitch gears. 37, 38 teeth. \$6.98 ea.

M429 Select drilled qualifying gears. 38 or 39 tooth \$8.07 ea.

M219 Ultra light polymer alloy gears with hollow set screws for 3/32 axles. Approximately 1/2 the weight of metal gears and offers less friction. More durable than metal gears and will not spin. 37T, 38T, 39T \$3.09 ea.

M358 Drilled qualifying gears. The lightest gears made. Available in 37T, 38T, and 39T. \$4.28 ea.

## **72 PITCH PINIONS**

**NEW!** M556-10 hardened 10 tooth 5 degree angled pinion with boss to prevent solder from flowing into teeth. Designed for use against plastic spurs. \$5.95 ea. (6 per card)

**NEW!** M556-11 hardened 11 tooth 5 degree angled pinion with boss to prevent solder from flowing into teeth. Designed for use against plastic spurs. \$5.95 ea. (6 per card)

**NEW!** M553 hardened 11 tooth 3 degree angled pinion with boss to prevent solder from flowing into teeth. Designed for use against plastic spurs. \$5.95 ea. (6 per card)

## **64 PITCH PINIONS**

**NEW!** M565 9° angled Black Diamond coated 9 tooth 64 pitch pinion. 9° angle ideal for G12/G15 for greater crash resistance. Coating reduces friction and prevents solder from flowing into teeth. For use with plastic spurs. \$5.29 ea.

M542 8 T Black Diamond coated pinion with boss for greater solder surface area for use with G7. Coating reduces friction and prevents solder from flowing into teeth. Use against plastic spurs only. \$8.98 ea.

M543 8 T 3° angled Black Diamond coated pinion with boss for greater solder surface area for use with G7. Coating reduces friction and prevents solder from flowing into teeth. Use against plastic spurs only. \$8.98 ea.

M544 8 tooth 9° Black Diamond coated pinion for use with C can motors and G15. Coating reduces friction and prevents solder from flowing into teeth. \$5.29 ea.

M517 Lock wire for pinned pinions. Soft steel to prevent damage to pinions when bending over \$98 ea.

M515 Pinned 8T Black Diamond coated pinions for G7 racing. Coating reduces friction and prevents solder from flowing into teeth. Use against plastic spurs only. \$10.95 ea.

M516 Pinned 8T 3° angled Black Diamond coated pinions for G7 racing. Angle improves crash resistance of gear by spreading impact load evenly across the full width of the spur. Coating reduces friction and prevents solder from flowing into teeth. Use against plastic spurs only. \$10.95 ea.

M427 Selected M354 Black Diamond coated pinions. Each individually measured on our roll tester for total composite error with a master gear traceable to the National Institute of Standards. Only gears with the most perfect mesh are selected, just the thing for that big race. Multiple Nat's winner! Coating reduces friction and prevents solder from flowing into teeth. Use against plastic spurs only. 8,9,10 teeth. \$7.98 ea.

M354 Black Diamond coated precision hardened pinions. Hi Tech coating on teeth provides low friction and wear. Forget about the hassle of getting solder in the teeth. Solder will not stick to the coating and the coating will not rust. Bores are plated for better solderability. Use against plastic spurs only. 8, 9,10,11 & **NEW!** 12 tooth. \$5.29 ea.

M492-9A Select Black Diamond 3° angled 9 tooth pinion for G27 racing. Coating reduces friction and prevents solder from flowing into teeth. Roll tested for lowest total composite error resulting in the least possible power loss and vibration. \$7.98 ea.

M491-9A Black Diamond 3° angled pinion. Coating reduces friction and prevents solder from flowing into teeth. For Gp12/C12/G27 racing. \$5.29 ea.

M491-8A Black Diamond 3° Angled 8 tooth pinion. Coating reduces friction and prevents solder from flowing into teeth. \$5.29 ea.

M492-8A Select Black Diamond 3° angled 8 tooth pinion. Coating reduces friction and prevents solder from flowing into teeth. Roll tested for lowest total composite error resulting in the least possible power loss and vibration. \$7.98 ea.

M407 Ultra hard steel 64 pitch Red Diamond pinions for use with metal gears. Can also be used with plastic gears. Plated for solderability and coated so that solder will not flow into teeth when soldering. Available in 8, 9, &10 tooth sizes. \$9.98 ea.

M323 Precision plated and hardened pinions, available in 8,9,10,11,12,13, and 14 tooth. Plating eliminates rust and produces a stronger solder joint for less chance of spinning. Features exceptional concentricity providing smoother, more efficient mesh compared to other pinions. Use against plastic spurs only. \$3.69 ea.(6 per cd.)

## **BODIES & DRIVERS**

**NEW!** M214 .007 bodies. G Porsche, H Mercedes, I Peugeot (Nat's winner, Nat's TQ, world record holder)

**NEW!** J Tesla (high speed group body), **NEW!** K Tesla with rib. \$4.69 ea.

**NEW!** M552 Stick on drivers \$1.89 ea. (6 per cd.)

M535I G7 Peugeot in .010 material for extra durability. \$6.98 ea.

## **AIRCONTROL & TAPE**

M203Q7 dipped air kit with true .005 sidedams and .007 spoiler. \$2.04 set(6 per cd.).

M203Q5 Same as above but with .005 spoiler. \$2.39set(6 per cd.).

M203R7 Open class skirted air kit with true .005 sidedams and .007 spoiler but without dip. \$2.39 set(6 per cd.).

M203R5 Same as above but with .005 spoiler. \$2.39 set(6 per cd.).

M423-5 .005 spoiler \$.50 ea. (6 per cd.)

M423-7 .007 spoiler \$.50 ea. (6 per cd.)

M432 Superstrong double stick tape as used by Team Koford racers. Ultra light and strong. Enough material for years of racing. \$39.60 ea.

M455 Super light weight strapping tape. Similar thickness to regular strapping tape but with ultralight polymer reinforcement instead of glass. 1/2 the weight of regular strapping tape. \$4.98 ea.

M464 Highest strength glass strapping tape for body pin reinforcement. \$16.10 ea.

## **ELECTRONIC CONTROLLERS**

**NEW!** M577 25 band Electronic LINEAR controller with circuit breaker protected econo 5 watt variabrake. Linear response provides superior controllability compared to competitive nonlinear controllers. Will handle up to G7 wing cars. For Eurosport use M580 \$179.99 ea.

**NEW!** M578 Same as M577 but with relay \$205.99 ea.

**NEW!** M579 Same as M577 but with Pro varabrake (M271). Pro variabrake has full off position, 12 watt capability, and 3 ohm resistance. \$219.99 ea.

**NEW!** M586 Same as M577 but with Pro varabrake (M271) and relay. Pro variabrake has full off position, 12 watt capability, and 3 ohm resistance. \$245.99 ea.

**NEW!** M580 Large heatsink model 25 band electronic LINEAR controller with circuit breaker protected econo 5 watt variabrake. Linear response provides superior controllability. Larger heat sink handles the higher heat demands of Eurosport racing. \$214.00 ea.

**NEW!** M581 Same as M580 but with Pro variabrake (M271) \$254.00 ea.

**NEW!** M582 Same as M580 but with relay \$240.00 ea.

**NEW!** M583 Same as M580 but with relay and Pro variabrake \$280.00 ea.

## **RESISTOR CONTROLLERS**

M558 External wire resistor controller for D and C can motor. Durable with smooth trigger action. External resistor keeps heat away from the hand. Heavy wires and all soldered connections for low resistance. Floating wiper button. 2 & 3 ohm. \$53.99 ea.

M558D Drag controller with new clear Koford Handle. Copper switch block and unbreakable wire type external resistor will handle the power of any car. Smooth action and long life. Heavy wires and all soldered connections for low resistance. Floating wiper button. This is a price breakthrough for external resistor controllers! \$51.99 ea.

M570 Same as M558D but with full power relay for maximum power. \$88.99 ea.

M562 External wire resistor controller with circuit breaker protected variabake for D and C can motor. Durable with smooth trigger action. External resistor keeps heat away from the hand. Heavy wires and all soldered connections for low resistance. Floating wiper button. 2 & 3 ohm. \$91.98 ea.

M563 External 100 watt aluminum tube resistor controller with economy variabake and self resetting circuit breaker. New clear Koford handle. Heavy wires and all soldered connections for low resistance. Floating wiper button. Suitable for any class of car up to G27. 2&3 ohm \$159.00 ea.

M564 External 100 watt aluminum tube resistor controller with Pro variabake and self resetting circuit breaker. New clear Koford handle. Heavy wires and all soldered connections for low resistance. Floating wiper button. Suitable for any class of car up to G7. 1.5,2&3 ohm \$189.00 ea.

M566-1.5 Pro controller with full power relay, 1.5Ω 100w aluminum tube resistor, Pro variabake for G7 cars and below. \$209.00 ea.

M566-1 Pro controller with full power relay, 1.0Ω 100w aluminum tube resistor, Pro variabake for G27 cars and below. \$209.00 ea.

## **CONTROLLER PARTS**

**NEW!** M584 Transistor for M577/M578/M579 controllers \$10.00 ea.

**NEW!** M585 Transistor for M580/M581/M582/M583 controllers \$11.00 ea.

M567 Compact circuit breaker for all current Koford controllers and also M271 Pro variabake. protects variabake or brake wire on controller from incorrect hookup. Automatically resets when hookup is correct. \$2.49 ea.

M465 Old large circuit breaker. Do not use with new M271 variabakes. \$2.49 ea.

M271 Aluminum body Pro Variabake with full off position and knob. Unit is full 3 ohm for superior control compared to 2 ohm units. The range between 2 ohms and 3 ohms is the most used range! Full off positions means variabake can be turned all of the way off without unclipping brake wire. The full off position is essential for wing car racing.

Aluminum body means no more breakage. Simply the best variabake on the market! \$34.11 ea.

M484 Controller relay. Reduces full on resistance for more power. Suitable for all classes including G7. \$12.95 ea.

M463A Variabake knob with set screw. Aluminum finish. \$1.49 ea.

M463B Variabake knob with set screw. Black anodized finish with white indicator mark. \$2.49 ea.

M463C Control knob with set screw. Aluminum finish. Fits 1/4" shaft used for sensitivity switches, etc. \$1.49 ea.

M463D Control knob with set screw. Black anodized finish with white indicator mark. Fits 1/4" shaft used for sensitivity switches, etc. \$2.49 ea.

M272 100 watt unbreakable aluminum core external resistor. -1 One ohm, -2 Two ohm, -3 Three ohm. \$27.99 ea.

M176 Solid copper alligator clips (3). \$2.49 set(6 per cd.)

M189 Silver contacts for traditional handle controllers. Wiper button for electronic controllers. Provides increased power. \$.98 pr.(6 per cd.)

**NEW!** M571 Controller handle. \$9.99 set.

M368 Replacement resistor for M558/366/M367 controllers. Available in 1 (drag only), 2, & 3 ohm \$19.48 ea.

## **CHOKE**

M332 Choke with rotary switch, 18 gauge high temp. silicone resistance wire, laser engraved machined aluminum housing. \$153.82 ea.

## **SOLDER**

M333 Silver solder with flux core. 5% silver for 82% higher shear strength compared to regular silver solder. \$4.98 ea.

M444 Low temp silver solder for aluminum chassis and motor installation to chassis. \$3.98 ea.