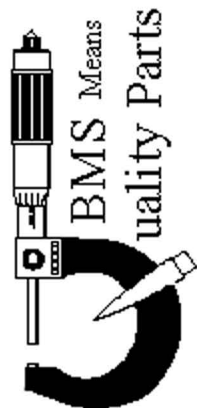


2009 CATALOG Rev A

# Balsa Machining Service



Phone: (630) 257-5420

Fax: (630) 257-0341

Email: [Sales@BalsaMachining.com](mailto:Sales@BalsaMachining.com)

[www.BalsaMachining.com](http://www.BalsaMachining.com)

## MODEL ROCKETS & SUPPLIES

*Aerotech & Estes motors now in  
stock at 10% off list!*

*Check out our generous quantity  
discounts on body tubes and other  
selected supplies!*

**ALL ORDERS PLACED ON-LINE FOR  
STOCK ITEMS SHIPPED NEXT DAY!**

**SAVE \$3.00 on shipping. Order On-Line!**



1/195 scale  
SATURN V

Designed by  
Rockets of the  
World author  
Peter Alway.

\$50.00



Laser-cut tubes, fins, and details



Balsa Machining Service  
11995 Hillcrest Dr.  
Lemont, IL 60439-4145



<p>SHAPE #1</p> <p>Conical</p> <p>AVAILABLE IN SIZE/ PRICE CATEGORIES</p> <p>1 2 3 4 5 6 7 8 9 10 11 12</p>	<p>SHAPE #2</p> <p>Bulkhead</p> <p>AVAILABLE IN SIZE/ PRICE CATEGORIES</p> <p>1 4 7 9 11</p>	<p>SHAPE #3</p> <p>Blank</p> <p>AVAILABLE IN SIZE/ PRICE CATEGORIES</p> <p>1 2 3 4 5 6 7 8 9 10 11 12</p>
<p>SHAPE #4</p> <p>Transition</p> <p>AVAILABLE IN SIZE/ PRICE CATEGORIES</p> <p>1 2 3 4 5 6 7 8 9 10 11 12</p>	<p>SHAPE #5</p> <p>Parabola</p> <p>AVAILABLE IN SIZE/ PRICE CATEGORIES</p> <p>1 2 3 4 5 6 7 8 9 10 11 12</p>	<p>SHAPE #6</p> <p>Tangent Ogive</p> <p>AVAILABLE IN SIZE/ PRICE CATEGORIES</p> <p>1 2 3 4 5 6 7 8 9 10 11 12</p>

All dimensions are in inches

<p>SHAPE #7</p> <p>Cylinder to Conical</p> <p>AVAILABLE IN SIZE/ PRICE CATEGORIES</p> <p>1 2 3 4 5 6 7 8 9 10 11 12</p>	<p>SHAPE #8</p> <p>Cylinder to Tangent Ogive</p> <p>AVAILABLE IN SIZE/ PRICE CATEGORIES</p> <p>1 2 3 4 5 6 7 8 9 10 11 12</p>	<p>SHAPE #9</p> <p>Cylinder to Parabola</p> <p>AVAILABLE IN SIZE/ PRICE CATEGORIES</p> <p>1 2 3 4 5 6 7 8 9 10 11 12</p>
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<p>SHAPE #10</p> <p>Cylinder to Transition</p> <p>AVAILABLE IN SIZE/ PRICE CATEGORIES</p> <p>1 2 3 4 5 6 7 8 9 10 11 12</p>	<p>SHAPE #11</p> <p>Conical w/Blunt Tip</p> <p>AVAILABLE IN SIZE/ PRICE CATEGORIES</p> <p>1 2 3 4 5 6 7 8 9 10 11 12</p>	<p>SHAPE #12</p> <p>Cylinder to Conical w/Blunt Tip</p> <p>AVAILABLE IN SIZE/ PRICE CATEGORIES</p> <p>1 2 3 4 5 6 7 8 9 10 11 12</p>
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SIZE/PRICE CATEGORIES - ONE TO THREE	
<p>ONE</p> <p>.190 &lt;= Q &lt;= .976 1 &lt; L+M+A &lt; 2.5 .5 &lt; M &lt; 1 Q - .25 &lt;= I &lt; Q Contest Balsa (8lb) \$1.85 ea Hard Balsa (15lb) \$3.30 ea</p> <p>Deduct 10% if you order 10 or more. Call if 100 or more.</p>	<p>TWO</p> <p>.190 &lt;= Q &lt;= .976 2.5 &lt; L+M+A &lt; 4 .5 &lt; M &lt; 2 Q - .25 &lt;= I &lt; Q Contest Balsa (8lb) \$2.25 ea Hard Balsa (15lb) \$3.90 ea</p> <p>Deduct 10% if you order 10 or more. Call if 100 or more.</p>
<p>THREE</p> <p>.190 &lt;= Q &lt;= .976 4 &lt; L+M+A &lt; 6.5 .5 &lt; M &lt; 2 Q - .25 &lt;= I &lt; Q Contest Balsa (8lb) \$3.40 ea Hard Balsa (15lb) \$6.20 ea</p> <p>Deduct 10% if you order 10 or more. Call if 100 or more.</p>	<p>FOUR TO SIX</p> <p>FIVE</p> <p>.976 &lt; Q &lt;= 1.95 4 &lt; L+M+A &lt; 7 .5 &lt; M &lt; 2 Q - .25 &lt;= I &lt; Q Contest Balsa (8lb) \$6.30 ea Hard Balsa (15lb) \$11.40 ea</p> <p>Deduct 10% if you order 10 or more. Call if 100 or more.</p>

SIZE/PRICE CATEGORIES - SEVEN TO NINE	
<p>SEVEN</p> <p>1.95 &lt;= Q &lt;= 2.90 4 &lt; L+M+A &lt; 7 .5 &lt; M &lt;= 2 Q - .25 &lt;= I &lt; Q Contest Balsa (8lb) \$14.50 ea Hard Balsa (15lb) \$25.30 ea</p> <p>Deduct 10% if you order 5 or more. Call if 50 or more.</p>	<p>EIGHT</p> <p>1.95 &lt;= Q &lt;= 2.90 7 &lt; L+M+A &lt; 11 .5 &lt; M &lt;= 2 Q - .25 &lt;= I &lt; Q Contest Balsa (8lb) \$23.00 ea Hard Balsa (15lb) \$39.80 ea</p> <p>Deduct 10% if you order 5 or more. Call if 50 or more.</p>
<p>NINE</p> <p>2.90 &lt; Q &lt;= 3.938 7 &lt; L+M+A &lt; 11 .5 &lt; M &lt;= 2 Q - .25 &lt;= I &lt; Q Contest Balsa (8lb) \$27.00 ea Hard Balsa (15lb) \$43.80 ea</p> <p>Deduct 10% if you order 3 or more. Call if 25 or more.</p>	<p>TEN TO TWELVE</p> <p>TEN</p> <p>2.90 &lt; Q &lt;= 3.938 11 &lt; L+M+A &lt; 17.0 .5 &lt;= M &lt;= 3 Q - .25 &lt;= I &lt; Q Contest Balsa (8lb) \$34.00 ea Hard Balsa (15lb) \$54.60 ea</p> <p>Deduct 10% if you order 3 or more. Call if 25 or more.</p>

<p>FOUR</p> <p>.976 &lt; Q &lt;= 1.95 1 &lt; L+M+A &lt; 4 .5 &lt; M &lt; 2 Q - .25 &lt;= I &lt; Q Contest Balsa (8lb) \$4.10 ea Hard Balsa (15lb) \$7.20 ea</p> <p>Deduct 10% if you order 10 or more. Call if 100 or more.</p>	<p>FIVE</p> <p>.976 &lt; Q &lt;= 1.95 4 &lt; L+M+A &lt; 7 .5 &lt; M &lt; 2 Q - .25 &lt;= I &lt; Q Contest Balsa (8lb) \$6.30 ea Hard Balsa (15lb) \$11.40 ea</p> <p>Deduct 10% if you order 10 or more. Call if 100 or more.</p>
<p>SIX</p> <p>.976 &lt; Q &lt;= 1.95 7 &lt; L+M+A &lt; 10.75 .5 &lt; M &lt; 2 Q - .25 &lt;= I &lt; Q Contest Balsa (8lb) \$11.50 ea Hard Balsa (15lb) \$20.30 ea</p> <p>Deduct 10% if you order 10 or more. Call if 100 or more.</p>	<p>SEVEN TO NINE</p> <p>EIGHT</p> <p>1.95 &lt;= Q &lt;= 2.90 7 &lt; L+M+A &lt; 11 .5 &lt; M &lt;= 2 Q - .25 &lt;= I &lt; Q Contest Balsa (8lb) \$23.00 ea Hard Balsa (15lb) \$39.80 ea</p> <p>Deduct 10% if you order 5 or more. Call if 50 or more.</p>

<p>TEN</p> <p>2.90 &lt; Q &lt;= 3.938 11 &lt; L+M+A &lt; 17.0 .5 &lt;= M &lt;= 3 Q - .25 &lt;= I &lt; Q Contest Balsa (8lb) \$34.00 ea Hard Balsa (15lb) \$54.60 ea</p> <p>Deduct 10% if you order 3 or more. Call if 25 or more.</p>	<p>ELEVEN</p> <p>3.938 &lt; Q &lt;= 5.0 7 &lt; L+M+A &lt; 11 .5 &lt;= M &lt;= 3 Q - .25 &lt;= I &lt; Q Contest Balsa (8lb) \$44.00 ea Hard Balsa (15lb) \$72.00 ea</p> <p>Deduct 10% if you order 3 or more. Call if 25 or more.</p>
<p>TWELVE</p> <p>3.938 &lt; Q &lt;= 5.0 11 &lt; L+M+A &lt; 17.0 .5 &lt;= M &lt;= 3 Q - .25 &lt;= I &lt; Q Contest Balsa (8lb) \$49.00 ea Hard Balsa (15lb) \$81.00 ea</p> <p>Deduct 10% if you order 3 or more. Call if 25 or more.</p>	<p>THIRTEEN TO FIFTEEN</p> <p>5.0 &lt; Q &lt;= 6.938 11 &lt; L+M+A &lt; 17.0 .5 &lt;= M &lt;= 3 Q - .25 &lt;= I &lt; Q Contest Balsa (8lb) \$59.00 ea Hard Balsa (15lb) \$91.00 ea</p> <p>Deduct 10% if you order 3 or more. Call if 25 or more.</p>



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 Lemont, IL 60439

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**2009 STOCK KITS & SUPPLIES ORDER FORM and PRICE LIST Sheet 1 of 4 1/2/09 A**

(see separate order form for over 100 different in-stock nose cones & transitions)

\* Quantity discounts apply where an asterisk appears in the price slot of a category header. The letter next to the asterisk is the discount schedule to use. If there no asterisk or letter then there are NO quantity discounts for the items in that category. **Actual freight is charged when discounted items ordered**

**Discount schedule A**

25 to 49 pieces 25% off Tubes of different sizes can be combined to obtain discount on entire lot.  
 50 to 99 pieces 30% off  
 100+ pieces 40% off **34" tubes & coupler stock only!**

**Discount schedule B**

100+ pieces 40% off (Must all be same item)

Cat No	Product Description	Price	Qty	Total
<b>NOSE CONES</b>				
	See separate list for Balsa Cones, Transitions & bulkheads			
<b>EDMONDS AEROSPACE</b>				
DELTE	Deltie	\$9.99		
DELTE-B	B Engine version of Deltie	\$14.95		
MICRO-DEL	Micro-Deltie - 1/4 A engine	\$10.00		
CICI	CICI Boost Glider	\$7.99		
TINEE	Tinee Boost Glider	\$6.99		
GEMINEE	Geminee Boost Glider	\$12.99		
ECEE	Ecee Rocket Glider	\$13.99		
DELTE-TH	Deltie Thunder	\$29.99		
DEECEE-	Dee Cee Thunder	\$27.99		
GEMINE-TH	Geminee Thunder	\$29.99		
ECEE-TH	Ecee Thunder	\$34.99		
AIRSHOW	Deltie Airshow	\$19.99		
TWINSEE	Twinsee dual gliders	\$19.99		
CICISTG2	CICI 2 stage gliders	\$19.99		
TWIN-TH	Twin Thunder	\$32.00		
STAGE2-TH	Stage2 Thunder	\$34.99		
GPACK	G-Pack (10 Elcie's)	\$29.00		
ELCIE	Elcie	\$10.00		
<b>RADIO CONTROLLED</b>				
ARCIEL	Rocket launched RC Aircraft	\$34.99		
HITEC3FM	Complete Radio system for Arciel	\$149.00		
HS55	Hitec HS-55 Micro-lite Servo	\$21.00		
ARC2BAT	Special Rcv Battery for Arciel	\$17.00		
CH53	Charger for Arciel RCV battery	\$14.00		
FEATHERR	Feather Receiver (w/o xtal)	\$35.00		
<b>EDMONDS CONTEST CRAFT</b>				
Ivee2G	Ivee2G	\$9.99		
Ivee2GB	Ivee2gB	\$20.00		
CR/G	CR/G	\$20.00		
IveeRgB	IveeRgB	\$20.00		
MICRO-IVE	Micro-Ivee - 1/4 A motor	\$10.00		
<b>PETER ALWAY</b>				
ARCAS-A	Arcas 1/4.6 scale model	\$13.00		
ASTRO15	Astrobee 1500	\$30.00		
SATURN5	1/195 scale Saturn V	\$50.00		
ZENIT	Zenit	\$15.00		

Cat No	Product Description	Price	Qty	Total
<b>BMS KITS</b>				
SRVVS	School Rocket with Streamer	\$9.99		
SR4SBP	SR4KS bulk pack, 12+, ea	\$5.25		
<b>BMS CLONE KITS</b>				
	Note: BMS clone kits come without instructions. Download from Jim Z's			
K10	Cobra - K10	\$24.95		
K14	Drifter	\$14.00		
K19	Invader	\$14.00		
K20	Mars Snooper - K20	\$34.95		
K24	Gyroc - K24	\$10.00		
F5IV1	F5I Viking 1	\$13.00		
<b>DISPLAY STANDS</b>				
DSRRL1	Laser cut Centuri (each)	\$5.00		
DSRRL5	"Rocket Rack" in, (5 pack)	\$20.00		
DSRRL10	.050" black cardboard. (10 pack)	\$30.00		
DSRR2B1	Laser cut Centuri (each)	\$6.00		
DSRR2B5	"Rocket Rack" in, (5 pack)	\$25.00		
DSRR2B10	1/16" Basswood (10 pack)	\$35.00		
<b>LASER CUT FIN SETS</b>				
LFOTS	"Estes Orbital transport" set	\$7.00		
LFK20	"Mars Snooper" fin set	\$5.00		
<b>ENGINE HOOKS * B</b>				
BMSEH175	1.75" Long EH for Estes 1/2A	\$0.50		
BMSEH275	2.75" Long EH for Estes Athru D	\$0.50		
BMSEH375	3.75" Long EH for Estes E	\$0.60		
<b>LAUNCH LUGS * B</b>				
LL18-125	1/8" x 125"	\$0.20		
LL316-200	3/16" x 2"	\$0.25		
LL18-1200	1/8" x 12"	\$0.75		
LL316-1200	3/16 x 12"	\$0.75		
LL14-300	0.316x0.280x.018x3" (1/4" lug)	\$0.25		
LL14-3400	0.316x0.280x.018x34" (1/4" lug)	\$1.50		
<b>LAUNCH LUG BULK PACKS</b>				
LL18-1CP	100 piece pack of LL18-125	\$10.00		
LL18-1MP	1,000 piece pack of LL18-125	\$60.00		
LL316-2CP	100 piece pack of LL316-200	\$12.00		
LL316-2MP	1,000 piece pack of LL316-200	\$70.00		
<b>SCREW EYES &amp; BOLTS * B</b>				
SE-3/214	Very Small (3/16" ID)	\$0.20		
SE-3/114	Small (1/4" ID)	\$0.20		
SE-3/12	Medium (3/8" ID)	\$0.25		
ME-10769	3/8" id eye bolt & nut (3/16" thd)	\$0.75		
ME-10800	9/16" id eye bolt & nut (1/4" thd)	\$0.90		
<b>TOTAL THIS PAGE</b>				\$

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**Balsa Machining Service**  
 11995 Hillcrest Dr.  
 Lemont, IL 60439

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**2009 STOCK KITS & SUPPLIES ORDER FORM and PRICE LIST Sheet 2 of 4 1/2/09 A**

(see separate order form for over 100 different in-stock nose cones & transitions)

Cat No	Product Description	Price	Qty	Total
<b>ELASTIC SHOCK CORD</b>				
ESC18-10	Elastic shock cord 1/8" x10 ft.	\$1.00		
ESC14-10	Elastic shock cord 1/4" x10 ft.	\$2.00		
<b>KEVLAR CORD</b>				
KC28-10	10 ft of 28 lb Kevlar	\$1.00		
KC50-10	10 ft of 50 lb Kevlar	\$1.50		
KC75-10	10 ft of 75 lb Kevlar	\$2.00		
KC200-10	10 ft of 200 lb Kevlar	\$3.00		
KC400-10	10 ft of 400 lb Kevlar	\$3.50		
<b>PARACHUTES</b>				
CHUTE12-P	12" 1 mil poly chute kit	\$1.50		
CHUTE18-P	18" 1 mil poly chute kit	\$2.00		
CHUTE9-N	9" 1.7 oz nylon-6 shroud lines	\$4.25		
CHUTE12-N	12" 1.7 oz nylon-6 shroud lines	\$5.25		
CHUTE15-N	15" 1.7 oz nylon-6 shroud lines	\$6.25		
CHUTE18-N	18" 1.7 oz nylon-6 shroud lines	\$7.25		
CHUTE24-N	24" 1.7 oz nylon-6 shroud lines	\$9.25		
CHUTE30-N	30" 1.7 oz nylon-8 shroud lines	\$12.95		
CHUTE36-N	36" 1.7 oz nylon-8 shroud lines	\$15.95		
<b>BODY TUBES * A</b>				
T2-34	0.246x0.220x.013x34	\$1.50		
T2plus-34	0.281x0.255x.013x34	\$1.50		
T14LL-34	0.316x0.280x.018x34 1/4 inch	\$1.50		
T3-34	.375x.349x.013x34 (3/8 O.D.)	\$1.50		
T4-34	.448x.432x.013x34 Apogee micro	\$1.50		
T4plus-34	.478x.452x.013x34 slips over T4	\$1.50		
T5-34	.544x.518x.013x34 Estes mini A	\$1.50		
T5-9	.544x.518 x.013 x9 Estes BT5	\$1.00		
T5plus-34	.585x.559x.013x34 slips over T5	1.75		
T20-34	.736x.710x.013x34 Estes 18mm	\$1.75		
T20Q-34	.787x.748x.039x34 MP C/Quest	\$2.00		
T908-34	.908x.865x.022x34 Centuri ST-8	\$2.00		
T50-34	.976x.950x.013x34 Estes 24mm	\$2.00		
T50H-34	.990 x.950 x.020 x34 HeavyWall	\$2.25		
T50-24HV	.990 x.950 x.020 x24 HeavyWall	\$2.00		
T50MF-34	1.000x0.950x.025x34 metal foil	\$3.00		
T52-34	1.014 x .988x.013x34	\$2.50		
T104-34	1.040x1.00x.020 x34 Centuri ST-10	\$2.00		
T52H-34	1.21 x1.14x.035x34 29mm motor mount	\$3.00		
T52HMF-34	foil lined version of above tube	\$4.00		
T55-34	1.325x1.283x.021 Estes size	\$2.75		
T38-34	1.635x1.525x.055x34 38mm motor mount	\$5.00		
T60-34	1.637x1.595x.021 Estes size	\$3.50		
T188-34	1.880x1.800x.040x34 (Aerotech)	\$5.00		
T204-34	2.024x2.0x.021x34 Centuri ST-20	\$4.00		
T70-34	2.217x2.175x.021x34 Estes size	\$4.00		
T70H-34	2.245x2.175x.035x34 (heavy wall)	\$5.00		
T80-34	2.60x2.558x.021x34 Estes size	\$6.00		
T80H-34	2.640x2.558x.041x34 (heavy wall)	\$7.00		
T300-34	3.000x2.930x.035x34	\$8.00		
<b>TUBE COUPLERS</b>				
C5-2	.516x.474x2" T5 coupler	\$0.25		
C20-3	.708x.666x3" T20 coupler	\$0.25		
C50-1	.948x.88x1" T50 coupler	\$0.25		
C50-4	.948x.88x4" T50 coupler	\$0.50		
continued on next column				

Cat No	Product Description	Price	Qty	Total
<b>TUBE COUPLERS - continued</b>				
C52H-4	1.137x.977x4" T52H coupler	\$0.50		
C55-4	1.280x1.212x4" long T55 coupler	\$0.50		
C60-4	1.592x1.524x4" T60 coupler	\$0.65		
C188-4	1.796x1.728x4" T188 coupler	\$0.75		
C204-4	1.997x1.929x4" T204 coupler	\$0.75		
C70-4	2.172x2.104x4" T70 or T70H coup	\$0.75		
C80-4	2.554x2.474x4" T80 or T80H coup	\$1.00		
C80-6	2.554x2.474x6" T80 or T80H coup	\$1.50		
C300-6	2.925x2.855x6" T300 coupler	\$2.00		
<b>COUPLER STOCK - 34 inches * A</b>				
C5-34	.516x.474x34" T5 coupler stock	\$3.00		
C20-34	.708x.666x34" T20 coupler stock	\$3.50		
C50-34	.948x.88x34" T50 coupler stock	\$4.00		
C52H-34	1.137x.977x34" T52H coupler stk	\$5.00		
C55-34	1.280x1.212x34" T55 coupler stk	\$5.00		
C60-34	1.592x1.524x34" T60 coupler stk	\$6.00		
C188-34	1.796x1.728x34" T188 coupler stk	\$7.00		
C204-34	1.997x1.929x34" T204 coupler stk	\$8.00		
C70-34	2.172x2.104x34" T70 or T70H stk	\$8.00		
C80-34	2.554x2.474x34" T80 or T80H stk	\$9.00		
C300-34	2.925x2.855x34" T300 coupler stk	\$10.00		
<b>MOTOR TUBES &amp; ADAPTERS</b>				
T20-EMT	.736x.710x.013x2.75 Motor Tube	\$0.25		
T50-EMT	.976x.950x.013x2.75 Motor Tube	\$0.25		
T50H-EMT	.990x.950x.020x2.75 Motor Tube	\$0.25		
T50HE-MT	.990x.950x.020x3.75 Motor Tube	\$0.30		
T50F-MT	1.000x.950x.025x2.75 Foil Motor	\$0.30		
T50FE-MT	1.000x.950x.025x3.75 Foil Tube	\$0.35		
18/24EA	18mm to 24mm Motor Adapter Kit	\$2.50		
<b>ENGINE BLOCKS *B</b>				
E B13-P	.516x.376x.25thk paper-Mini Eng	\$0.15		
E B18-P	.708x.542x.25thk paper - fits T20	\$0.15		
E B24-P	.946x.736x.25thk paper - fits T50	\$0.15		
E B29-P	1.137x.977x.50thk paper-fits T52H	\$0.20		
<b>CENTERING RINGS</b>				
-P=Paper, -F=fiber, -V=1/8 lite ply				
-XX = See Material code chart				
CR23-F	.348x.250x.05thk fiber	\$0.20		
CR24-F	.420x.250x.05thk fiber	\$0.20		
CR25-F	.516x.250x.05thk fiber	\$0.20		
CR220-F	.708x.250x.05thk fiber	\$0.20		
CR2+3-F	.348x.281x.05thk fiber	\$0.20		
CR2+4-F	.420x.281x.05thk fiber	\$0.20		
CR2+5-F	.518x.281x.05thk fiber	\$0.20		
CR34-F	.420x.376x.05thk fiber	\$0.20		
CR35-P	.516x.376x.25thk paper	\$0.20		
CR35-F	.516x.376x.05thk fiber	\$0.20		
CR320-F	.708x.376x.05thk fiber	\$0.20		
CR45-F	.516x.450x.05thk fiber	\$0.20		
CR420-F	.708x.450x.05thk fiber	\$0.20		
CR450-F	.95x.450x.05thk fiber	\$0.20		
CR520-P	.708x.542x.25thk paper	\$0.15		
CR520-F	.703x.546x.05thk fiber	\$0.20		
Continued on next page				
<b>TOTAL THIS PAGE \$</b>				

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**2009 STOCK KITS & SUPPLIES ORDER FORM and PRICE LIST Sheet 3 of 4 1/2/09 A**

(see separate order form for over 100 different in-stock nose cones & transitions)

Cat No	Product Description	Price	Qty
<b>CENTERING RINGS - continued</b>			
CR520-WV	.703x.546x.125thk lite-ply	\$0.25	
CR0550-F	.946x.546x.05thk fiber	\$0.20	
CR0550-WV	.946x.546x.125thk lite ply	\$0.25	
CR0555-F	1.283x.546x.05thk fiber	\$0.25	
CR0560-F	1.595x.546x.05thk fiber	\$0.25	
CR2050-P	.946x.736x.25thk paper	\$0.15	
CR2050-P1	.946x.736x.25thk paper	\$0.15	
CR2050-F	.946x.736x.05thk fiber	\$0.25	
CR2050-WV	.946x.736x.125thk lite ply	\$0.25	
CR2050-TVV	.946x.736x.25thk lite ply	\$0.30	
CR20104-F	1.005x.736x.05thk fiber	\$0.25	
CR2055-F	1.283x.736x.05thk fiber	\$0.25	
CR2055-WV	1.283x.736x.125thk lite-ply	\$0.30	
CR2060-F	1.593x.736x.05thk fiber	\$0.30	
CR2060-WV	1.593x.736x.125thk lite ply	\$0.35	
CR2070-F	2.178x.736x.05thk fiber	\$0.35	
CR2080-F	2.558x.736x.05thk fiber	\$0.45	
CR20204-F	2.042x.736x.05thk fiber	\$0.50	
CR20101-F	3.896x.736x.05thk fiber	\$0.55	
CR20300-WV	1.593x.736x.125thk lite ply	\$1.25	
CR3854-WV	2.135 x 1.6355x.25thk lite-ply	\$0.85	
CR38300-WV	2.930 x 1.635x.25thk lite-ply	\$1.75	
CR5052H-P	1.137x.977x.25thk paper	\$0.20	
CR5052H-P1	1.137x.977x.50thk paper	\$0.20	
CR5052H-F	1.14x.980x.05thk fiber	\$0.25	
CR5055-P	1.283x.978x.25thk paper	\$0.20	
CR5055-F	1.283x.978x.05thk fiber	\$0.25	
CR5055-WV	1.283x.978x.125thk lite-ply	\$0.30	
CR50H55-WV	1.283x.990x.125thk lite-ply	\$0.30	
CR5060-F	1.593x.978x.05thk fiber	\$0.30	
CR5060-WV	1.593x.978x.125thk lite-ply	\$0.35	
CR50H60-F	1.593x.990x.05thk fiber	\$0.35	
CR5070-F	2.178x.978x.05thk fiber	\$0.35	
CR50MF70-WV	2.178x1.00x.05thk lite-ply	\$0.40	
CR5070-WV	2.178x.978x.125thk lite-ply	\$0.40	
CR50H70-WV	2.178x.990x.125thk lite-ply	\$0.40	
CR5080-F	2.556x.978x.05thk fiber	\$0.45	
CR5080-WV	2.556x.978x.05thk lite-ply	\$0.55	
CR50H80-WV	2.556x.990x.05thk lite-ply	\$0.55	
CR50MF80-WV	2.556x1.00x.05thk lite-ply	\$0.55	
CR50101-F	3.896x.978x.05thk fiber	\$0.55	
CR52H38-WV	1.525x1.210x.125thk lite ply	\$0.40	
CR52H55-F	1.283x1.215x.05thk fiber	\$0.30	
CR52H60-F	1.593x1.215x.05thk fiber	\$0.30	
CR52H70-WV	2.175x1.210x.125thk lite ply	\$0.40	
CR52H80-WV	2.558x1.215x.125thk lite-ply	\$0.55	
CR52H100-130	2.930x1.215x.25thk lite-ply	\$1.25	
CR5560-F	1.592x1.283x.05thk fiber	\$0.25	
CR5560-WV	1.592x1.283x.125thk lite ply	\$0.30	
CR5570-F	2.217x1.283x.05thk fiber	\$0.35	
CR5570-WV	2.217x1.283x.125thk lite ply	\$0.40	
CR5580-F	2.558x1.283x.05thk fiber	\$0.45	
CR55101-F	3.896x1.283x.05thk fiber	\$0.85	
CR6070-F	2.175x1.637x.05thk fiber	\$0.35	
CR6070-WV	2.175x1.637x.125thk lite ply	\$0.40	
CR6080-F	2.558x2.558x.05thk fiber	\$0.45	
CR6080-WV	2.558x2.558x.125thk lite ply	\$0.50	
CR60101-F	3.896x1.595x.05thk fiber	\$0.85	
CR7080-F	2.558x2.175x.05thk fiber	\$0.45	
CR7080-WV	2.558x2.175x.125thk lite ply	\$0.45	
CR80300-WV	2.930x2.600x.125thk lite ply	\$1.25	

Cat No	Product Description	Price	Qty
<b>CENTERING RING Bulk packs</b>			
CR35-PCP	100 piece bulk pack of CR35-P	\$10.00	
CR35-PMP	1,000 piece bulk pack of CR35-P	\$50.00	
CR520-PCP	100 piece bulk pack of CR520-P	\$10.00	
CR520-PMP	1,000 piece bulk pack of CR520-P	\$50.00	
CR2050PCP	100 piece bulk pack of CR2050-P	\$10.00	
CR2050PMP	1,000 piece bulk pack of CR2050-P	\$50.00	
CR2050PTCP	100 piece bulk pack of CR2050-P1	\$10.00	
CR2050PTMP	1,000 piece bulk pack of CR2050-P1	\$50.00	
CR5055-PCP	100 piece bulk pack of CR5055-P	\$12.50	
CR5055-PMP	1,000 piece bulk pack of CR5055-P	\$62.50	
<b>CLUSTER MTR MOUNT RINGS</b>			
-F=fiber, -WV=1/8 lite ply			
M2C2070F	2-T20 tubes in T70 (tubes centered)	\$0.55	
M5C2080-F	5-T20's centered in a T80 (fiber)	\$1.00	
M5C2080-WV	5-T20's centered in a T80 (wood)	\$1.10	
M2T5070-F	2-T50 tubes in T70 (tubes touching)	\$0.55	
M2T5070-WV	2-T50 tubes in T70 (tubes touching)	\$0.60	
M2C5070-F	2-T50 tubes in T70 (tubes centered)	\$0.55	
M2C5070-WV	2-T50 tubes in T70 (tubes centered)	\$0.60	
M3T5070-F	3-T50 tubes in T70 (tubes touching)	\$0.55	
M3T5070-WV	3-T50 tubes in T70 (tubes touching)	\$0.60	
M2T5080-F	2-T50 tubes in T80 (tubes touching)	\$0.75	
M2T5080-WV	2-T50 tubes in T80 (tubes touching)	\$0.80	
M2C5080-F	2-T50 tubes in T80 (tubes centered)	\$0.80	
M2C5080-WV	2-T50 tubes in T80 (tubes centered)	\$0.90	
M3A5080-F	T50 & 2-T20's in a T80 (fiber)	\$0.80	
M3A5080-WV	T50 & 2-T20's in a T80 (wood)	\$0.90	
M3T5080-F	3-T50 tubes in T80 (tubes touching)	\$0.80	
M3T5080-WV	3-T50 tubes in T80 (tubes touching)	\$0.90	
M3C5080-F	3-T50 tubes in T80 (tubes centered)	\$0.80	
M3C5080-WV	3-T50 tubes in T80 (tubes centered)	\$0.90	
M4C5080-F	4-T50 tubes in T80 (tubes centered)	\$0.90	
M4C5080-WV	4-T50 tubes in T80 (tubes centered)	\$1.00	
M4T5080-F	4-T50 tubes in T80 (tubes touching)	\$0.90	
M4T5080-WV	4-T50 tubes in T80 (tubes touching)	\$1.00	
M2T50300-F	2-T50 tubes in T300 (tubes touching)	\$1.25	
M2T50300-WV	2-T50 tubes in T300 (tubes touching)	\$1.25	
M3T50300-F	3-T50 tubes in T300 (tubes touching)	\$1.25	
M3T50300-WV	3-T50 tubes in T300 (tubes touching)	\$1.25	
M3C50300-F	3-T50 tubes in T300 (tubes centered)	\$1.25	
M3C50300-WV	3-T50 tubes in T300 (tubes centered)	\$1.25	
M4C50300-F	4-T50 tubes in T300 (tubes centered)	\$1.25	
M4C50300-WV	4-T50 tubes in T300 (tubes centered)	\$1.25	
M4T50300-F	4-T50 tubes in T300 (tubes touching)	\$1.25	
M4T50300-WV	4-T50 tubes in T300 (tubes touching)	\$1.25	
M4T50MF300-WV	4-T50MF tubes in T300 (wood)	\$1.25	
M2T5280-WV	2-T52H tubes in a T80 (wood)	\$0.90	
<b>SOLID BULKHEADS</b>			
BHTxx-x fit inside body tubes			
BHCxx-x fit inside couplers			
BHT70-F	2.175x.05thk fiber bulkhead	\$0.30	
BHT70-WV	2.175x.125thk lite-ply bulkhead	\$0.40	
BHC70-F	2.104x.05thk fiber bulkhead	\$0.30	
<b>Continued on next page</b>			
<b>TOTAL THIS PAGE</b>		\$	

\* Quantity discounts apply where an asterisk appears in the price slot of a category header. The letter next to the asterisk is the discount schedule to use. See the discount schedule table that appears at the beginning of the order form.





**Balsa Machining Service**  
 11995 Hillcrest Dr.  
 Lemont, IL 60439

**Phone: 630-257-5420**  
**Fax: 630-257-0341**  
**Sales@BalsaMachining.com**  
**www.BalsaMachining.com**

**2009 STOCK KITS & SUPPLIES ORDER FORM and PRICE LIST Sheet 4 of 4 1/2/09 A**

(see separate order form for over 100 different in-stock nose cones & transitions)

Cat No	Product Description	Price	Qty
<b>SOLID BULKHEADS-continued</b>			
BHC70-WV	2.104x.125thk lite-ply bulkhead	\$0.40	
BHT80-F	2.558x.05thk fiber bulkhead	\$0.50	
BHT80-WV	2.558x.125thk lite-ply bulkhead	\$0.60	
BHC80-F	2.474x.05thk fiber bulkhead	\$0.50	
BHC80-WV	2.474x.125thk lite-ply bulkhead	\$0.60	
BHT300-WV	2.930x.125thk lite-ply bulkhead	\$0.95	
BHC300-WV	2.855x.125thk lite-ply bulkhead	\$0.95	
<b>BALSA SHEETS</b>			
BSH132336	1/32"x3"x36" Balsa Sheet	\$1.30	
BSH132436	1/32"x4"x36" Balsa Sheet	\$1.95	
BSH116336	1/16"x3"x36" Balsa Sheet	\$1.28	
BSH116436	1/16"x4"x36" Balsa Sheet	\$1.99	
BSH332336	3/32"x3"x36" Balsa Sheet	\$1.49	
BSH332436	3/32"x4"x36" Balsa Sheet	\$2.45	
BSH18336	1/8"x3"x36" Balsa Sheet	\$1.90	
BSH18436	1/8"x4"x36" Balsa Sheet	\$2.75	
BSH18636	1/8"x6"x36" Balsa Sheet	\$4.19	
BSH316336	3/16"x3"x36" Balsa Sheet	\$2.20	
BSH316436	3/16"x4"x36" Balsa Sheet	\$2.99	
BSH316636	3/16"x6"x36" Balsa Sheet	\$4.80	
BSH14336	1/4"x3"x36" Balsa Sheet	\$2.80	
BSH14436	1/4"x4"x36" Balsa Sheet	\$4.25	
<b>BALSA SQUARES</b>			
BSQ136	1" x 1" x 36" Balsa Square	\$3.50	
BSQ1536	1.5" x 1.5" x 36" Balsa Square	\$6.00	
BSQ236	2" x 2" x 36" Balsa Square	\$9.00	
BSQ336	3" x 3" x 36" Balsa Square	\$22.00	
BSQ436	4" x 4" x 36" Balsa Square	\$40.00	
BSQ536	5" x 5" x 36" Balsa Square	\$50.00	
BSQ636	6" x 6" x 36" Balsa Square	\$60.00	
<b>PLYWOOD</b>			
PLY132-16	1/32"x12"x16" 3 ply birch	\$5.60	
PLY116-16	1/16"x12"x16" 3 ply birch	\$5.60	
PLY332-16	3/32"x12"x16" 3 ply birch	\$6.00	
PLY18-16	1/8"x12"x16" 3 ply birch	\$7.60	
PLY18L-16	1/8"x12"x16" 3 ply poplar Lite-Ply	\$3.15	
PLY14-16	1/4"x12"x16" 5 ply birch	\$6.00	
PLY14L-16	1/4"x12"x16" 5 ply poplar Lite-Ply	\$3.90	
<b>BASSWOOD</b>			
BWV132324	1/32"x3"x24" Basswood sheet	\$1.30	
BWV132424	1/32"x4"x24" Basswood sheet	\$2.15	
BWV116324	1/16"x3"x24" Basswood sheet	\$1.40	
BWV116424	1/16"x4"x24" Basswood sheet	\$2.25	
BWV332324	3/32"x3"x24" Basswood sheet	\$1.60	
BWV332424	3/32"x4"x24" Basswood sheet	\$2.35	
BWV18324	1/8"x3"x24" Basswood sheet	\$1.85	
BWV18424	1/8"x4"x24" Basswood sheet	\$2.65	
BWV316324	3/16"x3"x24" Basswood sheet	\$3.05	
BWV316424	3/16"x4"x24" Basswood sheet	\$3.00	
BWV14324	1/4"x3"x24" Basswood sheet	\$2.45	
BWV14424	1/4"x4"x24" Basswood sheet	\$3.75	
BWV3836	3/8"x36" Basswood Dowel	\$0.95	

Cat No	Product Description	Price	Qty
<b>TRIM MONOKOTE (Adhesive)</b>			
MKTR-12	Tomato Red (15" x 12")	\$2.00	
MKOR-12	Orange (15" x 12")	\$2.00	
MKBL-12	Black (15" x 12")	\$2.00	
MKPR-12	Primrose Yellow (15" x 12")	\$2.00	
MKCM-12	Chrome Mirror-metalized (15" x 12")	\$4.00	
<b>MSC</b>			
MWVAD	Wadding - Gallon Ziploc bag full	\$3.00	
<b>ESTES</b>			
ES2215	Estes Porta-Pad® II Launch Pad	\$24.00	
ES2220	Estes Electron Beam® Launch	\$25.00	

**Additional items**

Cat No	Product Description	Price	Qty	Total
<b>TOTAL THIS PAGE \$</b>				

Send order to:

Balsa Machining Service      TOTAL (all pages)  
 11995 Hillcrest Drive      7.75% tax (IL res only)  
 Lemont, IL 60439-4145      \*\*shipping & handling

<b>** \$9.00</b>
<b>Total</b>

**Add \$20.00 Hazmat fee if applicable**

\*\* Canada, Mexico, Alaska, Hawaii & International call or email for rate

\*\* Save \$3.00 on shipping and handling by placing your order on-line using our secure shopping cart with a flat \$6.00 per order shipping charge and your order ships the next day. This applies to contiguous 48 states only!

Ship to:

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Phone \_\_\_\_\_

email \_\_\_\_\_

Credit card # \_\_\_\_\_ exp. \_\_\_\_\_

(Circle one)

Visa

Master Card

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**Balsa Machining Service**  
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 Lemont IL 60439

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STOCK CONES LIST page 1 of 2 1/2/09

ALL Nose cones are Balsawood unless otherwise specified

Part Number	Description	Fts	OD	ID	Length	Price	Qty	Total\$	Part Number
BMS20G	Slightly longer version of 20B	BT20	.736	.710	1.750	\$1.95			BMS20G
BMS20V2B	V2 Boat-tail with 10mm bored hole	BT20	.736	.710	1.625	\$2.55			BMS20V2B
BMS20V2C	V2 Nose Cone whored hole	BT20	.736	.710	2.250	\$2.55			BMS20V2C
BMS50HJ	Honest John	BT50	.976	.950	6.250	\$4.05			BMS50HJ
BMS50G	Nosecone	BT50	.976	.950	2.250	\$2.05			BMS50G
BMS55HJ	Honest John BT55	BT55	1.325	1.283	8.250	\$8.75			BMS55HJ
BMS50V2B	V2 Boat-tail with bored BT5 hole	BT50	.976	.950	2.200	\$3.85			BMS50V2B
BMS50V2C	V2 cone with bored hole	BT50	.976	.950	3.000	\$3.85			BMS50V2C
BMS60V2B	V2 Boat-tail with bored BT20 hole	BT60	1.637	1.595	3.500	\$6.25			BMS60V2B
BMS60V2C	V2 cone with 4 inch deep bored hole	BT60	1.635	1.595	5.250	\$5.35			BMS60V2C
BMS70AH	Gemini Titan - 820101	BT70	2.217	2.180	4.450	\$8.60			BMS70AH
BMSFLMS	Fits Fluorescent tube cover		1.650	1.616	2.600	\$3.85			BMSFLMS
BMSV2BT11	V2 Boat-tail with bored BT50 hole	BT60	1.637	1.595	3.650	\$6.55			BMSV2BT11
BNC10A	Streak	BT10	.720	.706	.800	\$1.75			BNC10A
BNC20A	Short version of BNC20B	BT20	.736	.710	.705	\$1.75			BNC20A
BNC20AM	Estes Classic	BT20	.736	.710	2.000	\$2.30			BNC20AM
BNC20AZ	Estes Classic	BT20	.736	.710	2.400	\$2.25			BNC20AZ
BNC20P	Estes Classic	BT20	.736	.710	1.600	\$2.15			BNC20P
BNC20J	BT20 version of BNC50J	BT20	.736	.710	.780	\$1.85			BNC20J
BNC20L	Estes CYL-Ogive	BT20	.736	.710	1.400	\$2.10			BNC20L
BNC20N	Estes Classic	BT20	.736	.710	2.700	\$2.60			BNC20N
BNC20P	Spaceman	BT20	.736	.710	1.300	\$2.05			BNC20P
BNC20R	Estes Classic	BT20	.736	.710	2.750	\$2.50			BNC20R
BNC20Y	Estes Classic	BT20	.736	.710	1.050	\$1.90			BNC20Y
BNC30D	Scout Sprite	BT30	.767	.722	1.450	\$2.05			BNC30D
BNC30E	Estes-CYL-Ogive	BT30	.767	.722	2.190	\$2.40			BNC30E
BNC30N	BT30 Ogive	BT30	.767	.725	2.750	\$2.80			BNC30N
BNC50AC	BT50 version of BNC55AC	BT50	.976	.950	3.800	\$3.50			BNC50AC
BNC50AD	Honest John - original Estes version	BT50	.976	.950	4.000	\$3.60			BNC50AD
BNC50BA	Estes Classic (2 piece)	BT50	.976	.950	1.130	\$5.25			BNC50BA
BNC50BC	2 Piece cone	BT50	.976	.950		\$3.00			BNC50BC
BNC50G	Thor-Agena Nose Cone	BT50	.976	.950	1.350	\$3.60			BNC50G
BNC50J	Estes Classic	BT50	.976	.950	1.370	\$2.25			BNC50J
BNC50K	Estes Classic	BT50	.976	.950	2.750	\$3.05			BNC50K
BNC50X	Sprint	BT50	.976	.950	3.300	\$3.25			BNC50X
BNC50Y	Estes Classic	BT50	.976	.950	4.350	\$3.75			BNC50Y
BNC52G	Thor-Agena B nose cone	BT52	1.010	.995	1.350	\$3.25			BNC52G
BNC55AC	Estes-Secant-Ogive	BT55	1.325	1.283	5.400	\$4.20			BNC55AC
BNC55AM	Estes	BT55	1.325	1.283	4.200	\$3.55			BNC55AM
BNC55AO	Goblin	BT55	1.325	1.283	5.000	\$4.50			BNC55AO
BNC55BE	Estes Classic	BT55	1.325	1.283	1.600	\$2.65			BNC55BE
BNC55F	V2 nose cone	BT55	1.325	1.283	4.200	\$3.45			BNC55F
BNC55Ob1	BT55 6:1 Ogive	BT55	1.325	1.283	6.000	\$4.65			BNC55Ob1
BNC5AV	Estes Classic	BT5	.544	.518	2.250	\$2.20			BNC5AV
BNC5AX	Estes-Ogive	BT5	.544	.518	2.170	\$2.25			BNC5AX
BNC5BA	Estes Classic	BT5	.544	.518	0.600	\$1.50			BNC5BA
BNC5E	Estes Classic	BT5	.544	.518	1.360	\$1.85			BNC5E
BNC5O51	BT5 5:1 Ogive	BT5	.544	.518	2.720	\$3.05			BNC5O51
BNC5Q	Delia	BT5	.544	.518	1.250	\$1.65			BNC5Q
BNC5S	Estes Classic	BT5	.544	.518	1.500	\$1.85			BNC5S
BNC5V	Estes Classic	BT5	.544	.518	.750	\$1.65			BNC5V
BNC5W	Estes Classic	BT5	.544	.518	2.800	\$2.45			BNC5W
BNC60AH	Gemini Titan - Estes	BT60	1.637	1.595	2.340	\$3.95			BNC60AH
BNC60AH	Estes Classic	BT60	1.637	1.595	6.600	\$7.85			BNC60AH
BNC60C	2.6:1 Conical	BT60	1.637	1.595	4.300	\$6.20			BNC60C
BNC60H	2.75:1 Ogive	BT60	1.637	1.595	4.500	\$6.25			BNC60H
BNC60L	Estes Classic	BT60	1.637	1.595	3.125	\$4.50			BNC60L
BNC60MS	Big Bertha	BT60	1.637	1.595	2.500	\$4.25			BNC60MS
BNC70AJ	Estes Classic	BT70	2.217	2.180	4.400	\$8.25			BNC70AJ
BNC70BB	Elliptical	BT70	2.217	2.180	3.350	\$7.55			BNC70BB
BNC70G	1.9:1 Ogive	BT70	2.217	2.180	4.200	\$7.50			BNC70G
BNC70K	Long Ogive with blunt tip	BT70	2.217	2.180	7.000	\$9.70			BNC70K
BNC70KH	Long Ogive with blunt tip (fits T70H)	BT70	2.245	2.180	7.000	\$9.70			BNC70KH
BNC70BBH	Elliptical (fits T80H)	BT70	2.245	2.180	3.350	\$7.55			BNC70BBH
BNC80BB	Elliptical	BT80	2.600	2.558	4.000	\$9.50			BNC80BB
BNC80BBH	Elliptical (fits T80H)	BT80	2.640	2.558	4.000	\$9.50			BNC80BBH
BNC80K	Long Ogive with blunt tip	BT80	2.600	2.558	8.250	\$14.95			BNC80K
BNC80KH	Long Ogive - blunt tip (fits T80H)	BT80	2.640	2.558	8.250	\$16.95			BNC80KH
PNC80KH	PLASTIC VERSION OF BNC80KH - White	BT80	2.640	2.558	8.250	\$13.95			PNC80KH
BNC8041	ST-8 4:1 Ogive	BT-8	.908	.865	3.500	\$3.25			BNC8041
BNC300BB	Elliptical for 3.0" diameter T300 tube	T300	3.000	2.930	4.300	\$16.95			BNC300BB
BNC300K	Scaled up version of 80K 3.0" diameter T300 tube	T300	3.000	2.930	11.000	\$22.95			BNC300K
PNC300K	PLASTIC VERSION OF BNC300K - White	T300	3.000	2.930	11.000	\$12.00			PNC300K
HOMARC	Estes Citation HOMARC (bored hole)	BT55	1.325	1.283	4.150	\$5.40			HOMARC
BTC557	V2 Boat-tail with bored BT20 hole	BT55	1.325	1.283	3.000	\$4.90			BTC557
BWPEJ	Centuri K50 Interceptor	BT5	.544	.518	2.750	\$3.25			BWPEJ
CFENEC107	Centuri Ogive		1.040	1.000	5.250	\$3.60			CFENEC107
CFENEC79	Centuri Conical		.795	.725	2.600	\$2.50			CFENEC79
CFENEC86	Honest John - Centuri		.920	.863	6.000	\$4.95			CFENEC86





**Balsa Machining Service**  
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 Sales@BalsaMachining.com  
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STOCK CONES LIST page 2 of 2 1/2/09

ALL Nose cones are Balsawood unless otherwise specified

Part Number	Description	Fts	OD	ID	Length	Price	Qty	Total\$	Part Number
CENBC89	Centuri Ogive		.900	.850	5.500	\$5.45			CENBC89
CENV2H1	V2 B-tail w/bored hole for BT20 - Centuri		1.685	1.595	3.400	\$5.35			CENV2H1
CENV2NC	Centuri V2 nose cone w/bored hole		1.673	1.590	5.500	\$5.45			CENV2NC
MARSLNDR	Mars Lander	BT60	1.637	.595	1.000	\$3.45			MARSLNDR
NB10-2	10.55mm 2 inch Bulkheads		.422		2.000	\$1.55			NB10-2
NB20-2	BT 20 Nose Block 2 inch	BT20	.710		2.000	\$1.55			NB20-2
NB5-2	BT 5 Nose Block	BT5	.518		2.000	\$1.55			NB5-2
NB50-2	BT 50 Nose Block 2 inch	BT50	.950		2.000	\$1.80			NB50-2
NB55-2	Nose Block	BT55	1.283		2.000	\$2.30			NB55-2
NB55-3	BT 55 Nose Block 3 inch	BT55	1.283		3.000	\$2.55			NB55-3
NB60-4	BT 60 Nose Block 4 inch	BT60	1.595		4.000	\$2.90			NB60-4
NB70-4	BT 70 Nose Block 4 inch	BT70	2.180		4.000	\$5.00			NB70-4
NB80-4	BT 80 Nose Block 4 inch	BT80	2.558		4.000	\$6.20			NB80-4
TA2050	Transition (taper length=2 inch)	BT20			2.000	\$3.00			TA2050
TA2050A	Transition (taper length=1 inch)	BT20			1.000	\$2.35			TA2050A
TA2055	Transition (taper length=1.5 inch)	BT20			1.500	\$2.60			TA2055
TA2060	Transition (taper length=1 inch)	BT20			1.000	\$3.40			TA2060
TA5055	Transition (taper length=1 inch)	BT50			1.000	\$2.70			TA5055
TA5055L	Transition (taper length=1.5 inch)	BT50			1.500	\$2.70			TA5055L
TA5060	Transition (taper length=2 inch)	BT50			2.000	\$3.55			TA5060
TA5060C	Thor-Agena B Transition	BT50			3.750	\$4.55			TA5060C
TA520	Transition (taper length=.75 inch)	BT5			.750	\$2.00			TA520
TA5260C	Thor-Agena B Transition	BT52			3.750	\$4.55			TA5260C
TA550	Transition (taper length=1 inch)	BT5			1.000	\$2.35			TA550
TA555	Transition (taper length=2.75 inch)	BT5			2.750	\$2.50			TA555
TA5560	Transition (taper length=1 inch)	BT55			1.000	\$3.05			TA5560
TA5560A	Transition (taper length=1.25 inch)	BT55			1.250	\$2.95			TA5560A
TA6070	Transition (taper length=1.55 inch)	BT60			1.500	\$4.05			TA6070
TA6080	Transition (taper length=2.25 inch)	BT60			2.250	\$8.65			TA6080
TA7080	Transition (taper length=2.25 inch)	BT70			2.250	\$8.65			TA7080
TA70300	Transition (taper length=2.5 inch)	BT70			2.500	\$18.00			TA70300
TA80300	Transition (taper length=2.5 inch)	BT80			2.750	\$19.00			TA80300
TA80H300	Transition (taper length=2.5 inch)	BT80H			2.750	\$19.00			TA80300



### School Rocket

Designed by Educators specifically  
 for group use.

Catalog# SRWS \$9.99

- Length 14", Diam: .976", Weight 1 oz, Streamer recovery, Recommended Engine: A8-3
- Laser slotted and marked Body Tube.
- Laser cut Fins (with tab for Thru-the-wall mounting)
- Balsa Wood Nose cone

**Bulk Packs only \*\$5.25 each!**  
**Order part# SR4SBP**





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## MOTOR ORDERING INFORMATION

We carry all Estes motors as well as Aerotech up thru and including "G". Some motors require a "Hazmat" fee to ship. Complete details are available at our website:

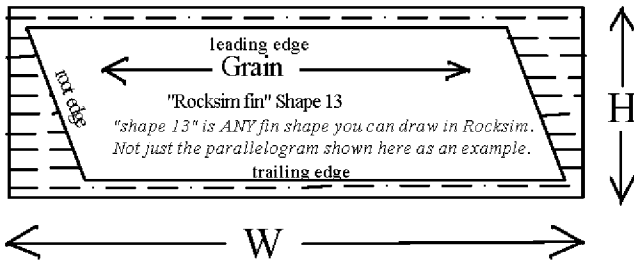
[www.BalsaMachining.com](http://www.BalsaMachining.com)

(Click on the "Estes & Aerotech motors" link)



# Centering rings, Motor-mounts & "Rocksims" for Rocket Scientists

In order to determine the cost for your Rings or Rocksims fins you must download the *Bms\_Calculator.xls* (Excel 5.0 spreadsheet) from the BMS website. This spreadsheet is continuously updated so that it always contains the latest materials and pricing. Except for the actual order form (use the BMS semi-custom order form) everything you need to know about ordering semi-custom centering rings, motor mounts or Rocksims fins is on this one sheet of paper!



First create a physical (or mental) sketch of your fin to determine the amount of raw material needed to produce it. Do this by drawing a square or rectangle around the fin or ring leaving a 1/10" border and record the "W" & "H" dimensions.

It is up to you to make sure the rectangle size you pick will contain your fin so the leading edge goes "with the grain". Of course grain direction does not matter for Rings.

Use the chart below to determine the maximum "H" & "W" dimension for the various materials. Do not exceed these dimensions as these are the maximum sizes we can produce.

Material code	Chart #13	Maximum H	Maximum W
10	1/32 Balsa	4	36
20	1/16 Balsa	4	36
30	3/32 Balsa	4	36
40	1/8 Balsa	6	36
50	3/16 Balsa	6	36
60	1/4 Balsa	4	36
70	1/32 Birch 3-Ply	12	16
80	1/16 Birch 3-Ply	12	16
100	1/8 Birch 3-Ply	12	16
110	1/8 Lite Ply	12	16
130	1/4 Lite Ply	12	16
200	.050 Black cardboard	12	16
210	1/16 Basswood	4	24
220	3/32 Basswood	4	24
230	1/8 Basswood	4	24
240	3/16 Basswood	4	24
250	1/4 Basswood	4	24
300	0.016" G10 (fiberglass)	12	24
310	0.020" G10 (fiberglass)	12	24
320	0.031" G10 (fiberglass)	12	24

You now have enough information to order and determine the cost of your fins.

For example let's say you have determined that your fin will fit into a rectangle of 1/8" Balsa that is 7" wide x 4" tall and that you want a set of 3 fins.

Open *Bms\_Calculator.xls* spreadsheet on your computer making sure that the Tab named "Fins" is selected. Then enter the "W" and "H" dimensions in the appropriate columns in the same row as the material you wish to use. Next fill in the desired quantity along with the fin name (this is the name you have given the fin in the Rocksims file) and the spreadsheet will automatically calculate your cost. When you place your order simply email the spreadsheet along with the Rocksims file to sales@BalsaMachining.com.

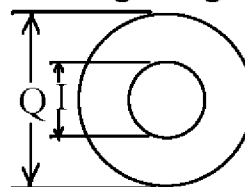
If, for any reason, you do not use the spreadsheet you can also order using the semi-custom ordering form as shown below. In this case we will compute the price for you. Note that the dimensions "W" & "H" are not entered on the form. When we determine the price for you we will enter them. Also note that the "size category" column is used to write in the filename of the Rocksims file.

Qty	shape	Size	Q	L	M	I	T	U	A	\$ ea	\$ Total
3	13	File name	*	-	40	-	-	-	-	--	\$6.08

\* if more than one fin type in file write fin name in "Q" box. Name in box MUST match name in Rocksims file!

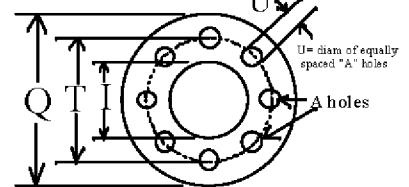
## Examples of Centering & Motor-Mount Rings

### Centering Ring



Shape 14

### Motormount



Shape 15

Let's say you decided that you want to place 5 BT5 tubes in a BT70 with a center BT20 hole. You would go to the "Rings" tab on the spreadsheet and fill in the appropriate information. The price is then calculated just like the fin. In this case "W" & "L" are both equal to "Q" which is 2.175. Just like with fins if you do not use the spreadsheet fill in the semi-custom order form and we will calculate the price for you.

Qty	shape	size	Q	L	M	I	T	U	A	\$ ea	\$ Total
2	15	-	2.175	-	110	.736	.724	.544	5	--	\$2.43

A Centering ring is specified in exactly the same manner. Just omit "T", "U" & "A". The center "I" hole can be omitted in both ring types by making I equal to 0.

Note that if you are requesting more than one part using a given material simply copy an additional spreadsheet row of that material. You can also delete rows of material that you are not ordering to reduce spreadsheet clutter. **If using a newer version of Excel please remember to save it in 5.0 format before you send it back to us!**



# Body Tube Slotting & Laser Cutting for Rocket Scientists

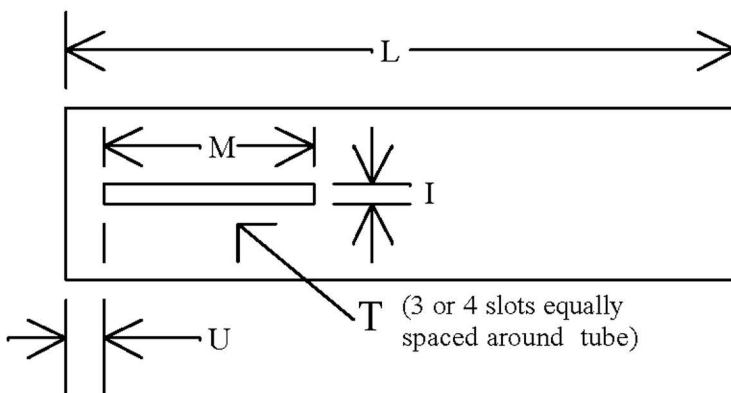
BMS now offers precision Laser slotting and cutting of our in stock tubes and coupler stock. All prices are for small to medium quantities. If you are a kit manufacturer, and need large quantities, email with your specs for a custom quote.

The prices shown in the chart below are slotting and cutting charges only. They DO NOT include the tubes. It is assumed that you also ordered enough tubes to cover the quantity you want cut or slotted. Also note that these prices are only valid when ordering tubes from us. Although we welcome the opportunity to provide this service for tubes you choose to supply, it must be handled with a custom quote.

The same semi-custom order form that you use to order semi-custom cones & rings is used to order slotted & cut tubes. You can place the tube slotting/cutting order on the same form sheet that contains cones and rings. The form can then be faxed to us along with any other items you are ordering. If you are purchasing directly from our web-store you can follow up with an email, if more convenient than faxing, and we will simply charge your credit card the additional amount needed.

## Slotting & Cutting to Length

Column	Contents
Quantity	# of tubes you want this operation performed on.
Shape	<b>16</b> (Always 16 for slotting & cutting)
Size Cat.	BMS part# of tube or coupler stock.
Q	OD of tube in inches
L	Overall length of tube. If this # is omitted (or = to 34) then tube is slotted and left at it's 34" length. Note That "L" MUST be => 3.00"
M	Length of slot (Maximum is 17.00")
I	Width of slot
T	# of slots (must be 3 or 4)
U	Distance slots begin from end of tube. Note that the MINIMUM DISTANCE is 0.350"
A	Not Used
\$ Each	\$1.00
Setup Charge	\$3.00
\$ Total	\$3.00 + (Quan ordered x \$ Each)



**Figure #1**

**Note that orders with cut or slotted tubes will not ship same day. Please allow 4 to 7 extra days.**

## Slotting & Cutting to Length Example

Now let's run through an example. You ordered seven T50 tubes. You want 4 of these tubes slotted with 4 slots each. The slots start 0.40" from the end of the tube, are 1.450" long and .100" wide. You want one of these tubes left at 34" long (standard stock length) and the others cut to 11.25" long. Here is how the order form will look.

Qty	shape	Size	Q	L	M	I	T	U	A	\$ ea.	\$ Total
1	16	T50	.976	34	1.45	.1	4	.40	n/a	\$1.00	\$4.00
3	16	T50	.976	11.25	1.45	.1	4	.40	n/a	\$1.00	\$6.00

You will receive the above 4 slotted and cut to length tubes along with 5 untouched T50 tubes. This is because we will be able to get the three 11.25" tubes out of just one 34" T50 tube. We will always make the most efficient use of the materials you order and give you whatever pieces are left over.

## Cutting to length only

Column	Contents
Quan	# of tubes you want.
Shape	<b>17</b> (Always 17 for cutting to length)
Size Cat.	BMS part# of tube or coupler stock
Q	OD of tube
L	Overall length of tube. Note That "L" MUST be => 1.00" & < 34"
M	n/a
I	n/a
T	n/a
U	n/a
A	n/a
\$ Each	\$0.25
Setup Charge	\$3.00
\$ Total	\$3.00 + (Quan ordered x \$ Each)

## Cutting to Length only Example

Now let's run thru an example. You want to create three BT50 Rockets with tube fins. The main tube on this Rocket is 9" long and has six 2" long "tube fins". Here is how the order form will look.

Qty	shape	Size	Q	L	M	I	T	U	A	\$ ea	\$ Total
3	17	T50	.976	9.0	n/a	n/a	n/a	n/a	n/a	\$0.25	\$3.75
18	17	T50	.976	2.0	n/a	n/a	n/a	n/a	n/a	\$0.25	\$7.50

In addition you will need to order 3 T50 tubes. You will receive three 9" pieces, eighteen 2" pieces and one left over 32" piece.

Email: sales@BalsaMachining.com

Web: www.BalsaMachining.com

Balsa Machining Service

11995 Hillcrest Dr.

Lemont IL, 60439

Phone: 630-257-5420 Fax: 0341

Semi-Custom Order Form. Use for any semi-custom item.

Quan	Shape	Size Category	Q	L	M	I	T	U	A	\$ Each	\$ Total
EXAMPLE			.736 Point SEVEN THREE SIX	2.750 TWO Point SEVEN FIVE ZERO	.5 Point FIVE	.710 Point SEVEN ONE ZERO	N/A	N/A	N/A	Follow this example entry when filling out order form Select One: <input checked="" type="checkbox"/> Contest Balsa (8 lb) <input type="checkbox"/> Hard Balsa (15 lb)	
1										Select One: <input type="checkbox"/> Contest Balsa (8 lb) <input type="checkbox"/> Hard Balsa (15 lb)	
2										Select One: <input type="checkbox"/> Contest Balsa (8 lb) <input type="checkbox"/> Hard Balsa (15 lb)	
3										Select One: <input type="checkbox"/> Contest Balsa (8 lb) <input type="checkbox"/> Hard Balsa (15 lb)	
4										Select One: <input type="checkbox"/> Contest Balsa (8 lb) <input type="checkbox"/> Hard Balsa (15 lb)	
5										Select One: <input type="checkbox"/> Contest Balsa (8 lb) <input type="checkbox"/> Hard Balsa (15 lb)	
6										Select One: <input type="checkbox"/> Contest Balsa (8 lb) <input type="checkbox"/> Hard Balsa (15 lb)	

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Phone \_\_\_\_\_

Email \_\_\_\_\_

Credit card # \_\_\_\_\_ exp \_\_\_\_\_

Total (this page)	
Total (all pages)	
7.75% Tax (IL res. only)	
* Shipping & Handling	* \$ 9.00
<b>Total</b>	

\* If this semi-custom parts order is combined with stock items only the stock item S&H charge applies.

Visa      Master Card