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DOMESTIC AERIAL DISPLAY FIREWORKS

Precocious Pyrotechnics, Inc. (PPI) shells are made right here in the USA! We are a primary manufacturer of display fireworks using our own custom formulas and the latest in equipment and methods. PPI makes the highest quality aerial fireworks with some of the most innovative styles, colors and designs available.

PPI aerial shells have stars, effects and inserts made from the best raw materials by our skilled pyrotechnicians so colors are true, bright and in uniform patterns. Our famous whistles, serpents, tourbillions, hummers, and other effects have plenty of color and action, all with exquisite timing!

All of our aerial shells are lifted with commercial black powders, with our own shell leaders, together with quality U.S. time fuse. This provides the pyrotechnician more reliability and precision.

Our canister shells are strung and pasted in the traditional Italian-American style, for hard breaking, brilliant colors and extra special effects. PPI round shells are made with premium quality casings for true Japanese style chrysanthemum or peony patterns.

All PPI display fireworks and aerial shells are made of Paper unless noted as Plastic (Plstc) and are canister (Can), unless noted as Round (Rd). Shells followed with a (#), indicate the number of that effect inside.

See **Terms & Conditions** and **Information** on Pages 19-20 for descriptions, abbreviations, notices, and details.
 All prices are per unit (each) unless otherwise noted.
 Case lots or quantity purchases may qualify for special discounts!
 If you don't see what you need in our catalog, please call!

FLASH SALUTE SHELLS (1.3G)

Single break flash salutes with or without titanium for silvery sparks.
 3" Extra Charged Flash Salute Shell\$ 7.15
 3" Titanium Super Salute Shell.....\$ 7.70

COLOR STAR SHELLS (1.3G)

Single break color star shells for individual cues, in flights and finales.
Colors: Red, Green, Blue, Purple or Yellow.
 3" Color Star Shell\$ 6.60
 4" Color Star Shell\$ 12.10
 5" Color Star Shell\$ 23.10
 6" Color Star Shell\$ 35.20
 8" Color Star Shell\$ 86.90

EXTRA FANCY COLOR STAR SHELLS (1.3G)

Special single break color or multiple color star shells for individual cues, in flights of single or mixed colors and finales! **Colors:** Gold Tremalon or Silver Glitter. **Mixed colors:** Red/Blue, Blue/Green, Purple/Green, Gold Tremalon/Blue, Gold Tremalon/Purple, Gold Tremalon/Green, Silver Glitter/Green, Silver Glitter/Red, Red/Blue/Silver Glitter, Red/Green/Blue/Gold Tremalon.
 3" Extra Fancy Color Star Shell.....\$ 7.70
 4" Extra Fancy Color Star Shell.....\$ 15.40
 5" Extra Fancy Color Star Shell.....\$ 28.60
 6" Extra Fancy Color Star Shell.....\$ 39.60
 8" Extra Fancy Color Star Shell.....\$ 91.30

This is only a only a partial listing of our LARGE inventory!

STICKLESS ROCKET & BRILLIANT MAGNESIUM METEOR SHELLS (1.3G)

Wonderful rising comets! **Colors:** Silver Glitter or Gold Tremalon.
Meteors in Colors of Pink, Cherry, Red, Orange, Tangerine, Lemon, Yellow, Gold, Lime, Green, Aqua, Blue, Violet, Purple. Effects can be mixed and add tailing effects such as Silver or Gold Glitter.

1" Comets\$ 5.50
 1 1/2" Comets.....\$ 6.05
 2" Comets.....\$ 6.60
 2 1/2" Comets.....\$ 7.15
 3" Comets.....\$ 7.70

TWO BREAK COLOR TO REPORT SHELLS (1.3G)

Colors: Red, Green, Blue, Silver Glitter, Purple, Yellow, or mixed.
 3" Two Break Color to Report Shell\$ 14.30
 4" Two Break Color to Report Shell\$ 21.45
 5" Two Break Color to Report Shell\$ 38.50

CRACKLING STAR SHELLS (1.3G)

Breaks with thousands of flashing lights and crackling sounds!
 3" Crackling Star Shell.....\$ 9.90
 4" Crackling Star Shell.....\$ 15.40
 5" Crackling Star Shell.....\$ 27.50

CHRYSANTHEMUM & PEONY SHELLS (RD) (1.3G)

True shapes with brilliant colors! Choose from a plethora of effects including rising tails, colors with pistils, colors with falling flowers, etc. All made with quality PPI stars, components and inserts!
 4" Chrysanthemum or Peony Shell (Rd)\$ 17.60
 5" Chrysanthemum or Peony Shell (Rd)\$ 31.90
 6" Chrysanthemum or Peony Shell (Rd)\$ 49.50
 8" Kamuro Chrysanthemum Twinkling Silver to Flash (Rd).....\$ 82.50
 8" Three Color Changing Chrysanthemum (Rd)\$ 88.00
 8" Gold Flitter Chrys to Silver Comets with 10,000 Rpts (Rd)...\$ 99.00
 10" Chrysanthemum or Peony Shell (Rd)\$231.00
 12" Chrysanthemum or Peony Shell (Rd)\$275.00
 12" Shell of Shells 22-3" Purple shell (Rd).....\$302.50

SPIDER SHELLS (1.3G)

True arachnophobia! **Colors:** Silver or Gold
 3" Spider Shell\$ 8.80
 4" Spider Shell\$ 14.30
 5" Spider Shell\$ 28.60
 6" Spider Shell\$ 39.60

COMPARTMENT SHELLS (1.3G)

Classic Red, White & Blue Compartments.
 4" Compartment Shell.....\$ 17.60
 5" Compartment Shell.....\$ 33.00
 6" Compartment Shell.....\$ 42.90

Our "Minnesota Made" fireworks are fantastic!

SILVER WHISTLES SHELLS (1.3G)

Loud and dramatic silver whistles with titanium tails!
 3" Silver Whistles Shell (7) large or (10) small\$ 13.20
 4" Silver Whistles Shell (11).....\$ 19.25
 5" Silver Whistles Shell (15).....\$ 30.25
 6" Silver Whistles Shell (19).....\$ 44.55

SILVER WHISTLES TO TITANIUM REPORTS SHELLS (1.3G)

Loud titanium silver whistles to dramatic timed reports!
 3" Silver Whistles to Titanium Reports Shell (7) lg. (10) sm.....\$ 14.30
 4" Silver Whistles to Titanium Reports Shell (11).....\$ 20.90
 5" Silver Whistles to Titanium Reports Shell (15).....\$ 31.90
 6" Silver Whistles to Titanium Reports Shell (19).....\$ 42.90

We are a primary manufacturer – mixing, rolling, and pressing Stars and inserts with our own formulas and methods.

SILVER WHISTLES w/COLOR SHELLS (1.3G)

Colors: Yellow, Red, Green, Purple, Blue or Purple & Green.

3" Silver Whistles w/Color	\$15.40
4" Silver Whistles w/Color	\$22.00
5" Silver Whistles w/Color	\$35.20
6" Silver Whistles w/Color	\$55.00

SILVER SERPENTS SHELLS (1.3G)

Wild titanium silver serpents that whiz and whirl!

3" Silver Serpents Shell (7) large or (10) small	\$ 12.10
4" Silver Serpents Shell (11) large or (15) small.....	\$ 17.60
5" Silver Serpents Shell (15).....	\$ 27.50
6" Silver Serpents Shell (19).....	\$ 40.70

SILVER SERPENTS WITH TITANIUM REPORTS SHELLS (1.3G)

Wildier silver serpents that end in titanium reports!

3" Silver Serpents to Titanium Reports Shell (7) large (10) sm..	\$ 13.75
4" Silver Serpents to Titanium Reports Shell (11) large (15) sm	\$ 19.80
5" Silver Serpents to Titanium Reports Shell (15).....	\$ 31.90
6" Silver Serpents to Titanium Reports Shell (19).....	\$ 42.90

COLORS AND SILVER SERPENTS SHELLS (1.3G)

First class color to silver serpents!

Colors: Red, Green, Blue, Purple, Yellow or Purple & Green.

3" Color to Serpents Shell (4)	\$ 15.40
4" Color to Serpents Shell (4)	\$ 22.00
5" Color to Serpents Shell (15)	\$ 35.20
6" Color to Serpents Shell (19)	\$ 55.00

COLORS AND SERPENTS TO TITANIUM REPORTS SHELLS (1.3G)

First class color to silver serpents to titanium reports!

Colors: Red, Green, Blue, Strong White, Purple or Yellow.

3" Color to Serpents to Titanium Reports Shell (4)	\$ 15.95
4" Color to Serpents to Titanium Reports Shell (4)	\$ 23.65
5" Color to Serpents to Titanium Reports Shell (15)	\$ 41.25
6" Color to Serpents to Titanium Reports Shell (19)	\$ 57.20

SILVER TOURBILLIONS WITH TITANIUM REPORTS SHELLS (1.3G)

Even more extraordinary silver tourbillions with titanium reports!

3P1034 - 3" Silver Tourbillions to Titanium Reports Shell (7)...	\$ 13.48
4P1034 - 4" Silver Tourbillions to Titanium Reports Shell (11).	\$ 21.73
5P1034 - 5" Silver Tourbillions to Titanium Reports Shell (15).	\$ 31.90
6P1034 - 6" Silver Tourbillions to Titanium Reports Shell (19).	\$ 42.90

COLORS AND SILVER TOURBILLIONS WITH TITANIUM REPORTS (1.3G)

Also - Silver Butter Fly Ring Shells **HOT ITEM!**

Incredible color with silver tourbillions with titanium reports!

Colors: Red, Green, Blue, Strong White, Purple or Yellow.

3" Color to Tourbillions w/Ti Reports Shell (4)	\$ 15.95
4" Color to Tourbillions w/Ti Reports Shell (4)	\$ 23.65
5" Color to Tourbillions w/Ti Reports Shell (15).....	\$ 41.25
6" Color to Tourbillions w/Ti Reports Shell (19).....	\$ 57.20

DOUBLE RING OF SERPENTS(1.3G)

6" Double Ring of Serpents w/Color Center.....	\$ 64.90
6" Double Ring of Serpents w/Color Center and Reports.....	\$ 74.80

We can custom manufacture almost any types, sizes or Styles of aerial shells, mine, comets, meteors you desire!

HUMMER SHELLS (1.3G)

Noisy, buzzing bees that zoom across the sky with Silver Tails!

3" Hummer Shell can type (8)	\$ 13.20
4" Hummer Shell can type (14).....	\$ 19.80
5" Hummer Shell ball type (12).....	\$ 31.90
6" Hummer Shell ball type (29).....	\$ 42.90

NEW Crossette Shells with Many Effect COMBINATIONS (1.3G)

NEW- Rainbow Crossette Shells, aerial mines and low level mines.

Try the mixed **Tourbillions w/Crossettes ONLY MADE** by PPI! Exquisite Crossettes with brilliant colors! We now have new different and color-changing Crossettes! Round or Canister Type.

Colors: Gold, Red, Purple, Blue, Violet, Lavender, Gold Glitter, Silver Glitter, Charcoal, Aqua, Lemon, Lime, Orange, Gold w/Crackling, Silver w/Crackling, Red w/Crackling, Green w/Crackling, Red to White, Red to Blue, or Silver to Red.

	<u>Round</u>	<u>Canister</u>
4" Crossette Shell (12).....	\$ 28.60	\$ 28.60
5" Crossette Shell (18).....	\$26.50	\$ 45.10
6" Crossette Shell (24).....	\$39.50	\$ 57.20
8" Crossette Shell (24).....	\$95.00	\$165.00

COMET RING SHELLS (1.3G)

Multi color rings with special effects. Lots of Oohs and Aaahs!

4" Silver Comet Ring w/Red, Green or Blue Center Shell	\$ 16.50
5" Three Color Changing Comet Ring Shell.....	\$ 31.90
5" Silver Glitter Comet Ring w/Purple Center Shell	\$ 41.80
5" Four Comet Ring Silver w/Glitter Comets Shell	\$ 49.50
6" Blue Comet Ring w/Glitter Comets Shell.....	\$ 57.20
6" Silver Glitter Ring w/Blue Center Shell	\$ 57.20
6" Silver Glitter Four Comet Ring Shell	\$ 72.60

ARTILLERY (SIATEENS) SHELLS (1.3G)

Perfectly timed artillery patterns, Real chest thumpers!

3" Artillery (Siateens or Reports) Shell (7).....	\$ 13.20
3" Artillery w/Rainbow Shell (4).....	\$ 14.30
4" Artillery (Siateens) Shell (11).....	\$ 20.90
5" Artillery (Siateens) Shell	\$ 30.80
6" Artillery (Siateens) Shell	\$ 53.90

ARTILLERY w/COLOR SHELLS (1.3G)

Available in the following colors: Red, Blue, Green, Purple, Yellow or Purple & Green or mixed colors. These are 2 Break size shells.

3" Artillery w/Color	\$ 15.40
4" Artillery w/Color	\$ 22.00
5" Artillery w/Color	\$ 35.20
6" Artillery w/Color	\$ 55.00

FIVE OR NINE TIMED REPORTS SHELLS (1.3G)

Four reports followed by heavy bottom shot. WOW! Or eight reports followed by heavy bottom shot. Double WOW!

5" Five Timed Reports Shell	\$ 60.50
5" Nine Timed Reports Shell	\$ 74.80

MINES OF COLORS & MIXED EFFECTS (1.3G)

4" Mines (Call for Colors)	\$ 11.00
4" Mines Serpents	\$ 15.40
4" Mines Artillery	\$ 20.35
4" Mines Whistles	\$ 18.43

COLOR WITH COMETS SHELLS (1.3G)

Extraordinary star pattern center with streaking comets!

5" Purple Star w/Five Gold Tremalon Comets Shell	\$ 41.80
6" Purple Star w/Five Gold Tremalon Comets Shell	\$ 57.20

PATTERN SHELLS (1.3G)

Stars, Hearts or Diamonds in the sky! We can make letters and numbers, too!

5" Pattern Shell (Stars, Hearts, Bells or Diamonds).....	Call for quote
6" Pattern Shell (Stars, Hearts, Bells or Diamonds).....	Call for quote
5" Special Letter Shell (<i>Custom order only</i>)	Call for quote
6" Special Letter Shell (<i>Custom order only</i>)	Call for quote

STROBE SHELLS (1.3G) USA MADE!

Extra brilliant effects! **Colors:** Red, Green, Purple, Silver or White.
 5" Strobe Shell (Plstc).....\$ 45.07
 6" Strobe Shell (Plstc).....\$ 53.88

***NEW* COLORED TAILED SERPENTS SHELLS (1.3G)**

Choices of Red, Green, Blue, Silver or mixed colors, fast moving serpentine action in one shell. Super effect only available from us!
 3" Colored Tailed Serpents Shell\$ 14.30
 4" Colored Tailed Serpents Shell\$ 21.73
 5" Colored Tailed Serpents Shell\$ 40.70
 6" Colored Tailed Serpents Shell\$ 53.90

**Try the most consistent
 And reliable "LARGE" Extra Fancy
 Aerial shells On the market!**

SHELL OF SHELLS (SOS) (1.3G)

Real showcase shells. All made with quality inserts & products!
 5" 5P1086 Shell of Shells (SOS) Orange, Aqua, Blue Shells ..\$ 49.50
 5" P1190 SOS Gold Tail Comets(11)w/GreenCtrtoBlue Shells\$ 53.90
 6" SOS Gold Tailed Comets (14) w/Green Ctr to Blue Shells..\$ 64.90
 6" 6P1086 SOS Orange, Aqua, Purple, & Blue Shells.....\$ 60.50
 8" Sun & Planets Gd Tremalon Sun w/Silver & Gold Planets..\$209.00
 10" Sun & Plants – GT Sun w/Silver & Gold Plants\$247.50
 10" Tourbillion Shell of Shells (SOS)
 w/14-3" Tourbillions, Shells = 98 Tourbs. & 98 Ti Reports \$319.00
 10" Brocade to Strobe Glittering w/Green to Blue Pistil SOS\$203.50
 10" Shell of Shells (SOS) Purple (16)\$231.00
 12" Shell of Shells (SOS) Purple (24)\$302.50
 12" Brocade to Green to Blue w/Strobe to Glit to Bl Pist.....\$275.00

**Quality and performance is what
 makes us so precious!**

AERIAL SALUTE SHELLS WITH TUBE & BASE (1.3G)

Single shot aerial titanium salutes in a cardboard mortar tube w/base.
 #175 1 3/4" Tube Salute *Each*\$13.20
 #200 2" Tube Salute *Each*\$14.30
 #250 2 1/2" Tube Salute *Each*\$16.50

NIAGARA FALLS - USA MADE (1.4G)

Individual Silver Titanium Niagara Falls Sticks are ready to be installed and matched on ropes from poles or attached to wheels; or Complete Sets of 12 on 18' of rope, nosed, matched and ready to fire!
 Sticks are 1" x 10" **SUPER LARGE SIZE!** Each lasts approx. 50 seconds with a shower of sparks 30 - 100 feet!
 PNFI - Niagara Falls Stick *Each*\$ 5.45
 PNFI - Niagara Falls Sticks *Dozen*.....\$ 61.55
 PNFS - Niagara Falls Sticks *Complete Set (Dozen)*\$ 76.95

A GREAT BOOK!
"How It Happens At the Fireworks Factory"
Special Edition just for Pyro's each only \$20.00

REMOTE FIRING SYSTEM 12 SHOTS

12 shot Programmable Remote firing system, built into a heavy duty road case. Range is 975 feet line of site, Operating Frequency: 315 MHZ. Load Capacities up to 12 Ohms. Requires 8 AA batteries for firing, & comes with a 12 volt remote battery. Operating Voltage: 12 volts DC, Operating temperature: -40 C to +80 C, made in China.
 each only (Great Deal!).....\$295.00

**Our comet, Meteor and Crossette racks
 are shows by themselves!**

SILVER GLITTER COMET RACKS (1.4G) #P24GLIR

Made in the USA! Our celebrated 24 shot Silver Glitter Comet Racks (Bombardo Boards) are #2 size (1.25") timed comets rising about 150 ft and lasting approx. 20 seconds. *4 - 24 shot racks to a case.*
 1 1/4" 24 shot Silver Glitter Comet Racks *Each*\$ 56.10
 1 1/4" 24 shot Silver Glitter Comet Racks 2 - 5 *Cases Each*\$ 48.40
 1 1/4" 24 shot Silver Glitter Comet Racks 6 + *Cases Each*.....\$ 44.00

MAGNESIUM METEOR RACKS (1.3G) 12P????

Made in the USA! Brilliant 12 shot Red, Green, Yellow or Purple Magnesium Meteor Racks (Bombardo Boards). Meteors rise about 150 ft and last approx. 11 seconds. *8 - 12 shot racks to a case.*
 1 1/4" 12 shot Meteor Racks *Each in case lots*\$ 36.30

CROSSETTE RACKS (1.3G) MANY NEW COLOR VARIETIES

Breath-taking 12 Shot Crossette Racks (Bombardo Boards). Gold, Silver Glitter, Colored and Color Changing #2 size (1.25") timed shots rising to about 150 feet and exploding into an umbrella of brightly colored comet pieces approx. 300 feet across lasting approx. 11 seconds. *8 -12 shot racks to a case. 12P????*
 1 1/4" 12 shot Crossette Racks *Each in case lots*\$ 39.60

DOMESTIC GROUND DISPLAY FIREWORKS

Made in the USA! Our own machine pressed Wheel Drivers, Gerbs, Niagara Falls and Lance are made with our own special pyrotechnic formulas. Our process provides for long lasting and true colors and performance reliability. All are ready to install and match.

WHISTLE WHEELS (1.4G)

With Titanium Tails (2 Drivers)! Simple setup and ignite.
 WW - 20" Diameter Wheel Complete *Each*\$ 27.50

WHISTLE WHEEL DRIVERS (1.4G) CAN BE USED ON SET PIECES.

1/2" ID 6 oz. Whistle Wheel Drivers. (3/4" OD) x 4.5" long w/Ti or silver tails! 12 second burn time. 12-foot spray! **WDW1**
 Whistle Wheel Driver *Each*\$ 4.40 *Dozen*\$ 46.20

SMALL GERBS & WHEEL DRIVERS (1.4G)

1/2" ID 6 oz. Gerbs/Drivers (3/4" OD) x 4.5". **Approx. 10 seconds.**
 Gold Gerbs/Drivers **WDGG1***Each* ...\$ 2.75 *Dozen* \$ 23.10
 Silver Ti Gerbs/Drivers **WDS2** *Each*.\$ 3.03 *Dozen*\$ 30.00
 Transformation Gerbs/Drivers **GT/WD1** *Ea.* \$ 3.30, *Dozen*\$ 29.70

LARGE GERBS & WHEEL DRIVERS (1.4G)

3/4" ID-12 oz. Gerbs/Drivers (1 1/4" OD) x 9". **Approx. 25 seconds.**
 Gold Gerbs/Drivers **WDG1** *Each* \$ 5.50 *Dozen*\$ 62.70
 Silver Ti Gerbs/Drivers **WDS1** *Ea.*\$ 5.78 *Dozen*\$ 66.00
Red Ruby w/Gold Tailed *Each*...\$ 6.05 *Dozen*\$ 69.30

1" ID x 1 1/2" OD x 10" Gerb/Driver approx. 24 second burn time

Gold Gerbs/Drivers **GG/WD2** *Each*\$ 8.75
 Silver Ti Gerbs/Drivers **GS/WD2** *Each*.....\$ 8.75

Set Piece Tools

DOUBLE POINTED NAILS

Use special hand tool or air gun to install to framework for lance set pieces.
 1 1/4" long and nickel-plated. Approximately 1,400 per pound.
 1 pound Double Pointed Nails\$ 13.20

NAIL INSTALLING TOOL

Finished Wooden Handle with a Non Sparking Brass Nail Incretion Head.
 Nail Installing Tool *Each*.....\$ 16.50

LANCE (1.4G) MADE WITH A NEW PRIMING SYSTEM

Bright and true colors that last approximately 60 seconds! Ready to be installed and matched, using our Lancetube Holders™ and Lance Fuse™, on setpiece frames, wheels, or other ground display work. **Made in the USA!**
 1 gross (144) per box with 12 boxes per case.

RED, WHITE, BLUE, GREEN, PURPLE, ORANGE, OR YELLOW LANCE
 per box \$ 34.00 Case per box \$ 31.00

2 COLOR CHANGING - YELLOW TO RED OR RED TO GREEN LANCE
 per box \$ 42.00 Case per box \$ 40.00

3 COLOR CHANGING - RED TO WHITE TO BLUE LANCE
 per box \$ 46.00 Case per box \$ 43.00

RED, GREEN OR SILVER STROBE LANCE
 per box \$ 46.00 Case per box \$ 43.00

NOTE: A few colors, such as blue, do NOT burn to the bottom of the lance tube. Lances burns approximately 1 minute. A filler is used to equalize the burn rates.

**Set pieces are real sponsor and crowd pleasers!
 Assemble yourself or buy ready to go!**

***NEW* LANCETUBE HOLDER™ MADE OF HDPE - PLASTIC**

No more rattan, double pointed nails and glue! Lancetube Holders™ are reusable black plastic strips about 16" long with 10 mounting holes about every 1½". Just attach to a frame in any shape or in grids. Buy in 100's for quantity discounts!

1 to 10 pieces, each \$ 1.00
 100 pieces, each (1 case of 100 \$83.00) each \$ 0.83
 500 pieces, each (1 case of 500 \$360.00) each \$ 0.72
 1000 or more pieces, each \$ 0.55
 10,000 or more pieces, each \$ 0.50

***NEW* FUSE CLIP™**

Our special metal clip (patent pending) to secure Bundle Match, Water-repellent Bundle Match™, and Lance Fuse™ to lance. Fuse Clip eliminates the taping of fuse to lance tubes. *No more sticky messes!* This system is cheaper, easier, and more reliable in all weather conditions and applications. Sold in lots of 100.

1-500 pieces, each \$ 0.060
 500-1000 pieces, each \$ 0.050
 1000 or more pieces, each \$ 0.045

LANCE SET PIECES (1.4G)

Made in the USA! Simply unfold, setup and ignite!

1' x 2' Letter Set Piece (Choice of letters and colors) *Each*... \$ 37.50
 1' x 3' Letter Set Piece (Choice of letters and colors) *Each*... \$ 40.00
 4' x 6' American Flag Set Piece (R, W, B w/Y Pole) *Each*... \$200.00
 5' x 8' American Flag Set Piece (R, W, B w/Y Pole) *Each*... \$263.00

**We make the most consistent and reliable
 match and fuse anywhere!**

MATCH, FUSE, PIPE & ELECTRIC MATCH

ELECTRIC MATCH (1.4S) WIRE, & WRAPS

Electric Match with Cover, and Wire used with electrical ignition systems.

Electric Match China (0.3 Meter wire leads) 20/100 *per match* \$ 0.75
 Electric Match China (1.5 Meter wire leads) 20/50 *per match* .. \$ 0.95
 Electric Match China (2 Meter wire leads) 20/50 *per match* \$ 0.99
 Electric Match China (3 Meter wire leads) 25/40 *per match* \$ 1.05
 Electric Match China (5 Meter wire leads) 20/25 *per match* \$ 1.60
 Electric Match China (7 Meter wire leads) 20/50 *per match* \$ 1.90
 Electric Match Oxral (3 Meter wire leads) 1/750 *per match* \$ 1.25
 EMR-Plastic part only Ematch receiver each \$ 0.09
 Wire (500 ft Roll, 24 gauge) *per roll* \$ 32.95
 Velcro Wire Wraps, Red & Purple Colors 12" long *per wrap*.... \$ 1.65

FUSEES RED USE TO LIGHT YOUR SHOW!

20-Minute Red \$ 3.50

***NEW* LANCEFUSE™ (1.4G)**

WORKS in all climates. Use for quick assembly of lance work (set pieces or lattice work). **Ignites lance BETTER than anything else!**

	<u>PER ROLL</u>	<u>PER CASE</u>
1 case = 20 - 60 ft rolls.....	\$6.05/Roll.....	\$121.00
10 to 19 cases (200-380 rolls)	\$5.50/Roll.....	\$110.00
20 to 39 cases (400-780 rolls)	\$5.00/Roll.....	\$ 100.00
40 or more cases (800 or more rolls).....	\$4.70/Roll.....	\$ 93.50

**Our Lancefuse™ and Lancestickfuse™
 work in all climates and ignites lance the BEST!**

***NEW* "TAPE FUSE" LANCESTICKYFUSE™ (1.4G)**

WORKS in all climates: Use for quick assembly of lance work (set pieces or lattice work) **IT STICKS!! Ignites lance THE BEST!**

<u>Fast</u> or <u>Medium</u> Burn Speed	<u>PER ROLL</u>	<u>PER CASE</u>
1 case = 12 - 60 ft rolls.....	\$7.45/Roll.....	\$ 89.10
10 to 19 cases (120-239 rolls)	\$6.88/Roll.....	\$ 82.50
20 to 39 cases (240-479 rolls)	\$6.60/Roll.....	\$ 79.20
40 or more cases (480 or more rolls)	\$6.33/Roll.....	\$ 75.90

QUICK MATCH (1.4G)

Made in the USA! Our Bare Match piped into a *water repellent liner!* 2 ply paper for use for lance work, leaders, chains, etc. **NEW** case pack 30 - 60' bundles to a case. There are **1,800** feet per case.

1 Bundle (60 feet) *per bundle* \$14.00 or \$420.00 case
 3-10 Cases (9,000 - 18,000 feet) *per bundle* \$12.00 or \$360.00 case
 11- 20 Cases (19,800 - 36,000 feet) *per bundle*..... \$11.00 or \$330.00 case
 21- + Cases (37,800 - 72,000 feet) *per bundle* \$9.50 or \$285.00 case

WATER-REPELLENT BUNDLE MATCH™ (1.4G)

2-ply water-repellent bundle match in 60' bundles, 30 bundles per case. In Blue, Red, or Yellow plastic tube.

0-29 bundles, each bundle \$16.00 or \$480.00 case
 30+ bundles, each bundle \$15.00 or \$450.00 case

BARE MATCH (QUICK MATCH) (1.3G)

Made in the USA! Our own Bare Match made using commercial black powder with our own process for greater consistency and reliability. *Never any scratch mix added.* Cut in approx. 2 ft. Lengths.

0.1125" OD 8 ply (Med.) *per ft*.... \$ 0.22 (1000 PC. minimum)
 0.1555" OD 16 ply (Large) *per ft*.. \$ 0.26 (1000 PC. minimum)

SHELL LEADERS, (1.4G)

Made in the USA! Our own 2 ply Quick match, with a 4 ½" long colored leader cap, folded and clipped together. Case pack: 22" -1,000; 28", 32" and 36" - 750; 42" and 48" - 500 *per case. Custom made to any length!*

22" Shell Leader *Each*..... \$ 0.66 Case lot *Each* \$ 0.60
 28" Shell Leader *Each*..... \$ 0.74 Case lot *Each* \$ 0.68
 32" Shell Leader *Each*..... \$ 0.84 Case lot *Each* \$ 0.77
 36" Shell Leader *Each*..... \$ 0.89 Case lot *Each* \$ 0.81
 42" Shell Leader *Each*..... \$ 0.96 Case lot *Each* \$ 0.88
 48" Shell Leader *Each*..... \$ 1.04 Case lot *Each* \$ 0.95

LEADER PIPES

Made in the USA! We make our own 2-ply heavy kraft paper tube *with water repellent liner.* Stock lengths are 36" in lots of 500 *only!*

Kraft (plain brown) *per inch* \$ 0.0065 *per foot*..... \$ 0.078
 Kraft (Colored Paper) *per inch*.... \$ 0.0080 *per foot*..... \$ 0.096
Leader pipe can be custom made to any length. Please call!

LEADER CAPS

4 ½" long colored kraft paper tubes, open on one end and stapled on the other end. Sold in lots of 500 *only!*

Leader caps *Each* \$ 0.12 Case lot *per 1,000* \$ 100.00

FUSE, SAFETY (1.4S)

Stocked in 25 ft coils, up to 200 ft coils in random lengths available. All fuse can be cut and punched to your custom lengths. \$10.00 *per run* setup charge plus approximately \$.015 per piece cutting charge. Longest we can cut is 4" long. Burn Time is approximately 1 sec per ¼".
 1/4" OD Time Fuse (AMERICAN) *per case- 300 feet, per ft.*.....\$ 1.10
 1/4" OD Time Fuse (AMERICAN) *per 1,500 ft. per ft.*.....\$ 1.05
 1/4" OD Time Fuse (AMERICAN) *per 3,000 ft. per ft.*.....\$ 0.99
 1/4" OD Time Fuse (AMERICAN) *per 6,000 ft. per ft.*.....\$ 0.88

NOTE: Punch a hole in the middle of the time fuse and cross match, then squeeze tight to merge the powder core and cross match. Cross match all time fuse with "bare black match" for positive ignition.

VISCO, SAFETY (1.4S)

3/32 FU30-2 Fuse, Safety 20 Ft. per Roll\$ 3.30
 3/32" OD Red or Green Visco Time Fuse (USA) *per 100 foot...*\$ 27.50
 5/32" OD Green Visco Time Fuse (Chinese) *100 meter roll*\$ 38.50
 3/32" **FAST** Visco Fuse 3.7 sec/ft 325 ft roll LD087\$ 55.00

SHELL INSERTS

Made in the USA! Our own factory pressed inserts using our own pyrotechnic compositions. *Sold in lots of 100 only! Priced per insert.*
 Available in trays for ease in handling. Add \$ 0.03 per insert. *All inserts can also be made in Gold!*

HUMMERS (1.4G)

Our extra loud & bright silver hummers with an approximate burn time of 2 to 3 seconds. 1 1/4" OD x 1" long with 5/32" fuse hole drilled in side.
 Hummer < 3,000.....\$ 0.40 3,000 +.....\$ 0.34

SILVER SERPENTS, SMALL (1.4G)

Silver titanium serpents with an approximate burn time of 2 to 4 seconds. 9/16" OD x either 2 1/2" long or 3" long with 1/8" fuse hole.
 Silver Serpents, Small < 3,000.....\$ 0.43 3,000 +.....\$ 0.38

SILVER SERPENTS, LARGE (1.4G)

Silver titanium serpents with an approximate burn time of 3 to 5 seconds. ¾" OD x 3" long with 5/32" fuse hole.
 Silver Serpents, Large < 3,000\$ 0.43 3,000 +\$ 0.38

SILVER TOURBILLIONS, LARGE (1.4G)

Our famous silver titanium tourbillions with an approximate burn time of 3 to 5 seconds. ¾" OD x 3" long with 5/32" fuse hole.
 Silver Tourbillions < 3,000.....\$ 0.45 3,000 +.....\$ 0.40

SILVER WHISTLES, SMALL (1.4G)

Our extra loud and bright silver titanium whistles with an approximate burn time of 2 to 5 seconds. 9/16" OD x either 2 1/2", or 3" long.
 Silver Whistles < 3,000.....\$ 0.42 3,000+.....\$ 0.39

SILVER WHISTLES, LARGE (1.4G)

Our extra loud and bright silver titanium whistles with an approximate burn time of 2 to 5 seconds. 3/4" OD x 3" long.
 Silver Whistles < 3,000.....\$ 0.46 3,000+.....\$ 0.41

LOW SMOKE INDOOR /PROXIMATE

SILVER OR GOLD WHISTLES (1.4G)

The loudest silver or gold whistles with approximately 8' to 10' spray that can be used for indoor or proximate show venues. Different times and spray are available. Call for quotes.
 Size 3/4" OD x 3" or 4 1/2" long. The price is each in lots of 100.
 Silver Whistles < 1,000.....\$ 3.30 1,000+\$ 2.75

We manufacture some of the best Indoor Whistles and Gerbs anywhere!

SILVER OR GOLD GERBS "INDOOR" (1.4G)

The **BEST** made gerb with precise burn times and constant spray height. Different times and heights available. Call for a quote. Size 3/4" OD x 3" long can be made up to 4.5" long. The price is each in lots of 100.
 Gerbs < 1,000.....\$ 2.75 1,000+\$ 2.20

CLOSE PROXIMITY FOUNTAINS (1.3G)

Impressive low smoke fountains for fronts! Made in China
 1.5LDC004 Silver or 1.5LDC058A Silver,
 1½" Single Big Silver Fountain 24/case, ea.....\$ 9.90
 2LDC001 or W4402 2" Silver Low smoke Fountain ea....\$ 15.40
 W4401 2" Gold Ea. \$14.00, or Case of 18.....\$277.20

We now are an authorized dealer for Luna Tech, Inc., manufacturer of Pyro-Pak™

PYRO PAK™ INDOOR FIREWORKS.

Regular Flash Powder, oz.\$ 8.80
 Low Smoke Flash Powder, oz.....\$ 8.80
 Slow Sparkle Flash Powder, oz.....\$ 8.80
 Fast Sparkle Flash Powder, oz.\$ 8.80
 Concussion Flash Powder, oz.....\$ 9.08
 Airburst (Regular Silver) Flash Powder, oz\$ 12.38
 High Altitude Airburst Flash Powder, oz.....\$ 12.38
 Flash Paper, envelope of 4 sheets (9" x 8.5").....\$ 7.15
 ½ Sec. x 12 ft. Silver Gerb, ea\$ 7.98
 8 Sec. x 8 ft. Silver or Gold Gerb, ea\$ 9.35
 10 Sec. x 12 ft. Silver or Gold Gerb, ea\$ 9.35

We have many more Indoor products available! Just call and ask!

SUPPLIES

We stock a wide variety of paper, tubes and supplies for all types, kinds and styles of fireworks. *If you do not see it listed here, please call!*

FLAX TWINE

For tying jobs of all types: Made in Italy.
 3 Ply Brown in color 1/2 lb. *Ball*\$ 13.20 Roll

JUTE YARN

Approximately 2½# Roll.....\$ 13.20 Roll

EAR PLUGS

2 special made sound absorbing foam ear plugs on a plastic cord. Reusable, washable & one size fits all. *Set*.....\$ 2.75

KRAFT GUMMED PAPER TAPE

Used for **Wrapping** and **finishing Spherical or Ball Shells**. Used also for finishing Canister shells. Can be used for making Hard high quality tubes. It has many uses in the pyrotechnic manufacture and assembly field.
 35# 1" wide x 500 ft long per roll\$ 4.95
 35# 1 ¼" wide 500 ft per roll\$ 7.15
 35# 1 ½" wide 500 ft per roll\$ 7.98
 35# 1" wide 3000 ft per roll\$ 29.70
 35# 1 ¼" wide 3000 ft per roll\$ 42.90
 35# 1 ½" wide 3000 ft per roll\$ 47.85
 60# 1" wide 3000 ft per roll\$ 30.53
 60# 1 ¼" wide 3000 ft per roll\$ 37.95
 60# 1 ½" wide 1000 ft per roll\$ 13.25
 60# 1 ½" wide 3000 ft per roll\$ 43.73

PLACARDS & SHIPPING LABELS

1.4G or 1.3G Placards 10³/₄" x 10³/₄" plastic coated. *Each*\$ 4.00
 1.4G or 1.3G Labels 4" x 4". *Each*.....\$ 0.40

PLASTIC AERIAL SHELL & CANDLE BOMBETTE PARTS

High quality polystyrene plastic made in the USA! Assemble with inserts & break charge, glue in time fuse, glue together, add crossmatch, leader & lift.
#243..30mm Bombette tube & lid w/1/4" hole Plastic Casing *per 50*.\$ 21.00
#27..7/8" Sphere w/hole for **VISCO FUSE Hole Size** *per 100*...\$ 22.00**
#228 & #229..1 5/8" Sphere w/1/4" hole Plastic Casing *per 100* ...\$ 40.00
#241 & #254 . 1 3/4" Cyl. w/1/4" hole Plastic Casing *per 30*.....\$ 25.00
#249 & #251 . 1 15/16" Cyl. w/1/4" hole Plastic Casing *per 25*.....\$ 15.00
#2 1/8" Sphere hole is for **VISCO FUSE Hole Size** *per 25*\$ 17.00**
#29 & #29000 . 2 1/4" Sphere w/1/4" hole Casing *per 50*.....\$ 27.00
#26 & #247 . 2 1/2" Cyl. w/1/4" hole Plastic Casing *per 30*.....\$ 33.00
#300 & #301 . 3" Sphere w/1/4" hole Plastic Casing *per 50*\$ 24.00
#316 & #315 . 4" Sphere w/1/4" hole Plastic Casing *per 20*\$ 31.00
#326 & #325 . 5" Sphere w/1/4" hole Plastic Casing *per 10*\$ 19.00
#0520 . 6" Sphere w/1/4" hole Plastic Casing *per 10*.....\$ 29.00
#124 . 8" Sphere w/1/4" hole Plastic Casing *per 1*.....\$ 11.00
NOTE: The 1/4" hole will accommodate 1/4" OD American made time fuse.

PAPER TUBES FOR SERPENTS , WHISTLES, GERBS, WHEEL DRIVERS , ROCKETS, TOURBILLIONS & FOUNTAINS

Made in the USA! Custom convolute wound tubes made from special hard paper and adhesives. The best anywhere!
TUB5 0.25" ID (0.4375" OD) x 1.55" **Red** Spolette Tubes *per 100*.....\$14.00
TUB11 5/16" ID (1/2" OD) x 2" long.....*per 100*.....\$16.00
TUB1 0.3700" ID (0.500" OD) x 2.25" Spolette Tubes *per 100*\$13.00
TUB29 3/8" ID (0.60" OD) x 2 1/2" long*per 100*\$20.00
92-65 3/8" ID (9/16" OD) x 3" Serpent or Whistle Tubes *per 100*\$22.00
TUB3 0.4062" ID (0.687" OD) x 2.75" Spolette Tubes *per 100*\$20.00
92-09A 1/2" ID (1 1/8" OD) x 1" Hummer Tubes *per 100*.....\$12.00
92-66 1/2" ID (3/4" OD) x 3" Tourbillion or Whistle Tubes *per 100*...\$21.00
92-5245 1/2" ID (.690" OD) x 4 1/2" SerpentorWheelTubes *per 100* ... \$33.00
TUB10 3/4" ID (1" OD) x 7" Gerb or Rocket Tubes *per 50*.....\$23.00
TUB12 3/4" ID (1 1/16" OD) x 9" Gerb or Rocket Tubes *per 50* \$29.00
93-7519 3/4" ID (1 1/4" OD) x 9" Gerb or Rocket Tubes *per 50*\$44.00
TUB15 1" ID x 1 1/2" OD x 5 1/2" Long Gerb Or Rocker 25\$18.00
TUB9 1" ID x 1 1/2" OD x 6" Long Gerb/Rocket tube *per 25*.....\$18.00
93-11510 1" ID (1 1/2" OD) x 10" Gerb or Rocket Tubes *per 20* \$28.00
93-125212 1 1/4" ID (1.7" OD) x 12" RocketorFountainTubes *per 12* \$21.00

LANCE TUBES & COLORED WRAPPED

5 Colors, **Red, White, Blue, Yellow, & Green:** 1 end spun closed
 Bags of 100 pc. **Some tubes have wax.** **TUB LAN = color**
 4.3125" LG x .345" ID x .350" OD 1/2lb - bag of 100 tubes\$ 21.00

**We have the BEST prices
 on fiberglass mortars in the industry!**

*** NEW * FIBERGLASS MORTARS**

Custom made to our specifications with thick reinforced bottom plugs and muzzle openings. Mortar ID is *marked* on each mortar. Listed by mortar ID and over-all length. All prices are *per* mortar.
 2" x 14.25 Fiberglass mortar 0.7 lb **FB2**\$ 3.30
 2 1/2" x 15.82 Fiberglass mortar 1.4 lb **FB2.5**\$ 4.68
 3" x 17.78 Fiberglass mortar 1.8 lb **FB3**\$ 8.28
 4" x 21.75 Fiberglass mortar 3.4 lb **FB4**\$ 14.58
 5" x 31.62 Fiberglass mortar 6.2 lb **FB5**\$ 22.32
 6" x 35.58 Fiberglass mortar 9.2 lb **FB6**\$ 29.19
 8" x 43.48 Fiberglass mortar 17.9 lb **FB8**\$ 58.35
 10" x 47.44 Fiberglass mortar 35 lb **FB10**.....\$ 67.20
 12" x 51.39 Fiberglass mortar 45lb **FB12**.....\$ 83.40
 16" x 63.25 Fiberglass mortar **FB16**\$374.00

We do stock **HDPE Mortars** also, please call for pricing.

TUBES, CASINGS & DISCS

DISCS FOR AERIAL SHELLS

Made in the USA! Paperboard discs for shells are 1/8" (120 Point) thick.
Discs are grouped and priced per size disc within each group!

D01	2 1/2" Plain	10.....	\$ 1.50
D02	2 1/2" w/1/4" hole	100.....	\$ 12.00
D03	2 1/2" w/3/8" hole	500.....	\$ 50.00
D04	2 1/2" w/11/16" hole	1,000.....	\$ 90.00
D05	2 5/8" Plain or w/1/4" hole		
D07	3 1/2" Plain	10.....	\$ 2.00
D08	3 1/2" w/1/4" hole	100.....	\$ 16.00
D09	3 1/2" w/3/8" hole	500.....	\$ 75.00
D10	3 1/2" w/11/16" hole	1,000.....	\$135.00
D11	3 5/8" Plain		
D12	3 5/8" w/1/4" hole		
D13	4 1/2" Plain	10.....	\$ 3.00
D14	4 1/2" w/1/4" hole	100.....	\$ 28.00
D15	4 1/2" w/3/8" hole	500.....	\$130.00
D16	4 1/2" w/1/2" hole		
D17	4 1/2" w/11/16" hole		
D18	5 1/2" Plain	10.....	\$ 4.00
D19	5 1/2" w/3/8" hole	100.....	\$ 36.00
D20	5 1/2" w/11/16" hole	500.....	\$160.00
D21	6 1/4" Plain	10.....	\$ 6.00
D22	6 1/4" w/5/8" hole	100.....	\$ 50.00
D23	7 1/4" Plain	10.....	\$ 7.00
D24	7 1/4" w/5/8" hole	100.....	\$ 60.00
D25	9" Plain	10.....	\$ 8.00
D26	9" w/5/8" hole	100.....	\$ 70.00

Many other sizes also available, some with center holes. They range in thicknesses from 30, 60 to 120 point or thousandths of an inch. Please call for a quote on these sizes and your quantities!

PAPER SPHERICAL AERIAL SHELL CASINGS

These are real **Japanese and Chinese** paper round shell casings, with matching edges! Sets are two halves or Nesting Sets (inners and outers) are four halves. Size by mortar ID. *Priced per set.*

J16" Japanese Paper casing *Set* \$ 129.00
 J24" Japanese Paper casing *Set* \$ 250.00

CHINESE PAPER CASINGS

LD9012E	- 1.5" Chinese Paper casing <i>Set</i>	.....	\$ 0.25
LD9021E	- 2" Chinese Paper casing <i>Set</i>	.....	\$ 0.30
LD9023E	- 2.5" Chinese Paper casing <i>Set</i>	.....	\$ 0.40
LD9031	- 3" Chinese Paper casing <i>Set</i>	.....	\$ 0.60
LD9041	- 4" Chinese Paper casing <i>Set</i>	.....	\$ 1.00
LD9051	- 5" Chinese Paper casing <i>Set</i>	.....	\$ 1.50
LD9061	- 6" Chinese Paper casing <i>Set</i>	.....	\$ 2.50
LD9081	- 8" Chinese Paper casing <i>Set</i>	.....	\$ 6.00
LD9101	- 10" Chinese Paper casing <i>Set</i>	.....	\$ 10.00
LD9121	- 12" Chinese Paper casing <i>Set</i>	.....	\$ 18.00
LD9161	- 16" Chinese Paper casing <i>Set</i>	.....	\$ 32.00

AERIAL SHELL CANISTER & CAPS SETS

Spiral wound Kraft paper Canister & Caps for Star & Component Shells.
 2 Caps are included with each canister. Disks are listed above.

3" - 2 5/8" OD x 2 1/2" LG 25pc w/ 50 caps	.....	\$ 20.50
3" - 2 5/8" OD x 3" LG 25 pc w/50 caps	.....	\$ 22.00
4" - 3 5/8" OD x 2 1/2" LG 25 pc w/50 caps	.....	\$ 29.50
4" - 3 5/8" OD x 3" LG 25 pc w/50 caps	.....	\$ 32.75
5" - 4 1/2" OD x 3" LG 25 pc w/50 caps	.....	\$ 40.50
5" - 4 1/2" OD x 3 1/2" LG 25 pc w/50 caps	.....	\$ 46.75
6" - 5 1/2" OD x 4" LG 25 pc w/50 caps	.....	\$ 57.50
C3S 3" - 2 1/2" ODx 2 1/2" LG <u>5/16</u> " wall Can only ea.	.....	\$ 0.85
C3SD 3" - 2 5/8" ODx 2 1/2" LG <u>5/16</u> " wall Can w/1 disk glued on	\$	0.95
C4S 4" - 3 9/16" OD x 3" LG <u>1/2</u> " wall Can only ea.	.....	\$ 1.65
C4SD 4" - 3 9/16" OD x 3" LG <u>1/2</u> " wall w/ 1 disk glued on ea.	\$	1.75
C5S 5" - 4 1/2" OD x 3 1/2" LG <u>1/2</u> " wall Can only each	.....	\$ 2.20
C5SS 5" - 4 1/2" OD x 4" LG <u>11/16</u> " wall Can only each	.....	\$ 2.25

NEW * PYROCLOCK

Made by RAYTECH Animation, Inc.

They just snap together for quick precise timed flight of shells or any type of Pyrotechnic and or Fireworks device that needs to be timed accurately.

Used to make all types of timing chains, just use your imagination!

PyroClock stopper each	\$ 0.20**
1 second delay time each.....	\$ 0.69**
1.5 second delay time each.....	\$ 0.72**
2 second delay time each.....	\$ 0.75**
2.5 second delay time each.....	\$ 0.78**
3 second delay time each.....	\$ 0.81**
4 second delay time each.....	\$ 0.84**
5 second delay time each	\$ 0.87**

If you are serious about Fireworks & Pyrotechnic manufacturing you just need to have some of these machines to stay competitive with your competitors!

“These machines will produce HIGH quality products with high production results and standards!”

MACHINES OF ALL KINDS!

These machines are made for **Heavy** and **Full** time production usage! They are made from the very best materials available with safety in mind. These are industrial type equipment made to safety codes; no amateur quickly made none compliant code junk here. All have been used in a large USA manufacturing company and have proven safe and reliable for decades.

QUICK MATCH MACHINE

Complete Quick Match or Black Match production system capable of over 68,000 feet of bare quick match in an 8 hour day with cleanup time. Only needs 2 people to run. The system has a small foot print of space for setup. Runs on 115 Volts AC 60 cycles, explosion Proof electronics and controls, needs a small amount of low pressure compressed air. Many options are available so please call us with your needs.
Only \$41,250.00 for basic system

QUICK MATCH TUBING & BUNDLING MACHINE

Complete Quick Match Tubing & Bundling system capable of over 33,000 feet of Piped/tubed Quick Match in an 8 hour day. This system also has a small foot print of area used for setup. Runs on 115 Volts AC 60 cycles, with explosion Proof electronics, and controls, Only \$29,890.00 for basic system

TAPE FUSE MAKING MACHINES

Complete Tape Fuse Making system capable of over 12,000 feet or 200 - 60 foot long rolls of finished Tape/Sticky Fuse/Match in an 8 hour day. Needs only 1 person to run, with Easy setup, Easy operation, Easy cleanup, very small foot print of production area needed. Runs on 115 Volts AC 60 cycles, with explosion Proof electronics and controls.
Only \$11,550.00

TIME FUSE CUTTING MACHINE

Complete ¼” Time Cutting system capable of over 18,000 pieces cut, but amount will vary per length of piece cut, in an 8 hour day. Needs only 1 person to run. Easy setup, Easy operation, Easy cleanup, very small foot print of production area needed, less than 3 square feet. Runs on compressed air only. System has 2 hands safety switches per OSHA requirements.
Only \$7,150.00

SPIKING OR STRINGING 3-RD HAND MACHINE

Complete easy to use, just clamp to your work table and start stringing your shell, fuse, & etc. All aluminum construction. Can be used with Cotton, Jute, or Flax twine.
Only \$95.00

PRESSES OF ALL KINDS

Complete systems, with Dwell Timers for Up and Down Stroke and Holding Pressure. Can be tooled to your applications. From 1 ton and up. Can be automated with die set insertion and extraction systems. Many options are available.
Please call for a quote for your particular application.

SHELL PASTING MACHINE

These use Kraft Paper Tape for Round shell pasting. 3 sizes are available. Type I for shells 1 ½” diameter up to 4”, and Type II for 5” up to 6”, Type III 8” diameter up to 12”, 16” size diameter by special order. Computer controlled with latest operating systems XP, VISTA, & W7 compliant. All metal construction of non-sparking materials. Pendants/Remote controls are available.
Type I - 1 ½” -- 5” sizeCall for a quote
Type II - 5” ---- 6” size.....Call for a quote
Type III - 8” --- 12” size.....Call for a quote

SHELL TAPING MACHINE

These use Masking Tape for both **Round** and **Canister** configuration containers. Will work on shells from 3” diameter up to 12”. Works on both plastic and paper materials. Can place 2 layers or wraps on in 22 seconds on all sizes. Runs on 115 Volts AC 60 cycles, with explosion Proof electronics and controls,
Only \$8,250.00

Table Top model with no guards only \$2000.00!!

■ **We do have other machines that we make and use. If you have a special application please call as we may have a Machine Solution to your production needs, or up coming project! ---**