

# AeroSpace Research

Prices are subject to change without notice. Always confirm the price when ordering.

**Pricelist Date:** 1-Feb-2017

**Bank Details:**

**Mobile:** 072 777 8018  
**Fax:** 086 720 4430  
**Email:** [iohanng@live.com](mailto:iohanng@live.com)  
**Web Site:** [www.rocketry.co.za](http://www.rocketry.co.za)  
**Address:** RocketStore  
 No. 50 Juta street  
 Rothdene, Gauteng  
 1961

**Bank:** First National Bank  
**Account No:** 624 063 53 996  
**Branch code:** 250 655  
**Snail mail:** PO Box 321  
 Rothdene  
 1964

**CODE NAME Price Description/Comments**  
 All kits are customisable by the user. Always check CP/CG relationship before flying any Rocket.

| Rocket Airframe Kits | Name              | Diameter | Price    | Description/Comments   |
|----------------------|-------------------|----------|----------|--|
| RK-NOVA-1            | SuperNOVA         | 43       | R 250.00 | Mid-power Rocket kit for F and G motors - Very sleek looking and the popular 3FNC design. Parachute included.                                    |
| RK-NOVA-2            | Tomahawk          | 43       | R 250.00 | Mid-power Rocket kit for F and G motors - Semi-scale model of IQSY Tomahawk sounding rocket. Parachute included.                                 |
| RK-STEM-1            | STEM-1            | 68       | R 700.00 | Mid-power Rocket kit for F and G motors - Large Mid-power rocket. Parachute included.  |
| RK-1                 | StarChaser 2      | 68       | R 500.00 | The ideal entry level kit. It contains all the parts needed to build a Rocket for use with Level 1 certifications. Parachute not included.       |
| RK-2                 | AMRAAM            | 68       | R 550.00 | The ideal entry level kit. It contains all the parts needed to build a Rocket for use with Level 1 certifications. Parachute not included.       |
| RK-3                 | Interceptor       | 80       | R 650.00 | The ideal entry level kit. It contains all the parts needed to build a Rocket for use with Level 1 and 2 certifications. Parachute not included. |
| RK-4                 | Tsyklon (Cyclone) | 105      | R 950.00 | Largest Rocket kit in SA. It contains all the parts needed to build a Rocket for use with Level 1 and 2 certifications. Parachute not included.  |
| RK-5                 | Taurus            | 105      | R 800.00 | Largest Rocket kit in SA. It contains all the parts needed to build a Rocket for use with Level 1 and 2 certifications. Parachute not included.  |
| RK-6                 | Pegasus           | 105      | R 850.00 | Largest Rocket kit in SA. It contains all the parts needed to build a Rocket for use with Level 1 and 2 certifications. Parachute not included.  |
| RK-7                 | AMRAAM            | 105      | R 950.00 | Largest Rocket kit in SA. It contains all the parts needed to build a Rocket for use with Level 1 and 2 certifications. Parachute not included.  |

## Recovery Components

|              |                              |   |        |   |
|--------------|------------------------------|---|--------|---|
| <b>RRS-1</b> | 68mm Rocket Recovery System  | R | 500.00 | Complete with 1200mm Main (12-panel Canopy), 600mm Drogue, 2 harness sets, Quick-links and pistons. |
| <b>RRS-2</b> | 105mm Rocket Recovery System | R | 850.00 | Complete with 2000mm Main (12-panel Canopy), 600mm Drogue, 2 harness sets, Quick-links and pistons. |

| Item  | Size (mm)     | Price      | Description                                  |
|---|---------------|------------|--|
| <b>Parachute</b>                              |               |            |  |
| PM3000  | 3000          | R 1 050.00 | For Rockets up to 20kg (12-Panel Canopy)     |
| PM2000  | 2000          | R 650.00   | For Rockets up to 9Kg (12-Panel Canopy)      |
| PM1200  | 1200          | R 350.00   | For Rockets up to 3Kg (12-Panel Canopy)      |
| PD1000  | 1000          | R 200.00   | Drogue, very tough for high-speed deployment |
| PD600   | 600           | R 150.00   | Drogue, very tough for high-speed deployment |
| PD300   | 300           | R 100.00   | Drogue, very tough for high-speed deployment |
| <b>Nylon Webbing</b>                          |               |            |  |
| <b>Nylon Webbing is sold per meter</b>        |               |            |  |
| TN25  | 25            | R 30.00    | Rockets up to 20Kg                           |
| TN15  | 15            | R 15.00    | Rockets up to 9Kg                            |
| TN5   | 5             | R 7.00     | Rockets up to 6Kg                            |
| TN3   | 3             | R 4.00     | Rockets up to 2Kg                            |
| <b>Harness (Shock Cord)</b>                   |               |            |  |
| Ready made with Kevlar thread and quick links |               |            |  |
| FNH-9   | 5m with loops | R 115.00   | Rockets up to 9Kg                            |
| TNH-2   | 4m with loops | R 55.00    | Rockets up to 6Kg                            |

## Rocket Components

All bulkheads and centering rings are available in custom sizes and designs.

### Construction Items

| Item      | Size (mm)         | Price | Comment   |
|-----------|-------------------|-------|---|
| NC-105    | Nosecone          | 105   | R 350.00 Plastic, 430mm long - Hand lay-up Fibreglass available at R150 extra |
| BT-105    | Body Tubes        | 105   | R 30.00 550 or 700mm long   |
| CT-105    | Coupler Tubes     | 105   | R 25.00 200mm long  |
| CR-105-76 | Centring Rings    | 105   | R 25.00 for 76mm Motors   |
| CR-105-51 | Centring Rings    | 105   | R 25.00 for 51mm Motors   |
| BH-105    | Bulkheads         | 105   | R 25.00 To fit a body tube or coupler tube, please specify                    |
| NC-80     | Nosecone          | 80    | R 220.00 Plastic, 330mm long - Hand lay-up Fibreglass available at R150 extra |
| BT-80     | Body Tubes        | 80    | R 25.00 400, 600 or 700mm long  |
| CT-80     | Coupler Tubes     | 80    | R 20.00 160 or 200mm long   |
| CR-80-51  | Centring Rings    | 80    | R 20.00 for 51mm Motors   |
| CR-80-38  | Centring Rings    | 80    | R 20.00 for 38mm Motors   |
| BH-80     | Bulkheads         | 80    | R 20.00 To fit a body tube or coupler tube, please specify                    |
| NC-68     | Nosecone          | 68    | R 180.00 Plastic, 280mm long - Hand lay-up Fibreglass available at R150 extra |
| BT-68     | Body Tubes        | 68    | R 20.00 350, 450, 500mm long  |
| CT-68     | Coupler Tubes     | 68    | R 15.00 140 or 200mm long   |
| CR-68-51  | Centring Rings    | 68    | R 20.00 for 51mm Motors   |
| CR-68-38  | Centring Rings    | 68    | R 20.00 for 38mm Motors   |
| BH-68     | Bulkheads         | 68    | R 20.00 To fit a body tube or coupler tube, please specify                    |
| BT-43     | Body Tubes        | 43    | R 10.00 350mm long  |
| MMT-76    | Motor Mount Tubes | 76    | R 25.00 700mm long (Size given is Inner Diameter)                             |
| MMT-51    | Motor Mount Tubes | 51    | R 15.00 450mm long (Size given is Inner Diameter)                             |
| MMT-38    | Motor Mount Tubes | 38    | R 10.00 350mm long (Size given is Inner Diameter)                             |

## Miscellaneous

| Item | Size (mm)                | Price | Comment  |
|------|--------------------------|-------|--|
| UB-6 | U-Bolts                  | 6     | R 20.00 Including nuts and washers   |
| EB-6 | Eye Bolts                | 6     | R 15.00 Including nuts and washers   |
| TR-6 | Threaded Rods            | 6     | R 20.00 1000mm   |
| ES-1 | Epoxy System             | R     | 300.00 1 kg Epoxy and fillers  |
| ES-2 | Epoxy Resin and Hardener | R     | 250.00 1 kg. Excellent for all projects.   |
| CF-1 | Cotton Flocks            | R     | 50.00 For making strong fillets and general bonding with epoxy.                                  |
| MB-1 | Micro Balloons           | R     | 50.00 For making fillets and filling imperfections. Makes sanding easier.                        |
| LB-1 | Launch Button            | R     | 15.00 Large for 105mm and larger. These are professionally turned form high quality PE Plastics. |
| LB-2 | Nylon runner             | R     | 5.00 Small for standard rail - up to 105mm Rockets   |
| RR-1 | Rocket Ruler             | R     | 20.00 Angle Aluminium that makes drawing straight lines on round tubes easier.                   |

## Flight Electronics

| Item  | Price      | Description  |
|-------|------------|--|
| AIM-1 | R 1 000.00 | AIM Recording Altimeter USB Use only Energizer/Duracell Batteries with this device! Other batteries don't have the ability to fire the charges reliably. |
| REC-1 | R 250.00   | Electronic Timer with deceleration activation. Up to 99 seconds with 1 second interval.  |

|         |                             |   |       |
|---------|-----------------------------|---|-------|
| EMP-68  | 68mm Rocket Mounting plate  | R | 15.00 |
| EMP-80  | 80mm Rocket Mounting plate  | R | 20.00 |
| EMP-105 | 105mm Rocket Mounting plate | R | 25.00 |

**Rocket Motors**

**Comments**

Rocket motors will use a corresponding reload on each flight.

|            | Item              | Size | Price      |      |
|------------|-------------------|------|------------|------|
|            | <b>Hardware</b>   |      |            |      |
| RM-38-80   | F-Class (2-grain) | 38   | R 600.00   |      |
| RM-38-160  | G-Class (3-grain) | 38   | R 600.00   |      |
| RM-38-300  | H-Class (6-grain) | 38   | R 600.00   |      |
| RM-38-480  | I-Class (9-grain) | 38   | R 600.00   |      |
| RM-51-600  | I-Class (4-grain) | 51   | R 1 200.00 |      |
| RM-51-900  | J-Class (6-grain) | 51   | R 1 250.00 |      |
| RM-51-1250 | J-Class (8-grain) | 51   | R 1 300.00 |      |
|            | <b>Reloads</b>    |      |            |      |
| F-100      | F-Class (2-grain) | 38   | R 85.00    | 80   |
| G-150      | G-Class (3-grain) | 38   | R 105.00   | 160  |
| H-180      | H-Class (6-grain) | 38   | R 145.00   | 300  |
| I-200      | I-Class (9-grain) | 38   | R 175.00   | 480  |
| I-210      | I-Class (4-grain) | 51   | R 200.00   | 600  |
| J-250      | J-Class (6-grain) | 51   | R 280.00   | 900  |
| J-350      | J-Class (8-grain) | 51   | R 350.00   | 1250 |

All reloads include an igniter and ejection charges. Quoted performance is approximate.

Total impulse (Ns)