COMPOSITE TOOLS

The tools offered in this section have been selected by professional aircraft designers and builders as being either necessary or highly desirable for working with composite structures.

KUT-MASTER FOAM CUTTING FRAME

These custom-built foam cutting frames can help produce professional results in foam cutting for the amateur builder. Constructed of 1-1/8” O.D. aluminum tubing, the heli-arc welded frame is lightweight yet extremely durable. The frames come completely pre-wired and ready to attach to the voltage controls shown below, and a tensioning system maintains uniform wire tension throughout the cutting process. The frames are stocked in 3 standard lengths, and custom frames are available on request (send sketch). Cutting depth is 11”. Weight- 5 lbs.

2 Ft. Frame ....................P/N 01-15200 .................... $218.00
3 Ft. Frame ....................P/N 01-15300 .................... $218.00
4 Ft. Frame ....................P/N 01-15400 .................... $234.00

HOMEBUILDERS SPECIAL HOTWIRE KIT

An excellent new hot wire system consisting of a controller and transformer. Recommended by Rutan Aircraft Factory as a good system at a very economical price .

P/N 01-15600 ........................ $49.95

SAFETY WIRE

Type 302 stainless steel safety wire, for hot wire cutter. This is superior to nichrome wire, which is brittle and breaks easily. Specify .032” or .041” diameter wire.

.032” Dia. Wire, 25 Ft. Coil........P/N 01-15725........... $1.11
.041” Dia. Wire, 25 Ft. Coil........P/N 01-15825........... $1.11
1 Lb. Spool..........................P/N 05-02687........... $8.50

INCONEL 600 HOT WIRE

Does not stretch. Excellent for hotwiring polystyrene foam.

.032” Dia. Wire ........P/N 01-15805 ........... $0.35 ft.
.041” Dia. Wire ........P/N 01-15810 ........... $0.24 ft.

MUSIC WIRE

Music wire is high carbon steel and although very high in tensile strength, must be capable of wrapping around itself without showing signs of cracking. 156 ft. of .049” dia. wire per lb., 46 ft. of .090” dia. wire per lb. 22 Ga. Price is per pound.

.049” Dia. (1 lbs.) ................P/N 03-49500 .......... $6.50
.090” Dia. (32Ga., 1 lbs.) ........P/N 03-49600 .......... $4.45

TYPE 302 STAINLESS SPRING WIRE

.062” Dia. ........P/N 03-49610 ........... $0.27 ft

MUSIC WIRE

.032” Dia. Wire ........P/N 01-15825 ........... $0.35 ft
.041” Dia. Wire ........P/N 01-15810 ........... $0.24 ft

MICHAEL ENGINEERING EPOXY RATIO PUMPS

This highly recommended pump, aptly called “Sticky-Stuff Dispenser”, will save about $50 in epoxy in building a VE type aircraft, plus time, mess, dermatitis, temper and risk of bad batches. Used by individual craftsmen and professionals alike, it is a practical engineering tool especially designed to eliminate the sticky, messy, costly hand proportioning of epoxy resins. It is well built and should last through the construction of dozens of aircraft. The Sticky-Stuff Dispenser pump delivers a ratio of 100 parts of resin to 44 parts of hardener.

Adjustable Ratio Pump .................. P/N 01-16010 ....... $319.00
Rebuild Kit for 45:100 pump ............ P/N 01-00504 ....... $78.75
Small round replacement container (qt) P/N 01-15920 ....... $3.50
Large square replacement container (gal) P/N 01-15910 ....... $18.65
Stainless Steel Check Valve (Use with Jeffco epoxies) P/N 01-00228 ....... $59.75

CALRAD VARIABLE VOLTAGE CONTROL

A fine quality control to supply the electrical current for hot-wire cutting of styrofoam and PVC foam. One unit can serve to build many aircraft. Input 115 volts AC Output variable from 0 to 130 volts AC at 5 amps Caution - fuse should be inserted in the secondary to protect the control in the event of a short circuit.

Input: 117V AC 60Hz 3-Prong AC cord. Output: 0-130V AC Adj 60Hz; volt meter, power jack. Fuse Protection AGC: 5 Amp. Max: 500VA

P/N 01-01294 .................. $174.75

COMPOSITE TOOL KIT

This kit includes an assortment of many of the commonly required tools used in composite construction.

QTY. PART NO. DESCRIPTION
1 .......................... 20W ......................................... Glass Shears
1 box ........01-25800 ................ 500 Mixing Sticks
2 boxes ........01-25700 ................ 12 oz. Mixing Cups
2 boxes ........01-25710 ................ 16 oz. Mixing Cups
10 ........01-24899 .................. 3” Plastic Squeegee
10 ........09-21200 .................. 1” Disposable Brushes
10 ........09-21300 .................. 2” Disposable Brushes
1 ........12-01580 .................. Electronic Scale
2 boxes ........01-36550 ................ Latex Gloves
1 ................ GLR123D .................. 1/2” x 3” Laminating Roller
1 ................ GLR12C .................. 1/2” Corner Roller
1 ................ GLRP26 .................. 2” x 6” Plastic Grooved Roller

Kit - P/N 01-00166 .................... $208.95

Price Subject to Change Without Notice