

मिनी टूल किट

Mini Toolkit*

for Bamboo

Instruction Manual



AG BAMBU ST^YLE PVT LTD

a company incubated at
SINE IIT Bombay

Mini Toolkit

for Bamboo



Mini Tool Kit has been developed at Bambu studio of Industrial Design Centre, IIT Bombay by Prof. A.G. Rao and his team. It has evolved with the experience gained in U.N.D.P. project for developing Tools, Small technologies and Finishes in 2001.

Mini Tool Kit was introduced as a part of K.V.I.C. project. "Mini Bamboo clusters" undertaken by Bambu studio at I.D.C.

The mini toolkit has been field tested with more than a dozen craft groups.



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Multipurpose Knife

The IDC multipurpose knife is designed to have blades on edges for multiple functions. Its round handle fits in the palm providing good grip.

220mmx40mmx30mm



Used for

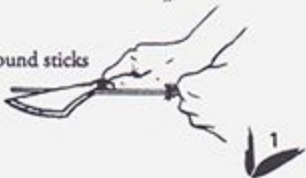
1 Scrapping outer surface of bamboo



2 Rounding edges of strips



3 Making round sticks



Pruning Scissors



Pruning Scissors have curved shears to hold the object in place without slipping. The curved blades also help in clipping strips without causing splits.

50mm x 18.5mm x 20mm



1 It is used for cutting branches from Bamboo



2 Cutting Sticks



3 Trimming Strips



IDC Fine Splitting Knife

The IDC Fine Splitting Knife is specially designed with a flat handle to provide variable grip for fine work. It can be used comfortably for extended periods of time

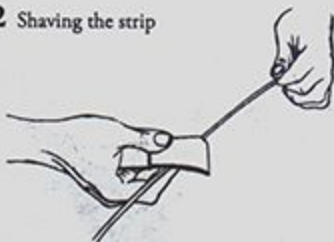
175mmx32mmx35mm



1 Splitting bamboo into strips



2 Shaving the strip



Mini Hack Saw

The mini hack saw has a thin 6" blade to facilitate fine cuts. It's frame and handle are made in one piece from a bent steel rod. It can also be used to make 1mm cuts in 2mm thick strips by adding an attachment on to the blade.

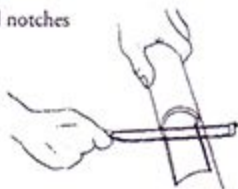


235mmx70mmx80mm

1 Cutting to size bamboo and cane rods of small diameter



2 Cutting small notches



Measuring Tape

The measuring tape is a standard tailor's tape used for measuring various lengths.



150mmx13mm

1 Measuring length of bamboo



2 Measuring circumference of baskets and length of rims of different sizes



Gauge

The IDC Gauge is laser cut to precision with engraved markings for accurate measurement and can be easily carried around in a key chain. Measurement of strips from 0.25 mm to 25mm is possible with this gauge.

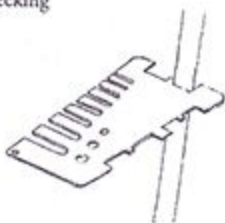


85mmx43mmx1.2mm

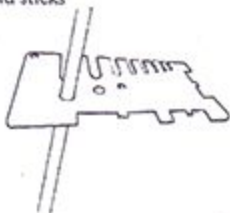
1 Measuring and checking the thickness of strips



2 Measuring and checking width of strips



3 Measuring and checking diameter of round sticks



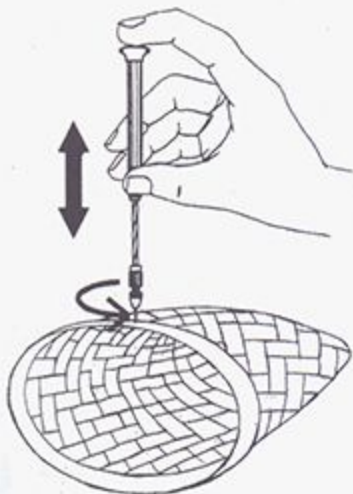
Pen Drill

Pen Drill is a special tool. It has a slim elegant handle which facilitates piercing without splitting. A standard drill bit of 2mm or 1mm dia. can be fixed to the drill.



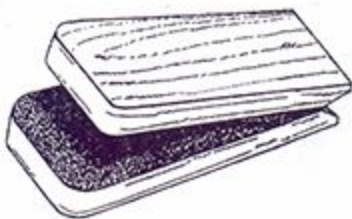
20mmx20mmx186mm

1 Mini Hand Drill makes it convenient to drill holes. The up and down motion of hand rotates the drill and it pierces the surface.



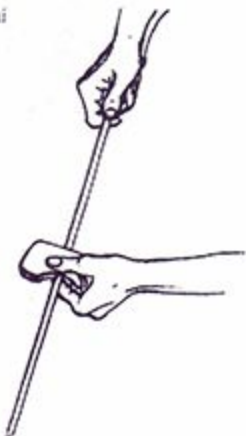
Sand Paper Folding Pad

The sand paper folding pad has sandpaper on both sides. This makes the sanding of strips on both sides by pulling through the pad quite easy.



105mmx50mmx27mm

1 Smooth finish
bamboo strips



Pin for Centre Table

Centre Pin is made of aluminium with a rounded head on top side which acts as fulcrum. Bottom portion fits into a bare plate.



27mm x10mm x10mm

1 It is used for facilitating the rotation of mould plate on which objects are wound in coil technique.



Scraper

Scraper is innovated at IDC for scrapping and finishing different contours in bamboo bowls, plates etc. made with coil technique. It is made of hardened spring steel.

154mmx70mmx2mm



1 Finishing out side curvature of bowl



2 Finishing outside rounded edge of the plate



3 Scrapping the flat surface of plate made of coil technique

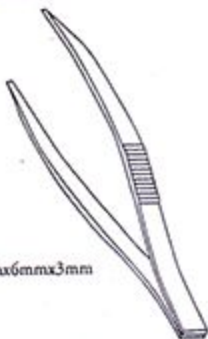


4 Scrapping and finishing inside round edge of the bamboo plate.



Tweezer

Pair of tweezers is made of spring steel. It is a handy tool to take out splints from the hand.



90mmx6mmx3mm

1 Removing bamboo splints from fingers



Toolkit Maintenance

All the tools in the toolkit are made with 'good quality materials' like high carbon spring steel. The tools have been treated for prevention of rust. However all the tools need to be oiled and kept if they are not used for long periods.

Tools need sharpening depending on the frequency of use for good performance. Standard grinding stone can be used for general tool sharpening. Emery paper or good quality sand paper with different roughness can also be used for sharpening the tools.

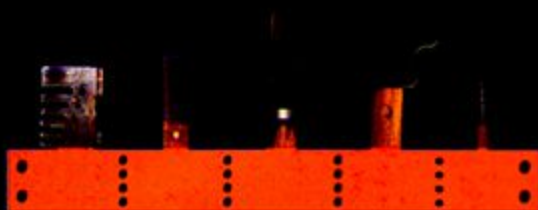
Sand paper with cloth backing is available in different grit size (roughness). Sandpaper can be easily cut to shape and stuck on wood with a good adhesive like SR 90 or Fevicol. Sand paper with grit no. 120 is recommended while changing the sheet on sand pad and file

About Bamboo studio

Bambu Studio at Industrial Design Centre, IIT Bombay is unique studio where bamboo craft products are developed. The mini toolkit is designed and developed at Bambu Studio. A major toolkit and small machines have also been developed. Training to craft persons with new designs, moulds, jigs and fixtures as well as finishes and colouring with natural dyes is also undertaken by Bambu studio from time to time.

A.G.Bambu Style is a private limited company with social concern formed under SINE (Society for Innovation and Entrepreneurship) IIT Bombay, to make tools and craft products commercially available to the public.





Toolkits can be ordered from

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