Low Cost Axminster Sampling with the Kibby G5.100 Nov 2012

Kibby G5.200

The G5.100 Kibby

makes economic sense for occasional Axminster Sampling

The Kibby G5.200 is shown to the left.

Many features are the same between the G5.200 and G5.100:

- Same frame
- Same creel (20 position capability)
- Same machine guarding
- Same control system
- Same sized samples, up to 500x500

The differences between the G5.200 and G5.100:

- economical XY drive system on G5.100
- lower speed allows less head sensors
- simplified
- simplified pneumatics
- Manual pile height adjustment
- Repositioned Control Box

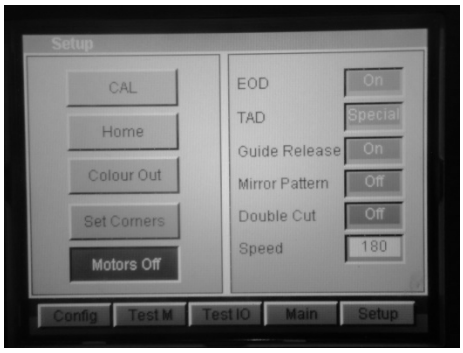
With over **180 machines** around the world the **Kibby** is truly the standard machine for Axminster sampling. The G5.100 is the new super low cost version of our Kibby machine.

Some potential owners of the Kibby machine want a sample system for very occasional use. The G5.100 and the following information enables the production of Kibby axminster samples at a very affordable price point.

This document outlines the features of the new G5.100 and economic solutions to shearing and backing your Kibby samples. The resultant samples are the same quality as those produced on our higher production solutions.

Features of the G5.100

1. Industrial Control System

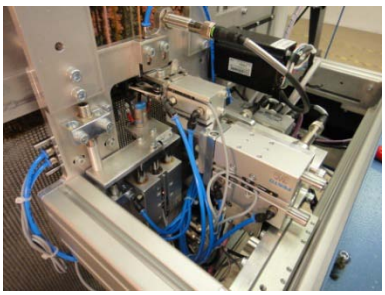


Kibby Touch Screen Display

An all new industrial control system is utilised on all the Kibby G5 models. The touch screen allows a simple user interface. Distributed Industrial controls with simplified and rugged wiring means increased electrical reliability. Patterns (.pat format) are loaded onto the Kibby G5 via a USB flash drive meaning no PC hardware on the Kibby. The G5 has an embedded control system meaning no Windows operating system is required on the machine. No Windows updates required! The G5.100 includes a PC application (runs on your PC) to convert your .BMP designs into .PAT

G5.100 features monochrome touch screen

2. Rugged Head components



G.200 Head Detail

The G5.100 Head uses "guided cylinders" which are pneumatic cylinder integrated with linear bearing guides. This means a dramatic reduction in parts required for individual functions - for example:

- The Mk3 Kibby needle cylinder and bearing assembly has 25 components
- The G5 Kibby equivalent assembly has 5 parts.
- Service life of the 2 assemblies is the same

This means a saving in spare parts price.

3. Less Adjustments

There are no speed controls on the Kibby G5.100 Pneumatics. There are no adjustments for bearing clearances on the head actions. Less adjustments means less chance of things to go wrong!

4. Best features of recent models

In the development stages of the G5.100 Modra considered the best features of the past Kibby Machines, and incorporated them into this new range.

The ceramic cutter from the Mk3 machine has proved to be reliable - it is used on the G5 models. The Color Bar from the Mk3 is retained - and poly tubing incorporated to minimise the chance of tangling of adjacent yarns.

On the G4 Kibby the sample back can be viewed as the machine is in operation - the G5 has this feature. The G4 Kibby introduced a jaw electrical contact end out detection system, this is used on the G5.100 and is an improvement over the mechanical (Mk2) and Fibre Optic (Mk3) systems.

Options for Backing Kibby Samples

Modra offer solutions for high production backing and shearing of samples. But if your sample production needs are moderate (for example less than 2 per day) there are some options.

Latex can be used with a drop-weave backing., however this can take a day to dry fully.

Modra can supply hot melt backing to give a clean uniform finish to the back of the sample. This can be applied in a low cost way in the following manner:

A Kibby sample is produced on the Kibby machine. In this instance, the sample is half the pegboard full size.

Hot Melt is normally applied to the loop side of the sample

The Pegboard is protected from Hot Melt Adhesive with masking tape.

A Hot melt sheet is cut in half to suit this sample
Full size hotmelt sheet is 520 x 520

The teflon sheet is laid over the back of the hotmelt

A conventional iron is used to heat the holt melt evenly across the entire sample. If necessary, heat a section of hotmelt at a time.

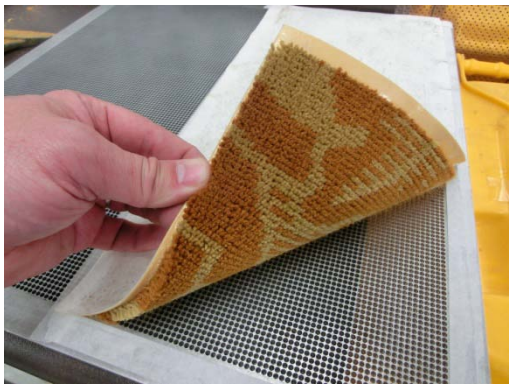
(this takes approx 10 minutes)

The Roller is used to smooth and force the hotmelt into the back of the tufts

The pegboard is turned over, the scraper is used to shear the cut side of the sample level with the surface of the pegboard.

(this takes approx 10 minutes)

Detail of pegboard after shearing is complete



Sample removed from Pegboard

Finished Sample, ready for trimming.

Videos, reference lists and other information available on the website: www.modra.com.au

Contact Modra or for your local representative see: www.modra.com.au/index.php/contact/

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