

The Kibby G5 100 / 200 / 300

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The Kibby Machine is the world's only solution to dedicated sampling for Axminster Carpet.

Modra Technology has released a new range of Kibby Machines, the new G5 models.

The range:

- **G5.100** economical
- **G5.200** mid featured
- **G5.300** full featured high speed

The G5 range is a completely new design incorporating the following improvements:

- All new industrial control system
- Simplified Pegboard XY system
- Rugged Head components
- Less Adjustments
- Best features of previous models

Which Sample Machine ?

The answer to this will be determined by the customers budget and sample production needs

Production Capacity

Machine	Samples per Week
G5.100	7
G5.200	14
G5.300	20

Based on the following:

- 40 hours in a week
 - 80% Machine utilization
 - 450 x 450 samples moderate complexity
 - 7 x 8 construction
- (Kibby sample time estimator spreadsheet available)

Product Capabilities

	G5.100	G5.200	G5.300
Axminster 7x6 7x11	Yes	Yes	Yes
Colortec Tufted Samples	Yes	Yes	Yes
Cut Loop Wilton Samples	No	Yes	Yes
Colorpoint Tufted Samples	No	Yes	Yes
Min Time for 10x10 450x450 sample	~8 hours	~4 hours	~2.5 hour
Min Time for 7x8 450x450 sample	~3 hours	~1.5 hours	~1 hour

1. Industrial Control System

An all new industrial control system is utilised on 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 !



Kibby Touch Screen Display

2. Simplified Pegboard XY system

With the Kibby G5 a simplified pegboard transport system was developed. The pegboard moves up and down, and the head moves left and right. Fully enclosed linear actuators means long reliable operation as damaging dust and lint cannot fall on ball screws and ball nuts.

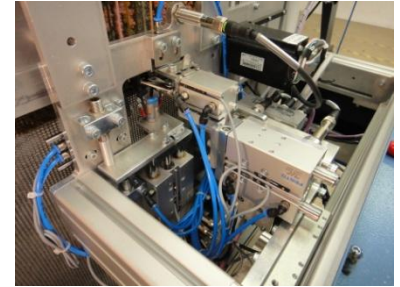


Y drive and enclosed actuator (guard removed)

3. Rugged Head components

The G5 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



G5 Head Detail

This means a saving in spare parts price.

4. Less Adjustments

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

5. Best features of recent models

In the development stages of the G5 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 and is an improvement over the mechanical (Mk2) and Fibre Optic (Mk3) systems

6. G5 Model Feature Comparison

	G5.100	G5.200	G5.300
Machine Footprint	1700 x 1500 x 2250 (WxDxH)		
Power Requirements	220/240 v 5 A single phase		
Air Requirements @ 7 Bar	300 litres/min	400 litres/min	600 litres/min
Touch Screen	Black-White	Color	Color
Pile Height Adjustment	manual	Electronic Axis	Electronic Axis
Maximum Speed	100 per minute	200 per minute	300 per minute
Min Time for 7x8 450x450 sample	~3 hours	~1.5 hours	~1 hour
Maximum Torque XY System	1.0 NM	1.0 NM	3.0 NM
Operator Light	No	No	Yes
Front Panel Controls	No	No	Yes

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/sales@modra.com.au

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