



Fong's National Engineering Co., Ltd.

Members of Fong's Industries Group

LABWIN

Laboratory Package Dyeing Machine



MICROWIN

Mini Sample Yarn Dyeing Machine



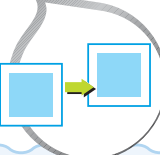
50th ANNIVERSARY
SINCE 1963 | FONG'S INDUSTRIES
立信工業

Yarn Dyeing

LABWIN

Laboratory Package Dyeing Machine

“ LABWIN is designed for dyeing 1-6 standard packages. It apart from a high-quality sampling, it can also be used as small batch dyeing. It is an essential package dyeing machine for every dyehouse. ”




High Reproducibility

Liquor ratio same with production machine, recipe can be directly adapted.



Dual directional dyeing

Dual directional dyeing with ILC* enhances levelness of dyeing.



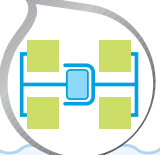
Wide range of machine models

1, 3 and 6 package models available.



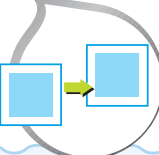
Versatility in capacity

Airpad technology and spindle for reduced loading ensures consistent liquor ratio.



Linking machine functions

Maximum of 4 units of individual machines can be easily linked.



Directly application of processing

Using FC Program Controller, developed recipe is transferable to production.

* ILC : Intelligent Levelness Control



Technical Data

- Design temp: 140°C
- Design pressure: 5.2bar
- Heating gradient: 20 ~ 130°C approx 30min (dry saturated steam pressure at 7bar)
- Cooling gradient: 130 ~ 80°C approx 20min (water pressure at 3bar, at 25°C)

Versatility in Variable Loading

Airpad technology with spindle for reduced loading, the consistency of the liquor ratio is controllable.



Model	Type	No. of linked machines	No. of packages	Max* capacity (kg)	Overall dimension (mm)		
					L	W	H
LABWIN-1	K0	0	1	1.2	1200	863	1122
	K1	1	2	2.4	2400	863	1122
	K2	2	3	3.6	3600	863	1122
	K3	3	4	4.8	4800	863	1122
LABWIN-3	K0	0	3	3.6	1200	980	1222
	K1	1	6	7.2	2400	980	1222
	K2	2	9	10.8	3600	980	1222
	K3	3	12	14.4	4800	980	1222
LABWIN-6	K0	0	6	7.2	1260	980	3590
	K1	1	12	14.4	2520	980	3590
	K2	2	18	21.6	3780	980	3590
	K3	3	24	28.8	5040	980	3590
LABWIN-12	K0	0	12	14.4	1850	950	3882

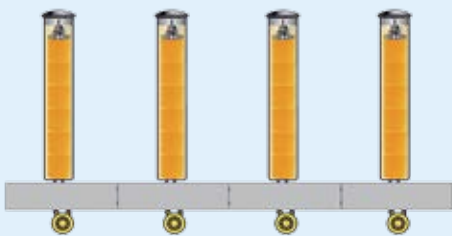
* The capacity is based on a package with an outside winding diameter of 165mm and a weight of 1.2kg. If the winding weight of each package is less than 1.2kg, the capacity is proportionally reduced. Max. package diameter is 165 mm. Enquiries for other matching diameters are welcome.

Application of Linking Machine

4 individual machines can be linked, which also can be easily restored to its original configuration.



Examples of 4 single machines linked together



4 linked machines:
4 linked machines as one unit, producing the same colour; each kier has the same loading.

3+1 Formation:
3 linked machines as one unit, producing the same colour; each kier has the same loading, and 1 individual machine producing different colour from the linked unit, and the kier has different loadings.



2+2 Formation:
2 linked machines as one unit, total 2 units, the colour produced and the loading within each unit are the same but are different from each other.

2+1+1 Formation:
2 linked machines are combined as single unit which produces same colour and has same loading. The remaining two individual machines produce different colour and have different loading from each other.

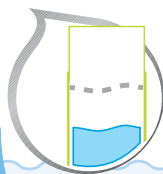


Split use:
4 linked machines all separated from each other, producing different colour, each kier has different loadings.

MICROWIN

Mini Sample Yarn Dyeing Machine

“ MICROWIN can be used to dye small packages, saving expensive yarn materials, dyestuff, chemical and energy cost. It is suitable for laboratory use and is a good companion in high quality dyeing workplace. ”



Ultra-low Liquor Ratio

Liquor ratio same with production machines, ensures reproducibility.



Dual Directional Dyeing

Smallest yarn dyeing machine with true dual directional dyeing.



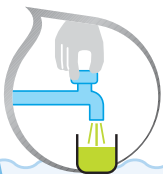
Suitable for Laboratory Use

Immersed electrical heater, no steam required.



Compact and Light-weight

Each side only 1m. Suitable for the work bench.



Easy dye liquor sample collection

Sampling port for dye liquor sample collection, no need to open kier cover.



Cost Saving

Saving 75% of yarn materials, dyes, additives, and energy costs.



Technical Data

- Design temp: 140°C
- Design pressure: 5.2bar
- Heating gradient: 20 ~ 130°C approx 20min
- Cooling gradient: 130 ~ 80°C approx 8min

Model	Capacity (g)	Max package diameter (mm)	Dye tube dimension (mm)	Overall dimension(mm)		
				L	W	H
MICROWIN-1	200 ~ 300	O/D 95mm	I/D 50mm × H 170mm	600	520	900
MICROWIN-2	400 ~ 600			1053	520	900

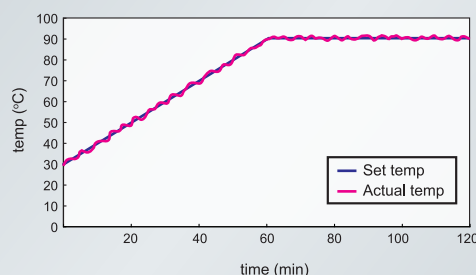
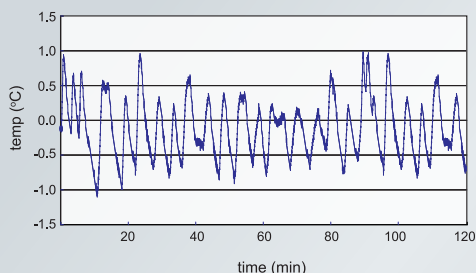
FC30 Series Program Controller

For The Most Dyehouse Network Advanced Control System

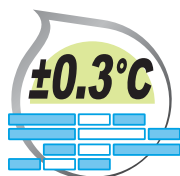
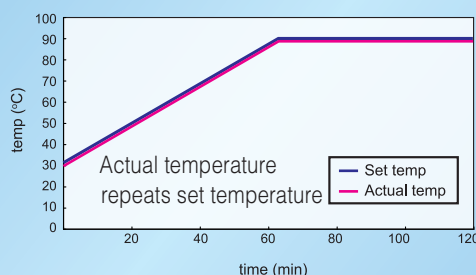
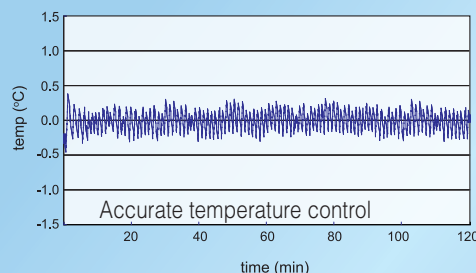
New generation of FC30 program controller has a 6.5-inch 640x480-pixel, TFT color LCD display together with novel control functions, provides the most cost-effective dye cycle control. FC30 can also integrate with our **Viewtex** and THEN-TDS central computer system, providing comprehensive control management.



Conventional PI Control Temp $\pm 1^{\circ}\text{C}$



Fuzzy Control Temp $\pm 0.3^{\circ}\text{C}$



Fuzzy Logic Temperature Control

Unique Fuzzy Logic Temperature Control technology, temperature control can be confined down to $\pm 0.3^{\circ}\text{C}$.



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