

HISAKA

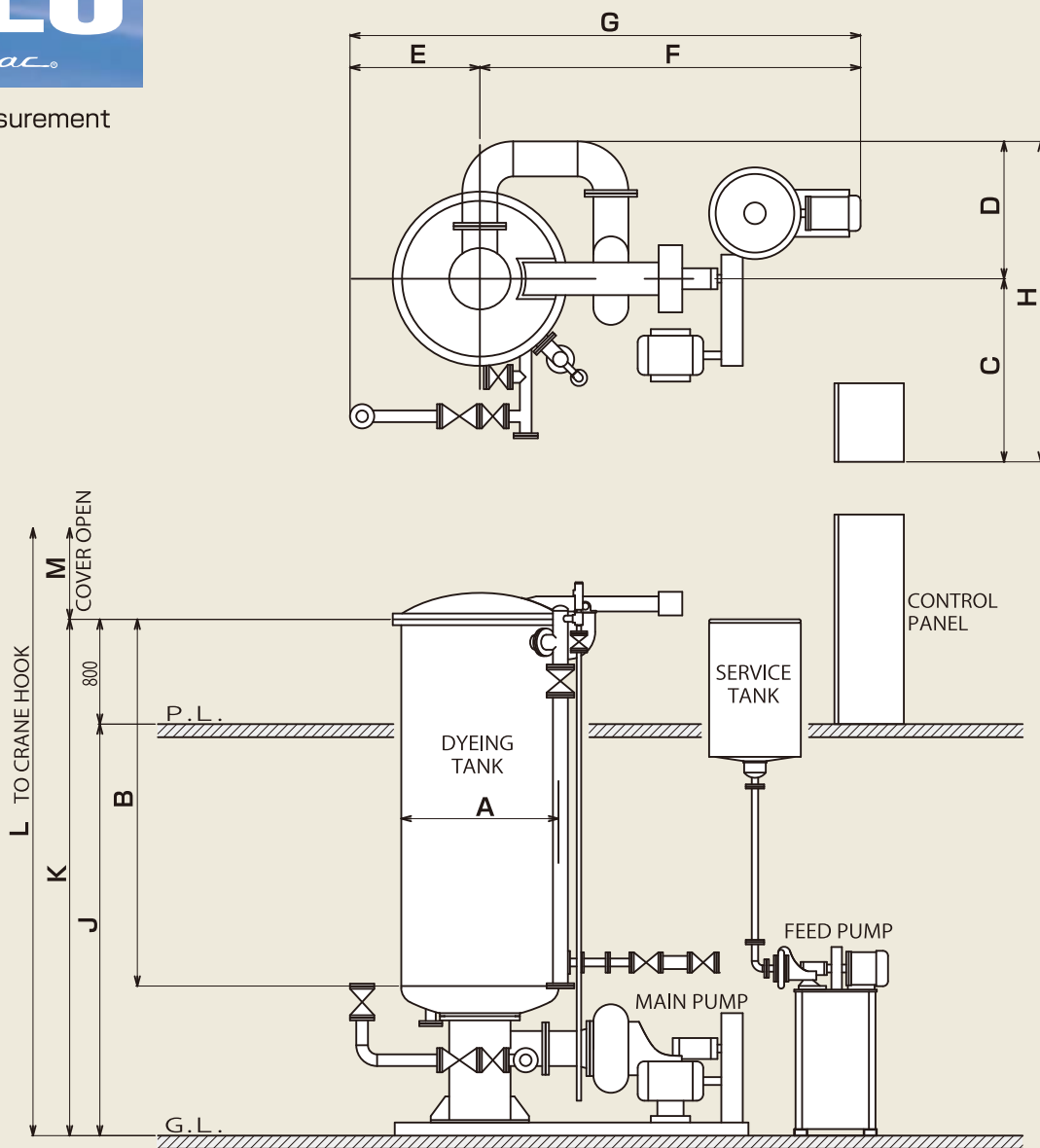
Low Liquor Ratio Package Rapid Dyeing Machine

Model **LLC**
Lolymac® CHEESE RAPID DYEING-SYSTEM



 **HISAKA WORKS, LTD.**

● Measurement



■ H-series (For Cone/Cheese and Warp Beam)

Model	A	B	C	D	E	F	G	H	J	K	L	M
LLC- 10 / 25	250	2200	1200	600	850	1950	2800	1800	2000	2800	6300	700
LLC- 40 / 50	500	2500	1300	700	850	1950	2800	2000	2350	3150	6350	850
LLC- 70 / 60	600	2500	1300	700	850	1950	2800	2000	2350	3150	6350	900
LLC- 100 / 80	800	2300	1500	850	1250	2150	3400	2350	2450	3250	6500	1200
LLC- 200 / 100	1000	2300	1650	950	1350	2450	3800	2600	2500	3300	6700	1350
LLC- 300 / 120	1200	2300	1850	1150	1450	2750	4200	3000	2700	3500	6900	1550
LLC- 400 / 140	1400	2300	2000	1250	1550	3000	4550	3250	2850	3650	7050	1750
LLC- 500 / 160	1600	2300	2400	1450	1650	3050	4700	3850	2850	3650	7050	2100

unit : mm

■ L-series (For Cone/Cheese, Loose Stock, Top and Hank)

Model	A	B	C	D	E	F	G	H	J	K	L	M
LLC- 5 / 25	250	1600	1200	600	850	1950	2800	1800	1400	2200	4400	700
LLC- 40 / 60	500	1700	1300	700	850	1950	2800	2000	1650	2450	4400	900
LLC- 70 / 80	800	1600	1400	800	1100	2100	3200	2200	1750	2550	4500	1200
LLC- 100 / 100	1000	1600	1500	850	1250	2150	3400	2350	1800	2600	4550	1350
LLC- 200 / 130	1300	1600	1650	950	1350	2450	3800	2600	1950	2750	4700	1650
LLC- 250 / 140	1400	1600	1750	1000	1450	2600	4050	2750	2050	2850	4800	1750
LLC- 300 / 160	1600	1600	2000	1150	1500	2800	4300	3150	2150	2950	4900	2100
LLC- 400 / 180	1800	1600	2150	1450	1800	3000	4800	3600	2200	3000	5100	2300

unit : mm



HISAKA WORKS, LTD.

PROCESS ENGINEERING DIV.
DYEING & FINISHING MACHINERY

<http://www.hisaka.co.jp/english/textile/>

<Konoike Plant> 2-1-48, Higashi-Konoike Cho, Higashi-Osaka City, Osaka 578-0973, Japan
Tel : +81-72-966-9631 Fax : +81-72-966-9632 Mail : dyeing@hisaka.co.jp

<Head Office> 2-12-7, Sonezaki, Kita-ku, Osaka City, Osaka 530-0057, Japan

HISAKA WORKS (CHINA) CO., LTD. Shanghai Branch

Room 1603 Shanghai Orientalcenter, 699 West Nanjin Road, Shanghai 200041, P.R.China

Tel : +86-21-5211-0701 Fax : +86-21-5211-0720

No.1902H(PC)



Energy Saving, High Efficiency, The Total Production System.

The total system for fine dyeing quality with high productivity.

Labor-saving system.

A total system combines by fine quality, highly-reproducible production line. It brings labor saving, energy saving and reduce environmental load.

Auto Dyestuff and
Chemicals Measuring
System

Dye-kitchen
System

High Temp.
Drainage System

Production Control
System

Pressure Extract
System



Low liquor ratio dyeing and fi

With Head Rotation system,
liquor could spray to
all angle of cheese.
In result, it could dye evenly
in low liquor ratio.

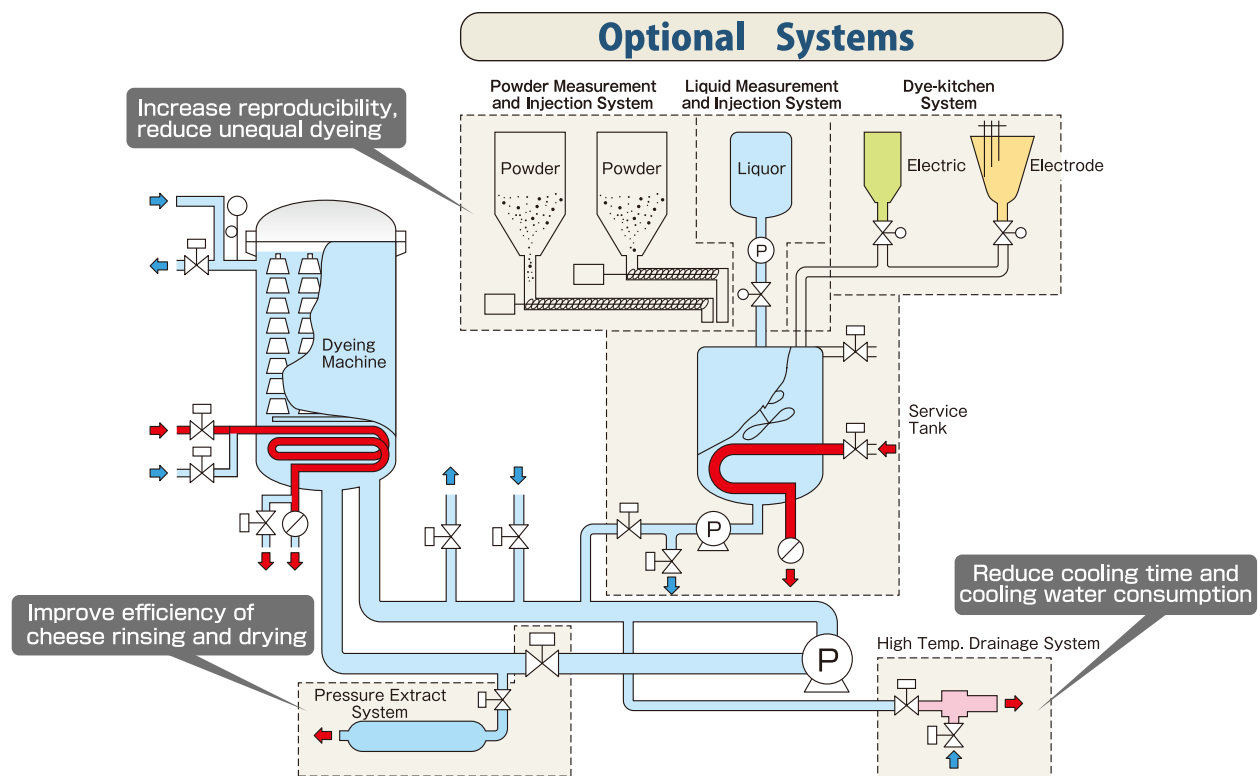
Reduce liquor
ratio
(Under 1:6)

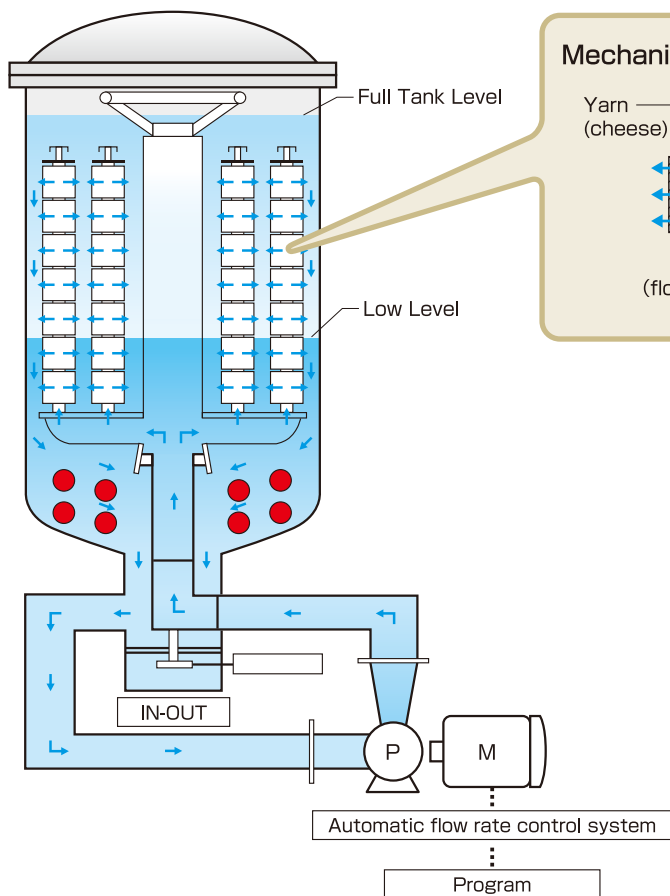
Reduce 30%
water consuming

Reduce
Production Time

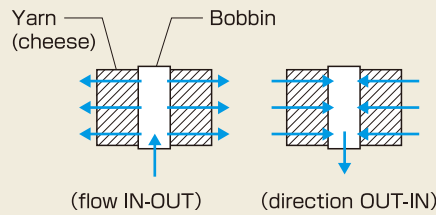
Dye evenly

High Efficiency, High Quality These Bring from HISAKA'S





Mechanism



Carrier Tilting Machine

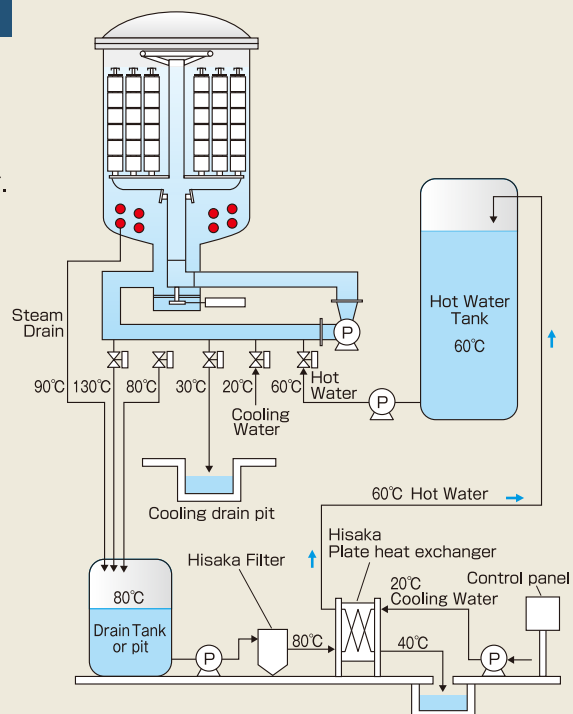


Energy and Saving Energy, S Total Production System.

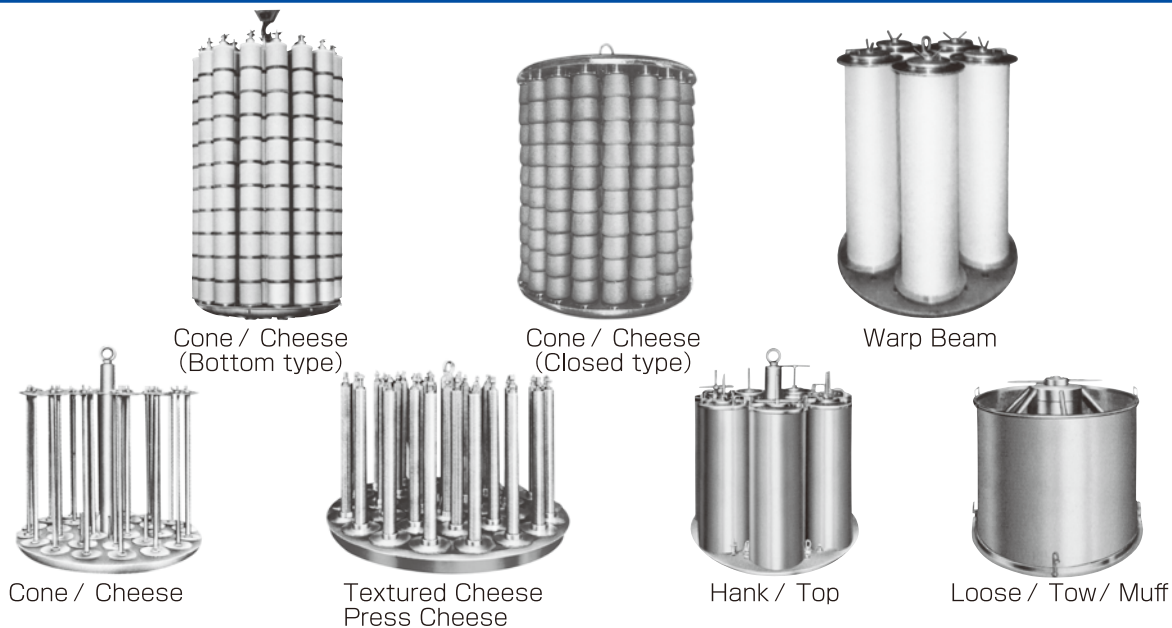
Waste Heat Recovery System

Reuse heat from hot drain

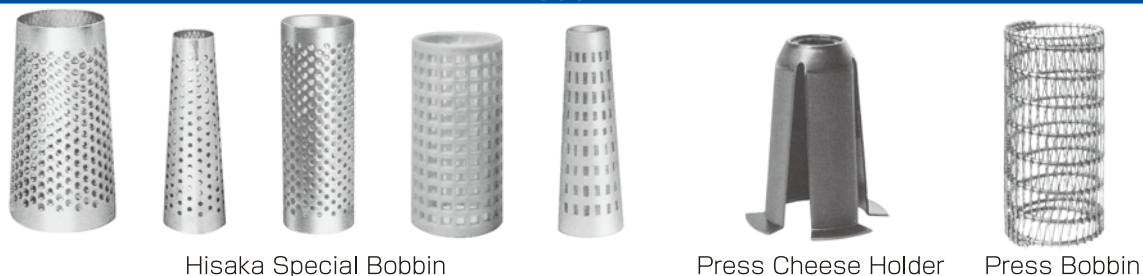
- Reduce steam consumption.
- Shorten processes time by using hot water.
- Use high efficiency plate heat exchanger to bring out space saving advantage.



CARRIERS



Bobbin



■ H-series (For Cone/ Cheese and Warp Beam)

STANDATD MODELS LLC	10/25	40/50	70/60	100/80	200/100	300/120	400/140	500/160
Liquor required (Bath Ratio, 1:6 to 1:10)(lit)	70~110	210~460	300~670	720~1200	1230~2050	1680~2800	2300~3850	3000~5000
Motor for main circulation pump(kW)	3.7	5.5	7.5	15	30	37	55	75
Cone/Cheese(Wind up weight : 1000~1350grs Based on Polyester/Cotton Blended Yarn)								
Loading capacity (kg)	10~14	30~41	50~68	80~108	160~216	220~297	320~432	410~554
Total quantity of Cone/Cheese(pcs)	10	30	50	80	160	220	320	410
Warp beam(Wind up weight:30kg per one beam)								
Loading capacity (kg)		30	30	90	150	210	270	480
Total quantity of beam (pcs)		1	1	3	5	7	9	16
Reference data for customer								
Steam consumption per one dyeing cycle of two side dyeing for Polyester/Cotton Blended Yarn (kg)	110	460	670	1200	2050	2800	3850	5000
Max.supplying quantity of steam for heating process(kg/hr)	48	200	300	530	900	1230	1700	2200
Water consumption for dyeing Polyester/Cotton Blended Yarn : 150~200lit for 1kg dyeing								
Electrical power(kW)	5	7	9	16.5	31.5	39.5	57.5	79

※The above figures shall be changed depending upon the materials and packing conditions. ※Special model can be provided.

■ L-series (For Cone/ Cheese, Loose Stock, Top and Hank)

STANDATD MODELS LLC	5/25	40/60	70/80	100/100	200/130	250/140	300/160	400/180
Liquor required (Bath Ratio, 1:6 to 1:10)(lit)	50~80	300~420	560~740	900~1150	1550~1940	1820~2250	2400~2930	2950~3700
Motor for main circulation pump(kW)	2.2	5.5	7.5	15	30	37	45	55
Cone/Cheese(Wind up weight : 1000~1350grs Based on Polyester/Cotton Blended Yarn)								
Loading capacity (kg)	5~7	30~41	48~65	96~130	150~203	192~259	246~332	312~421
Total quantity of Cone/Cheese(pcs)	5	30	48	96	150	192	246	312
Loose stock(stuffing density : 0.23g/cm ³)								
Loading capacity (kg)	3	43	81	130	194	227	291	458
Top of Hank(stuffing method)								
Loading capacity (kg)	3	40 (Hank)	85 (Hank)	100	150	175	200	350
Quantity of basket	1	1	1	4	6	7	8	14
Reference data for customer								
Steam consumption per one dyeing cycle of two side dyeing for Polyester/Cotton Blended Yarn (kg)	80	420	740	1150	1940	2250	2930	3700
Max.supplying quantity of steam for heating process(kg/hr)	35	185	320	510	850	990	1290	1630
Water consumption for dyeing Polyester/Cotton Blended Yarn : 150~200lit for 1kg dyeing								
Electrical power(kW)	4	7	9	16.5	31.5	39.5	47.5	58

※The above figures shall be changed depending upon the materials and packing conditions. ※Special model can be provided.