HANGZHOU EACHINCH TECHNOLOGY CO., LTD.

PRODUCT CATALOG

2023

EACHINCH

宜趋因其是为装饰面印产业
提供升级解决方案的技术服务
供应商宜趋因其致力于水墨
应用的标准化工艺流程的智能
化和装饰花色的中国化

壬寅年冬月初八日道格



Brief Introduction

Hangzhou Eachinch Technology Co., Ltd. was founded in October, 2022, who is branch company of Hangzhou Hywelt Chemical Technology Co., Ltd, Located in the capital of decor-paper--Linan, Hangzhou, China. The best supplier (actually the only supplier) of China for integrated solution of decor-paper gravure printing.

Our core team has been dedicating this industry for decades. Developed a completed technical process, such as printer supply, lab setting up, product testing, technique training, decor-design, custom-tailored water based ink. Supply completed integrated solution.

In the future, Each Inch will dedicate decor gravure press industry, supply upgrading solution. We will dedicate water based ink application of process standardization, production intellectualized system, and Chinese flavor decor design. We work hard on assisting customer development.

:



Catalogue

Multi-Malerial Gravure Priner 01

Lab press 02

Mixer 03

Lab

1、Raw material paper checking 04

2、Water based ink checking 05

3、Printing plate checking 06

Smart Color Matching System 07

1、Incler water-based ink 09

2、Colormeter 10

3、Technique support 11

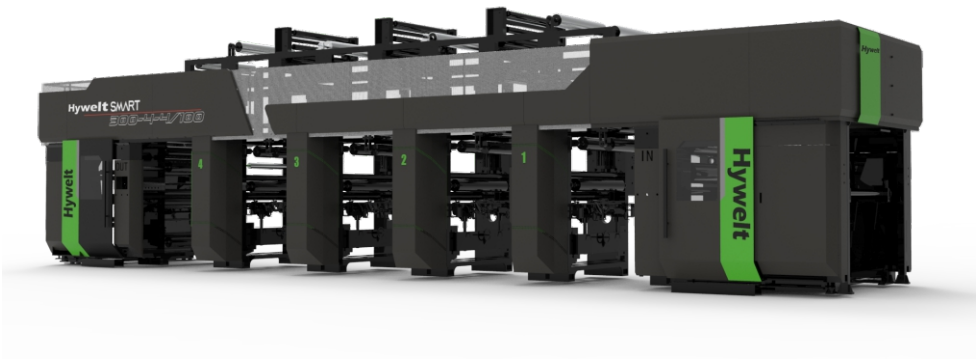
Mute transportation robot 12

Decor design(ceramic) 14

Introduction of technique sevice 15

Are you interested in eachinch series products?
Please review www.eachinch.cn

Multi-material gravure printer





Rayware series high end class gravure printer for decor material, we have joint developed with a well-know printer manufacturer in China, which is a multi-material printer.

A. Rayware series main characteristic

1. Printing decor paper, pre-impregnated paper
2. Printing floor PVC film, furniture PVC film, PET, PP, OPP etc
3. Well performance in both solvent based and water based ink.

B. Rayware series printer main components:

1. Simatic PLC control system, High end Schneider servo and motor and precise gear box.
2. Dedicated Smart control system for decor material, easy operation, stability, long enduring.
3. Auto color register matching system, high definition photographic system. Automation, easy and simplified operation.
4. Modular construction, high density alloy casting, make structure frame after half year in the open air, to releasing stress of the casting, with precise machine center, insure perfect machine stability.
5. Introduced integrative oven, low noise, strong air volume, improved heat efficiency, saved as high as 15% energy
6. Reoxidation conveyor roll, enhanced friction, to low down static and surface tension of material, benefit for safety and color transferring.
7. Printing speed: 200m/min

Lab press

This lab press is a thermocompression machine , made for board production line or research and development institution.

The lab press is made by thermos-compressor 、hydraulic pressure system、microprocessor system、heating and thermo-control system. Fully automatic control while set up pressure、temperature and time.

Specification of lab press : consistent performance as big press in production line. Compact structure, good-looking.

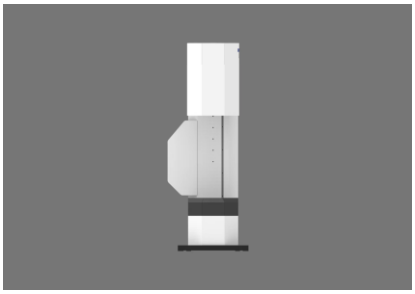
Lab Press Main Specification:

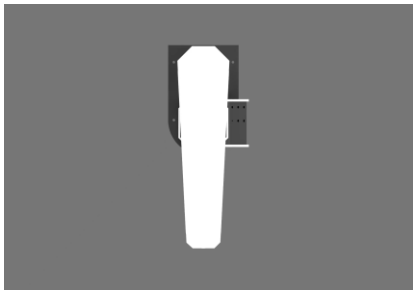
Product	BY102 × 2/3.2EF
Model	HPS2201U
Total pressure	3200 KN
Dimmension	550 × 655 × 65 mm
Layer space	250 mm
Thermo medium	Electrical heating
Max temperate	250 ℃
Precision	± 3 ℃
Total pressure	10.6 MPa
Working pressure	25.5 MPa
Cylinder diameter&stroke	ϕ400 × 250
Cylinder diameter/bar diameter/stoke	ϕ50/ϕ28 × 250
Closure cycle	2.5 s
Closure speed	95 mm/s
Press accleration	2.54 mm/s
Total power	35 KW
Net weight	6600 KG











Product specification

1.inverter motor control, power from 3-15KW

2.Hydraulic elevator system, stable performance

3.Mixing head optionable, choose different head to improve mixing efficiency

4.Possible to customize non-standard product, such as : anti-explosion, vacuum, heating, etc.

Laboratory construction and training

Each Inch provides service for laboratory construction and training, which are décor paper checking, water based ink checking and printing plate checking.

Décor paper checking lab

A.Contents of training

1.Study raw material criteria of décor paper

2.Study laboratory circumstance specification

3.Study checking operation and specification of raw material of décor paper

3.1 ration 3.2 deviation of ration 3.3 compactness 3.4 tension force(longitudinal)

3.5 tension force in wet(longitudinal) 3.6 smoothness 3.7 ash content

3.8 height after water absorption(longitudinal) 3.9 air permeability

3.10 surface absorption 3.11 flexibility (longitudinal、lateral) 3.12 dust degree

3.13 water content 3.14 pH value

B. Laboratory circumstance and instrument

1. Lab circumstance : constant temperature and humidity oven, temperature (23+/-2) ℃、relative humidity (50+/-2)%

2. Instrument list

No	Check Data	Instrument Name		
1	ration	steel ruler	surface absorption	absorption tester
2	deviation of ration	electronic balance	flexibility(longitudinal)	sample tester
		paper dedicated slitter	dust degree	dust tester
3	compactness	micrometer caliper	water content	sample tester
4	tighten force (longitudinal)	tension force tester	pH value	pH value
5	tighten force in we t(longitudinal)	tension force tester		
6	smoothness(front)	smoothness tester		
7	ash content	high temperature stove		
8	height after water absorption(longitudinal)	tester		

Water based inks checking laboratory

A.Training content

1.Study the criteria of décor paper

2.Study laboratory circumstance specification

3.Study checking operation and specification of water based ink

3.1 Looking

3.2 Color

3.3 Dyeing force

3.4 particle diameter

3.5 distribution of particle diameter

3.6 viscosity

3.7 PH value

B Laboratory circumstance and instrument

1.Lab circumstance : constant temperature and humidity oven, temperature (23+/-2) ℃、relative humidity (65+/-2)%

2.Instrument list

No	Check Data	Instrument Name	Check Data	Instrument Name
1	Looking	/	Particle diameter distribution	Particle distributer tester
2	color	grey degree pattern	viscosity	4#cup, Zahn cup, viscometer
		colormeter	PH value	PH meter
3	dyeing force	electronic balance	air permeability	air permeability tester

Laboratory(plate roll)

Roll testing does not require a specific environment, no build a laboratory, only need to have a variety of testing tools and computer input data.。

No	Detection Content	Equipment	Remarks	Necessity
1	Dot Value for Roll	Conventional Dot Tester	Customer supplied display	Need one
2	Hardness for copper &Cr Roll	Portable Dot Tester	Built-in Display	
3	Hardness for copper &Cr Roll	Hardness Tester	2 Probes	Necessary
4	Thickness for Copper&Cr Roll	Thickness Tester	2 Probes	Reference
5	Dot Percent for DTP	DTP Tester		Reference
6	Roughness for Roll	Roughness Tester		Necessary
7	Pressure for Roll	Pressure Tester		Reference
8	Balance for Roll	Dynamic Balance Tester	Online Shopping	Necessary
9	Hardness for Rubber Roll	Hardness Tester	Online Shopping	Necessary

EACHINCH

Hywelt

色克美

Smart Color Matching System



Smart Color Matching System

A.converting mixing ink from manual to semi-automation

B.optimized residue ink recycle, digital management

C.digital mixing ink process, improve production efficiency



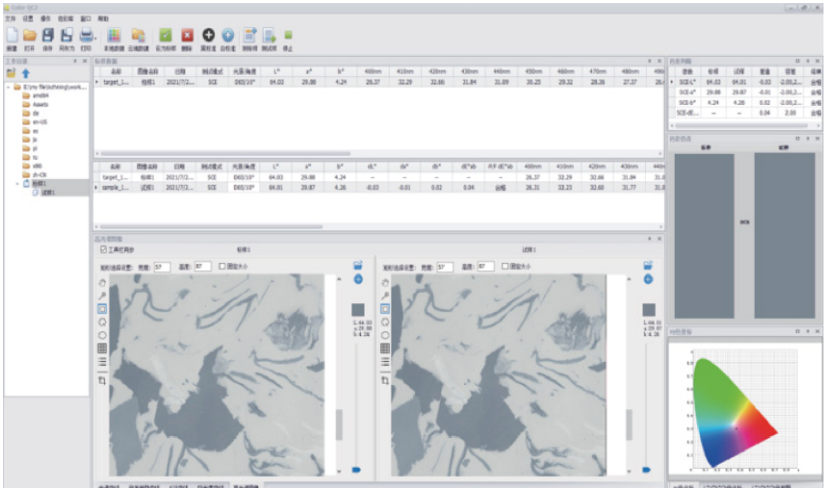
Thermostatic Scraper Prototype



Colorimeter

Image colorimeter





A.Showing completed color difference test, diviation of repeatability dEab≤0.01

B.Reduce deviation of color by human limitation, ease working burden of operator

C.provide data for supply chain, which is one of the keys of standardization

A.SCM dedicated water based ink

B.Better levelling、better transferring、better definition

Water based ink variation



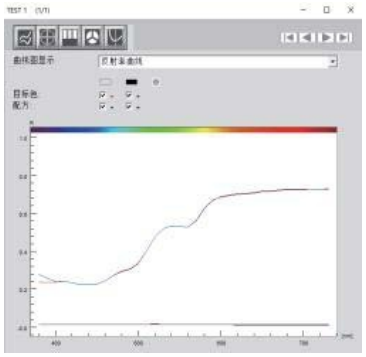


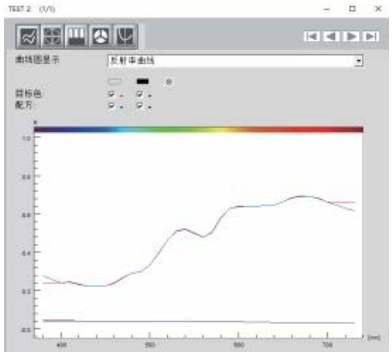


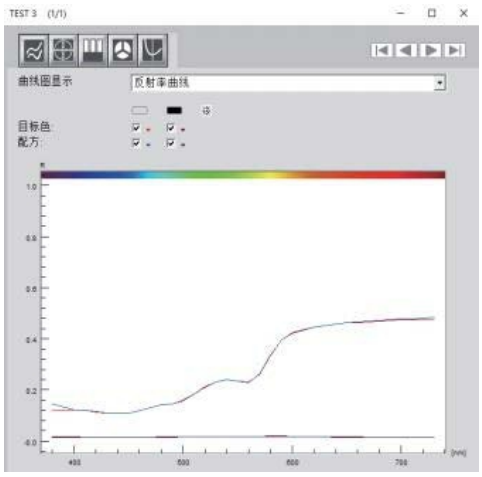
Water based ink comparison with data base

Verify Incler applicability via 3 mixing and printing ways

Perfect color rendition







数据库精度实验																		
油墨系列	色相	名称	色浓度	粘度	实际配方						理论配方						修正次数	备注	问题
					YELLOW	RED	BLUE	BLACK	WHITE	EXN	YELLOW	RED	BLUE	BLACK	WHITE	EXN			
INCLER	深黄	TEST 1	25%	18	15.522	4.107		1.849		65.023	15.478	4.081		1.805		65.138	修正1次	优+	刮样效果均匀，适合SCM系统数据库使用，印刷配方精度高
	黄棕	TEST 2	57%	18	20.49	8.287	3.563		23.963	42.064	18.106	7.778	3.058		22.317	47.108	修正2次	优+	
	深棕	TEST 3	58%	18	31.044	21.484		8.849		46.51	30.503	21.484		8.114		47.786	修正1次	优+	



ColorMeter SE(base)



ColorMeter Pro(professional)



ColorMeter Max(Enhanced)

ColorMeter Series

Portable mass color data base

Link to mobile APP, establish color data base, input color data with print、pigment、textile. Instead of carry on heavy color sample cards.

Automatic calibration system

Auto calibration as turn on, test color immediately, precise and long time running

Easy to read

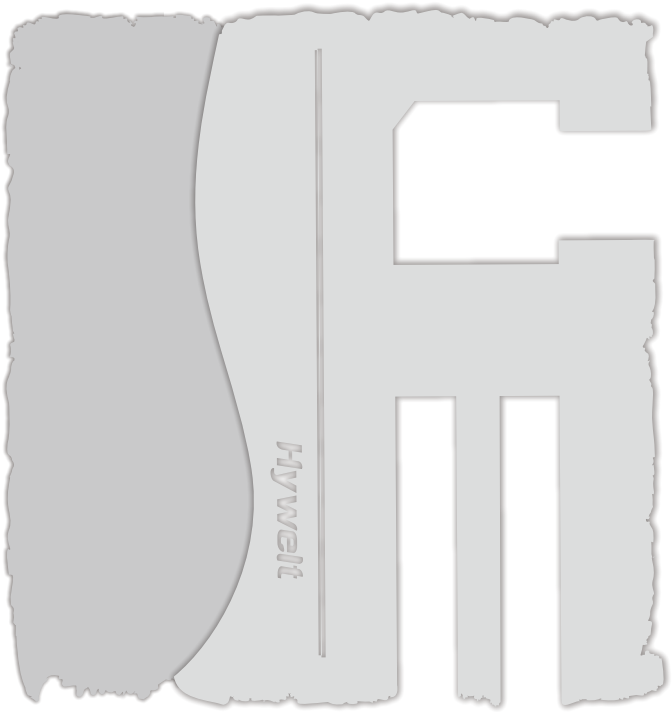
1.14 inch IPS display, show all color data. There is storage , synchrodata as soon as access APP

Cloud data base

Provide official color data base, user can upload color data to cloud as well, multi devises share, easy to processing, user can also share the color and formula to partner via invitation code.

Support software: android、ios、wechat mini program、windows





SCM TECHNICAL SUPPORT Andreas Meyer

- **MECHANICAL EXPERT IN GERMANY**
- **LEADING MACHINE DEVELOPMENT**
- **PROVIDE TECHNICAL SERVICE**
- **TRAINING ADMINISTRATION**

Advantage

Low cost deploy: laser SLAM navigation, none signboard, no alteration on site
Flexibility: customize all transportation function base on basis plate
Widely application: connect with door, elevator via WiFi or cable
Core development: independent research processor and function modular, integrated mode, good stability performance
Improve productivity: support multi battery charging :fixed site and fixed time、automatic return and automatic



Field

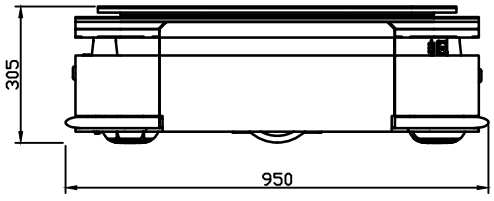
All kinds of factory、storage center

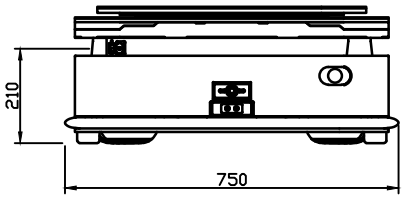
Smart transportation in the factory and warehouse

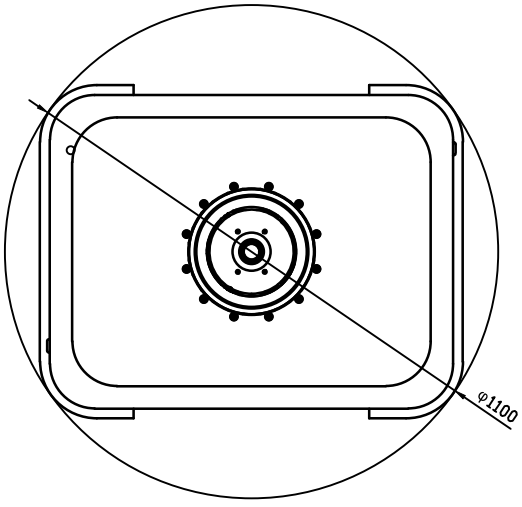
24H running



Devise three views





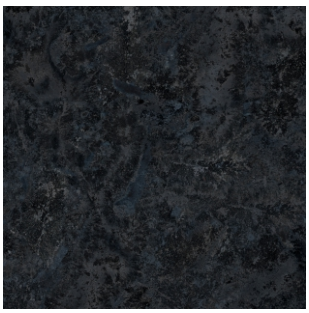


Technical parameter

MODEL		LXLR-FR3100L
Basic parameter	dimension	950LX750X305Hmm
	weight	≤250kg
	rotating diameter	φ1100mm
Function	lifting height	60mm
	load on top	1000kg
	draw load	
	protect range	
Security	protect method	360°
	laser reading obstacle	slow down;buffer stop;emergency stop
	stop by the edge	2 laser photoelectic sensor; 360°
	emergency stop button	fully protection
	acousto-optic warning	one finger
	servo	lamp and sound warning
Movement		2 wheel differential speed
	navigation	automatic
	movement	2 direction、cycle around、left and right turn
	speed	0-1.5m/s
	precision of navigation	±20mm
	precision of joint	±10mm(laser) ±5mm (QR code)
Endurance	battery style	acid cell
	battery mode	48V32AH
	endurance time	≥8h
	charging	automatic+manual
	charging time	≤1.5h
	battery endurance	1500 cycle
Interface	liquid display	Y
	lamp indicator	all failure
	acousto indicator	turn、alert、music
	button	emergency 、switch、running
	expansion interface	USB2.0+RJ45 100MHz
Circumstance	working site	in door
	temperature	0-40℃
	humility	10-90%RH
	gradient degree	≤5%/3°
	gap width	≤20mm
	air	no dust, no inflammable and explosive article
	communication	wifi, IEEE 82.11, 5G
	5G network	

Wood 、 cloth and stone design is the dominated design for décor paper since very beginning. Each Inch designer opened another door, ceramic design for décor paper, which put thousands years of Chinese culture into this design, first time in the world.

Industry initiative
Decorative paper ceramic pattern



HWT-CDA4-2



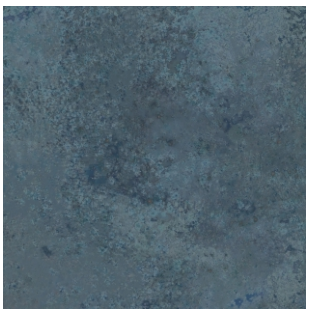
HWT-CDA5



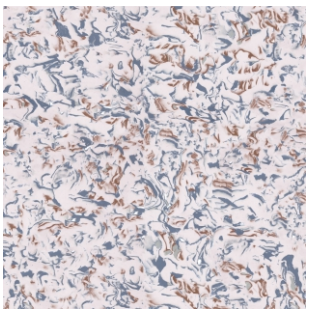
HWT-CDA12-1



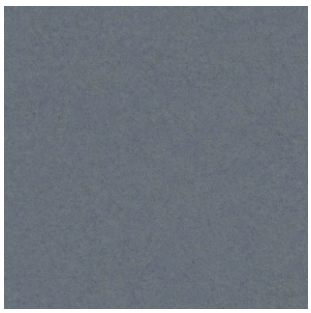
HWT-CDA19



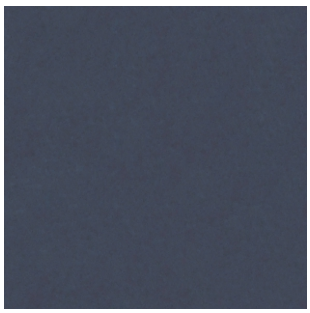
HWT-CDA21



HWT-CDA31



HWT-CDA45



HWT-CDA46

Eaehinch is strong service team, Core team has been dedicated this industry for decondes

They are elites of printing plate and water based feild





HANGZHOU EACHINCH TECHNOLOGY CO., LTD.

Add: 39 zhoufu Rd., Linglong Sub-district, Lin'an District, Hangzhou, Zhejiang, China

Tel: 0571-63812655

Fax: 0571-63812256

Http: //www.eachinch.cn