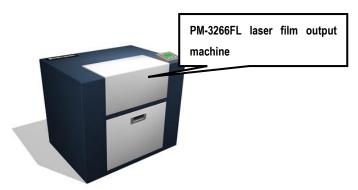


·移印钢板的制作

How to make pad plate?

菲林输出

制版之前,必须准备高质量的晒版底片,你可以到输出中心制作,也可以自己购买菲林输出机自己输出菲林。高 宝印刷机械有限公司推出的 PM-3266FL 移印菲林输出机是专门为移印菲林输出而设计的小型精密输出机,占地面积 小,操作简便,能够按照您的要求输出各类型的移印菲林。



It is very important to make a film of design before making pad plate. PM-3266FL is one model output film machine for pad printing.

1) Design

According to the requirements of customers, the first step is design the drawing with computer as CorelDraw and other format documents.

2) Cut film

Cut the film with blade to fit for output

machine

3) Output

Put the film on the working table of output machine and operate your computer. You know, you should install RIP programmer through computer.

4) Developing:

Take out the film and dipping it into developing disk for several minutes.

5) FUJI 系列制版材料是日本富士药品工业株式会社出品的感光材料, 广泛运用于化工 电子 塑胶 纺织 五金 玩具 印刷等领域。在移印行业,FUJI 感光胶占据着 65%的市场分额,它具有解像力高,性能稳定的特点,是制作移印钢板的主要消耗材料。FUJI 感光材料是一个庞大的家族,但在移印各行业用途最广的是 FSR,FMR,LMR,FSMR 负性金属感光胶。 在移印钢板制作过程主要用到 FUJI 感光胶, FUJI 显影水。

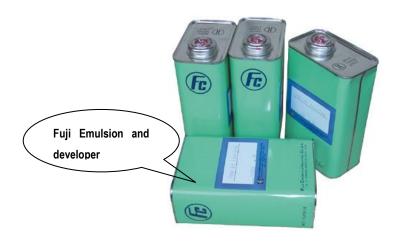
Fuji coater and Fuji developer made in Japan by FUJI chemicals industry company. Widely used in the field of

electron, plastics, metal. Toys, printing, chemicals. Specials in pad plate-making, FUJI chemicals get 65% percent market. There are many kinds of FUJI products. FMR is one of the best.

FMR-40 EMULSION

FMR-40 感光胶

- 1、 特性 1 Peculiarity
- 1) FMR 是负性感光抗蚀剂,有较好的耐酸、耐酸性。
- 1) FMR is native sensitization emulsion, well resist acid and alkalinity.
- 2) FMR 的解像性比较好,由于抗蚀剂中的金属离子含量极少,所以适合于半导体管(电晶体)、二极管、IC(集成电



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路)和LSI(大规模集成电路)等方面使用。

2) FMR is of high precision solution and with seldom metal ion. It very fit semiconductor, IC, LSI

FMR-40 是一种微黄透明的黏性液体,密度在 0.85-098 之间, 承装在绿色铁罐中, 一般是 2LIT 一罐。

SP-A100 系列移印钢板感光胶

Photo resist SP-A100 series for pad printing plate

项目 ITEMS	产品名称/PRODUCT NAME				
	SP-A100 移印钢板感光胶	Photo resist SP-A100 for Pad Printing Plate			
用途 Applications	用于凹印、凸印等转移印钢模板模具等精密图纹化学蚀刻				
	SP-A100 series is a photo resist of contacting exposure, dilute alkali development, with the high				
	performance of insulation. It's the adhesion and covertures between coatings and plate are				
	absolutely excellent. It is suitable for making fabrication pattern of pad printing plate, etcIt has				
	an excellent resist to etching of acid or alkali solution. It is used under the coating styles of spin,				
	soak and roll.				
技术特点	印刷适性良好,耐变性好,干燥速度快 显影性能好,无余胶				
Technical Description	覆盖性好刻做精密印刷、分辨率高,涂层细密,有良好的接着性膨润剥离型,剥离速度较快				
	SP-A100 series is reduced by modified techniques imported from Japan, manufactured by the				
	raw materials imported from Japan, Germany and USA as well. It has a high resolution, quick				
	drying, good adhesion, and quick stripping.				
颜色/Color	无色、透明蓝	Colorless/Transparent blue			
分辨率/Resolution	5-10 微米	5-10μm			
固体份/Solid	30-45% (wt)				
粘度/Viscosity	200±310mPa.s 旋转涂布、辊涂或浸涂	5、辊涂或浸涂 200±310mPa.s for spin, roll or soak coating			
细度/Fineness	≤5 μ m				
预烘烤/Pre-bake	4 分钟旋转涂布 (100-400r/m) 后即干;4-8 分钟 (热循环风烘箱,温度 60±20℃) 或自然干燥				
	方式 15-25 分钟 Dry after 4mins.spin coating(100-400r/m),4-8 mines(heat wind cycle 60±20℃) or self-drying				
	15-25 mines				
曝光能量 Exposure	90-140mj/c m²(高压汞灯,到达板面)				
energy	90-140mj/ c m²(on the board surface by using high-pressure mercury lamp)				
显影/developing	10-60 秒(专用显影液,溶液温度 25-30℃) 10-60 sec. in the developer at 30 ℃				
后烘烤 Post-bake	6-20 分钟(热循环风烘箱,温度 80±	6-20 mines(heat wind cycle80±10℃)			
	10℃) 或其它方式				
硬度 Hardness	Jis K5400:≥2H				
蚀刻 Chemical Etching	氯化铁、氯化铜等酸性、碱性蚀刻液	Iron chloride, Copper chloride; etc acid &alkalescency			
包装 Packing	1 公斤、40kg/密封盖马口铁罐或 PE 密封	1kg,4kg in tinplate or PE pail			
	罐				
保存期限/Shelf life	制造后 12 个月(20℃以下暗处保存)	12month(≤20°C,dark preserve)			
绿色环保/Environment	无溶剂,无环境污染问题	Environment Friendly			
Friendly					

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钢板制作过程:

PLATE-MAKING PROCESS

1)表面处理:用天那水对金属板进行完全的脱脂处理。可以用布料沾取天拿水或者酒精清洗表面,并放置一段时间待溶剂全部挥发。制版过程需要在红色或黄色安全灯光下进行。

1) Cleaning treatment:

Cleaning pad plate with solvent . Please take clothes dipping into solvent or alcohol and cleaning the pad plate. Use the plate before

solvent completely volatilization. All process must be going long in the safe light of red light or yellow light.

2)涂布处理:

旋转式涂布、浸蘸、喷涂等。有多种方式可以将 FUJI 感光胶涂布于钢板表面: 旋转涂布机离心式涂布,手工涂布,浸蘸式涂布机涂布,喷涂式涂布和手工涂布等。为了使感光胶能均匀的涂布于钢板表面,可以先将感光胶滴于钢板表面,然后用手旋转使感光胶在钢板表面均匀流平,然后在放入旋转涂布机中涂布。

2) Coating:

Turning coating dipping, spraying. There are many ways to coat FUJI emulsion onto pad plate: by turning coating machine, by dipping coating machine, by spraying coating machine, by manual coating tool. When using turning coating machine, First turn the steel plate after pour some Emulsion on it till Emulsion uniform leveling on the surface of steel plate, then fix it on the turning coating machine to coat.

用旋转涂布机涂布:



使用旋转式涂布机 PM-30TC 进行涂布。 旋转式涂布机有一个圆形转盘,能够在电机的带动下旋转。具体使用方法如下:

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Coating by turning coating machine: There are round plate installed connecting motor.

- 将钢板固紧在旋转涂布机的工作台上
- Put the pad plate on the turning disk and fixture it like photo.
- 倒入适量的 FUJI 感光胶在钢板上面
- Pour some FUJI emulsion to surface of pad plate.
- 启动涂布机并调整合适的速度,使感光胶均匀的涂布在钢板表面。

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Start on the turning machine and adjust the speed so that the emulsion coating to the pad plate evenly.

用浸蘸涂布机涂布:

使用浸蘸式涂布机 PM-40TC 进行涂布。 浸蘸式涂布机有一个磁性托盘,可以吸紧移印钢板的侧面,托盘能够 自动下落到盛有感光胶的槽中。具体使用方法如下:

Coating by dipping coating machine:

There is magnetism salver installed on this machine.

打开磁性托盘开关, 将钢板如图吸附到托盘下方。

Put the pad plate on the dipping coating machine and start the magnetism switching. Pad plate will be adsorbed on the salver of the machine.

倒入适量的 FUJI 感光胶在涂布槽里

Pour some emulsion to the trough of dipping coating machine. More viscosity emulsion is suitable for dipping coating.

启动涂布机, 使钢板全部浸入感光胶。较长的停留时间将获得较厚的 胶层厚度

Start on the dipping coating machine and let the magnetism salver with pad plate press down to dip into the emulsion completely for some time.



PM-40TC Dipping-type coating machine

PM-40TC 操作说明

PM-40TC Operation instructions



PM-40TC

1. 总电源: 电源的总开关, 开启时红色灯亮

2. 时间控制器:设定下浸泡时间,时间到时会自动升起

3. 调速器:此处用来控制下降和升起的速度

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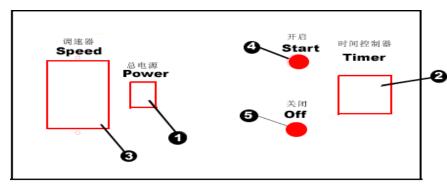
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4. 开启:按此按扭开关5秒,松开手机械会自动下降

5. 关闭: 在下降的过程中按此按扭关闭, 会停止下降

6 升起限位:此处用来调节上升时的限位 7 下降限位:此处用来调节下降时的限位







- 1. Power: The total switching power supply, when you turn the red lights
- 2. Time r: soaking time at a set time to time will automatically rise
- Speed: This is used to control the speed of decline and rising
- 4. Start: Press the button switch for 5 seconds, release the mechanical hand will automatically fall
- 5. Off: In the process of decline

Click Close button, it will stop decline

6 UP switch: This is used to adjust the limit rises

7 DOWN switch:: This is used to adjust the limit drops

手工涂布:

使用喷涂方式进行涂布将获得最高程度的均匀性。 将感光胶盛放于喷枪里面,调整压力,对准钢板表面进行喷涂。 使用专门的喷涂机将更加精确。没有上述涂布机可以采用手工涂布方法进行涂布,只要方法得当也可以获得满



意的涂布质量。手工涂布有两种方法:一种是使用丝网涂布用的上浆器进行涂布;另一种是使用手模仿旋转涂布机的方法进行转动来涂布。

Please coating by hand when having no coating machine, correct way will get high quality emulsion thickness. One is coating by stainless coating tool like screen plate, the other is imitating turning machine by hand to coat. Of course, with one spraying gun full of emulsion is very well.

3)烘干: 置入干燥箱中,进行烘干处理。 **3)Drying**:

Drying the pad plate in a drying closet after coating FUJI emulsion . Set a temperature at 100-150 degree for 20 minutes.

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你也可以使用电吹风吹热风对感光胶进行烘干。烘干使保证感光胶在腐蚀过程中免遭腐蚀液腐蚀的关键步骤。



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带粘贴菲林片边缘,防止脱落。将贴好菲林片的钢板放置于晒版机的平台玻璃上,关好橡皮盖子, 设定正确的曝光时间, 打开曝光开关进行曝光操作。正确的曝光时间是获得精确的移印钢板的关键步骤。

4) Exposal:

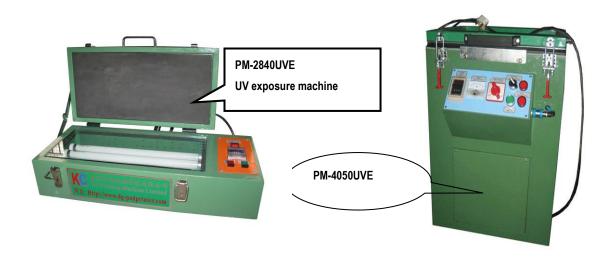
Covering film to the surface of emulsion on the pad plate by correct direction and position, adhere the film with transparence tape to avoid the film separating from with pad plate. Put them on the flat glass of UV exposure machine.

Please let UV light pass through film, emulsion like below picture. Set correct exposure time to ensure precision exposure quality

Before you master UV exposure machine and making plate process, please take a test by step testing way: exposure with 5 kinds of different exposure time then find one most correct time.

图示是一款专门针对移印钢板设计的小型晒版机 PM-2840UVE,它具有自动曝光功能。使用普通紫外灯管。设定曝光时间后, UV 灯管进行曝光, 曝光完毕后, UV 灯管自动关闭,完成曝光程序。

This is one kind of UV exposure PM-2840UVE design for pad plate. When put pad plate covered with film on the glass and set correct time, UV lamp will start automatically till finish exposure time.

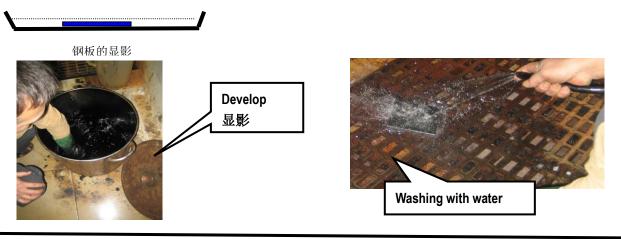


我们为精密的钢板曝光设计了带有真空吸气装置的晒版机: PM-4050UVE 是立式的, PM-5060UVE 是桌面式的, 由于具备了真空吸气功能, 曝光过程更精密。

In order to UV exposure on Pad plate, we design PM-4050UVE Stand UV exposure machine and PM-5060UVE with vacuum table for precision exposure.

5)显影:

使用 FMR 显像液,在常温下显影 1 分钟,用 FMR 清洗剂冲洗 30 秒。将显影水倒入显影盘或显影桶中,显影液



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深度要略高于钢板厚度,将曝光后的钢板浸入显影水,并不断摇晃约1分钟直到在钢板表面能看到清晰的影像。

5) Developing:

Developing with FMR developer for 60 seconds at the room temperature .after the picture display and cleaning it with fresh water or FUJI cleaning liquid. Pour FUJI developer into tray and ensure the depth is almost higher than pad plate thickness. Put pad plate dipping into developer and shaking for 60 seconds till legible image displaying on the surface of emulsion.

6) 冲洗: 确认充分显影后应立即用清洁水源将钢板表面的显影水冲洗掉, 残余的显影液有可能会对腐蚀程序造成损害。

6) Washing:

washing by clean water completely to remove the developer and solvent emulsion. Remains of developer and emulsion will hurt pad plate in the process of etching.



7)烘烤:

在 150℃的情况下,加热 20-30 分钟,提高耐腐蚀性。冲洗完毕后的钢板应再次放到烘干箱内进行烘干处理,此次烘干除了消除钢板表面的水分,还可以进一步固化感光胶的附着力,放置在腐蚀程序出现剥落现象。

7)Drying :

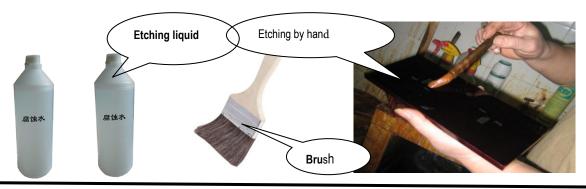
Drying in same closet at the temperature of 150°C for 20-30 minutes to improve resisting acid capability after washing. Water and developer will be removing in drying closet. Ensure removing water and developer completely. Please observe and check if display empty area on emulsion surface and if clear adumbration of words and drawing.

图是经过烘干处理的待腐蚀的移印钢板,图文部分已经完全清晰的裸露出来, 覆盖感光胶的地方则将钢板完全保护起来,在腐蚀程序,裸露的部分会和腐蚀液接触发生化学反应形成凹陷,而被保护部分则依然保持平面状态。

Left photo of pad plate display two part area: exposed area, protected area. In etching process, exposed area contact with etching acid and have a chemistry reaction to make a cave.; protected area keep flat estate.

8)腐蚀:

用腐蚀水腐蚀 40 秒左右. 通常是用手蘸取腐蚀水在裸露区域均匀移动完成腐蚀,这种腐蚀方法依赖于操作人员的技术经验的熟练程度,难以精确控制腐蚀时间和腐蚀深度; 采用腐蚀机进行腐蚀可以有效控制腐蚀时间和钢板于腐蚀液的接触状态,最大限度的保证腐蚀质量。



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8)Etching:

Etching pad plate with a brush dipping into etching acid for 40 seconds. Taking one brush dipping with etching liquid move on the exposed area of pad plate many times for 40 seconds. Manual etching depend on the experiential of operation worker. It is more difficult to control precision depth and time. By etching machine you will high quality etching quality through setting correct time and estate between etching liquid and pad plate.

腐蚀水可以是硝酸溶液,硝酸溶液与钢板的反应速度较快,不适合特别精细的文字和具有网点的阶调图文,所以常用来腐蚀精细度要求不是很高的钢板。目前由于国内绝大多数企业从事的移印产品属于比较简单产品,使用硝酸进行腐蚀的比例占较大空间。 精细的腐蚀机腐蚀的场合以三氯化铁溶液为普遍使用。三氯化铁溶液和钢板的反应属于氧化还原反应,反应速度比较平稳,受外界的条件影响较大, 所以容易实现精细的含有网点图文的腐蚀。



1.安装移印钢板

Install pad plate

抽出腐蚀架,将移印钢板安装在腐蚀架上。

Take out frame, install pad plate

2. 放进腐蚀槽

Put into etching trough.

将腐蚀架放入腐蚀槽中。

Put frame with pad plate into etching trough.





Setting etching time.

Setting etching time according to request. More long

etching time get More depth pad plate



4. 取出钢板

Take out pad plate.

After finishing etching process, please take out

Pad plate.

铬钢使用于移印行业具有良好的抗腐蚀优点,普通的腐蚀液难以进行腐蚀,必须选用双组分的腐蚀水腐蚀。它是有腐蚀水加上催化剂共同作用的。使用时配置按照腐蚀水:催化剂:清水=1:1:1 配置;用多少配多少,这种混合

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液腐蚀性很强,应放置在小孩不易接触到的地方;一次不易配太多。

Nitric acid has a fast speed with steel plate, so use it to etch common steel plate. Halftone drawing and precision words etched by etching machine full of chloridizing iron liquid. Before etching with machine, please take a brush to brush 2-3 times to remove film so that it can be etched.

ETCHING BY ETCHING MACHINE 用腐蚀机进行腐蚀

用腐蚀机 PM-2050EM 腐蚀移印钢板是实现标准化操作和数据化以及获得高质量移印钢板的重要手段。 腐蚀机内 安装有腐蚀槽,腐蚀槽中盛满腐蚀水,腐蚀水以喷溅方式接触移印钢板,接触时间可以设定,同时,移印钢板可以在 槽中往复运动, 以提高腐蚀的均匀性。

Etching machine PM-2050EM consist of operation system, etching trough, and plate installed frame. fix pad plate on the installed frame and put into etching trough, start the machine, etching liquid will spraying onto pad plate. In order to get uniformity etching depth, plate frame can move from left and right.

Etching by hand 手工腐蚀

现在绝大多数企业采用手工腐蚀,即采用手工的方式进行腐蚀。腐蚀前应先进行修版,靠近图文的部分用细毛笔蘸FUJI 感光胶进行封版, 必要是可以使用放大镜进行观察,要彻底杜绝钢板上面的针孔。较大面积的空白区域可以采用 PP 胶带进行粘贴,以避免腐蚀水对空白区域的腐蚀。我们建议您使用 PP 胶带将钢板围成一个方形容器的方框,这样腐蚀水可以倒进方框内进行腐蚀。

修版后也必须进行干燥。

然后将腐蚀水倒入钢板的文字面,并用毛刷刷洗重要的腐蚀区域,记录腐蚀时间,通常的腐蚀时间为 40-60 秒钟,建议你购买一个秒表来记录时间,观察腐蚀的文字和图像,时间完成后,即迅速将腐蚀水倒去,并用清水洗净版面。



Most of operator etch pad plate with hand. Before etching, Please take a small brush to cover the empty Place with Fuji Emulsion to avoid etch the place not include words and pictures.

- If you have Pocket magnified, Please watch and check the pinhole on the plate, Please cover it.
- Some operator use PP tape to protect the large area empty district.
- Small experience : Making a small case on pad plate with PP tape.
- Pour etching liquid into small case for 40-60 seconds , Please take brush to

move on the surface of pad plate when etching if necessary.



Then cleaning it with fresh water.

10) 深度测定:

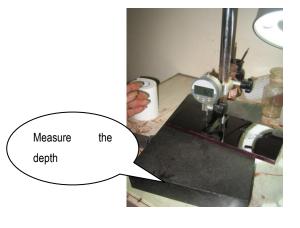
9)脱膜:

腐蚀后的钢板要去除表面的感光胶膜才能印刷,使用 FMR 脱膜液或者

天那水,在常温下浸 2-3 分钟,用布擦干 净.

9) Removing:

Use FMR removing or Tina solvent liquid to remove the remain film on the pad plate.



钢板的深度是移印钢板最重要的参数,建立深度数据库将有助于为不同的客户确立最适合的深度参数创造条件。

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深度测定使用深度测定计进行,使用时先设置平面钢板的基准值为零,然后测定凹陷的深度值,两者之差就是钢板的深度。 通常来说钢板的深度值是 21UM. 但是不同的客户又有不同的要求,深度可以根据文字的遮盖力有所增减。 又图是钢板深

度测定的方法: 将钢板平放于深度测定计的平台上面, 先测定平面的值, 在测定深度, 量取两者之差。

(I) Depth measure :

The depth is most important parameter of pad plate. Measure the depth by Depth Measure Meter. Put the pad plate on the flat-Table of depth measure meter, standard depth is 21um. But different customer need different depth. 11)包装

制作完毕的钢板应用 30 倍放大镜进行图文检查,符合要求的钢板要符合原稿的图文质量,边缘锋利光滑,深度适合,网点光洁清晰,没有针孔和砂眼。移印钢板制作完毕需要装进塑料袋里,将钢板表面所有异物去除干净,装进塑料袋里,喷上防锈油,即可交付客户使用。

After finishing all process of making pad plate:

- Remove all remains by clothes dipping with solvent..
- Put into plastics bag and Spray anti-rust oil to pad plate and marking name.

One well quality pad plate:

- Smooth and tartness brim of words; Correct deepness
- Correct position of drawing. Mesh dot clearly and completely No pinhole, no aperture

EQUIPMENT ON MAKING PAD PLATE

ITEM	STANDARD ITEMS	QTY	Unit	FOB
	PM-3266FL Film output machine	1set	4442usd	4442usd
	PM-30TC Turning coating machine	1set	235usd	235USD
	PM-40TC Dipping coating machine	1set	1100usd	1100usd
	PM-1828UVE UV exposure machine	1set	100usd	100usd
	PM-2840UVE UV exposure machine	1set	289usd	289USD
	PM-4050UVE UV exposure machine	1set	666usd	666usd
	PM-5060UVE UV exposure machine	1set	706usd	706usd
	PM-4545DC drying closet	1set	912usd	912USD
	PM-2030DC Simple drying closet	1set	124usd	124usd
	Film for Output machine	1roller	26usd	26usd
	Developing powder	1kg	3usd	3usd
	Fixture Powder	1kg	3usd	3usd
	Emulsion	5tin	200usd	1000USD
	Developer	5tin	32usd	160USD
	Etching liquid	10lit	10USD	100USD
	Brush	2pcs	3usd	6USD
	Spraying gun	2pcs	37usd	74USD
	Tina Solvent	10Lit	7usd	70usd

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PM-2840UVE 晒版机 UV EXPOSURE MACHINE INSTRUCTION



一, 设备概要

PM-2840UVE 是专门针对移印钢板制版而设计的 UV 晒版机,它具有体积小,使用方便,携带容易,适合移印钢板,

树脂版,铜新版的晒版操作。它有盖板,操作面板,UV灯管,平台玻璃构成。

PM-2840UVE UV exposure machine used to make pad plate. It is consist of cover, Glass flat, UV lamp and operation panel.

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TECHNOLOGY PARAMETER

- 电源 **POWER SUPPLY**: AC 220V 50HZ : AC 220V 50HZ
 - 灯管功率 lamp wattage: 4×15W TOTAL WATTAGE: 4×15W
 - 平台玻璃面积(glass dimension): 450mm*290mm
 - 外形尺寸(outer dimension): 600mm*250mm*150mm
 - 重量: 9KG.

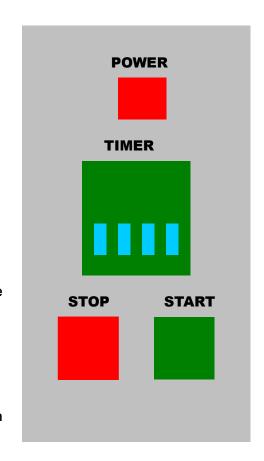
二. 操作面被 Operation panel

● Power: 电源开关

power supply switching. 接通或者断开电源开关。

Press the button will connect power supply.

- Timer: 时间继电器: Setting exposure time. Exposure time
 will be continuing till the time over.
- Stop: 关闭 UV 灯管 shut off UV lamp.
- Start: start on UV lamp till finishing UV exposure, when



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pressing this button UV lamp begins to exposure.

三,安装 Install

(1) 电源连接 POWER SUPPLY CONNECT.

3-1 晒版机电源采用单相 220V 供电,接地线(严禁地线接于为线或零线上).

Please connect earth line well and connect 220V/50HZ.

3-2 机组配电要求: 主电源电压: 额定电压±10%以内

Voltage 220V±10%

主电源电压: 额定频率±2%以内

Frequency: 50HZ ±2%

3-3 主电源电压波动超过规定范围时,不准起动晒版机,否则视作操作不当,由此引的损坏不在本公司保养范围之

内.

Please not use UV exposure machine when voltage is over upper range.

四,开机运行 Operation process

(1) 开机前准备 Preparative

1-1 检查机组周围有否异状.

Check if machine is ok.

1-2 检查机组电源连接是否妥当(电压是否符合晒版机电压要求).

Check if voltage is ok.

(2) 晒版机操作 Operation

2-1 当电源接驳后, 先开启电源总开关, 开机后, 调好曝光时间, 并把要晒的版同菲林放在晒版机的中心位置, 保

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证最好效果,扣好盖再换"启动"机器为自动工作,到晒出版来为止。

First connect power supply, start **Power** switching, set the exposure time by **Timer**. Put the steel plate covered with film on the glass center of UV exposure unit.

Cover the covering, press "Start" button till finish exposure.

五,保养 Maintenance

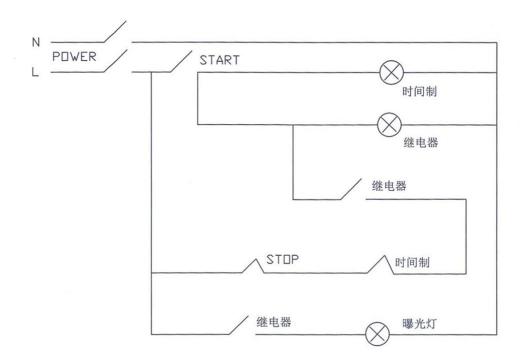
请经常清洗晒版机的玻璃检查曝光灯的扇热部位是否通畅,以保证光源的平均分布。

Please clean the glass so that get best exposure quality. Please keep dispel heat hole of UV lamp open to prolong the life of UV lamp.

点,故障分析 TROUBLE SOLVE

问题 PROBLEM	检查 CAUSE	检查 SOLVE
1. 灯管不亮	1. 灯管是否通电 Check power	1. 电源 Change power line
UV lamp do not light	2. 灯管是否坏 Check lamp if perfect	2. 换灯管 Change UV lamp
2. 灯管亮不熄	1. 时间制是否正常 Check Timer delay	1. 更换时间制 Change timer delay
UV lamp do not shut off	2. 继电器是否正常 Check the relay	2. 继电器 Change relay
3. 时间制不显示	1. 时间制是否正常	1. 电源更换
Timer not display	是否有电 Check timer delay	时间制 Change timer delay





电路图 circuit diagram

EXPRESS-EXPOSURE UNIT

PM-2840UVE

Operation instruction 操作说明

- 1) Plug in mains plug. 插上电源线。
- 2) Open the cover of UV exposure unit。 打开 UV 晒版机盖板
- 3) Put pad plate coved with film on the glass center of UV exposure unit.

将覆盖菲林片的移印钢板以菲林片朝下的方式放于晒版机的平台玻璃上。

- 4) Setting exposure time. 设定正确的曝光时间。
- 5) Pressing START switching to turn on UV lamp.

打开启动开关开始进行曝光。

6) PRESSING STOP switching to turn off UV lamp when the time is over.

当曝光时间结束后按下 STOP 开关关闭 UV 灯管。

7) Opening the cover and taking out pad plate from UV exposure machine.

打开盖板,取出移印钢板

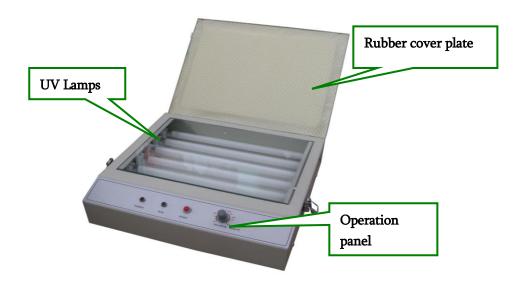
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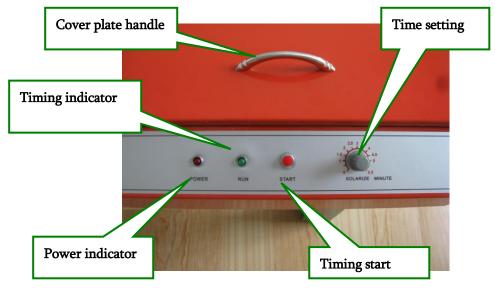
8) Shut off power 关闭电源.

PM-1828UVE Operation Manual



Application:

This series of exposing unit is capable of exposing steel plates and nylon plates. Here are some characteristics:



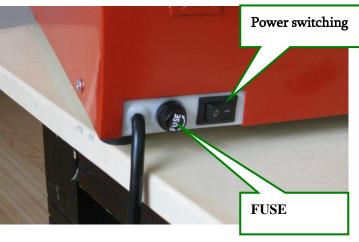
1) excellent outlook with strong and light machine body. Users' eyes and skin are protected by the closed metal case in preventing leakage of UV light.

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- 2) Once pumped to vacuum, the whole process of exposing can be finished automatically. Easy to use and able to increase productivity at the same time.
- 3) Model:PM-1828UVE
 - Light source: UV light
 - Lamp power*amoun:8W*6
 - Exposure duration:0~5.5min
 - Weight(kg):5
 - Max. exposure area(mm):260*210
 - Machine dimension(mm): 300*290*75
 - Packing dimension (mm): 320*310*90
 - Power:220V



• Instruction:

Solar plate are made up of 3 layers:

- 1-A steel or plastic backing plate
- -The light sensitive polymer layer that will form the impression. This is the layer that hardens where it is exposed to UV light.
- -A cover film. This protect the plate and is removed before exposure.

Here's a brief overview of the process:

- 1, Remove the cover film.
- 2,The artwork, on overhead transparency film, is placed on top of the plate. During exposure, the black areas in the artwork block out the UV light and the plate underneath will remain soft, the clear areas will let UV light through and will harden the plate below.
- 3,Scrub the plate in warm water washes away the soft parts of the plate
- 4,Dry the plate and post-expose.

Operation Process

- 1. Connecting with power supply;
- 2. Press down the power switching;
- 3. Cover the film on pad plate and put onto the glass of UV exposure machine;
- 4. Setting the exposure time through timing setting Knob;
- 5. till the indicator of RUN turn off. Take out the pad plate.

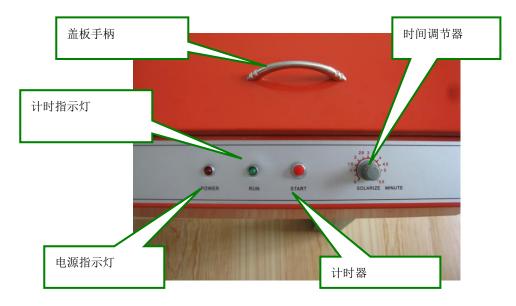
6.

PM-1828UVE 小型晒版机使用说明书

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一、性能与用途(Function & Application)

该机体积小,结构紧凑,光源稳定,低电压仍可正常启动,波长与树脂版吻合良好,晒出的版材具有文字、图像 清晰、耐印率高等特点。适合印制商标、名片、请柬、小表格等的印刷单位使用。

二、主要技术指标:

1、电源: 110v~60HZ 功率: 50W



- 2、光源: 8W*6
- 3、波长: 3500*4599 埃
- 4、曝光时间: 0~5.5 分钟连续可调
- 5、晒版面积: 210*260mm
- 6、体积: 320*310*90mm
- 7、重量: 5kg

三、晒移印(树脂)版操作:

- 1、插上电源;
- 2. 打开机器后背的电源开关;
- 3. 设定通过调整面板上面的 START 旋钮调整曝光时间;
- 4. 曝光:将菲林或制版转印纸正面与移印(树脂)版贴紧,平放于玻璃上,压好上盖,曝光 2~5 分钟(因板材不同,需按实际使用而定,时间稍长,利于版面干净)。
- 5、直到 RUN 指示灯熄灭, 打开机器盖板, 取出移印版, 等待下一步操作。
- 6. 显影:把己曝光的移印(树脂)版放入显影液中,显影时间一般控制在20秒至2分钟之间,(显影液浓度的配制应根据显影粉的具体配方来定),然后取出移印(树脂)版放入清水中冲洗干净即可。

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