



快速乾燥機系列

High Speed Dryer



燁品企業有限公司
YE PIN CO., LTD

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功能特色--4大提升

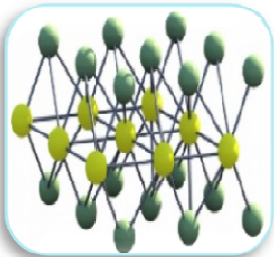
Features—4 Up



- 提高產品的抗拉性、抗破性、透光率、耐久性
- **Increasing tensile resistance, fracture resistance, transparency , durability**



- 提高成型品的良率及品質
- **Increasing product validity and quality**



- 提高份子之間的連結
- **Increasing molecule combination**



- 提高生產的稼動率
- **Increasing production mobility**

功能特色--6大降低

Features--6 Downs



- 減少一半的烘料時間
- shorten half time of drying



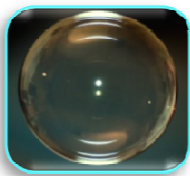
- 降低含水率200 ppm以下
- Reducing water contain rate under 200ppm



- 降低烘料成本，節省電費40%以上
- Reducing electricity bill more than 40%



- 減少模具清洗的次數 (PA46,PPS)
- Reducing cleaning frequency of mold(PA46,PPS)



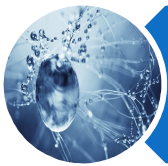
- 減少乾燥不完全所產生的不良(流紋、氣泡..等)
- Reducing defects of incomplete drying (such as streak, bubble....etc.)



- 降低原料成型時，經過料管高溫混煉的所產生的氣體
- Reducing the generation of gas during the injection molding

7大優勢結構

7 Structures



不用接冷卻水
No cooling water



不銹鋼外殼易保養
Easy maintenance for
stainless steel case



集塵器
Dust Collector



LED微電腦式控制面板
LED microprocessor
controlled panel



功能均用燈號顯示
Light display function



機台可移動
Moveable



外罩式過濾器清理容易
Easy clean for outer
filters

- 多功能快速乾燥機搭配專利截料閥,使輸送管內的塑料不殘留,無塑料回潮的問題。
- **Multi-function high speed dryer device is equipped with patented valve to completely clean the plastic residue such that there will be no plastic material re-dampening problem.**

專利截料閥
Patented Valve



已申請多國專利結構

**Multi-national patent
application structure**

乾燥效率比較

Compare drying efficiency



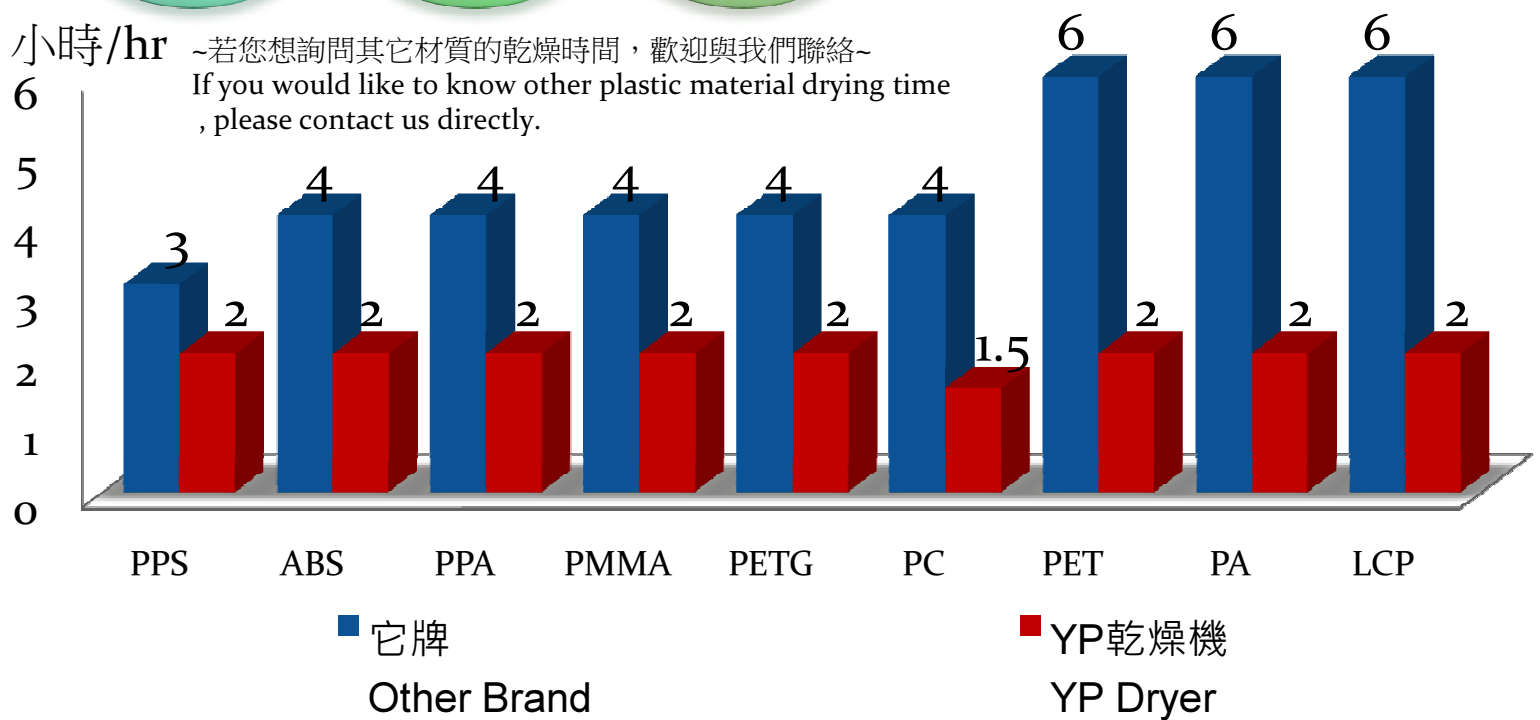
效率佳
High
Efficiency

速度快
High
Speed

節能
Energy
Saving

YP 節省電費 40% ↑
YP save electricity 40% ↑

小時/hr ~若您想詢問其它材質的乾燥時間，歡迎與我們聯絡~
If you would like to know other plastic material drying time, please contact us directly.



乾燥時間/小時 Drying Time / Hr	PPS	ABS	PPA	PMMA	PETG	PC	PET	PA	LCP
它牌 Other Brand	3	4	4	4	4	4	6	6	6
YP乾燥機 YP Dryer	2	2	2	2	2	1.5	2	2	2

含水率太高，對塑料之破壞

Water content rate is too high, it will be damage to plastic



若要生產高質量的塑膠製品必須先注意到 “前端塑料的乾燥處理”
If you would like to produce high quality plastics, you must be aware of “drying process before injection molding”.

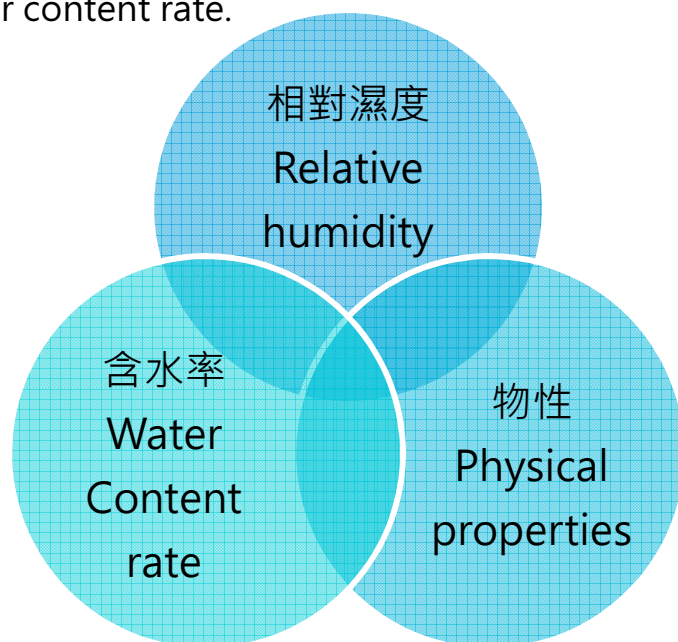
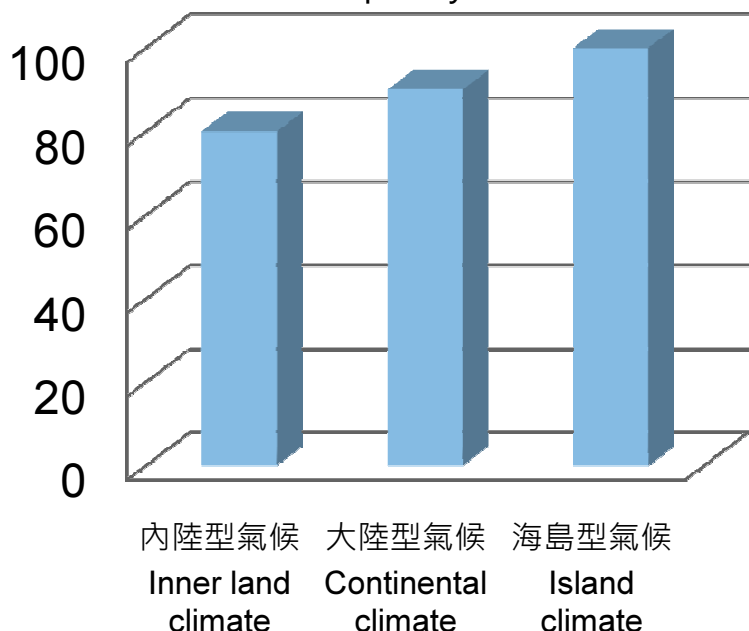
相對濕度、含水率、物性相互關係

Relationship between Relative humidity, Water content rate, Physical properties



空氣中相對濕度過高時，塑料就會快速吸濕，使塑料的含水率增加
Relative humidity is too high in the air, plastic will humidify quickly, it will increase water content rate.

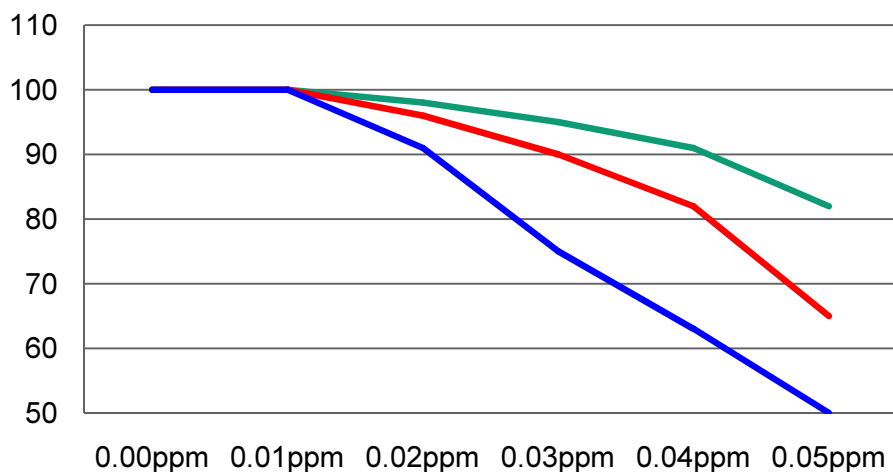
相對濕度%
Relative humidity%



與最大值百分比

Ratio to max bond %

含水率愈高，對物性的影響愈大
High water content rate, it will have big influence to physical properties.



伸長強度
Extension strength
延伸率
Extension rate
耐衝強度
Impact strength

含水率
Water content rate



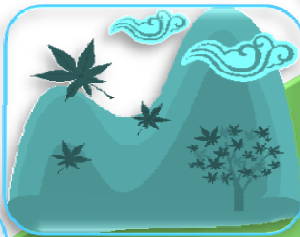
作動原理?

What's principle?

低氣壓使水的沸點降低
Low pressure makes
boiling point of water
lower .



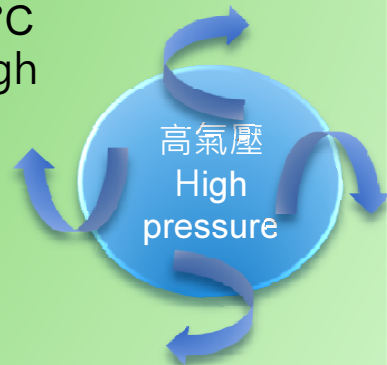
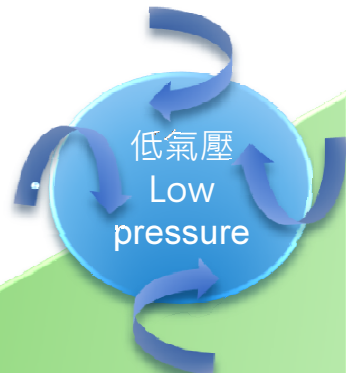
在喜馬拉亞山水的沸點是73°C
Boiling point of water
in the Himalayas is 73°C .



在高山水的沸點是80 °C~ 90°C
Boiling point of water in high
mountain is 80 °C~ 90°C.



在平地水的沸點是100 °C
Boiling point of water
on the ground is 100 °C .



燐品的快速乾燥機的乾燥原理，是用物理原理，非化學吸附。簡易的說：快速乾燥機將空氣吸入，產生低壓的氣流經過加熱，將乾燥的熱風打入料桶，將塑料中的水份子蒸發，(使露點的溫度達-40 °C 以下)。

Our High speed dryer uses “physical principle”, not chemical absorbing. Let me explain to you: Air had been sucked by our high speed dryer, producing low pressure air, the low pressure air through heater. It becomes drying hot air into hopper to make moisture of plastic to vaporize.(reach dew point under -40°C)



化學吸附乾燥機

Chemical adsorption dryer

VS YP乾燥機

VS YP Dryer



VS



決戰三回合

Three round battle

第一回 , 省錢,省時,省電

Round One, Save Time,Money,Electriciity

化學吸附乾燥機

Chemical adsorption dryer



YP 乾燥機

YP dryer



額外的工程費用 Additional project costs

要接水管

Link water pipe



無

No



冷氣費用 Air-conditioning costs

要維持室內恆溫,
冷氣需持續的運作

In order to maintain the
indoor temperature, air-
conditioning needs to
continue operations



無

No



耗材費用 Consumables cost

高

High



低

Low



第一回 , 省錢,省時,省電

Round One, Save Time, Money, Electricity

化學吸附乾燥機

Chemical adsorption dryer



YP 乾燥機

YP dryer



乾燥時間
Clean room

如: PC要3~4小時
LCP要6~8小時

For example:
PC needs about 3~4
hours of drying time.
LCP needs about 6~8
hours of drying time.



如: PC要2小時
LCP要2小時

For example:
PC needs about 2 hours
of drying time.
LCP needs about 2 hours of
drying time.



耗電量
Power consumption

高耗電量

High power
Consumption.



低耗電量，約化學
吸附乾燥機的一半

Low power
consumption, power
consumption is about one
half of chemical adsorption
dryer.



第二回，結構

Round Two , Structure

化學吸附乾燥機

Chemical adsorption dryer



YP 乾燥機

YP dryer



冷卻水
Cooling Water

要接冷卻水

It need to link cooling water.



不接冷卻水

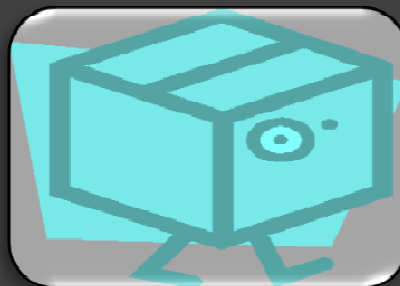
No cooling water



外殼
Outer Case

白鐵烤漆，易掉漆生鏽

Painted iron, easy to peel off and get rusty.



SUS304不銹鋼，
耐久不生鏽

SUS304

stainless steel,
durable and not
easy to rust.



分子篩
Molecular sieve

如:烘PA會出油，蜂巢和
分子篩會阻塞

For example: Drying PA
Will be out of oil.

Honeycomb and
molecular sieve will be
clogged.



沒有分子篩，
具有專利機芯
結構，沒有阻
塞的疑慮

No molecular sieve, dryer
is equipped with patented
cassette mechanism
structure, no doubt for
clogging.



第三回，環境

Round Three, Environment



化學吸附乾燥機
Chemical adsorption dryer



YP 乾燥機
YP dryer



潔淨的無塵室
Clean room

接冷卻水，有漏水的可能性
It may leak water possibility, due to cooling water.



適用，無漏水的可能性
Suitable, no leaking water possibility.



熱氣排放
Exhausting hot air

會排出熱氣
It exhausts hot air.



無
No exhausting hot air.



多功能快速乾燥機

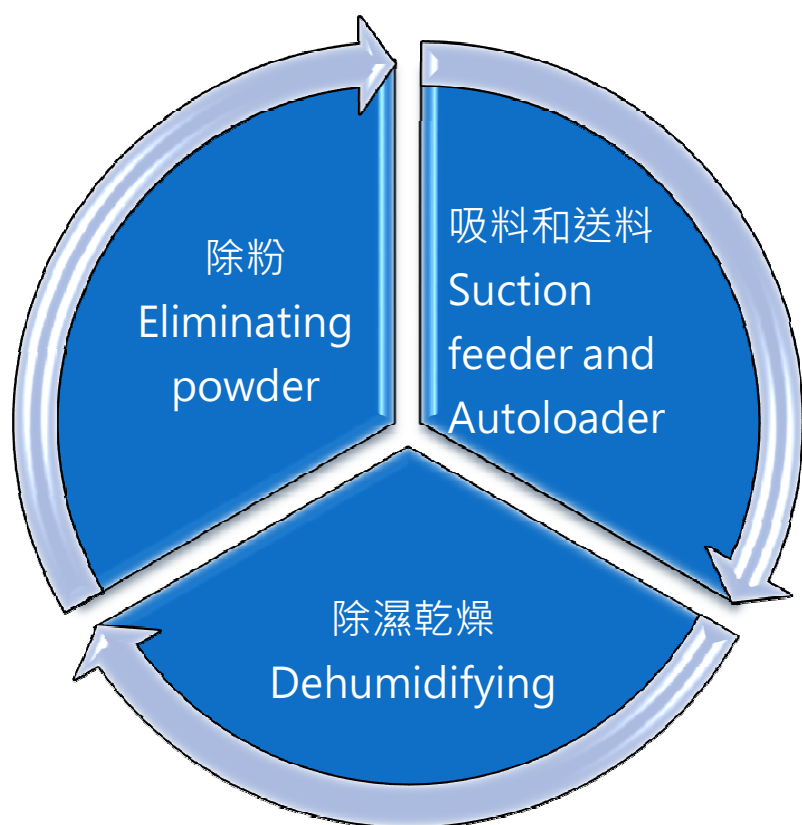
Multi-function High Speed Dryer

多功能乾燥機具有
如下特點:

1. 吸料和送料
2. 除濕乾燥
3. 除粉

Multi- function dryer has below
features:

- 1.Suction feeder and Autoloader
- 2.Dehumidifying
- 3.Eliminating powder



除粉，是指將顆粒的塑料經碰撞所產生的粉末，加以去除

Eliminating powder，means powder produced by the plastic pellet collision

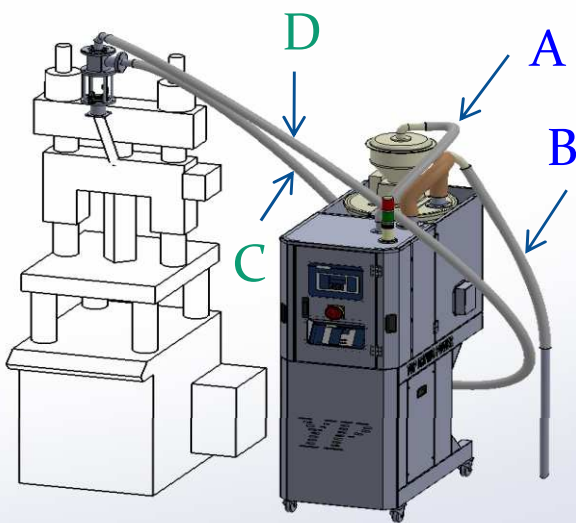
多功能快速乾燥機-結構

Multi-function high speed dryer -Structure



多功能快速乾燥機-示意圖

Multi-function high speed dryer - Schematic diagram



A:YP乾燥機吸風

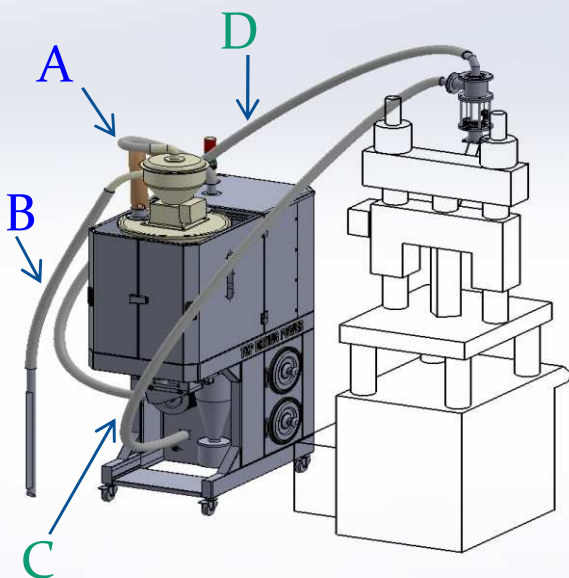
A:Wind has been sucked by YP dryer.

B:將塑料抽入料桶中

B:Plastic material send into hopper.

C:YP乾燥機吸風

C:Wind has been sucked by YP dryer.



D:將乾燥完成的塑料送至成型機或押出機

D:Drying completed plastic material
send into injection molding machine
or extruder machine.

YP 快速乾燥機適用在各種射出機或押出機上

YP high speed dryer is suitable for all kinds of injection molding machine or extruder machine.



依客戶需求，乾燥機可搭配儲料桶，
報價不含儲料桶價格

Depend on customer demand, our
dryer could equipped with storage
can, price does not include storage
can price.



多功能快速乾燥機規格表

Multi-function High Speed Dryer Specification

型式 Model		HS-015MD	HS-025MD	HS-050MD	HS-100MD	HS-200MD
乾燥風量(m3/hr) Drying wind rate		30	30	60	120	240
總瓦特數(kw) Total wattage		3.26	3.26	3.95	5.00	7.15
料桶容量(kg) Hopper capacity		15	25	50	100	200
尺寸 Size (mm)	寬度 Width	660	530	530	730	860
	深度 Depth	1220	1090	1090	1250	1500
	高度 High	1680•2160	1680•2160	1680•2160	1780•2250	2040•2475
重量 Weight(kg)		217	217	245	353	473

*此機台為連續式適用於所有塑料、生產用、實驗室

*This machine is continuous and suitable for all plastics ,production, and laboratory.



YP 快速乾燥機

YP High Speed Dryer

省錢	Save Money
快速	High Speed
節能	Save Energy

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