

- ※ 隨機備品備件
- ※ 配電工程(按布線圖定位所有電櫃,客戶電源櫃至設備所有動力線盒槽)
- ※ 冷凝水回收機
- ※ 電腦版智能節溫控系統

- ※ Comes with standard free spare parts.
- ※ Power line distribution engineering (Locate al electrical cabinets, and connect all cable lines and trays from the equipment to customer' s electrical cabinets according to wiring diagram.)
- ※ Condensate water recovery machine.
- ※ Computerized smart energy-saving and temperature control system.



回倉原紙輸送系統(驅動側)

Paper Roll Delivery System For Storage (Drive Side)

原紙輸送系統 Paper Roll Delivery System

規格表 Specification

原紙輸送 Base Paper Conveyor			原紙輸送轉盤 Base Paper Turning Table			氣動踢紙器 Kick part		
功率 Power	2.2kw		規格 Size	Φ2500xH900		寬度 Width	1000mm	
傳動速度 Delivery Speed	15m/min		傳送馬達 Deliver Motor	1.5kw 減速馬達		機身高度 Height	1840mm	
鏈板 Link Plat	W250x8t		旋轉馬達 Rotary Motort	2.2kw 減速馬達		推力 hrust	2000KG(0.5Mpa)	
鏈條 Chain	63.5p		傳送速度 Delinvery Speed	15m/min		工作氣壓 Working Air Pressure	0.1-1.0 Mpa	
			旋轉速度 Rotary Speed	15m/min				

- ※ 此文件所有技術參數,技術說明,及圖片,其最終解釋權為明瑋機械(東莞)有限公司所有
- ※ 實際產品配置,請聯繫銷售代表協商確定
- ※ 更多產品詳細信息請聯繫:18825537663/0769-82979100-6304

- ※ Mingwei Machinery (Dongguan) Co., LTD holds the right to all contents, technical parameters, and photos that are used in this document, and the right to interpret them.
- ※ Please contact a sales representative to verify the actual configuration of the product.
- ※ Please contact 188 2553 7663/0769-82979100-6304 for more details.

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明瑋機械(東莞)有限公司
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明瑋国际集团
MING WEI GROUP

MAX-350



智能高速瓦楞紙板機

Smart High Speed Corrugated Line

2.5米(m)/2.8米(m)/3.1米(m)/3.3米(m)



特色说明

長時間高速運轉, 以全自動控制技術+機械配合設計, 全自動隨訂單紙質車速調整, 減少人工操作及人為流失, 減少耗損, 提升產能, 達成真正的高效率生產需求。

如何讓生產效率最大化, 如何克服訂單更換頻繁、紙質、人工操作、環境因素的多變需求, 宣稱350米的高速生產線, 為何總是達不到宣稱的效率, 因為沒有好的自控製來降低紙質與人工操作的不穩定因素。

台灣明瑋集團長期致力於瓦楞紙的生產設備, 了解到沒有好的自動控制與機械配合設計, 是無法達成如同美日紙板機的高效率生產, 因此聘請了多位日本資深顧問針對目前中國大陸市場上瓦楞紙生產線生產設備遇到的瓶頸, 作總體的解決方案, 來達成真正高效率的生產線, 而非只是曇花一現短時間的高速生產, 藉由這個解決方案, 降低了不定因素(訂單、紙質、漿糊、人工、溫度、濕度...等)。用自動控制取代人工判斷, 讓整條生產線保持在最適合的高速生產, 來達成高效率的生產, 提升產品交貨品質。"明瑋集團的用心與提升, 將改變紙板生產的模式, 由您開始。"

Feather

Longtime keep in highest production speed corrugated line, adopted fully computerized control technology and accommodated with mechanical structure design, fully automatic adjusting follow orders material running speed for reach real high efficiency production requirement.

How to get the Maximum productivity efficiency, how to accommodate with order change frequently and material, operators, environment multiple factors, and why be called 300m/min. high speed corrugated machines always could not reach theory's Max. production speed and efficiency? Due to without nice automatic control system for reduce paper material, operators these unstable factors,

Ming Wei group have been long term dedicated developing new generation corrugated line machines, and realized without excellent automatic control system and nice mechanical structure design is impossible to reach like European or Japanese machines with high efficiency performance corrugated line, so Ming Wei hired senior consultant team with more than 40 years experience in corrugated industrial field from Japan for guide how to improve in Chinese market met general problems of corrugator and offer their total solutions, for reach real target high efficiency corrugator line production that should not just short time high speed running machines, via this solution, reduce these variable factors, like orders, paper raw material, starch glue, steam, operators, temperature, humidity...etc. the factors should be judged by computer control system instead of manual operation, let all the corrugator line keep at most suitable highest running speed for reach highest efficiency and best deliver products quality.

Ming Wei Group's dedication and improvement will be changed corrugated production model, and will from your business beginning.





CSF-35H | 卡匣式單面瓦楞機
Cassette Single Facer

1. 無糊又負壓吸風式，上下瓦楞輪直徑:495.330mm(大小輪設計)。
2. 最高機速:350米/分。
3. 卡匣式瓦楞輪。瓦楞輪更換快速。
4. 糊輪座分離式設計，採用旋轉退出式設計，隙控制更穩定。
5. 參數式間隙自動調整控制。

- 1.Fingerless Negative Pressure Suction Design, Upper /Lower Corrugated Roll Dia.: 495.350mm(Bigger, Smaller Dia. Design)
- 2.Max.Machine Speed:350 M/min.
- 3.Quick Flute Change (Cassette Type).
4. Independent Glue Unit By Rotation Way Eject Out For Get Stable Gap Control.
5. Auto Gap Adjusting By Parameter Control.



直接氣動驅動瓦楞輪組(不需地面支架)
Pneumatics Direct Drive Corrugated Rolls Cartridge
(No Ground Stands Required)



糊輪座可旋轉退出
Glue Unit By
Rotation Way Eject



瓦楞輪探側吸設計
Corrugated Rolls Side
Suction Design

PH-5H | 面紙預熱輪
Preheater

1. 自動包角設計，隨紙質，車速自動調整，出紙附有張力平衡輪。
2. 預熱輪外徑1000mm，預熱範圍60°~270°。
3. 使用大外徑預熱缸，增加原紙預熱面積，使原紙能得到最適當的溫度與濕度。

- 1.Wrap Angle Auto Adjusting By Paper Material And Speed.with Tesion Balance Roll.
- 2.Preheater Dia:1000mm,Wrap Arc:60 To 270 Deg.
- 3.Independently Driven For Even Heat Transfer.



PC-5H | 芯紙預熱輪
Preheating

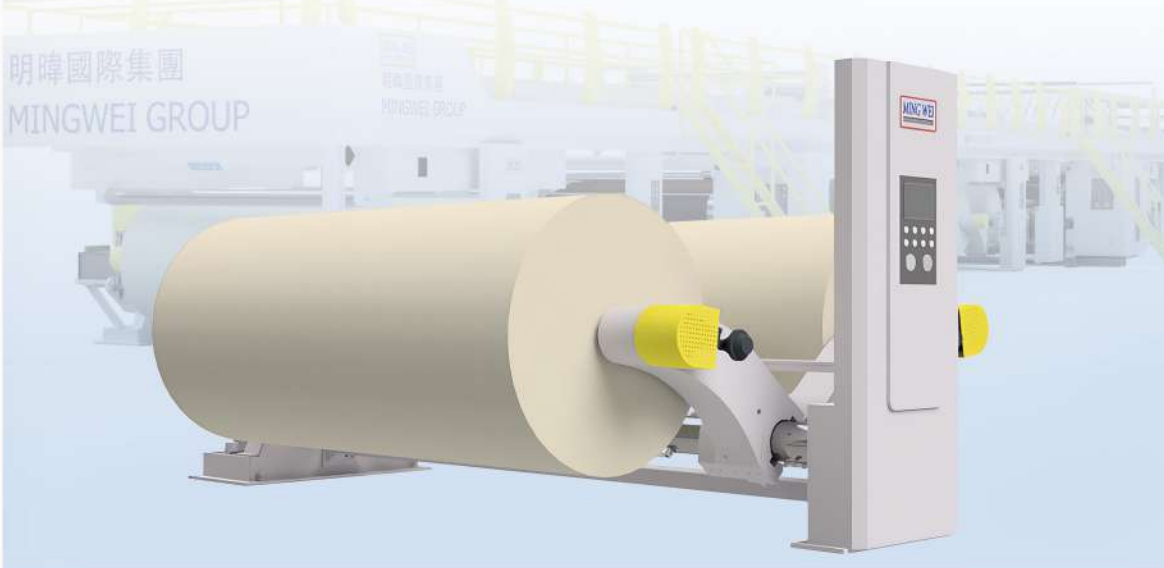
1. 自動包角設計，隨紙質，車速自動調整，出紙附有張力平衡輪。
2. 預熱輪外徑1000mm，預熱60°~270°。
3. 使用大外徑預熱缸，增加原紙預熱面積，使原紙能得到最適當的溫度與濕度
4. 採單面蒸氣噴霧裝置，調節芯紙濕度。

- 1.Wrap Angle Auto Adjusting By Paper Materia And Speed.with Tesion Balance Roll.
- 2.Preheater Dia:1000mm,Wrap Arc:60 To 270 Deg.
- 3.Independently Driven For Even Heat Transfer.
- 4.With Steam Shower Device For Paper Moisture Adjusting.

MRS-8 | 無輪式原紙架
Shaftless Mill Roll Stand

1. 最大夾紙直徑1500mm。
2. 全油壓力操作。
3. 張力控制:採氣壓壓力剎車。
4. 夾頭採用氣脹式設計。
5. 附有自動對邊功能。

- 1.Max.Roll Dia:1500mm,Swing/Arc Arm Type.
- 2.Fully Hydraulic Operation.
- 3.With Tension Brake Design.
- 4.Chuck:Torque Or Cone, Customer Option.
- 5.With Auto Paper Edge Aligning Function.



ASP-350 | 自動接紙機
Auto Splicer

1. 伺服型高速自動接紙機，採用雙頭接紙設計。
2. 最高接紙速度350m/min。
3. 附有精密的張力控制。
4. 導紙輥輪經過動平衡校正，高速接紙
5. 附有張力檢知裝置。

- 1.Servo Type High Speed Auto Splicer Machine With Two Splicing Heads Design.
- 2.Max.Splicing Speed: 350m/min.
- 3.With Precision Tension Control System.
- 4.With Dynamic Balance Alianing For Warp Rolls.
- 5.With Load Cell For Tension Control.



TPH-5H | 三重預熱輪
Triple preheater

1. 自動包角設計隨紙質，車速自動調整，出紙附有張力平衡輪。
2. 預熱輪外徑1000mm，預熱範圍60°~270°
3. 使用大外徑預熱缸，增加原紙預熱面積，使原紙能得到最適當的溫度與濕度。

- 1.Wrap Angle Auto Adjusting By Paper Material And Speed. with Tesion Balance Roll.
- 2.Preheater Dia:1000mm,Wrap Arc:60 To 270 Deg.
- 3.Independently Driven For Even Heat Transfer.



BC-7 | 天橋輸送部
Overhead Bridge Conveyor

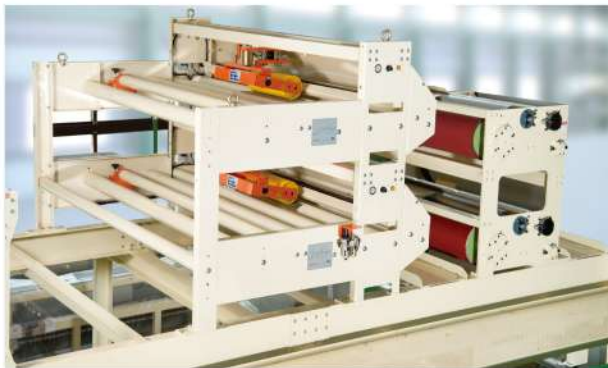
1. 各單瓦機上方安裝上引輸送架一組。
2. 採用高摩擦力輸送皮带，與瓦楞機速度同步，使瓦楞紙輸送平整不倒楞
3. 雙層式平行輸送架導引單瓦紙至三重預熱輪
4. 大馬力驅動馬達+變頻器確保架上牽引單面紙同步運轉。

- 1.Take-up Conveyor At Each Single Facer.
- 2.High Friction Conveyor Belt Runs Simultaneously With Single Facer, Via Follower Drive, Ensuring Accurate Efficient Shingling.
- 3.Double Level Type Conveyor Guides The Board Into The Friphe Preheater.
- 4.Big Power Motor With Inverter DesignForSpeedSynchronize.

E+L | 自動對邊及剎車裝置(杭州E+L)
Edge Aligning & Tension Brake

1. 寬度可以依照紙寬自動調整。
2. 低噪音，高準確性，以及紙張力需求的高穩定性
3. CCD顯像設計，校對準確方便。
4. 改變紙寬自動根據新的紙張寬度。

- 1.Auto Adjusting Paper Width And Edge.
2. Low Noise, High Accuracy And According To Paper Material Gsm Auto Adjusting.
3. CCD Display, Convenience For Edge Aligning.
- 4.Orders Change According To Paper Width Adjusting Automatic.



GM-7 | 雙層糊付機
Glue Machine

1. 大型機壁及輪軸設計，使輪軸穩定運轉。
2. 糊輪表面特殊精密雕刻，並鍍硬銘處理
3. 糊量間隙自動隨車速調整，機械運轉與熱板部同步運轉。
4. 配置大型預熱輪。

- 1.Big Frames Design For Glue Unit Running More Stable.
- 2.Surface Of The Glue Roll Is Specially Chrome Plated And Hardened With Netting Dents And Engraving.
- 3.The Machine Running Is Operated Simultaneously With Heating And Cooling Section.
- 4.Equipped Large Size PreheaterV.



HC-8 | 熱板冷卻部(20块薄型热板)
Hot plate coolingsection (20 thin hot plates)

1. 加壓結構之升降，以油壓電控操作，並可隨車速自動升降加壓。
2. 熱板表面經研磨及鍍銘處理。
3. 氣缸式加壓傳熱系統，可提高熱量傳遞
4. 附有棉織帶的自動張力調整裝置。

- 1.Hydraulic Raising & lowering Of Pressure Device Via Electrical Control Unit.
- 2.Heating Plate Is Precision Ground And Chrome Plated.
- 3.Cylinder type Press System Increases Heat Transfer Efficiency & Speed.
- 4Automatic Tension Adjustment For Cotton Belt.



DR-7 | 驅動部
Drive Roll Stand

1. 驅動輪外覆人字型橡膠使紙板傳送穩定
2. 採用大型萬向接頭，傳動穩定。
3. 大型伺服驅動馬達，直接傳動驅動輪。

- 1.Drive Rolls Are Lagged With Rubber For Greater Traction.
- 2.Adopted Universal Transmission Joint.
- 3.Adopted Direct Connect For Servo Main Drive Motor Transmission.



- ※氣缸調壓式熱壓板
- ※馬達及控制箱
- ※棉織帶
- ※糊輪及回收設備(不含製糊機)
- ※機內蒸氣配管(不含溫控)

- ※ Heating plate with pneumatic pressure regulating system
- ※ Motor and control panel *1
- ※ Cotton belt *1
- ※ Glue roller and glue recycle equipment (glue making machine is NOT included)
- ※ Steam piping within machine (temperature control system is NOT included)

MAX-3000
生產管理系統(參數化電腦控制系統)
Production Control System
(Parameterize Computer Control System)



1.全自動生產作業，提高生產效率。

採用參數式設計，自動依據紙質，電腦調整各種參數，使生產線長時間保持最高速(250/300米/分)速度生產運轉

2.避免人疏忽，減少停車時間，確保品質。

減少人員操作，人員只作原紙卷的更換的工作，其余皆由電腦全自動控制不需太多熟練的操作人員。

3.準確的換紙信號，減少原材料的損耗。

訂單更換時，電腦系統自動判斷更換時機，並將廢紙藉由橫切機的切除掉迅速排出，不需降低生產速度，確保長時間保持最高速度運轉，

4.即時監控生產動能。

參數化電腦系統設計，即時提供各項生產數據，並提供精的設計表方便管理人員監控與適時間調整生產任務。

5.集中化資料處理，提供管理分析。

管理報表提供各項生產數據分析，作為改善的參考依據

6.糊量與間隙壓力自動控制。

糊量與各項輪軸間隙壓力，自動隨紙質，車速等電腦參數控制，達到最經濟的澱粉糊使用量與最佳的生產條件。

7.提高設備綜合效率，並以保養計劃控制及停機原因分析作為改善手段，此系統具有收集以上情報資訊。

提供管理人員保養計劃與停機原因分析，作為改善行動與安排預防保養工作的進行，確保設備於良好的狀態下運行。

8.使用Windows相容電腦，PLC控制維修容易，擴充性強。

採用Windows系統設計，與其他系統的相容性佳，並採用大量PLC程式式控制，作為參數式控制的設計。

1.Fully automatic production operation bycomputer setting, improve productivity.

The computer control system adopted parameter design according to paper material adjusting automatically, let the corrugated line always keep on highest speed production(250/300 m/min.)

2.Prevent manual operation mistakes, reduce the machines stop time, ensure quality

Reduce manual operation, operator just need to change the raw material paper rolls, other control all by computer to set, no need too much familiar skill operators

3.Precision order change signal, reduce raw material consumption

Computer system judging timing for order change and let the waste paper sheets from NC cutter machine cutting and remove afterward immediately, no need reduce production speed ensure keep on highest speed production.

4.Monitoring production status on line.

Computer by parameterize design, on line provide relative data of production,and offer accurate statistics report for convenience management monitoring and adjusting production plans.

5.Centralized management report provide each production data analyze for improve productivity.

Glue volume and gap ofeach major rolls and pressure, adjusting according to paper material, speedautomatically for approach most economy glue consumption and best production condition.

Improve machines synthesize efficiency, adopted maintenance plans and machines stop reasons analyze methods for get improvement, ensure machines under good condition running and opera

8.Adopted Windows programs accommodate computer and PLC control easy to maintenance and extension able.

Adopted Windows system to design program and easy accommodate with other computer system,also using big amount PLC programmable for,parameterize control design.