



NHIE HO MACHINERY

NHIE HO MACHINERY FACTORY CO., LTD.



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Automation / Science / Technology



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TO KNOW

NHIE HO 捏合



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捏合機械廠股份有限公司
NHIE HO MACHINERY FACTORY CO., LTD.

公司概況 & 簡介 NHIE HO-DNA

捏合機械廠股份有限公司，自1986年成立以來，一直秉持著「持續創新、永續經營」的理念，並且以「堅持完美、始終如一」的態度及精神來立足市場。

Ever since its startup in 1986, NHIE HO MACHINERY CO. LTD. Has remained true to its management philosophy, the 「Down-to-earth Sustainable Management」 held by 「Hold Perfect, Keep Consistent」 attitude and spirit in this market.



「捏合」品牌行銷遍佈全球，在產業界中享有該品牌的高度知名度，並且深獲業界及客戶的認同與肯定。主要銷售的機械產品，包括「前段混練區」的捏合機、萬馬力機、雙滾輪混合機、錐形雙螺桿擠壓出片機、押出過濾機、膠料冷卻機以及造粒整廠設備，「中間段出片區」的壓延機、前後輔機設備，以及「後段成型區」的各式成型機設備，如熱壓成型機、真空熱壓成型機、射出機等。由於近年來，業務從橡膠業擴張至多領域行類別，如3C產業、航太光電、醫療、食品、化妝品、以及新式複合材料等產業上。並且我們擁有最專業的研發團隊以及多項產品研發專利，榮獲 ISO 9001國際品保認證、產品通過EMC測試以及歐盟CE安全規範認證等等要求。

「NHIE HO」 brand products are distributed in around the world under its brand name. Our products are widely acknowledged by industry and recognized by customers for their high brand exposure in the global rubber industry. NHIE HO specializes in the manufacture and distribution of 「Mixing Area」 as kneader, banbury, two roll mixing mill, twin taper screws with two rolls sheet machine, extruder with strainer, batch off machine and pelletizer line equipment, 「Sheet Area」 as calender with periphery equipment, and 「Compression Area」 various compression equipment, as rubber and silicon compression, injection molding machines. We have recently expanded our business from rubber industry to other realms such as the consumer electronic industry as well as aeronautics, photoelectric, medical, food, cosmetics, and composite materials. NHIE HO has attained the ISO 9001 international quality assurance standard and products are certified by EMC testing, have the EU CE mark of safety standard and comply with requirements.

證照 LICENSE



我們從售前諮詢到售後服務上，提供最完善的資訊與服務給予客戶。並且引領客戶共同研究、創新、開發全新方位的技術與製程，突破傳統與盲點，以創新為目標，開創新局，建立新標竿，為客戶創造出最大的市場與價值。

NHIE HO from pre-sales consulting to after-sales service, to provide the most complete information and services to customers. And lead customers to jointly research, innovation, development of new directions of technology and process, break through the traditional and blind spots, innovation as the goal, the establishment of new standards, to create a new bureau for customers to create the largest market and value.

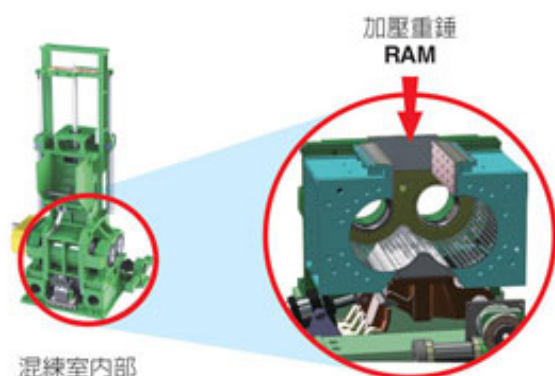


氣壓式 / 油壓式 – 密閉型萬馬力機

AIR / HYDRAULIC - INTENSIVE MIXER (BANBURY)



轉軸-二種類型 Rotors- 2 Types



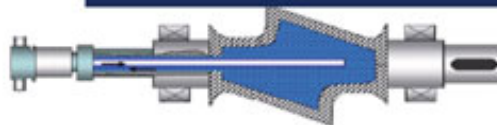
混練室內部
Internal Mixer

1. Intermix 嚙合式(咬合式) (Intermeshing Type) 80% of mixing between rotors



轉軸為螺旋式冷卻
Spiral Cooling of Rotor

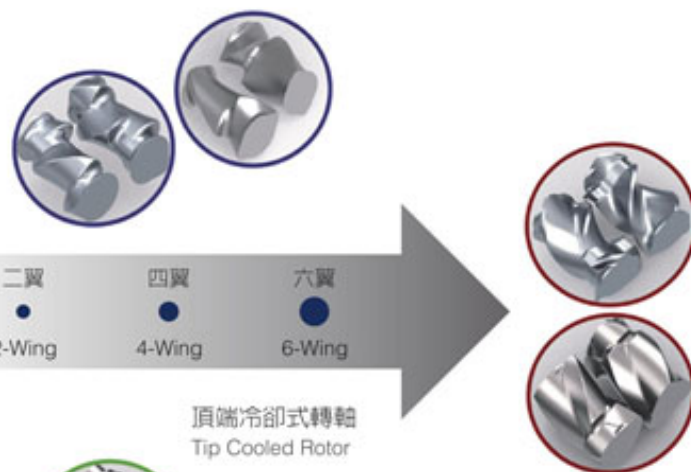
2. Banbury 萬馬力式(相切式) (Tangential Type) 20% of mixing between rotors



可選擇各種轉軸冷卻型式
Multiple Rotor
Cooling Options Available

各種類型轉軸 Various Rotors

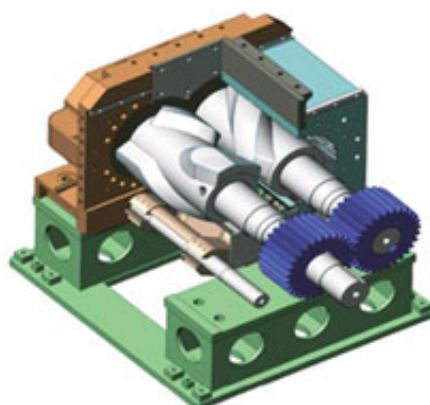
可選擇各種不同的萬馬力式轉軸結構設計
Choose Your Tangential
Rotors From Different Configurations



咬合式轉軸提供你最極致的混練品質
Intermeshing Rotors Offer You
The Highest Mixing Quality



- ◆ 轉軸間隙公差小
Gap Between Rotors is Small
- ◆ 傑出的連接橡膠和金屬表面的接觸
Excellent Contact Between Rubber and Metal Surfaces
- ◆ 高剪切力
High Shear Better Heat-transfer
- ◆ 更好的熱交換
Better Heat-transfer



型號 Model	NHBM-50	NHBM-75	NHBM-100	NHBM-120	NHBM-160	NHBM-200	NHBM-270	NHBM-370
混合容量 (liter) Mixing Capacity	50	75	100	120	160	220	270	414
混合重量 (kg) Batch Weight	40-60	60-80	80-110	100-130	130-175	160-220	220-290	300-400
主馬達 (hp) Motor Power	150-200	200-300	300-500	500-600	600-800	1000-1500	1500-2000	2000-3000
轉速 (r.p.m) Rotor Speed	35-60	35-60	35-60	35-60	35-60	35-60	35-60	35-60

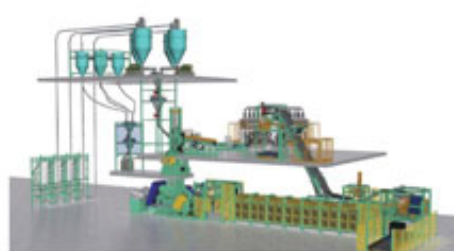
專利設計 Patent



轉軸防漏軸封為油壓式設計
Rotors Seal by Hydraulic Type



伺服馬達 & 油壓單元節能設計
Servo Motor & Hydraulic Economize Type



自動計量系統生產線
Automation Scale Feeding System Production Line

氣壓式 / 油壓式 – 加壓型捏合機

AIR / HYDRAULIC - DISPERSION MIXER (KNEADER)

捏合公司設計理念

NHIE HO Design Conception

專業提供最極致的混練工藝：如橡塑膠、聚合物、複合材料、電子基材、化工、顏料、食品和製藥等等，廣泛應用於各種產業上，並研發最先進的轉軸設計，提供機器達到「最大的效能」、「最少的耗能」以及「最佳的混煉品質」。

We supply the best perfection mixing process : rubber, plastic, compound, composite, electrical material, chemicals, pigment, food, medical etc...for various kinds industry, and to develop the advanced rotors design to supply machine 「The Best Efficiency」, 「Reduce Energy Depletion」 and 「The Best Mixing Quality」.



攪拌軸葉片型式 Mixing Rotor Type



2翼轉軸
2-Wings Rotor



4翼轉軸
4-Wings Rotor



咬合式轉軸
Intermesh Rotor

轉軸特點 Rotor Features

提高混練工藝時的剪切力，增加分散性，易於加硫作業時的低溫混練。

Improve compound shearing force and superior dispersion for curing process low temperature mixing.

- ◆ 加快混煉時間 Quick Mixing Time
- ◆ 減少混煉步驟 Reduce Mixing Step
- ◆ 提高作業產能 Increase Output
- ◆ 降低能源消耗 Reduce Energy Depletion
- ◆ 最佳的混煉能力 The Best Mixing Capability
- ◆ 最均勻的混煉效果 The Best Mixing Effect
- ◆ 最完善的結構設計 The Best Structure Design



型號 Model	MX-10	MX-20	MX-35	MX-55	MX-75	MX-110	MX-150	MX-200
混合容量 (liter) Mixing Capacity	10	20	35	55	75	110	150	200
全容量 (liter) Total Capacity	25	40	75	125	170	245	325	500
主馬達 (hp) Motor Power	4翼片 4-Wings Heavy Duty	30-50	50-75	75-125	125-175	175-250	250-400	400-500
	2翼片 2-Wings Standard	15-20	30-40	50-60	75-100	125-150	175-200	250-300
	咬合式 Intermesh	100-125	150-175	200-250	300-350	500-600	800-1000	1200-1500
傾料馬達 (hp) Tilt Motor	1	2	3	5	5	10	10	15
油壓馬達 (hp) Hydraulic Motor	5	7.5	10	15	20	30	50	75
集塵機 (hp) Dust Collector	1	2	2	3	3	3	5	5
空壓機 (hp) Air Compressor	3	5	5	7.5	7.5	10	10	15
轉速 (r.p.m) Rotor Speed	4翼片 4-Wings Heavy Duty	40 / 32	40 / 32	40 / 32	40 / 32	40 / 32	40 / 32	40 / 32
	2翼片 2-Wings Standard	30 / 24	30 / 24	30 / 24	30 / 24	30 / 24	30 / 24	30 / 24
	咬合式 Intermesh	50 / 50	50 / 50	50 / 50	50 / 50	50 / 50	50 / 50	50 / 50
混合槽傾倒角度 (angle) Tilt Angle of Chamber	140	140	140	140	140	140	140	140

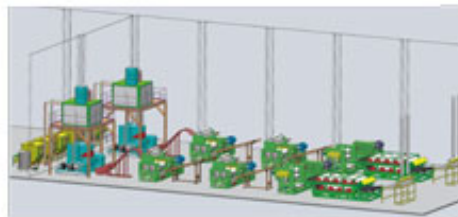
送料系統 Material Feeding System



輸送機型
Conveyor Feeding System Type



輸送帶型
Belt Feeding System Type



自動計量型
Auto Scale Feeding System Type

非加壓型捏合機 (DAK-系列)

OPEN KNEADER (DAK-SERIES)

此機器有「多種不同形狀的攪拌軸葉片設計」以及「排料方式」，廣泛應用於各種產業上的中、高黏度之原物料混練攪拌，如黏著劑、熱熔膠、矽膠、BMC、陶瓷、玻璃纖維、磁性複合物、印刷油墨、膠帶、熱固性樹脂、食品、化妝品、製藥工業等等。

The open kneader with ruder is available with a 「Variety of Blades in Different Shape Design as well as with Number of Discharge Methods and Mixing Conditions」, has already achieved applications considerable various of industries that deal with such high and medium-viscosity materials as adhesives, hot-melt material, silicon rubber, BMC, ceramics, fiberglass, magnetic compounds, printing inks, tapes, thermosetting resins, food, cosmetics, pharmacy etc.



周邊切膠設備 Auxiliary Cutter Equipment



標準式手 / 自動型-油壓式切膠機
Standard Manual / Auto Type - Hydraulic
Cutter Machine (HC-750A)



連續式輸送型-油壓式切膠機
Continuous Conveyor Type - Hydraulic
Cutter Machine (HC-750C)



超大型-油壓式切膠機
Super Heavy Type - Hydraulic Cutter
Machine (HC-1500S)

型號 Model	油壓馬達 (hp) Hydraulic Pump	裁斷力 (ton) Cut Pressure	最大壓力 (kg/cm ²) Max Pressure	裁刀寬度 (mm) Width of Cutter	裁切尺寸 (max)(mm) Size of Cut (W x H)
HC-700A / (C)	2	8.5	70	790	750 x 750
HC-1500S	15	25	70	1600	1500 x 1500

非加壓型捏合押出機 (DAKE-系列)

KNEADER RUDER (DAKE-SERIES)



型號 Model	混合容量 (liter) Mixing Capacity	全容量 (liter) Total Capacity	轉軸馬達 (hp) + (螺旋桿馬達) Rotor Motor + (Screw Motor)	傾料馬達 (hp) Tilt Motor	混合槽傾倒 角度 (angle) Tilt Angle of Chamber	轉軸轉速 (r.p.m) + (螺旋桿轉速) Rotor Speed + (Screw Speed)
DAK(E)-50	50	100	30 + (7.5)	5	140	40/32 + (0~50)
DAK(E)-100	100	200	40 + (10)	7.5	140	40/32 + (0~50)
DAK(E)-150	150	300	50 + (15)	10	140	40/32 + (0~50)
DAK(E)-200	200	350	60 + (20)	10	140	40/32 + (0~50)
DAK(E)-300	300	500	75 + (30)	10	140	40/32 + (0~50)
DAK(E)-400	400	700	100 + (40)	10	140	40/32 + (0~50)
DAK(E)-500	500	850	125 + (50)	10	140	40/32 + (0~50)
DAK(E)-600	600	1000	150 + (60)	10	140	40/32 + (0~50)
DAK(E)-1000	1000	2000	200 + (75)	15	140	40/32 + (0~50)
DAK(E)-2000	2000	4000	300 + (100)	20	140	40/32 + (0~50)
DAK(E)-3000	3000	6000	400 + (150)	30	140	40/32 + (0~50)
DAK(E)-4000	4000	8000	500 + (200)	40	140	40/32 + (0~50)

攪拌軸葉片型式 Mixing Rotor Type



萬馬力轉軸
Banbury-Type



Sigma轉軸
Sigma-Type



Z轉軸
Z-Type



螺旋桿式排料
Discharge by Screw

雙滾輪混合出片機

TWO ROLL MIXING MILL (OPEN MILL)

此機器用於橡膠、塑膠、PVC或EVA之加熱、混練和添加化學藥品或硫磺再次確保原料均勻性以及可以代替壓延機生產非精密型之出片作業。

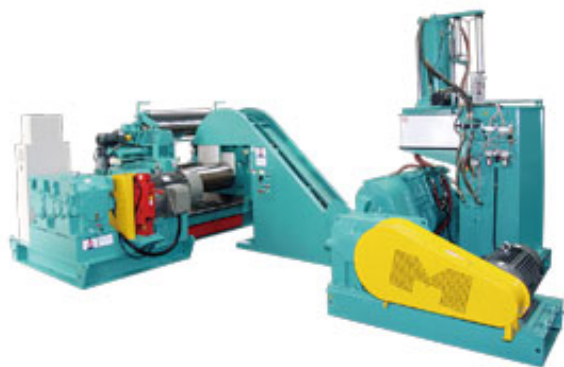
The two roll mixing mill for rubber, plastic, PVC, EVA to heating, mixing and chemicals or sulfur material uniformity it can be as instead of the calender to produce un-exact rough sheet process.



新型省力機構設計

New Design Labor-Save Device

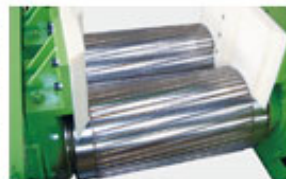
- ◆ 膠料輸送機
Skip Conveyor
- ◆ 自動翻料機
Stock Blender
- ◆ 緊急停止裝置
Emergent Stop Device
- ◆ 氣壓式切刀
Trimming Cutter by Air Control
- ◆ 油壓式檔板
Stock Guide by Hydraulic Drive
- ◆ 馬達式或油壓式輪距調整
Rolls Gap by Motor or Hydraulic Drive
- ◆ 採用人機介面觸控螢幕監控
Tough Screen by HMI System



滾輪型式 & 滾輪材質：FCMW34冷硬鑄鐵

Rolls Type & Rolls Material : FCMW34 Chilled Cast Iron

- ◆ 中空輪式
Hollow Roll Type
- ◆ 鑽孔輪式
Drilled Roll Type
- ◆ 溝槽輪式
Cracking Roll Type



機器傳動配置型式 Machine Configure Drive Type

- 1 雙馬達各別傳動型
Twin Motor Single Drive Type
- 2 不佔空間傳動型
Compact Drive Type
- 3 萬向接頭傳動型
Universal Coupling Drive Type
- 4 L型直結式傳動型
L Straight Drive Type
- 5 標準直結式傳動型
Standard Straight Drive Type



型號 Model	滾輪英制尺寸 (inch) Size of Rolls (Ø×L)	滾輪公制尺寸 (mm) Size of Rolls (Ø×L)	混練量 (kg) Mixing Capacity	主馬達 (hp) Motor Power	轉速 (r.p.m) Rotor Speed	輪距 (mm) Rolls Gap
MXR-10	10 × 26	250 × 660	5~10	15~20	12~22	0.2~12
MXR-12	12 × 30	305 × 760	10~15	20~30	12~22	0.2~12
MXR-14	14 × 36	355 × 915	15~25	30~40	12~22	0.2~12
MXR-16	16 × 42	405 × 1070	25~40	50~60	12~22	0.2~12
MXR-18	18 × 48	460 × 1220	40~55	75~100	12~22	0.2~12
MXR-20	20 × 54	510 × 1370	55~70	100~125	12~22	0.2~12
MXR-22	22 × 60	560 × 1525	70~90	150~175	12~22	0.2~12
MXR-24	24 × 72	610 × 1830	90~150	200~250	12~22	0.3~15
MXR-26	26 × 84	660 × 2130	150~220	250~300	12~22	0.3~15
MXR-28	28 × 90	710 × 2290	220~280	300~400	12~22	0.3~15
MXR-30	30 × 110	760 × 2800	280~350	400~500	12~22	0.3~15
MXR-32	32 × 130	810 × 3300	350~450	600~800	12~22	0.3~15

錐形雙螺桿擠壓出片機

TWIN TAPER SCREWS WITH TWO ROLLS SHEET MACHINE (Rubber Sheet Performing Machine)

邁向工業自動化4.0

Stride Forward Industry Automation 4.0

本機用於捏合機、萬馬力機的下輔配套設備，混練後所排出的膠料可直接投入，經過雙螺桿擠出後自動壓成膠片，且能連續化的作業，其「自動化連續式出片」製程設計，可取代滾輪機出片「一人一機」傳統式製程，無須人員操作，提升機器在自動化生產上的安全性及便利性，提高產業附加價值，是自動化生產的最佳設備。

This machine for kneader, banbury auxiliary equipment, the compound mixing discharge feed into twin taper screw to automatic extrusion sheet, also can continuity produce, the 「Automation Continuity Sheet」 process design, can to replace mill 「One People - One Machine」 conventional process, not need worker operation, increase machine automation production security and convenient, increase property added value, it is the best automation produce equipment.



機器特點 Machine Features

- ◆ 具自動化生產能力 Automatic Production Capability
- ◆ 減少作業人員 Reduce Worker
- ◆ 提高生產效能 Increase Output
- ◆ 易清潔不殘留餘料 Easy Clean and Without Waste
- ◆ 氣壓式自動修邊刀 Trimming Cutter by Air Control
- ◆ 最平整的厚薄出片 The Smooth Sheet Thickness
- ◆ 最完善的製程設計 The Best Process Design



現場自動化連續式出片生產線實景
Locale View for Automation Continuity Sheet Production Line



型號 Model	SPM-350	SPM-750	SPM-1500	SPM-2000	SPM-3000	SPM-4000
適用捏合機系列 For KNEADER-Series	MX-20 MX-35	MX-55 MX-75	MX-110 MX-150	MX-200	MX-300	MX-400
適用萬馬力機系列 For BANBURY-Series	NHBM-20 NHBM-35	NHBM-50 NHBM-75	NHBM-100 NHBM-120	NHBM-160 NHBM-200	NHBM-270	NHBM-370
押出量 Output (l/hr)	350	750	1500	2000	3000	4000
滾輪公制尺寸 (ØxL) Size Of Rolls (mm)	250 × 500	400 × 700	460 × 900	560 × 1100	610 × 1300	660 × 1500
出片寬度 (max) Width Of Sheet (mm)	300	500	600	800	1000	1200
輪距 Rolls Gap (mm)	0.2~12	0.2~12	0.2~12	0.5~15	0.5~15	1~20
輪距調整馬達 (hp) Rolls Motor Power	1/2	1	2	3	5	10
雙滾輪馬達 (hp) Two Rolls Motor Power	10~20	30~40	50~60	75~100	125~150	175~200
雙滾輪轉速 (r.p.m) Two Rolls Speed (max)	20	20	20	30	30	30
錐形雙螺桿馬達 (hp) Twin Taper Screw Motor Power	20~30	40~50	60~75	100~125	150~175	200~250
錐形雙螺桿轉速 (r.p.m) Twin Taper Screw Speed (max)	25	25	25	35	35	35
輸送機馬達 (hp) Conveyor Motor Power	1/2	1/2	1/2	1	2	3

膠料輸送機 Skip Conveyor



膠料輸送機可配合各式自動化生產線來搭配設計，連接機台和機台之間輸送及載運作業。

Skip conveyor for various automation production line to design match, between machine to carry compound process.

型號 Model	SC(Z)-35	SC(Z)-55	SC(Z)-75	SC(Z)-110	SC(Z)-150	SC(Z)-200
適用捏合機系列 For KNEADER-Series	MX-35	MX-55	MX-75	MX-110	MX-150	MX-200
馬達 Motor Power (hp)	3	3	5	5	7.5	10

膠料冷卻機 (吊桿式 & 平網式 & 吊桿移動式台車)

BATCH OFF MACHINE

(HANGER TYPE & NET TYPE & HANGER CARRIAGE TYPE)



本機用於出片機後段的膠片冷卻設備，輸送方式分為「吊桿式」、「平網式」、「吊桿移動式台車」三種，冷卻方式有「水冷式」、「風冷式」、「氣冷式」三種，而設備段還區分為「進料區」、「儲料區」、「出料區」三個區域，膠片經過進料區的粉水槽先行防黏水浸泡後，再進入儲料區將膠片吊掛或平放，晾乾和冷卻後，最後再由出料區自動切片、分條或堆疊收集，且能連續化作業，讓設備在自動化製程上提供最大的產能效益。

This machine for rolls to sheet cooling equipment, we have 「Hanger Type」, 「Net Type」, 「Hanger Carriage Type」 three kind, the cooling type have 「Water Cooling」, 「Fan Cooling」, 「Air Cooling」 three style, the machine have three area 「Sheet Inlet Section」, 「Sheet Storage Section」, 「Sheet Output Section」 the sheet first into inlet section powder water tank to soak, then into sheet storage section to hang or place dry and cooling, then into sheet output section automatic cut strip or pile up to collect, and continuity produce supply equipment the best automation produce effect.

功能選配 Function Optional

- ◆ 印字輪機構 Mark Print Device
- ◆ 金屬探測器 Metal Detector
- ◆ 自動裁片或分條裝置 Auto Cutter Cut or Strip Device
- ◆ 自動搖擺堆疊裝置 Auto Swing Pile Up Device



印字輪機構
Mark Print Device



金屬探測器
Metal Detector

型號 Model	BOHC-50	BOH-100	BOH-200	BOH-270	BOH-370
適用捏合機系列 For KNEADER-Series	For All MX-Series	MX-75/110	MX-150/200	MX-300	MX-400
適用萬馬力機系列 For BANBURY-Series	For All NHBM-Series	NHBM-75/100/120	NHBM-160/200	NHBM-270	NHBM-370
膠片懸吊長度 Sheet Hang Length (mm)	500~1000	800~1800	800~1800	800~1800	800~1800
膠片厚度 Thickness of Sheet (mm)	5~12	5~12	5~12	5~12	5~12
膠片寬度 Width of Sheet (mm)	50~300	500~1000	500~1000	500~1000	500~1000
冷卻風扇 Cooling Fan (hp x pcs)	1/2 x 2	1/2 x 12	1/2 x 24	1/2 x 36	1/2 x 40
冷卻後溫度 Cooling Temp (°c) Ambient Temp (For Reference)	+5~15	+5~15	+5~15	+5~15	+5~15



型號 Model	BON-35	BON-75	BON-100	BON-200
適用捏合機系列 For KNEADER-Series	MX-20/35	MX-55/75	MX-110	MX-150/200
適用萬馬力機系列 For BANBURY-Series	NHBM-20/35	NHBM-50/75	NHBM-100/120	NHBM-160/200
膠片冷卻層數 × 長度 Sheet Cooling Layer × Length (mm)	3 × 6000	5 × 6000	7 × 8000	7 × 10000
膠片厚度 Thickness Of Sheet (mm)	5~12	5~12	5~12	5~12
膠片寬度 Width Of Sheet (mm)	300~500	400~600	500~700	600~800
冷卻風扇 Cooling Fan (hp × pcs)	1/2 × 6	1/2 × 12	1/2 × 24	1/2 × 36
冷卻後溫度 Cooling Temp (°c) Ambient Temp (For Reference)	+5~15	+5~15	+5~15	+5~15

自動裁刀切片 / 分條機

Auto Cutter Cutting / Slitting Machine

本機適用於橡膠、塑膠、皮革、帆布、尼龍、泡棉、包裝紙類等等之精密切片或分條功能。

The machine is suitable for cutting material such as rubber, plastic, leather, canvas, nylon, foaming products, paper boards exact cutting or slitting sheet function.

- ◆ 油壓式微電腦控制系統型
Microcomputer with Hydraulic Type
- ◆ 機械式曲軸型
Mechanical Crank Type



型號 Model	裁刀寬度 (mm) Width of Cutter	裁片寬度 (mm) Width of Cut	裁片厚度 (mm) Thickness of Cut	裁片長度 (mm) Length of Cut	裁片產能 (cut/min) Output of Cut
SC-700 / (900)	740 / (960)	10 (1)~700 (900)	1~15	100~9000	20~40 (60)



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NHIE HO MACHINERY
NHIE HO MACHINERY FACTORY CO., LTD.

捏合機械廠股份有限公司

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