



JCM

键 | 财 | 机 | 械

**ZHEJIANG JIANCAI
MACHINERY CO., LTD.**



AUTOMATIC THREAD ROLLING MACHINE



📍 公司據點

<https://www.jiancai.com.tw/>

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*Customer excellence &
Customer excellence*

「客戶至上」及「不斷創新」



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COMPANY INTRODUCTION



键财机械是由陈建财先生於1973年創立於台北，是台灣較早研製和生產軋牙機及相關設備的公司，也是台灣較早擁有軋牙機獨立研發團隊的公司之一。公司設備可制螺紋外徑從1mm至38mm，甚至可制螺紋長度達600mm，在該領域擁有自己獨到的技術與經驗。產品遠銷大陸及日本、歐美等世界多地。自創立至今，键财品牌已深入人心。

為更好的服務大陸客戶，键财机械於2001年至上海設立键财机械(上海)有限公司。憑著選用優質的材料，獨特的專業技術，一個以上海為中心的銷售網路遍布全國多地。键财在滿足客戶需求，為客戶創造價值的同時，帶動了大陸緊固件行業的健康發展。

為進一步深耕與服務緊固件產業，讓键财穩健地走在緊固件行業前沿，並放遠更廣闊的未來，键财机械於2017年擴大規模，在浙江嘉善另闢30畝地，成立浙江键财机械有限公司。我司已通過ISO9001、ISO14001、ISO45001體系認證。通過整合兩岸研發，採用先進的PLM系統做到多廠聯合研發設備，更新物料ERP系統讓多廠物料適時調度生產，建立起一個研發、生產、銷售、服務網絡化的現代化服務體系。

優質的服務，多樣的解決方案已成為键财机械每一位員工的使命。客戶滿意是公司的服務宗旨。键财的目標就是力爭成為螺絲行業的優質設備供應商。

COMPANY INTRODUCTION

Chien Tsai Machinery was founded in Taipei, 1973 by Mr. Chen Chien Tsai. It is the earliest company to develop and produce thread rolling machine and related equipment in Taiwan. Chien Tsai is also one of the earliest companies to invest in independent research and development for thread rolling machines in Taiwan. Chien Tsai Machinery is able to thread screws of diameter 1.0mm to 38.0mm, with a thread length up to 600mm, utilizing vast extensive knowledge and specialized technology within the field of roller threading. Products are exported globally around the world, but not limited to, the mainland China, Japan, Europe and Americas. Ever since Jiancai's establishment, the brand has been deeply rooted within the heart of the fastener and screw industry.

In order to better serve the mainland customers, Chien Tsai Machinery set up Jiancai Machinery (Shanghai) Co., Ltd. in Shanghai, 2001. With the utilization of high-quality materials, unique and proprietary technologies, and a robust sales network in Shanghai meeting customer needs while providing consistent quality service throughout the country. Additionally, driving the development of the fastener industry in mainland China.

In order to further deepen and better serve the fastener industry, Chien Tsai Machinery is constantly at the forefront of the fastener industry, and with ever growing vision, Chien Tsai Machinery expanded its scale in 2017, acquiring another 30 acres of land in Jiashan, Zhejiang, establishing Zhejiang Jiancai Machinery Co., LTD. Our company has passed the ISO9001, ISO14001, ISO45001 certification. Through the integration of PLM, Chien Tsai Machinery is able to achieve cross-strait research and development. Implementation of a modernized ERP system enables timely production schedules, sales and customer service. "Customer Excellence" and "Continual Innovation" has become the mission and philosophy of Chien Tsai Machinery to develop a trust-oriented relations with all our partners and customers.



高雄總廠 鍵財機械企業股份有限公司

Kaohsiung Headquarter
CHIEN TSAI MACHINERY ENTERPRISE CO., LTD.



生產範圍

螺絲搓牙機、打頭機、割溝機、
割尾機系列產品
搓牙尺寸：外徑1~38mm
長度：1~600mm



生產規模

高雄廠
浙江廠
員工總數：240人
最大月產能：250台
最大年產能：2300台



服務據點

台北	聖保羅
高雄	孟買
浙江	伊斯坦布爾
上海	莫斯科

Production range

Automatic thread rolling machine, auto-
matic heading machine, slotting machine,
and screw point cutting machine.
The external diameter of thread rolling
machines varies from 1mm to 38mm with
length up to 600mm.

Production Scale

KAOSIUNG HEADQUARTER ZHEJIANG FACTORY

Staff number is reached to 240.
The maximum capacity of month :
250 sets/month
The maximum capacity of year :
2,300 sets/year

Service Locations

Taipei	SAO PAULO
Kaohsiung	MUMBAI
Zhejiang	ISTANBUL
Shanghai	MOSCOW

FEATURES

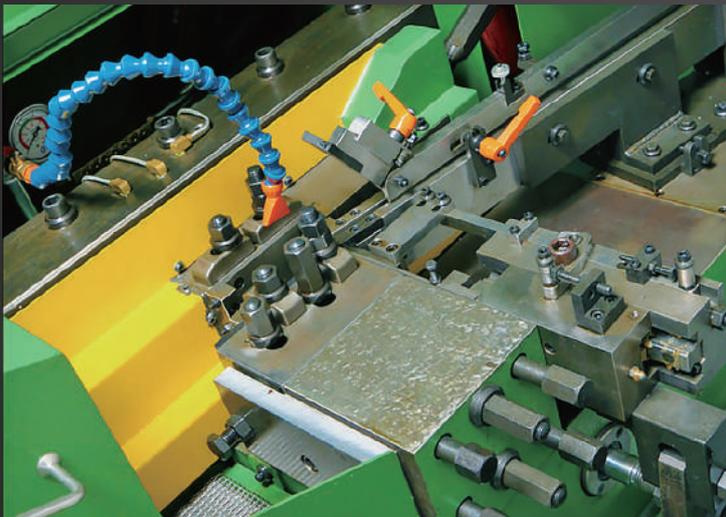


斜送料方式(CTR)

素材進料與中仁成30°

Feeding System (Series CTR)

Feeding with 30° angle with main slider



直接送料方式(CR&ZR)

素材進料與中仁成90°

Feeding System (Series CR & ZR)

Feeding with 90° angle with main slider



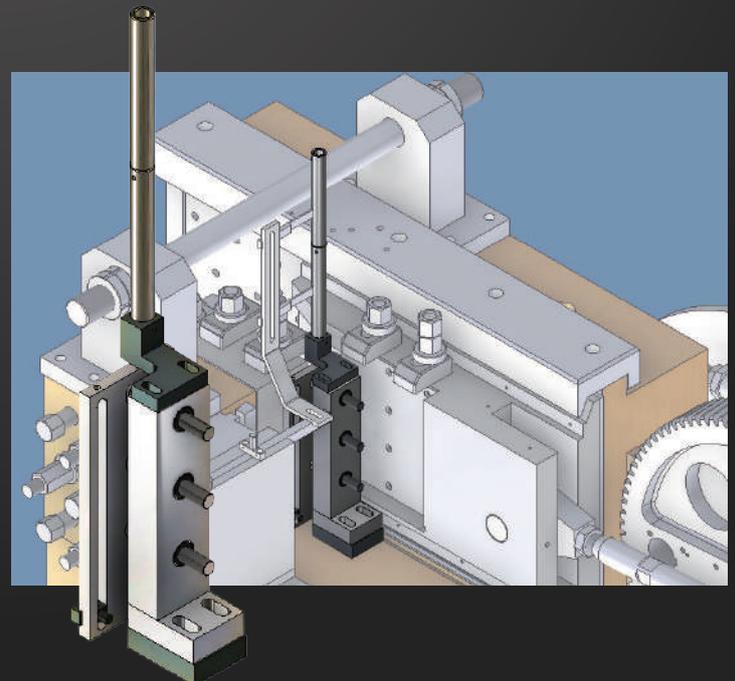
無頭螺絲送料機構

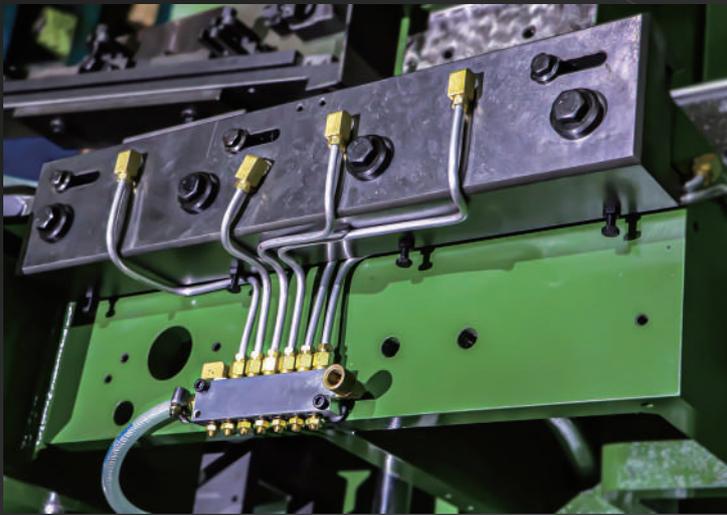
透過無頭螺絲送料機構，可以解決生產無頭螺絲的瓶頸，提高機械的附加價值。

Headless Screw Feeding System

Headless Screw Feeding System solves problems in headless screw bottleneck with advanced value in machinery.

— VIDEO ONLINE —



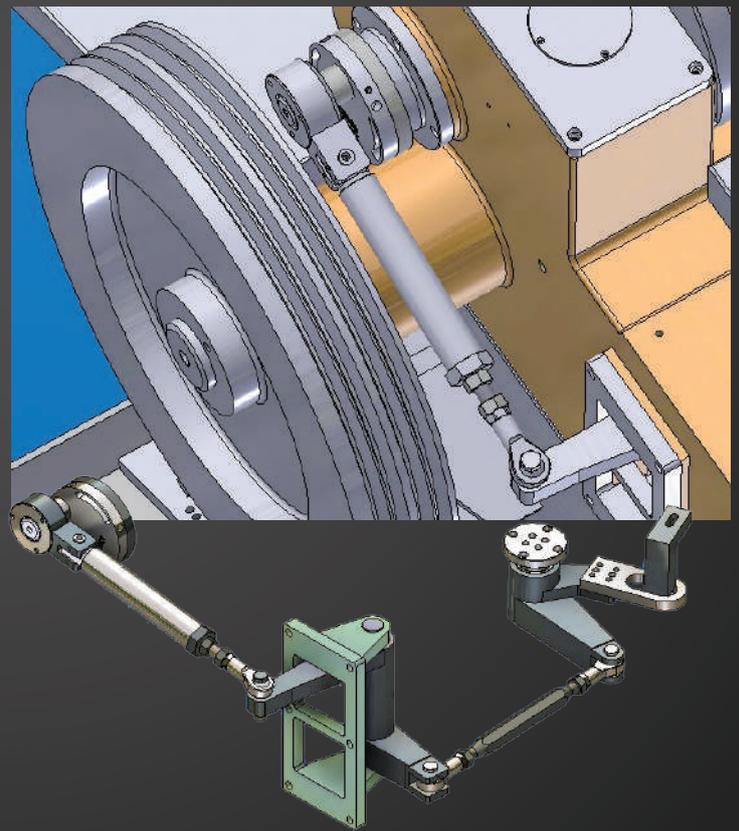
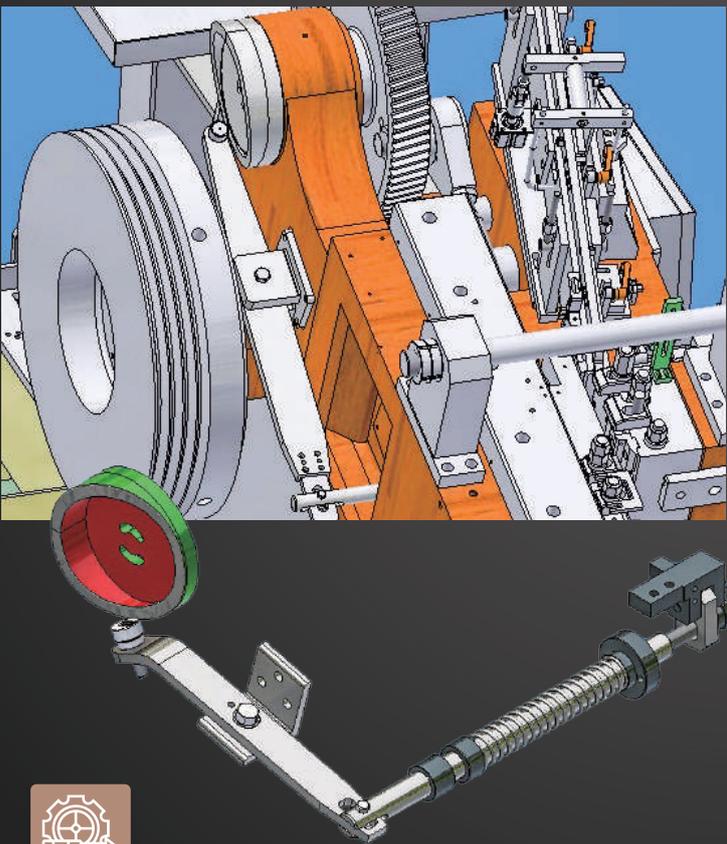


強制給油

取代舊有的油鐘給油潤滑，可避免因人為疏失造成主滑台毀損，透過精密的過濾系統，潤滑油可有效地循環再利用，除可降低生產成本，更可提高機械的使用年限。

Pressurized Central Lubrication

It replaces traditional acrylic oiler which can damage the main slider. This precision filter system not only lowers direct cost in production but also extend the life of oil by recycling. Coolant and lubricant oil do not mix.

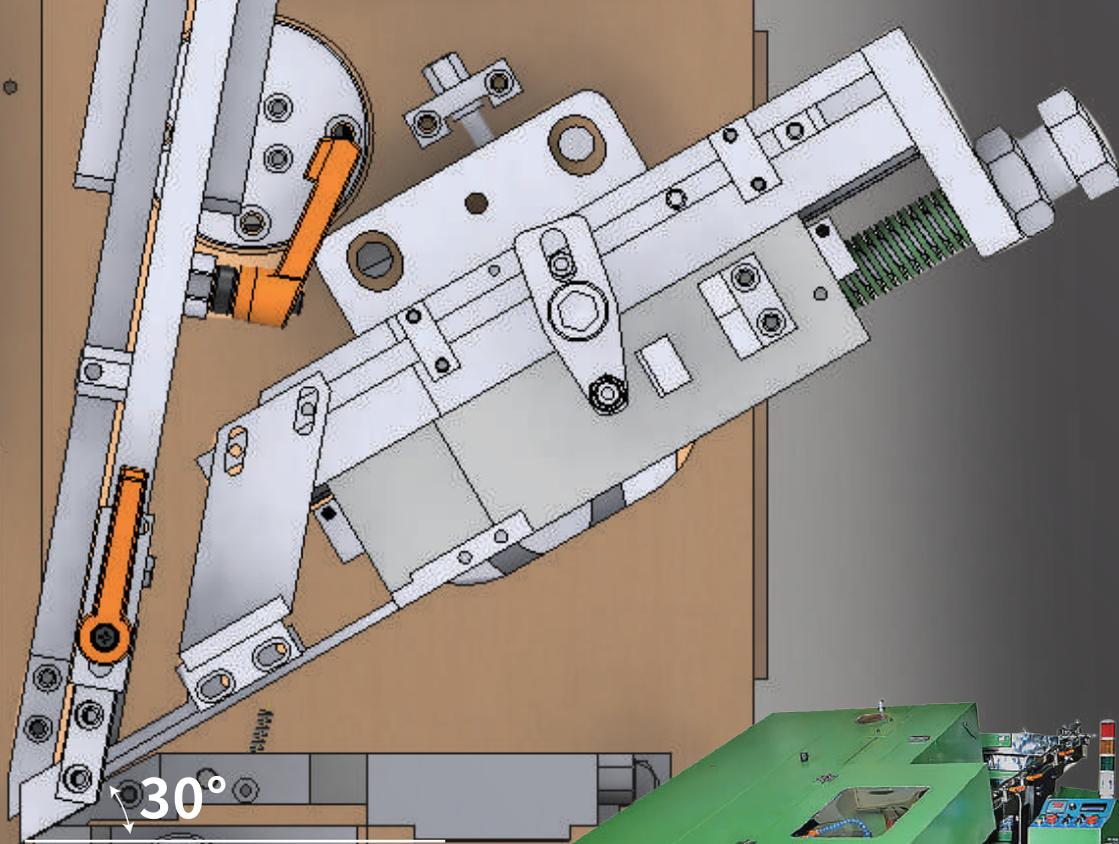


凸輪送料機構：送料可停頓，時間調整要求不高，適合中低速生產。

Cam Feeding： Be suitable for medium and low speed production with less precise timing adjustment and pause feeding.

偏心送料機構：送料無停頓，調整時間需精準，適合中高速生產。

Eccentric Disc Feeding： Be suitable for medium and high speed production with precise timing adjustment as no pause feeding.



高速自動軋牙機

CTR系列

30°送料

High Speed Automatic Thread Rolling



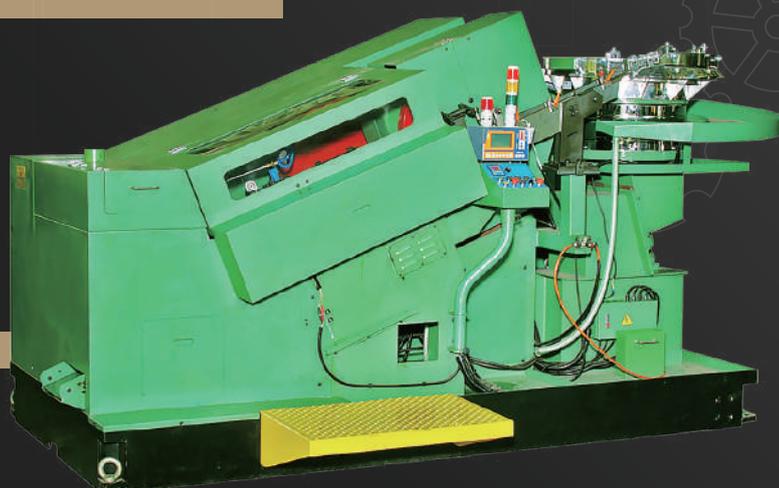
CTR8N

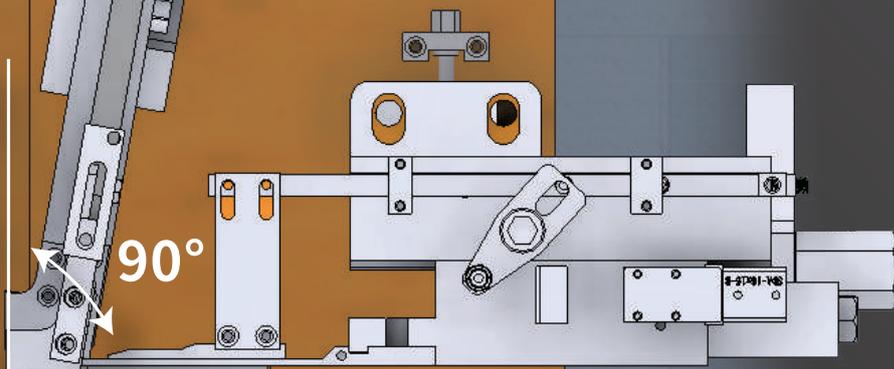
Machine -30° Feeding



CTR6N

CTR19N





自動 輾 牙 機
CR系列
90°送料



CR10N

Automatic Thread Rolling Machine 90° Feeding



CR08N

CR12N



自動 輾 牙 機

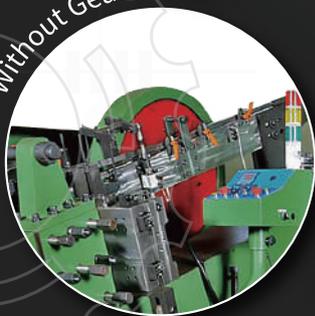
ZR 系列 90°送料

Automatic Thread Rolling Machine 90° Feeding

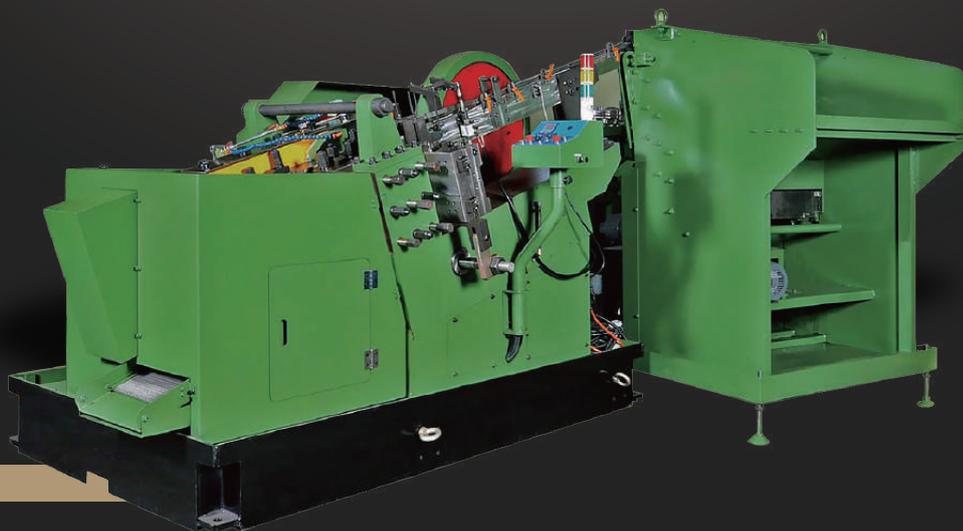


ZR30N

Without Gear Box



ZR60N



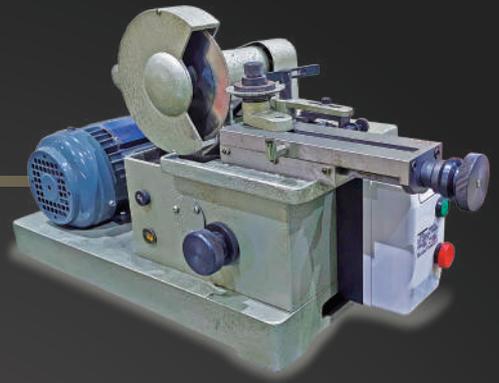
ZR90N





研磨機

MINI PUNCH GRINDING
MACHINE

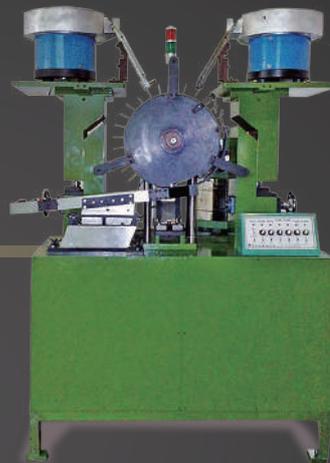


銑刀研磨機

SLOTING CUTTER GRINDING MACHINE

華司組立機

SCREW WASHER ASSEMBLING MACHINE



雙刀割溝機

SLOTTING MACHINE



割尾機

SCREW POINT CUTTING MACHINE



OPTION | 設備配件



氣壓式離合器 Air Clutch

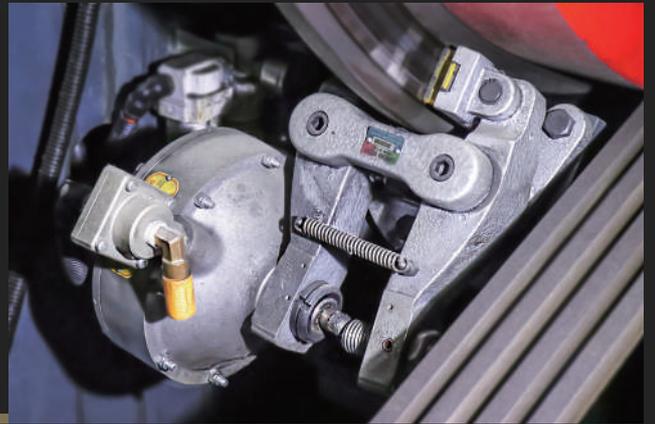
發生異常時，可以瞬間脫離動力源，並做剎車動作

To rapidly detach from the power resource and conduct braking action whenever the machine is stopped.

氣動式剎車 Air-brake

狀況發生時，可緊急停止

To immediately stop machine movement when the anomaly is taking place.



間歇式自動給油 Centralized Lubrication System

定量給油，容積式分配器，使每個出油孔流量均為相同
To regularly deliver lubricant oil through volumetric distributor in order to ensure the oil flow of each oil outlet remains the same.



製程監控系統
Process Monitoring System

判斷螺絲異常，有多段計數功能，如生產數量、牙版總數量、異常總數量

To help the equipment end user to analysis the anormal from the production and meanwhile possess multi-segment counting function such as total productivity, total quantity of consuming thread rolling dies, and complete information relating to anormal quantity.

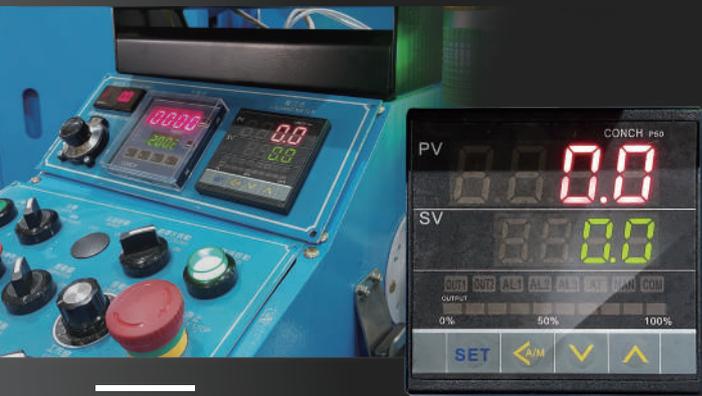


不良檢出
Auto Check With Counter

可計數，並記錄不良率
Counting quantities and recording defective rate.

電眼式計數器 (需搭配人機介面及 PLC)
Sensor Counter (required HMI and PLC)

透過機構調整電眼距離可精準計數，配合人機及 PLC 呈現可視化及聯網功能
To count piece precisely by adjusting sensor position in mechanism design. Showing data visualization and web connection function with HMI and PLC control.



電流過載檢知表
Overcurrent Detection

預防電流過載而導致馬達燒毀，配合停料裝置
Prevent the motor burned from .



氣壓閥防撞裝置
Anti-collision Device

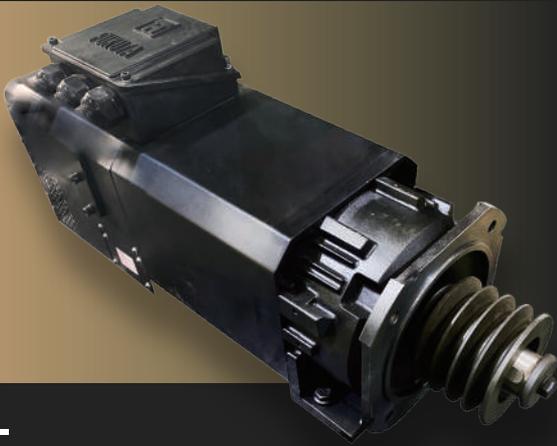
預防撞車時連續送料
To immediately interrupt the part feed when feeding system accidentally gets crashed.



人機介面 HMI

隨著PLC及人機介面之整合，相關人員甚或主管可隨時從人機介面上瀏覽相關生產數據，亦可透過故障訊息之顯示進而節省故障排除之時間

With the integration of PLC and HMI system, the production information could be easily reviewed by the relevant personnel or managers,



伺服馬達 Servo Motor

省電、扭力固定、進而優化主要機件壽命
Power-Saving and Stable torque to enhance the durability of the crucial units.

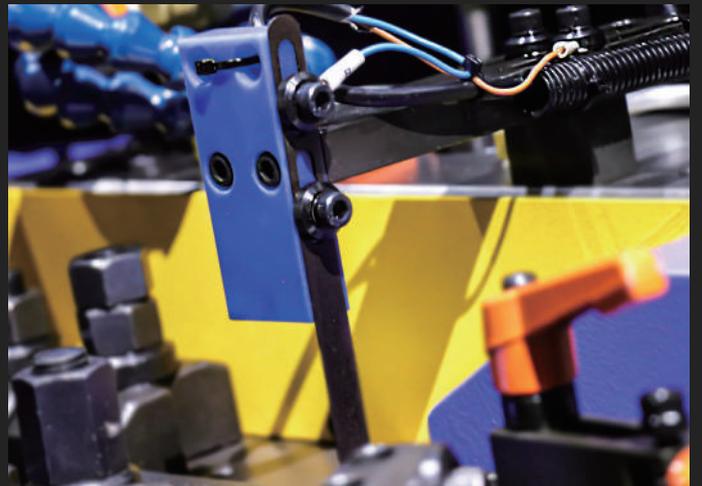


變頻器 Inverter

保護馬達，調整速度
Protect the motor and adjust the speed.



浮頭偵測 (彈片式、探針式) Contactor



接觸偵測 Contact detection

鍵財輾牙機 - 機聯網系統 Machine Connection System



將工廠內各種自動化設備、電力等基礎架構、管理系統以網絡串連起來，透過系統整合各種數據，經由軟體分析、統計後，顯示工廠的即時生產狀態，達到工廠內部種種活動資訊的可視化。

A computerized system in manufacturing to track and document various data as real-time monitoring system to enable the control of multiple elements of the production process.

軟體分析 Software analysis

- 製成總覽 Production overview
- 機台信息 Quipment info
- 機台類別 Equipment category
- 樓層監控 Floor monitoring
- 數據分析 Data analysis



辦公室及現場電腦，使用網路瀏覽器管理生產資訊
Manage production elements in office PC and workshop PC by internet.



◀數據分析：
異常分析畫面
Data analysis:
Error analysis page

現場人機介面(HMI)作為閘道

智慧型手機\平板
使用網路瀏覽器管理生產資訊

Smart phone/Pad to manage production by internet.



OPTION | 入料周邊配件



圓斗 Feeding Drum



震動盤 Vibrator



層斗 Layer Hopper

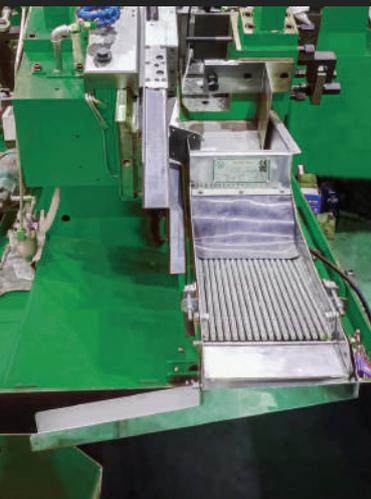


提升機 Elevator Conveyor



儲料斗 Storage Hopper

OPTION | 下料周邊配件



雙滾輪
Double Roller Chip Separator

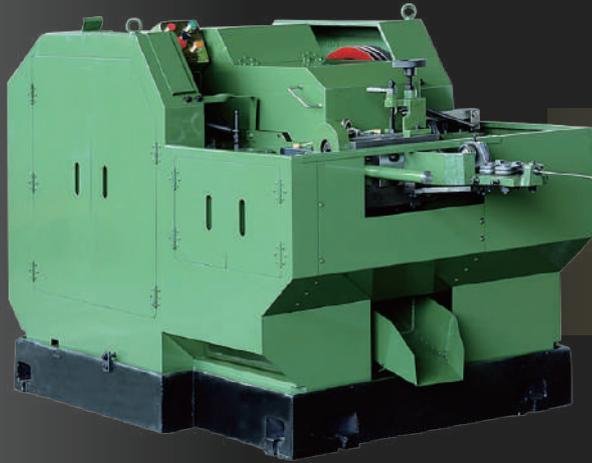


平送式鐵屑分離機
Iron Scrap Separator

輸送機
Conveyor

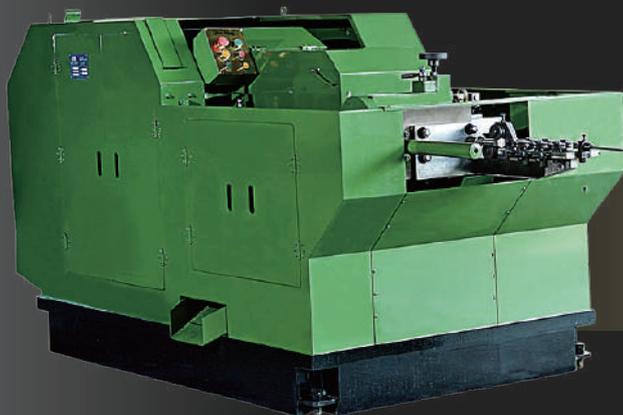
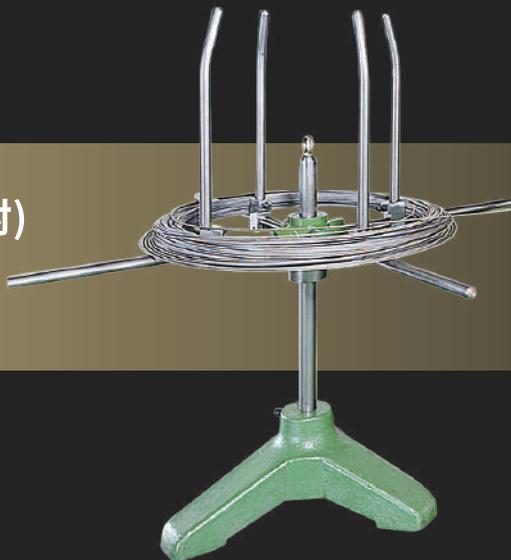


打頭機系列 HEADING MACHINE



15系列
Series of 15

15系列(全密封)
Series of 15
Full Cover



20系列(半密封)
Series of 20
Semi-Cover

設備規格 Machine Specification

序號 ITEM	機型 MODE	 外徑 DIAMETER	 長度(mm) SCREW LENGTH	 牙長(mm) THREAD LENGTH	 牙板 MOVING DIES STATIONARY LENGTH	 馬力(HP) MAIN MOTOR	 產量(PCS/MIN.) MAX. OUTPUT	 重量(KG) APPROX. WT.	 機台尺寸(mm) MACHINE SIZE
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CTR 30° feeding 《可更改5°牙板》

1	CTR2	1-3	25	20	51/64/20	1	230-280	989	1150x1000x1680
2	CTR4	2-4	38	32	65/75/20	2	230-280	1335	1560x1180x1790
3	CTR5N	3-5	38	38	76/89/25	3	220-240	1384	1900x1200x1400
4	CTR6N	4-6	50/75	50	90/105/25	5	200-230	1925	2200x1400x1700
5	CTR8N	5-8	75/100	50	108/127/25+127/140/25	7.5	180-200	2470	2400x1400x1800
6	CTR9N	6-9	100	50	127/140/25	15	140-185	4335	2700x1600x1800
7	CTR10N	6-10	100/150	65	150/165/25	20	130-140	4740	3100x1700x2000
8	CTR12N	8-12	100/150	75	190/215/35	30	100-120	5935	3800x1700x2200
9	CTR16N	10-16	150	80	230/265/38	40-4P/6P	75-110	8710	3700x2000x2600
10	CTR20N	14-20	150	80	290/330/50	50-4P/6P	65-70	13240	4200x2000x3400
11	CTR25N	16-24	200/300	150	380/420/50	60-4P/6P	35-45	23500	4900x2400x2600

CR 90° feeding

1	CR02	1-3	25	20	51/64/20	1	230-280	930	1300x1000x1650
2	CR05	3-5	38	38	76/89/25	3	220-280	1219	1900x1200x1400
3	CR05H	2-5	50	50	76/89/25	3	190-280	1380	1550x1400x1800
4	CR06	4-6	50/75	50	90/105/25	5	200-230	1800	2100x1200x1600
5	CR08N	5-8	75/100/150/200	75	108/127/25+127/140/25	7.5	110-180	2510	2400x1400x1800
6	CR10N	6-10	100/150/200/300	100	150/165/25	15	70-90	4680	3000x1800x2000
7	CR12N	8-12	100/150/200/300	100	190/215/35	20-4P/6P	60-80	7370	3400x2100x2300
8	CR16N	12-16	150/200/300	150	230/265/38	30-4P/6P	40-60	9800	3800x2200x2300
9	CR20N	14-20	200/300	150	290/330/50	40-4P/6P	40-45	12605	4000x2200x2300
10	CR25N	16-24	200/300	150	380/420/50	60-4P/6P	35-45	19060	4900x2400x2600
11	CR816	10-16	76	10	250/270/38	7.5	60-80	4565	3500x1400x2400
12	CR824	16-24	100	50	380/420/50	10	56-60	6880	4600x1600x2700

ZR 90° feeding (GEAR OUTSIDE)

1	ZR15L	2.5-5	50/75	75	90/105/25	3	100-120	1650	1750x1600x1850
2	CR06N	3-5	50/75	50	90/105/25	5	220-240	1888	1900x1530x2050
3	ZR15H	3-5	50/75	75	90/105/25	5	130-165	1850	1900x1530x2050
4	ZR20H	5-8	75/100/150	100	108/127/25+127/140/25	7.5	130-165	2230	2000x1600x1700
5	ZR25N	6-9	100/150/200	100	127/140/25	7.5	100-130	3300	2800x1600x1700
6	ZR30N	6-10	100/150/200/300	100	150/165/25	15	85-120	3835	2900x1600x1800
7	ZR40N	8-12	100/150/200/300	100	190/215/35	20	65-85	6660	3000x1700x2100
8	ZR60N	10-16	150/200/300	100	230/265/38	30	45-60	7560	3400x1700x2100
9	ZR70N	14-20	200/300	150	290/330/50	40-4P/6P	35-45	15930	4000x2200x2400
10	ZR80N	16-24	200/300	150	380/420/50	60-4P/6P	35-45	19845	4900x2400x2700
11	ZR90N	20-30	250/300	150	450/500/60	75-4P/6P	20-30	27955	5200x2400x3000
12	ZR98N	24-38	250/300	150	550/600/60	100-4P/6P	20-30	45000	7000x2800x3200

註：以上表格參數為6.8級及以下標準碳鋼機械牙為基準計算所得，故需生產其他材料、等級之產品，須與本公司業務進一步溝通確認。我司保留對該表格數據的最終解釋權。

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打頭機 HEADING MACHINE

序號 ITEM	機型 MODE									
		外徑 (mm) BLANK DIAMETER	長度 (mm) BLANK LENGTH	主模外徑 (mm) DIE DIA	切模外徑 (mm) CUT OFF DIE DIA	沖模外徑 (mm) PUNCH DIE	馬力 (HP) MAIN MOTOR	產量 (PCS/MIN.) MAX OUTPUT	重量 (KG) APPROX WT	機台尺寸 (mm) MACHINE SIZE
1	JM0528	0.8-2.6	28	20	13.5	18	1HP 4P	200-220	550	700x1500x1000
2	JM1030	3.5	30	30	15	24/20	2HP 4P	180-200	1100	1550x930x1070
3	JM1538	5	38	34.5	19	31	3HP 4P	180-200	1700	1890x1070x1110
4	JM1552	5	52	34.5	19	31	3HP 4P	130-160	1700	1890x1070x1110
5	JM1564	5	64	34.5	19	31	3HP 4P	130-160	1750	1890x1070x1110
6	JM1576	5	76	34.5	19	31	3HP 6P	100-120	1750	2100x1100x1120
7	JM2076	6	76	45	25	36	5HP 6P	100-120	2600	2550x1120x1180
8	JM20102	6	102	45	25	36	5HP 6P	65-90	3700	3158x1350x1290
9	JM20152	6	152	60	25	38	7.5HP 6P	45-65	4200	3750x1410x1470
10	JM25102	8	102	60	28	38	7.5HP 4P	65-90	4900	3590x1660x1520

割溝機 SLOTTING MACHINE

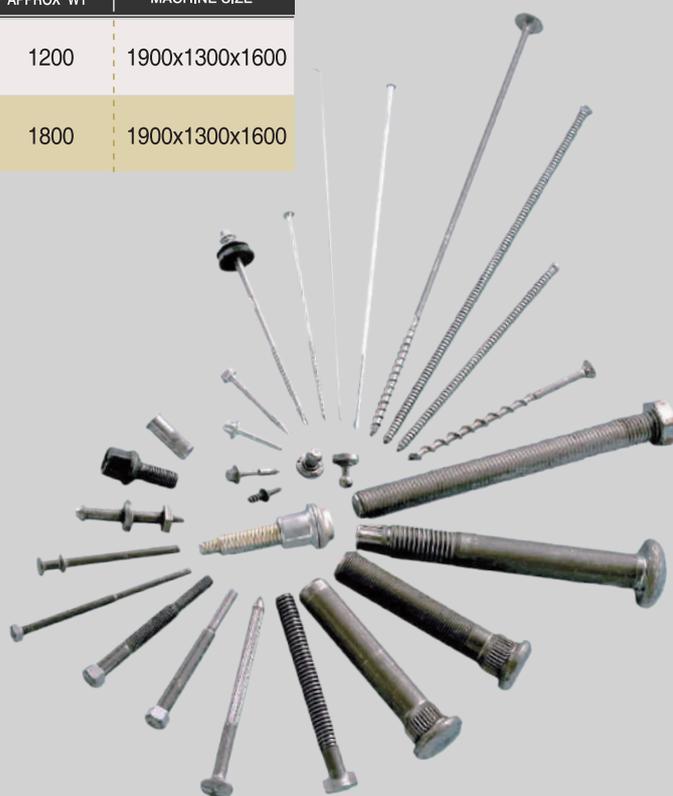
序號 ITEM	機型 MODE	規格 (mm) STANDARD	桿長 (mm) SCREW LENGTH	產量 (PCS/MIN.) MAX. OUTPUT	馬力 (HP) MAIN MOTOR	重量 (KG) APPROX WT	機台尺寸 (mm) MACHINE SIZE
1	SRD-5	1.6-6	5-45	20-80	轉盤 1HP-6P 銑刀 3HP-4P	1000	1610x980x1760

割尾機 SCREW POINT CUTTING MACHINE

序號 ITEM	機型 MODE	外徑 (mm) DIAMETER	長度 (mm) SCREW LENGTH	產量 (PCS/MIN.) MAX. OUTPUT	馬力 (HP) MAIN MOTOR	重量 (KG) APPROX WT	機台尺寸 (mm) MACHINE SIZE
1	NS06	3-6	15-100	100-420	轉盤 1HP-8P 銑刀 3HP-6P	1200	1900x1300x1600
2	NS10	4-10	150-400	60-150	轉盤 1HP-8P 銑刀 3HP-6P	1800	1900x1300x1600

華司組立機 SCREW WASHER ASSEMBLING MACHINE

序號 ITEM	機型 MODE	規格 (mm) STANDARD	產量 (PCS/MIN.) MAX. OUTPUT	馬力 (HP) MAIN MOTOR	重量 (KG) APPROX. WT.
1	MT-1202	2x15	10-300	1/4	360
2	MT-1203	3x20	10-300	1/4	360
3	MT-1204	4x50	10-300	1/4	1200
4	MT-1205	5x50	10-220	1/4	1200
5	MT-1206	6x50	10-220	1/4	1200
6	MT-1208	8x75	10-150	1/4	1500
7	MT-1210	10x75	10-150	1/4	1500



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