

Coil Processing Expert

www.slitterline.com

TOA DR ENTERPRISE



道德企業有限公司

TOA DR ENTERPRISE CO., LTD.

主要應用 MAJOR INDUSTRIES

為滿足客戶之需求，各種尺寸之分條機、分條刀、鋼套及周邊附件，皆完全自製，分條機裁切厚度能力達0.03 mm以上。舉凡銅、鐵、銅板、不鏽鋼等各種特殊材料皆能輕易迎刃而解，達到最高附加價值之產品，各種機型設備，特殊規格亦能接單製作。

- 不鏽鋼、冷熱軋板材、鋁、銅等捲片
- 金屬捲料加工廠
- 貴金屬、鈦、鎳等精密分條
- 電器業之矽鋼片分條

To meet customers' requirements, we supply various type of slitting machines, slitter knives, spacers, and slitting relative accessories. Above products are made by "TOA DR". Slitting machine's capacity is 0.03mm thickness up and can slit all kinds of metal, bi-metal coils and non-iron metal coils easily. In order to raise ratio of utilization, we can manufacture customized slitting lines (make-to-order.)

- Stainless steel, cold/hot rolled coils, aluminum, and copper alloy
- Metal coil processing plants
- Rare precious metal precision slitting, Titanium, Nickel alloy
- Silicon steel slitting in electrical industry



分條機 SLITTING MACHINE



Type	TDS-400/500/600
材料寬度 Material Width	Max 415/515/615 mm
材料厚度 Material Thickness	0.05 mm~1.5 mm
材料重量 Material Weight	Max 5,000 Kg
分條速度 Speed	customized
裁剪方式 Cutting Method	驅動切斷式 (前、後垂料坑 cut-drive with two loops)



道德公司所製造的精密分條機，可依照客戶需求來設計，如多樣化的收料軸、線速度、自動化程度；垂料坑的有無以及材料的厚度客製化生產等。

Our precision slitting lines are customized including a variety of mandrels, line speed, the degree of automation, loops or loopless type and thickness.

週邊設備及配件 SLITTING LINE PERIPHERAL PRODUCTS

分條刀 Slitter knives

分條刀採用多種質純材料，如工具鋼、高速鋼及鎢鋼；適用於冷、熱軋、不鏽鋼、鈦、鎳、鋁、矽鋼片...各種金屬、非鐵金屬及稀有金屬捲料之高速剪裁作業。分條刀品質嚴格控管，厚度公差為 ± 0.001 釐米 / ± 0.00004 英吋。

Slitter knives are manufactured from a wide range of fine materials including Tool Steel, High Speed Steel, and Tungsten Carbide. Suit to process coils of ferrous, non-ferrous and rare metals in high speed slitting, such as carbon steel, stainless steel, titanium, nickel, aluminum, and silicon steel coils. TOA DR is good at quality and precision controlling. Knives can be produced to guaranteed thickness tolerance of ± 0.001 mm / ± 0.00004 inches with precision ground surfaces.



鋼套 Slitter spacers

鋼套主要是使分條刀之間能保持一定的寬度，以及上下刀之間水平調整間隙用。採用S45C以上材質精密研磨製成並加以防鏽處理，厚度、硬度均可達到客戶要求，厚度公差可達 ± 0.001 釐米 / ± 0.00004 英吋。

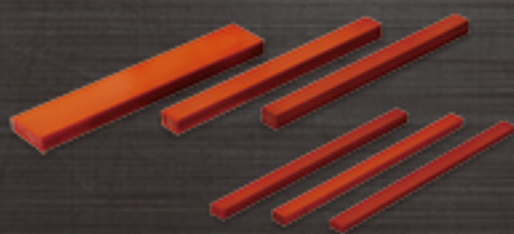
Slitter spacers are manufactured from carbon steel and alloy steel and are heat-treated to improve durability. Corrosion resistant spacers are available. Precision spacers can increase operating efficiency. The thickness tolerance of spacers are ± 0.001 mm / ± 0.00004 inches with ground surfaces.



電木條 Bakelite Finger

電木條置於分條刀之間，使材料能夠順暢的分條。

Bakelite finger is set between slitter knives and to make processing coils out of knife-edge smoothly.



油壓軸鎖 Hydraulic nuts

油壓軸鎖裝配在分條刀軸上，釋出均勻的壓力，提升排刀效率。

Hydraulic nuts are set onto slitter arbor with even pressure to maintain accurate clearances, and in order to increase efficiency.



分隔片 Separator discs

分隔片採用高碳鋼及合金鋼材料，研磨後外層鍍硬鉻，減少材料切面損傷。

Separator discs are manufactured from high carbon steel and alloy steel, and can be chrome plated after grinding to reduce friction between disc and slit edge.



膠圈及膠套 Stripper rings and Rubber spacers

膠圈採用PU材料加工製成，耐磨性及彈性皆佳。膠套為鋼套包覆著PU。其主要使被分條之材料能順利帶出刀口。可依客戶需求製作不同材質、尺寸及硬度。

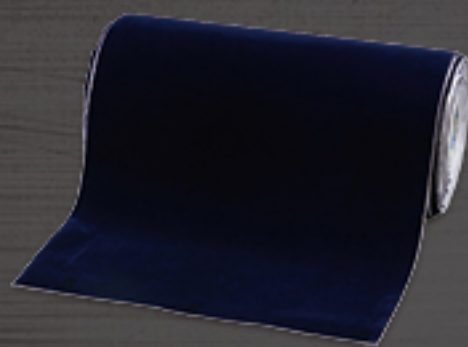
Stripper rings are produced from Polyurethane, wear resistant and highly flexible. Rubber spacers are made from steel bonded with Polyurethane. Make processing coils out of knife-edge smoothly. Materials, dimensions, and hardness are made-to-order.





研磨用刀軸 Arbor for resharpening

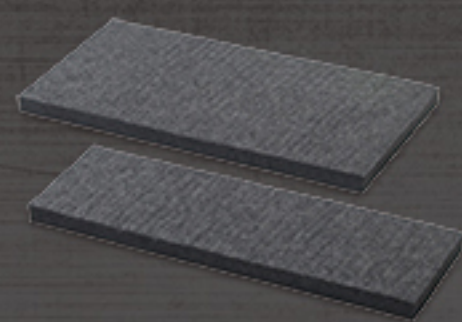
可以客戶需求製做。
Made-to-order



背膠絨布 Back-glued Velvet

背膠絨布可黏貼在電木條上，保護材料的表面。

Back-glued velvet is used to stick on bakelite finger to protect coils surface.



羊毛氈 Wool Felt

羊毛氈使用於壓台平台間，在提供張力的同時也保護材料表面。

Wool felt is set between tension pads to maintain tension and protect coils surface at the same time.



切紙管機

PAPER-CORE CUTTING MACHINE

- » 紙管管徑 PAPER-CORE DIA : Ø300 MM ~ Ø600 MM
- » 紙管管厚 PAPER-CORE THICKNESS : 10 MM ~ 25 MM
- » 紙管長度 PAPER-CORE LENGTH : 1,220 MM



打包機

AUTOMATIC P.E. WRAPPING MACHINE

型式 Model	寬度 Width	內徑 Internal Dia.	外徑 External Dia.
30	25~300 mm	Ø350 mm up	Ø500~1200 mm
40	30~400 mm	Ø400 mm up	Ø600~1400 mm
50	70~500 mm	Ø500 mm up	Ø650~1600 mm
60	250~600 mm	Ø500 mm up	Ø700~1800 mm



翻轉機

AUTOMATIC REVERSING MACHINE

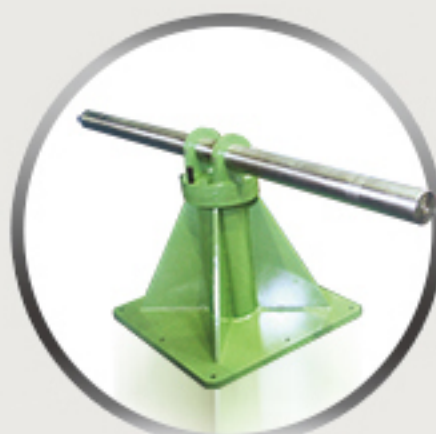
- » 翻轉機主要是將捲料翻轉90°
Automatic reversing machine mainly is used to turn coils in metal work industry.
- » 承載能力 LOADING WEIGHT : 5 TONS & 10 TONS



收/送紙機

PAPER SLEEVE MACHINE

- » 型式 Model : TDP-400 / 500 / 600
- » 紙捲重量 Loading Weight : Max 120 kg
- » 功能 Function : 收 / 送紙 Gathering / feeding paper



下料懸臂裝置

TURNSTILE

- » 可依客戶需求製做
Made-to-order



小型送料機

SMALL-TYPE UNCOILER MACHINE

- » 手動調整料爪漲縮
Jaw is expanded and shrunk by manual.
- » 適用於來料內徑Ø200 mm~Ø300 mm，可正逆轉
suitable for coming materials with an internal diameter of Ø200 mm ~ Ø300 mm; upright and reverse turnings are available.

關於我們 ABOUT US

自1972年由董事長周道成先生創立『道成工業社』至1983年登記為『道德企業有限公司』由原先加工型變成長茁壯為產品製造廠，歷經47年來不斷精進，目前已成為台灣最專業的金屬捲料分條機及整廠設備製造商，並享有多項專利。

道德企業有限公司目前所生產之精密分條機及分條刀，廣受使用者好評，更為業界標竿。為滿足客戶之需求，製作各種尺寸規格之分條機、分條刀、鋼套。舉凡銅、鐵、鋼板、不鏽鋼、鈦帶、矽鋼片等各種特殊材料皆能輕易迎刃而解，達到最高附加價值之產品。

Chairman Chou Tao Chen established Tao Chen Industrial Enterprise in 1972 and changed the company name into existing Toa Dr Enterprise Co., Ltd. in 1983, converting his business from processing services to a product-making plant. With 47 years of continuing progressing, the company has now become increasingly specialized in the manufacturing of metal slitting machines and relevant whole plant sales in Taiwan. The company has also enjoyed several patent rights of its product lines as a result of continued research and development.

Toa Dr Enterprise Co., Ltd. do manufacture precision slitting machine and slitter knife, and to be highly praised and appreciated by our customers. To meet customers' requirements, we supply various type of slitting machines, slitter knives, spacers, and slitting relative accessories. All kinds of metal, bi-metal coils, SUS, titanium, CRGO, CRNGO and non-iron metal coils are easily slit by Toa Dr made slitting machines.



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