



***Practical cases and simulation application of
MagVise Clamping System***

客戶應用照片與加工模擬圖片



- AI 智動化機磁聯網智慧產線

- MES可視化即時派工系統

- 智物流可視化倉儲管理

- 整廠電力可視化環境監控

- 太陽能發電可視化即時監測

- Intelligent production lines with internet of machines & magnetic systems.

- MES timely production arrangement system

- Smart logistics & warehouse management

- Whole plant power consumption visualization monitoring system

- Solar power generation visualization monitoring system



Electro-Permanent Magnetic Chuck

永磁式電控磁盤



EEPM 系列/Series

1. 永久磁盤電控式結構設計；1~3 秒鐘充、退磁，使用時不須持續供電，無溫升，可長時間使用，不會因溫度升高導致工件變形影響精度。
 2. 夾持面積能平均涵蓋完整加工範圍，可同時加工多件工作物，改善加工流程時間。
1. 1-3 seconds control for power ON & OFF. No power supply to keep the magnetic chuck ON, it could be used for long time and never get temperatures to affect the accuracy of workpieces.
 2. Clamping area covers all machining areas it can be machining multi-workpieces and shorten machining time.

Electro-Permanent Magnetic Chuck

永磁式電控磁盤-連結型

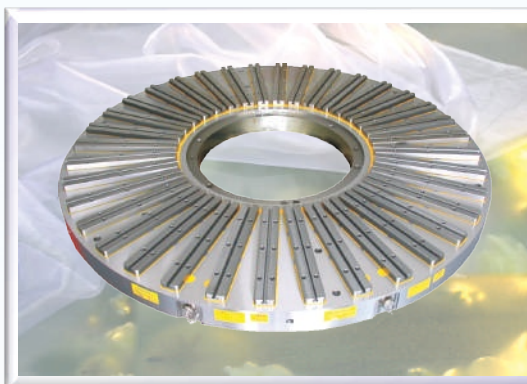


EEPM-C 系列/Series

1. 可依工件之大小自由組合磁力工作台之數量、位置及間距。
 2. 加工時刀具暢行無阻，達到鑽孔、攻牙、銑溝槽、一次完成五面成形加工等功能求。
1. Free to set up position, numbers and distance of EEPM-C Series according to the size of workpiece.
 2. With induction block can be increased to more functions on workholding. Un-obstructed movement of cutters during machining. Can do 5- sides machining, drilling, tapping, grooving and forming can be done all in one cycle. This greatly enhances work efficiency, and reduces repeated positioning tolerances to achieve best machining accuracy.

Electro-Permanent Magnetic Chuck

永磁式電控磁盤

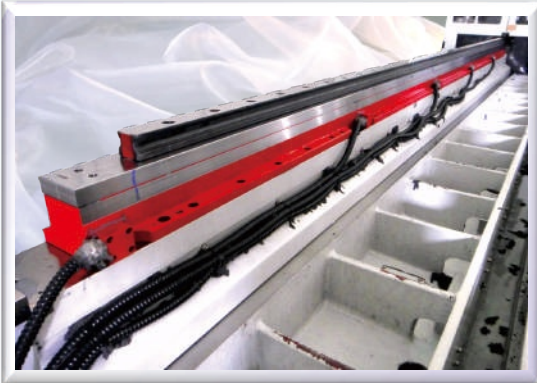


EEPM-CIR 系列/Series

1. 圓形放射狀磁極設計，適合圓形及任何形狀之工件夾持加工。
 2. 工件夾持加工無障礙，可自由加工工件之任何五面，真正發揮五面加工之功能。
1. Round type and radiate magnetic poles, suitable for clamping round type and any form of workpiece machining.
 2. Un-obstructed movement of cutters during machining, the really functions of 5 side machining on workholding.

Electro-Permanent Magnetic Chuck

永磁式電控磁盤

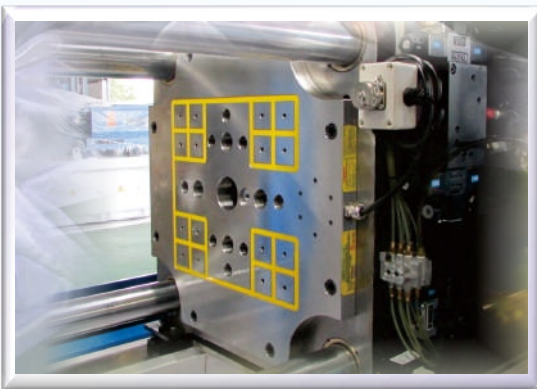


EEPML 系列/Series

1. 適用於精密線軌或長條型工件銑床、鑽孔、研磨等精密加工使用。
2. 永久磁盤電控式結構設計: 1~3秒鐘充、退磁, 使用時不須持續供電, 無溫升、可長時間使用, 不會因溫度升高導致工件變形影響精度。
1. Used on Linear Guideway high precision or high accuracy oblong shape workpiece drilling, grinding machining...etc.
2. 1-3 seconds control for power ON & OFF. No power supply to keep the magnetic chuck ON, it could be used for long time and never get temperatures to affect the accuracy of workpieces.

Electro-Permanent Magnetic Chuck

永磁式電控磁盤



EEPM-PIM 系列/Series

1. 塑膠射出成型機快速換模系統
2. 大幅縮短70%換模時間, 提升機台稼動率, 適合多品種少批量、縮短交期及提升生產SOP產能。
3. 可提升20%容模率, 不用壓板治具, 發揮機台最大容模尺寸。
1. Quick Mold Change Systems for Plastic Injection Machine.
2. Reduce 70% mold setting time significantly, increase machine shifts, shorten lead times and increase production capacity.
3. Increase 20% clamping area, without fixture plate enhancing the performance of the mold.

Permanent Magnetic Clamping Block

永磁式磁力工作台



ECB 系列/Series

1. 快速夾持工件, 可做5面切削加工, 鑽孔、攻牙、銑溝槽一次完成, 節省加工並提高工作效率, 大幅降低加工成本。
2. 可依工件之大小自由組合磁力工作台之數量、位置及間距。
1. The all new model Magnetic Clamping Block ECB Series are a new sense of clamping way for metal working on CNC Machining Center and Milling Machine in quick clamp workpieces.
2. Free to set up position, numbers and distance of ECB Series according to the size of workpiece.

Application Example for Automated Production Series

自動化生產應用 應用圖片

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Application Example for EEPM Series

永磁式電控磁盤 EEPM 系列 應用圖片

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Application Example for EEPM Series

永磁式電控磁盤 EEPM 系列 應用圖片

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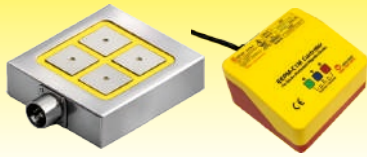
Application Example for ECB Series

永磁式電控磁盤 ECB 系列 應用圖片

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Exhibitor Partners 廠商應用照片

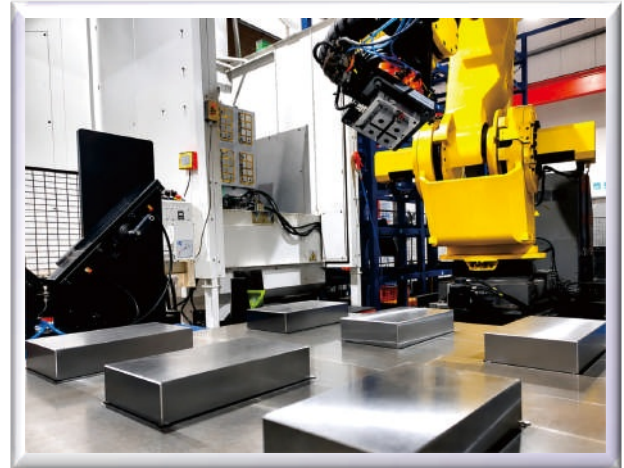
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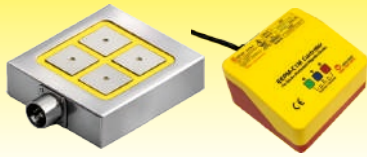


方形永磁式電控夾頭 Electro-Permanent Magnetic Chuck for Automatic Robotic Arm

EPMS

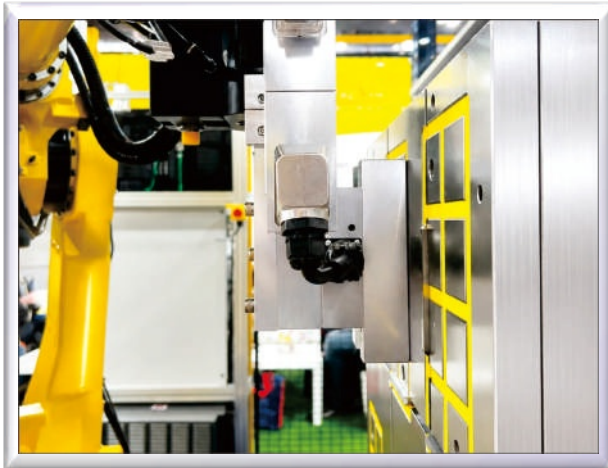
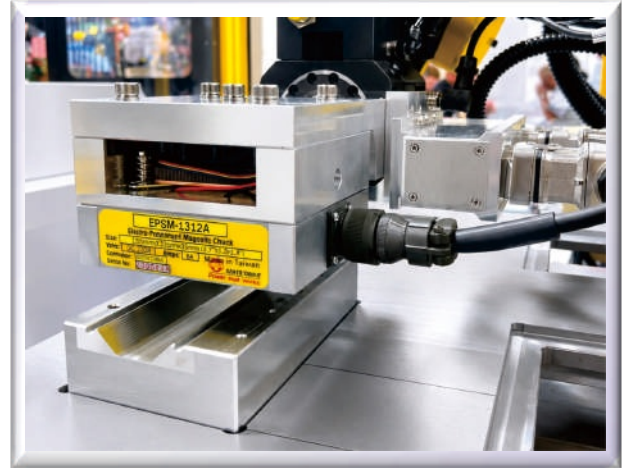
適用於自動化配送生產線，包含醫療、實驗設備等自動化生產線輸送應用
Suitable for automated production line including robotic arm, medical, machine,
laboratory equipment and other automatic processing production line materials
or product transport applications.





方形永磁式電控夾頭
Electro-Permanent Magnetic Chuck
for Automatic Robotic Arm

EPSM



反向圓形電夾頭
Permanent Electro-Magnet

PECM



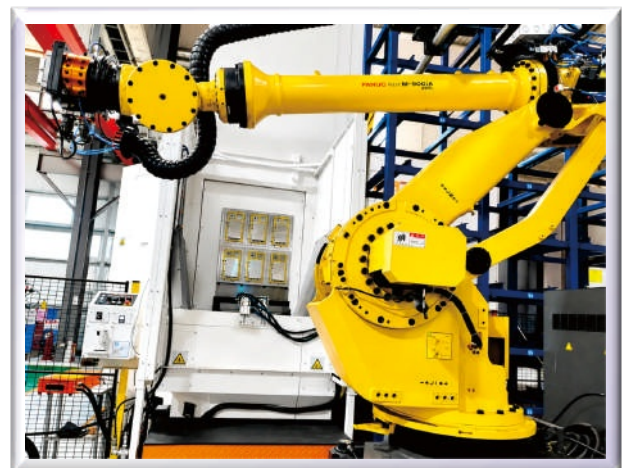
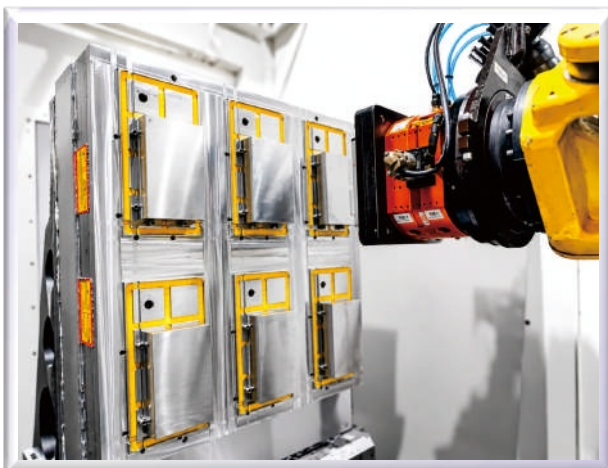


多區協作控制磁力夾具系統 Multi-zone cooperative control magnetic chuck system

EEPM-V

應用於多工件夾持自動化加工

Used for automatic processing with multi-workpiece clamping

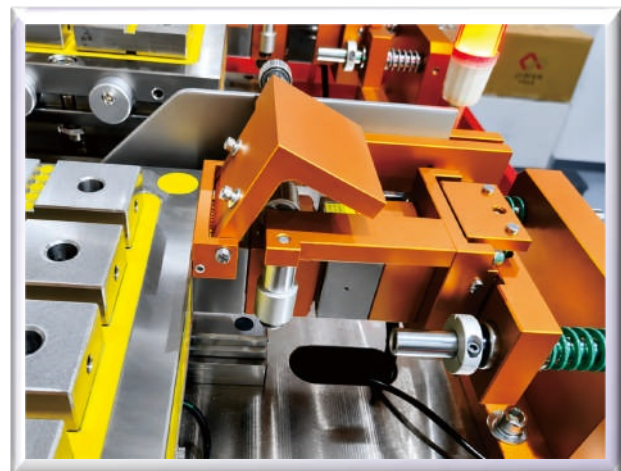
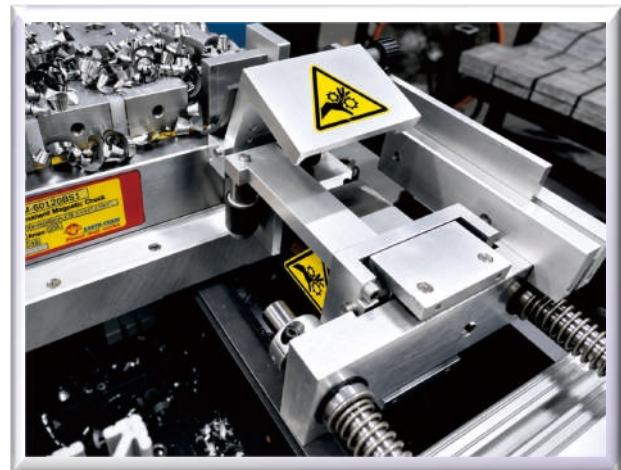
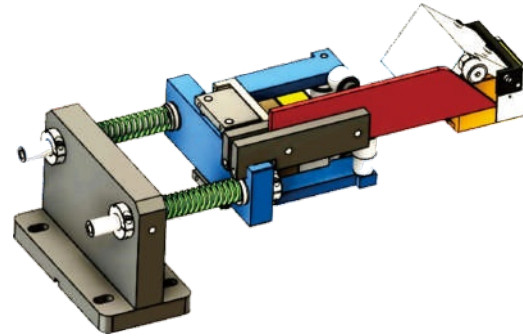
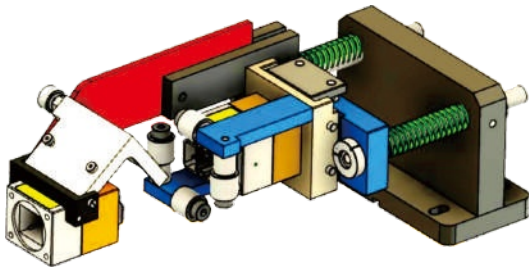


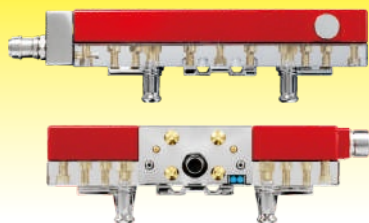


自動串接磁盤接頭裝置 Automated Self-Aligning Connection Magnetic System

EEPM-SAC

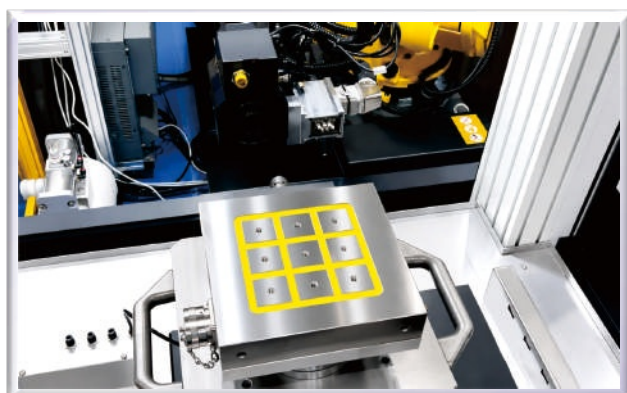
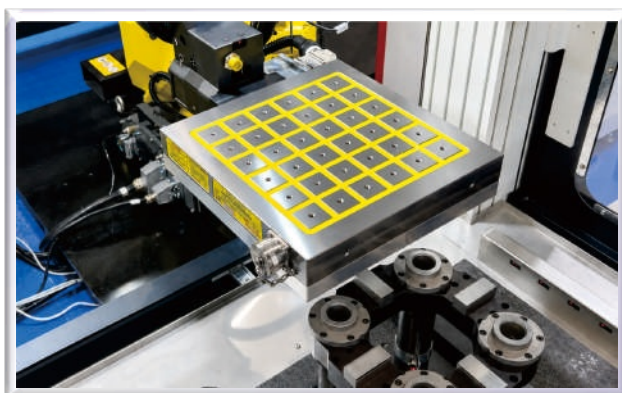
應用於磁盤接頭自動化吸、退磁操作使用
Automated Self-Aligning Connection Magnetic System

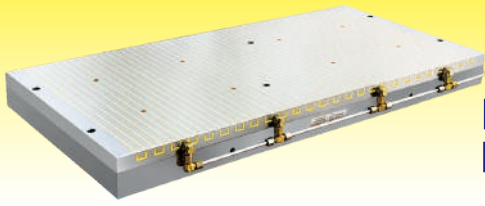




自動化零點定位磁盤快速換模系統 Automatic Zero Point Positioning Magnetic Chuck Changing System

EEPM

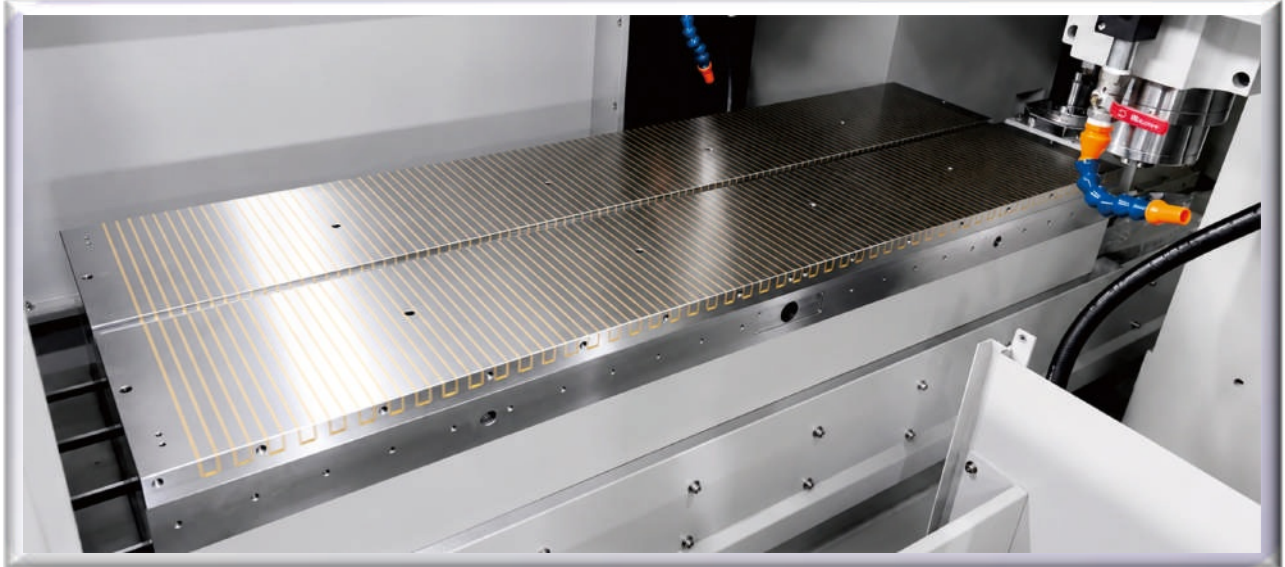




高精度平面研磨加工
For clamping workpieces which need
high precision ex: surface grinding

EEPG

應用實例
Practical Case



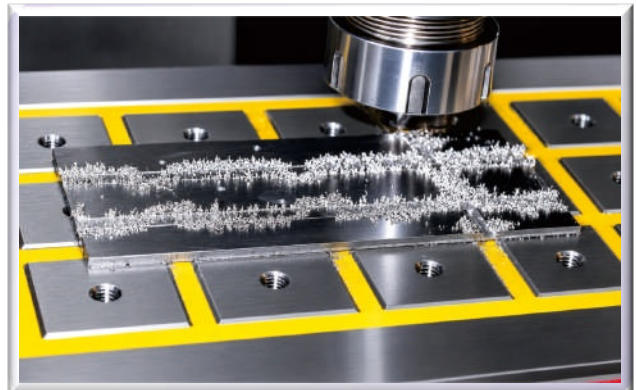
1. 永磁電控結構設計，具吸磁夾持後即無須再供電特性，無電磁盤溫升變形問題。
 2. 即使供電設備故障或停電，磁盤亦不會失去磁力進而導致工件損壞或人員受傷等問題。
 3. 堅固密實的結構設計，多道防水處理，磁盤強度及防水性佳。
 4. 磨損的導磁面板可直接更換。
-
1. Electro permanent magnetic design. No electric power supply required to keep the magnetic force, never generate temperatures to affect the accuracy of workpieces, suitable for precision surface grinding jobs.
 2. The power connection will be automatic cut off when the magnetism is completed, effectively reduce the power consumption and achieve the purpose of energy saving.
 3. Strong and dense structure design, multi-layer waterproofing, excellent chuck strength and waterproof performance.
 4. A variety of magnetic pole pitch can be selected, suitable for various size workpieces. Large-scale or gantry grinder, and multiple chucks can be used in combination for gantry type surface grinders.



薄小型工件加工應用實例 EEPM Thin and Small Workpiece Machining

EEPM-A 系列
薄小工件加工應用

EEPM-A Series
Thin & Small Workpiece Applications



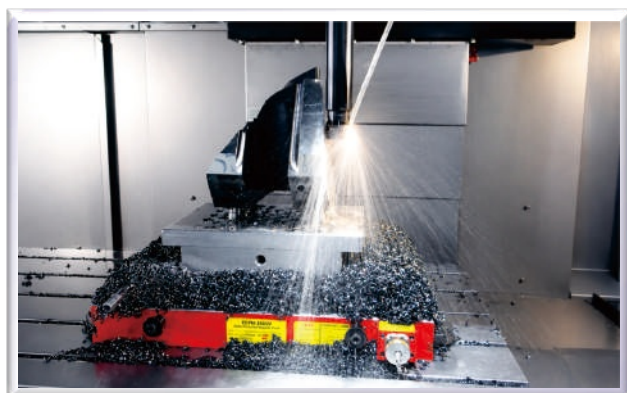
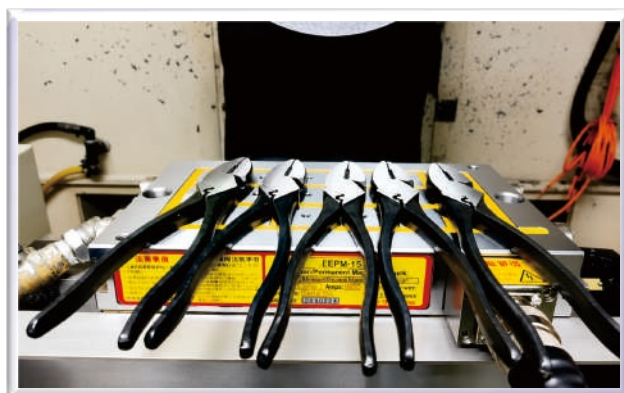


小型工件加工應用實例 Small Workpiece Machining

EEPM

EEPM-A 系列
薄小工件加工應用

EEPM-A Series
Thin & Small Workpiece Applications



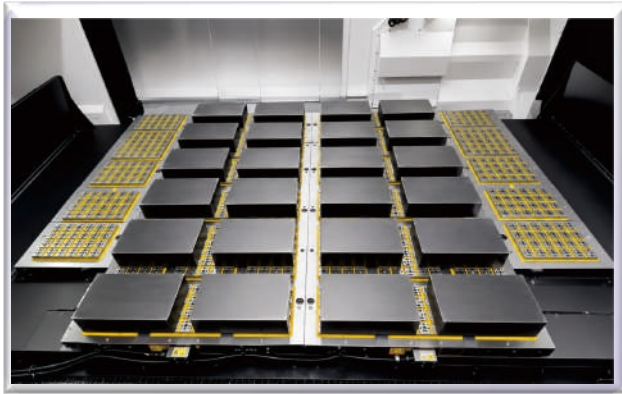


中型工件加工應用實例 Medium Workpiece Machining

EEPM

EEPM-B 系列
中型工件加工應用

EEPM-B Series
Medium Workpiece Applications

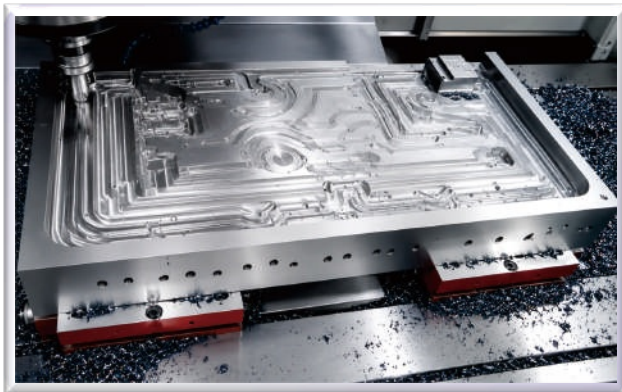
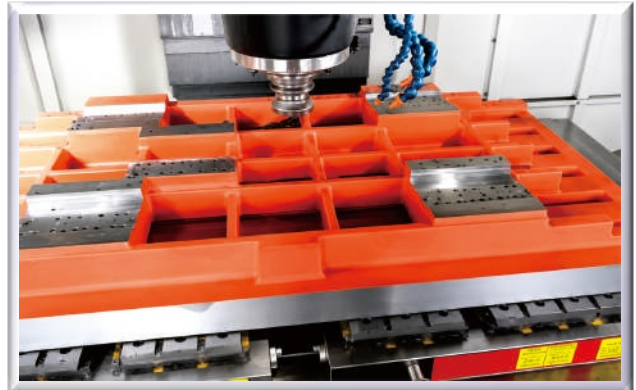
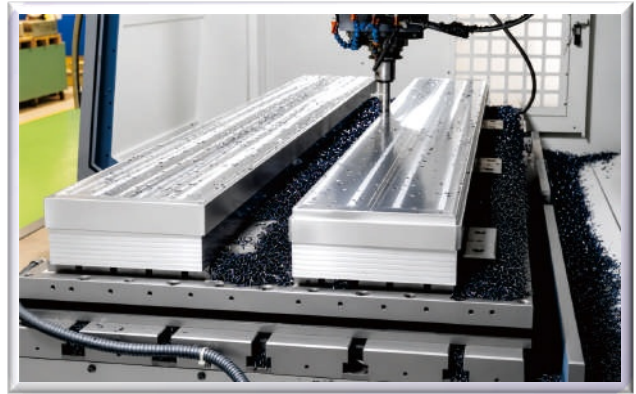




大型工件加工應用實例 EEPM Large Workpiece Thin Machining

EEPM-D 系列
中大型工件加工應用

EEPM-D Series
Medium & Large Workpiece Applications

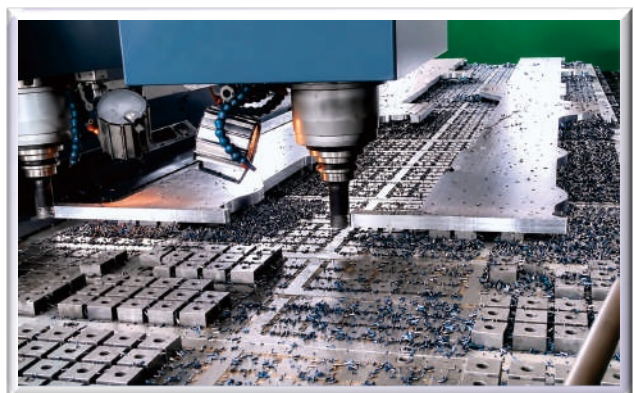
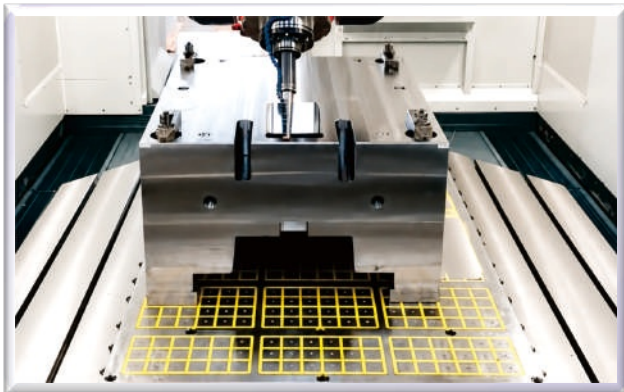
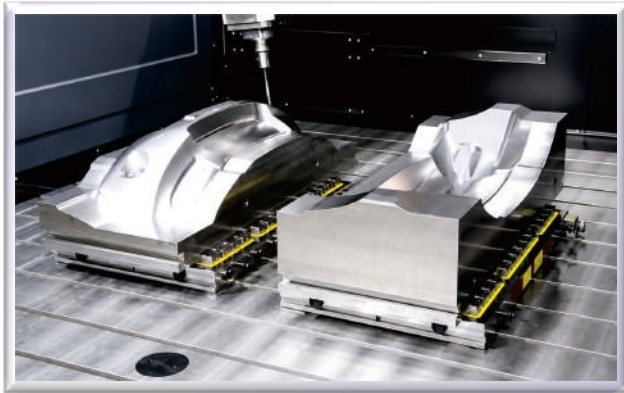
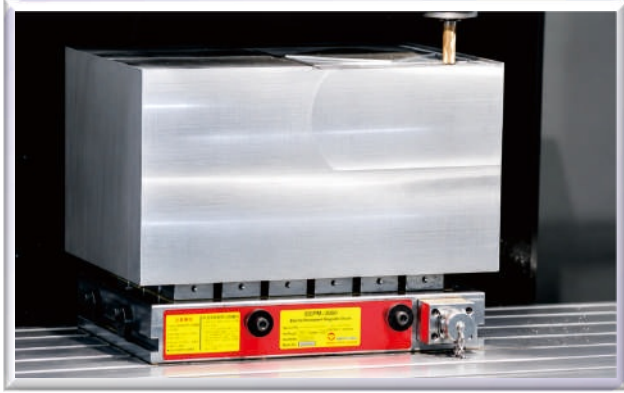




龍門銑床、大型工件加工應用 **EEPM** Suitable for use on large Vertical Lathe and Double Column Machining center

EEPM-E 系列
大型工件加工應用

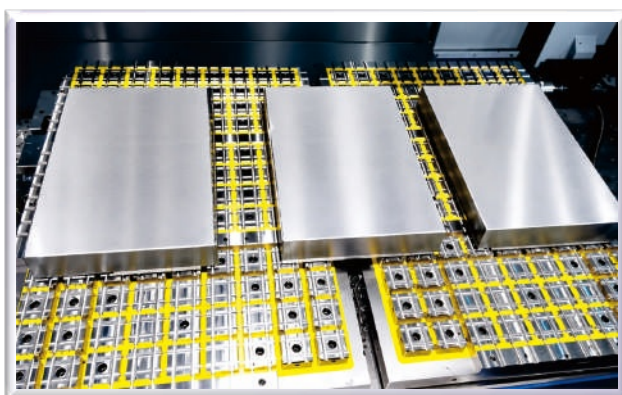
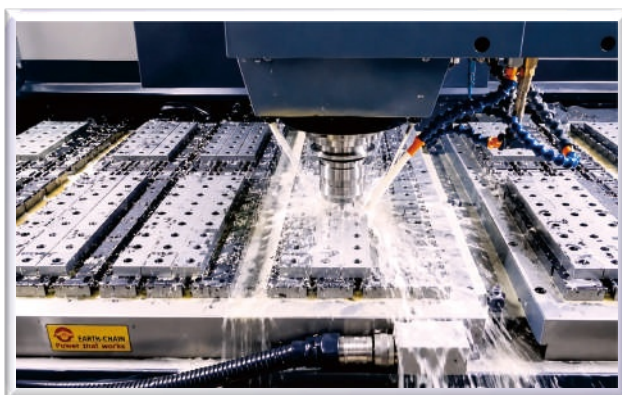
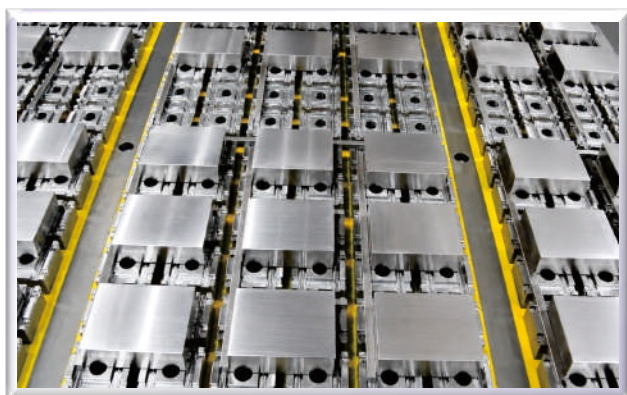
EEPM-E Series
Large Workpiece Applications

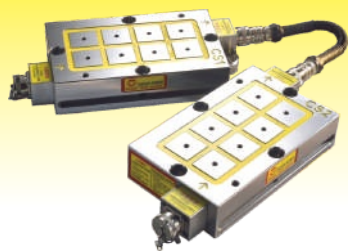




量產工件加工應用實例 Multi-workpiece Machining

EEPM





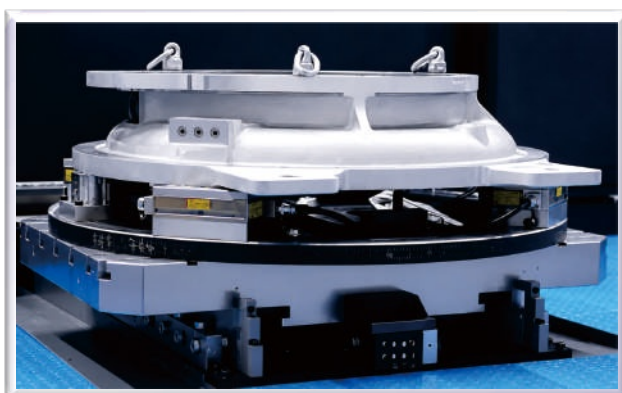
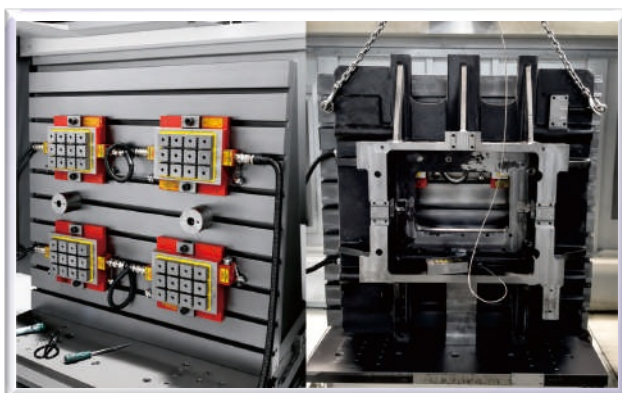
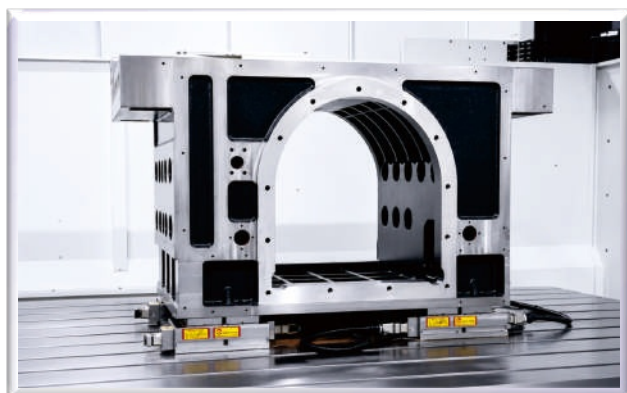
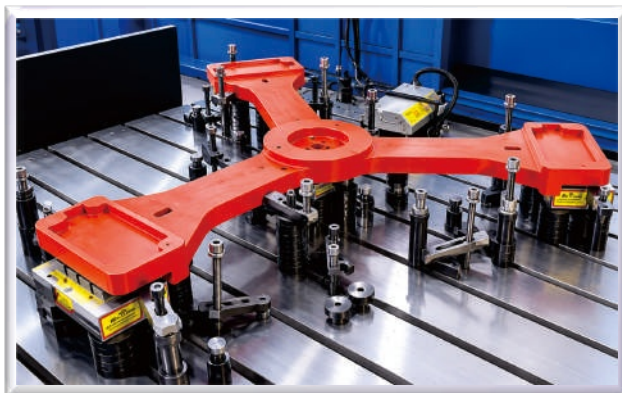
永磁式電控磁盤-連結型 應用實例 Application Examples of EEPM-C

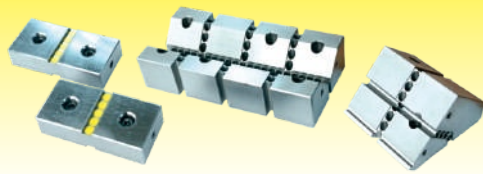
EEPM-C

龍門大型工件加工應用
(自由組合磁力夾具之數量、位置及間距)



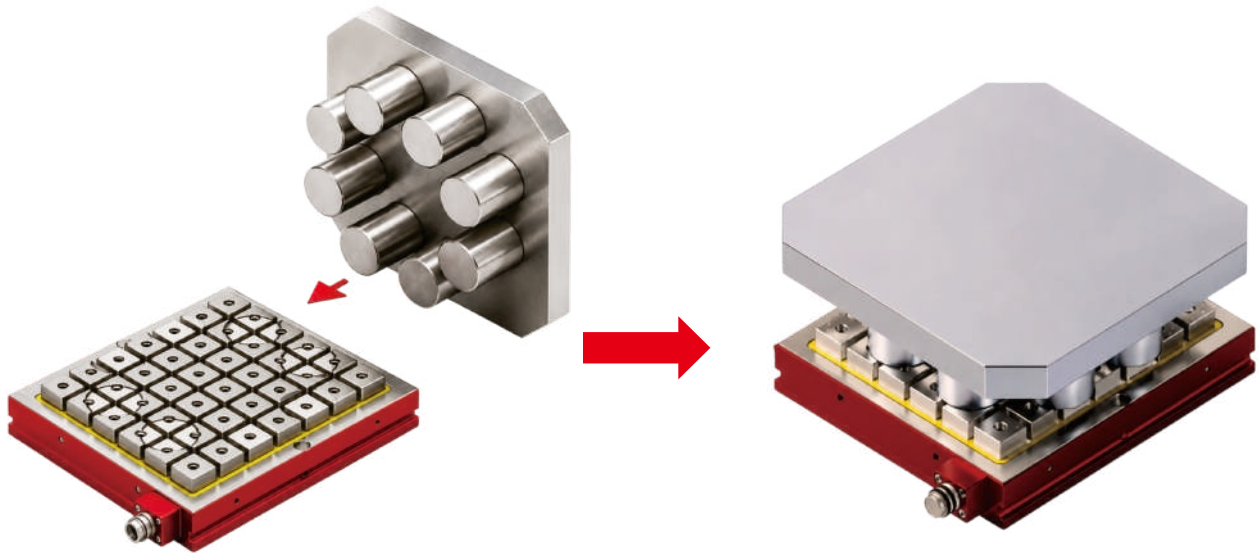
Double Column Application
(Free to set up position, numbers and distance)





導磁軟爪應用模擬範例 Induction Block

EEPM-IB



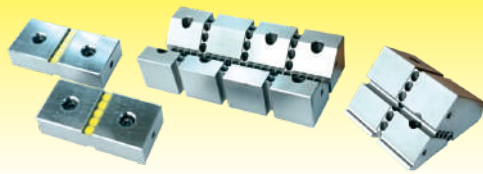
當工件形狀特殊無法於磁盤上吸附加工時，可於導磁軟爪上針對工件外型銑挖凹槽，便可達到吸附工件加工，大幅縮短工件裝置時間。

Induction Blocks can be used for the clamping and processing of round shaped objects and irregular shaped objects. Cut/mill the induction blocks accordant with the shapes of the objects for machining different shapes of workpiece. Not only does it achieve fast positioning, but also server as a stopping plate.



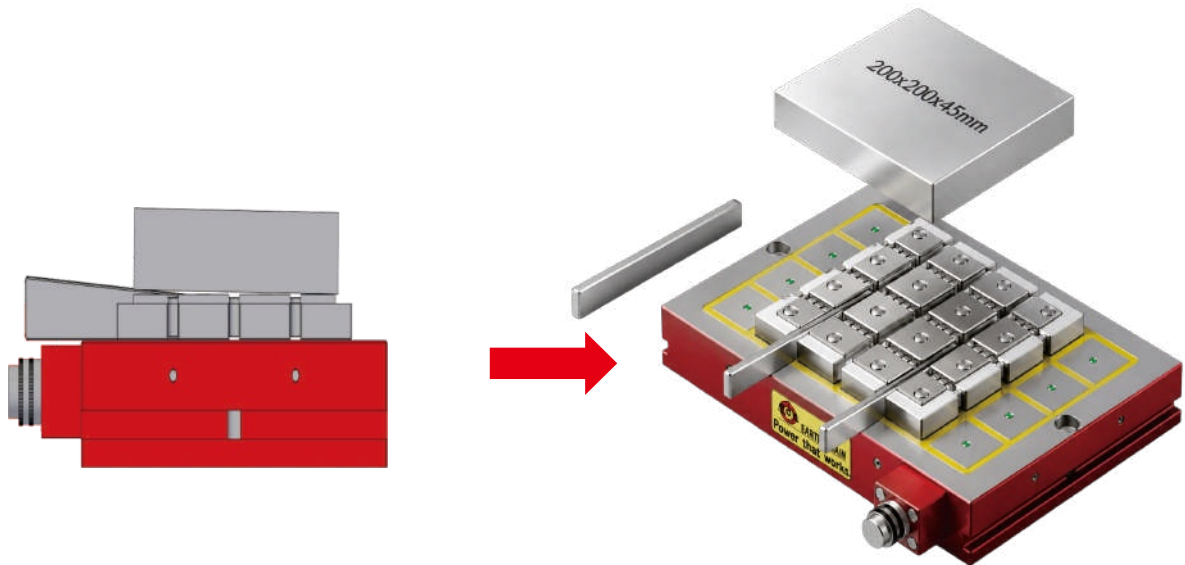
當工件內徑進行加工動作時，可應用導磁軟爪墊高工件，而內徑加工範圍則無需安裝軟爪，可避免加工時沾上鐵屑，達到平面與內徑一次完成加工需求。

Induction Blocks for inside diameter machining, using **IB** series to jack up the objects. inside diameter of the objects without **IB** servers to prevent the chips attaching onto objects. One process to make surface and inside diameter machining.



導磁軟爪應用模擬範例 Induction Block

EEPM-IB



高碳材質因含碳量較高，當工件加工完後，可能導致工件無法立即卸下。此時處理方法如上圖：加工完後，取二支已加工斜度之鋁棒，置於工件下並往內敲，就可輕易取下工件。

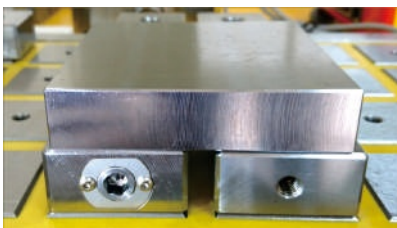
Since the carbon content amount is high for high-carbon materials, the object might be unable to be instantly released after machining cycle is completed due to residual magnetism. After the machining and demagnetize the EEPM chuck, place two processed slant aluminum rods underneath the object and strike the rods inwards to easily remove the object.

頂針軟爪 EEPM-S50T

■ 適用於高碳鋼材質工件使用

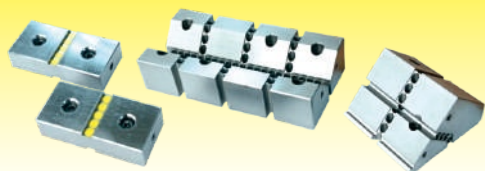
Induction block with raise pin structure (EEPM-S50T)

■ Suitable for high-carbon steel workpiece



安裝頂針軟爪，將退磁後仍不易取下磁化之高碳鋼工件，藉由軟爪內PIN頂出力量，可輕易分離安全卸料。

The high-carbon steel parts are difficult to remove after the magnetization using induction block with raise pin structure can easily remove the workpiece.



導磁軟爪應用模擬範例

Induction Block

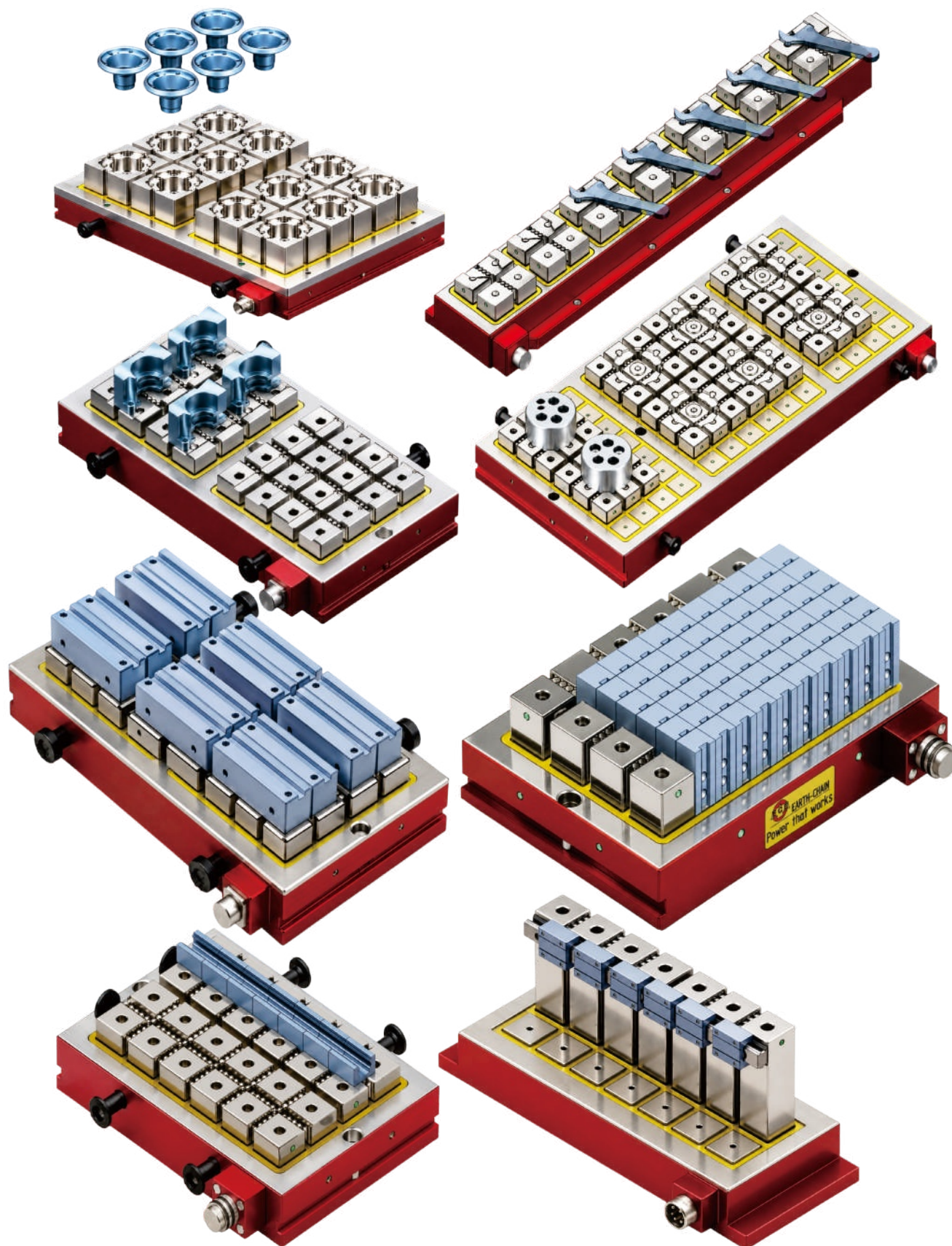
EEPM-IB

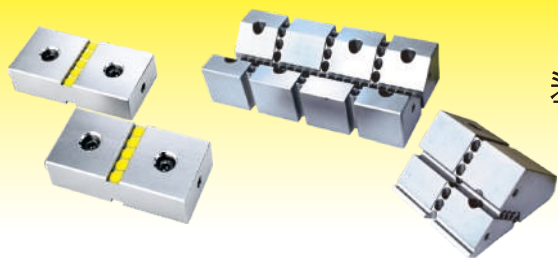
特別附件

任意搭配組合 靈活運用

Option Accessories

Flexible Use, Increased More Functions

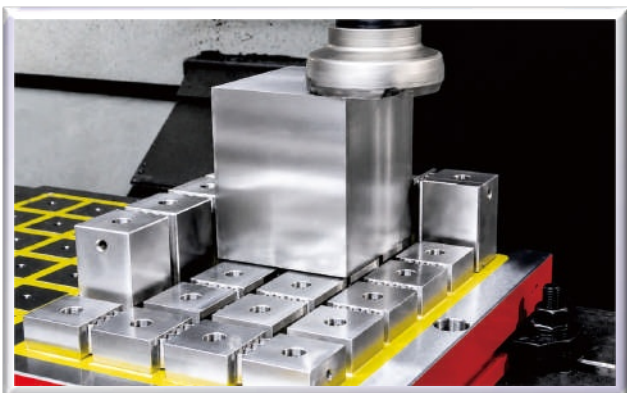
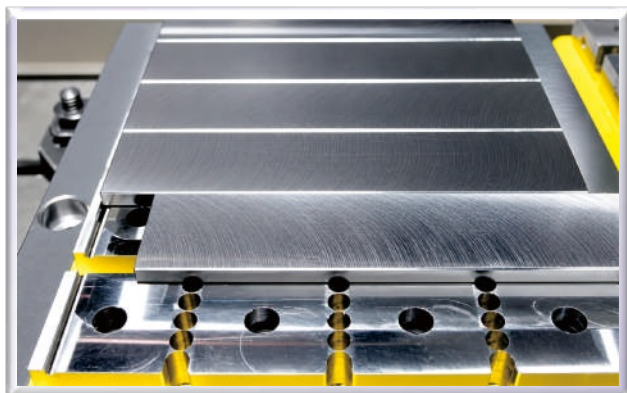
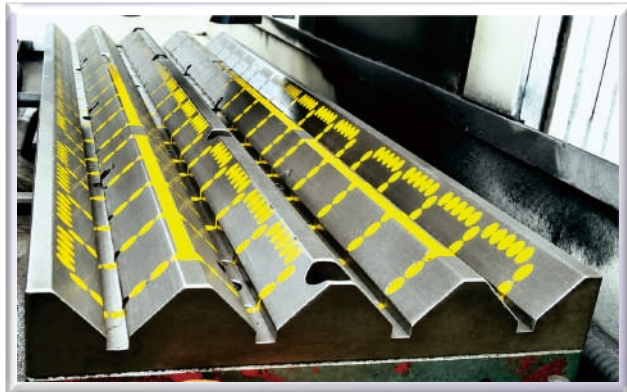




導磁軟爪應用模擬範例

Induction Block

EEPM-IB



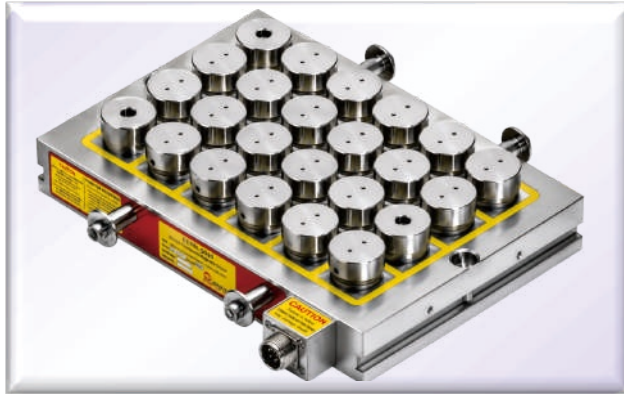


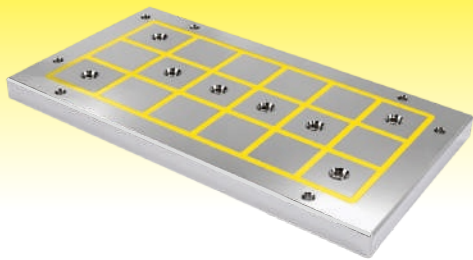
彈簧軟爪應用實例 Spring Block

EEPM-SP

特別附件
任意搭配組合 靈活運用

Option Accessories
Flexible Use, Increased More Functions



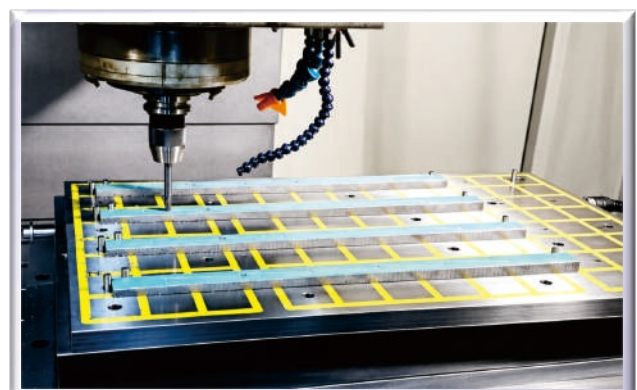
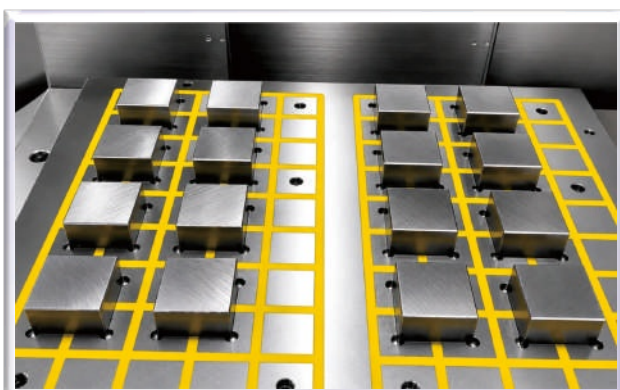
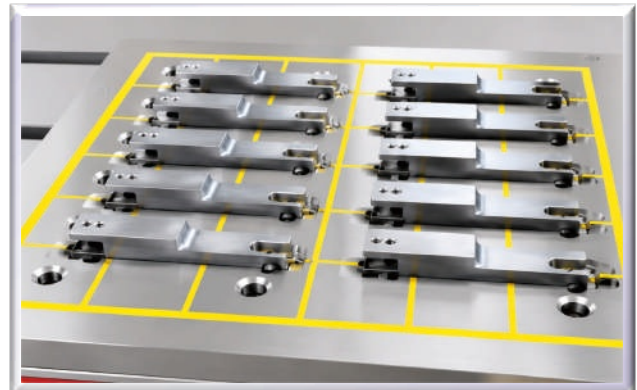
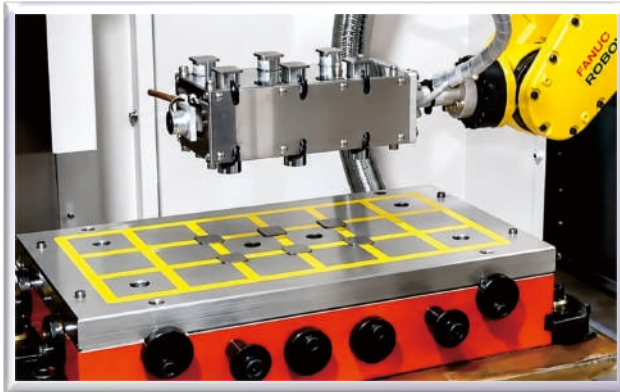


導磁面板應用實例 Induction Sub Plate

EEPM-ISP

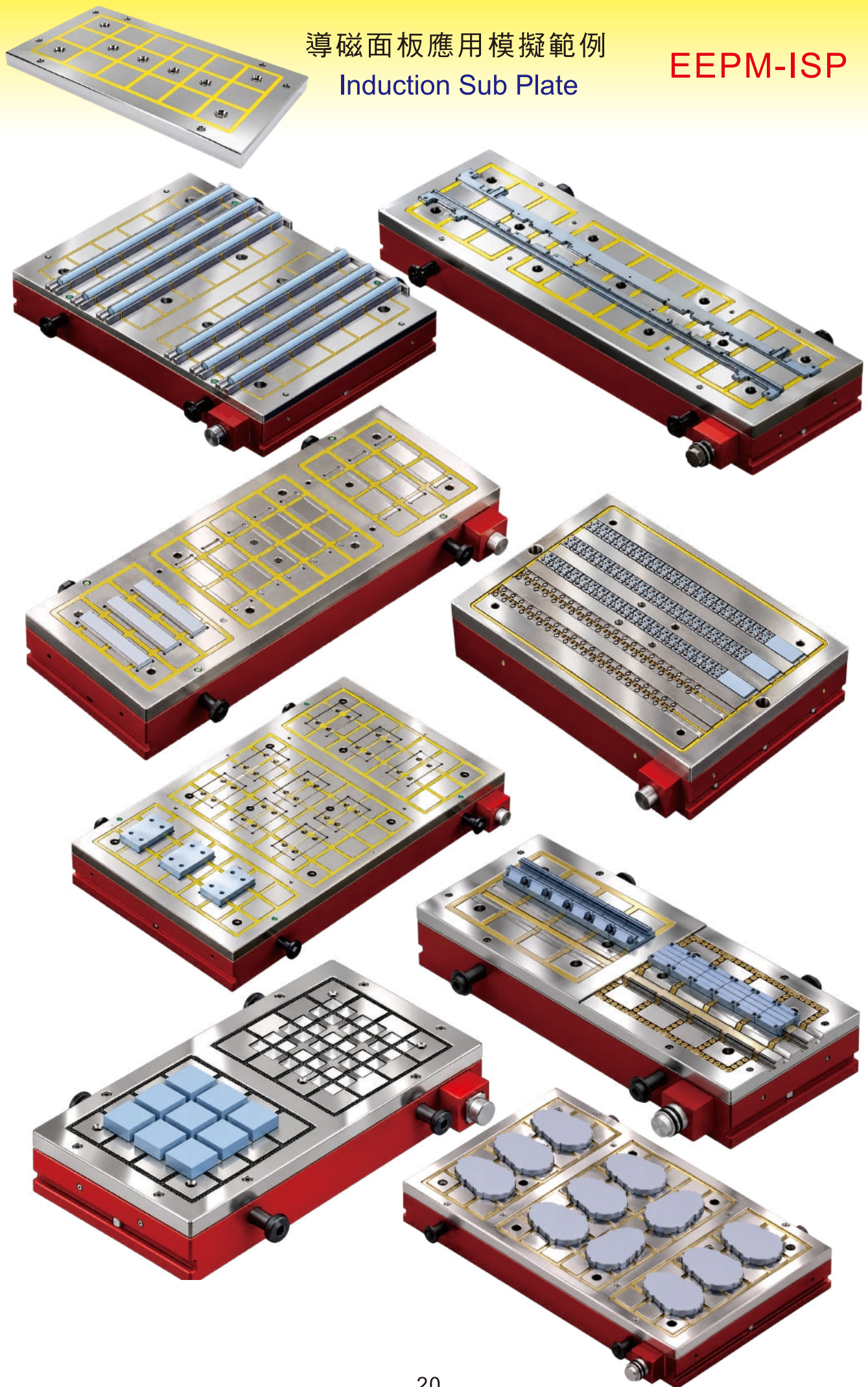
特別附件
任意搭配組合 靈活運用

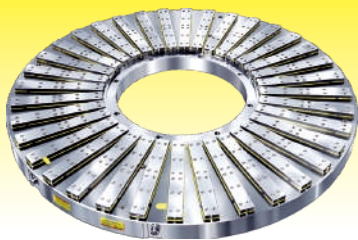
Option Accessories
Flexible Use, Increased More Functions



導磁面板應用模擬範例
Induction Sub Plate

EEPM-ISP



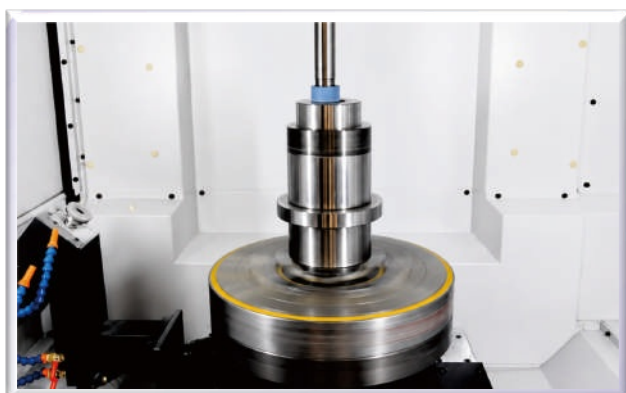
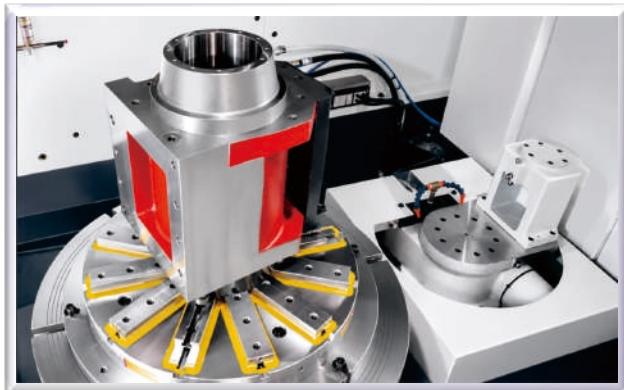
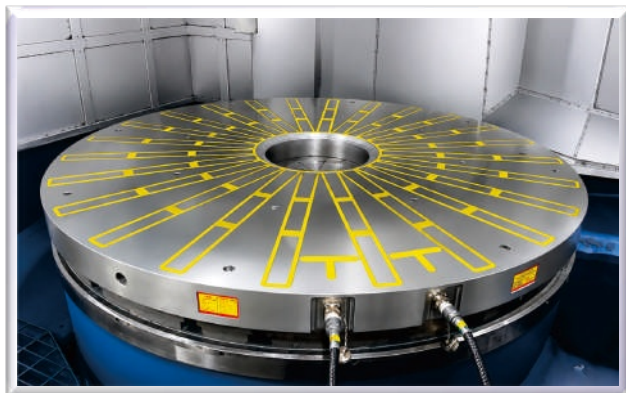


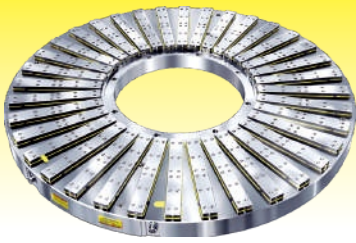
立式車床研磨 Vertical Lathe (Grinding)

EEPM-CIR

EEPM-CIR 系列
圓形工件加工應用

EEPM-CIR Series
Round Workpiece Applications





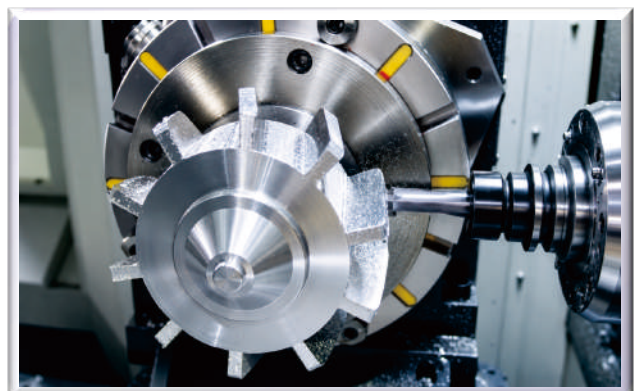
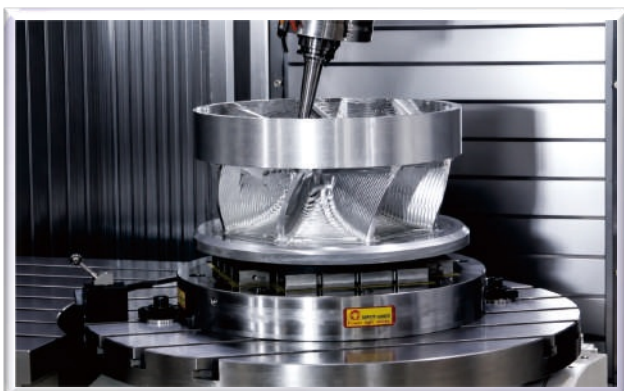
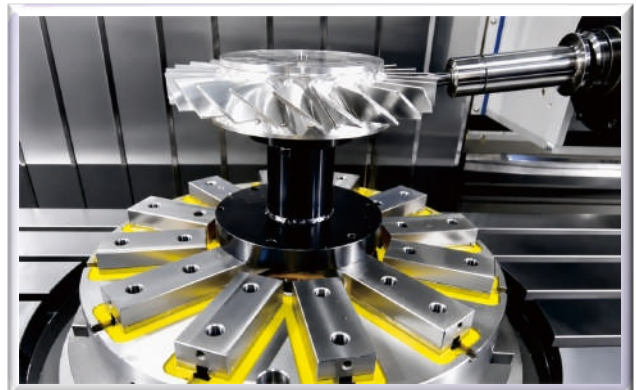
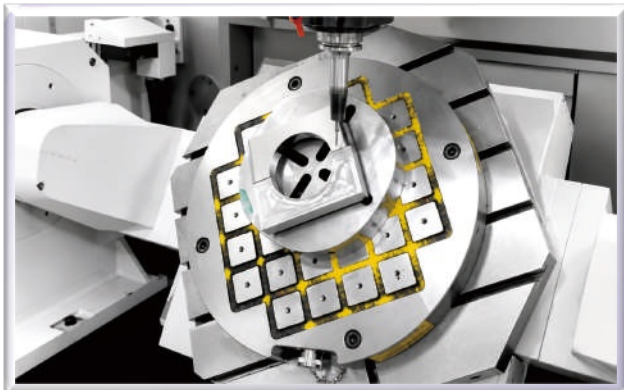
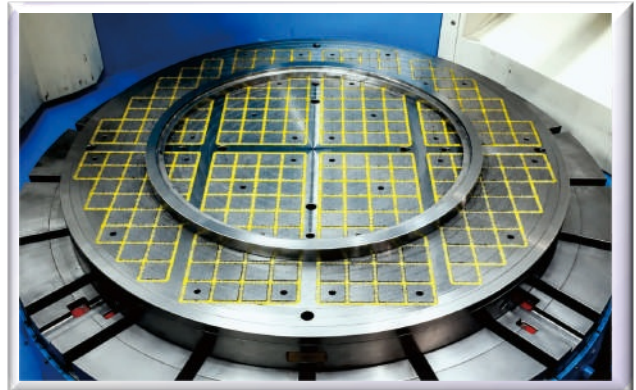
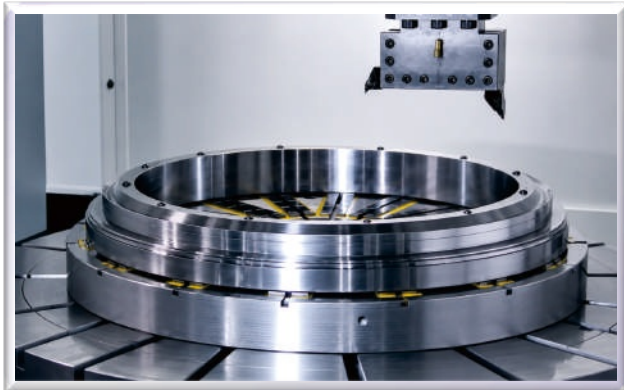
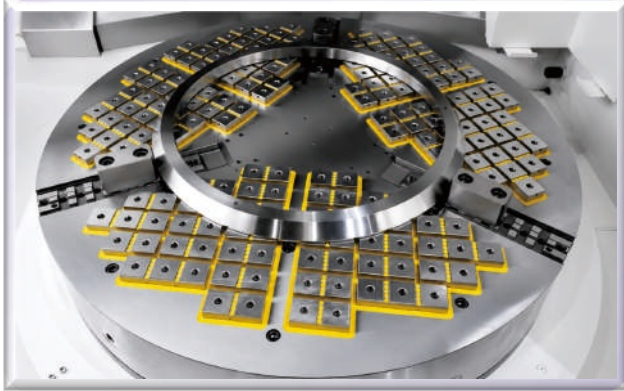
立式車床 & 五軸加工

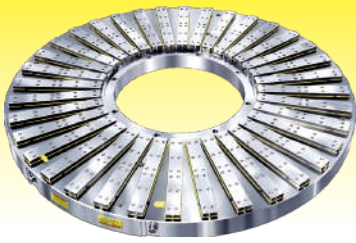
EEPM-CIR

Vertical Lathe & CNC 5 Axis Machining

EEPM-CIR 系列
圓形工件加工應用

EEPM-CIR Series
Round Workpiece Applications



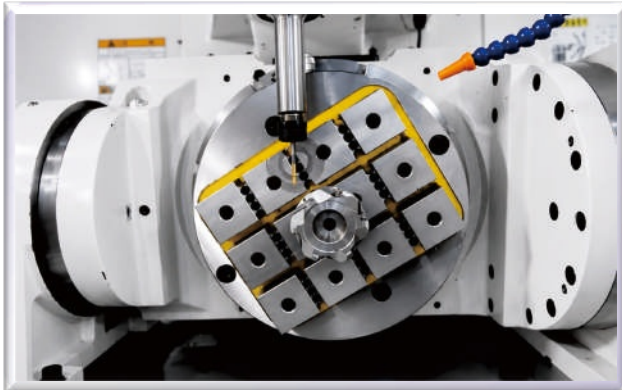
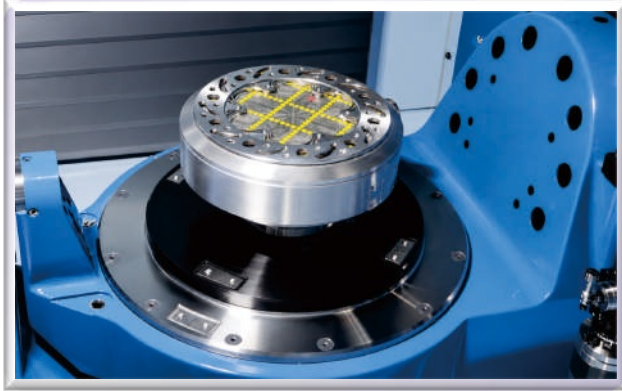


四軸 & 五軸加工 CNC 4 & 5 Axis Machining

EEPM-CIR

EEPM-CIR 系列
圓形工件加工應用

EEPM-CIR Series
Round Workpiece Applications



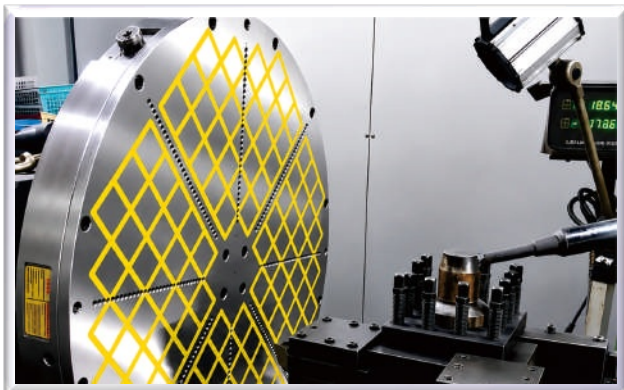
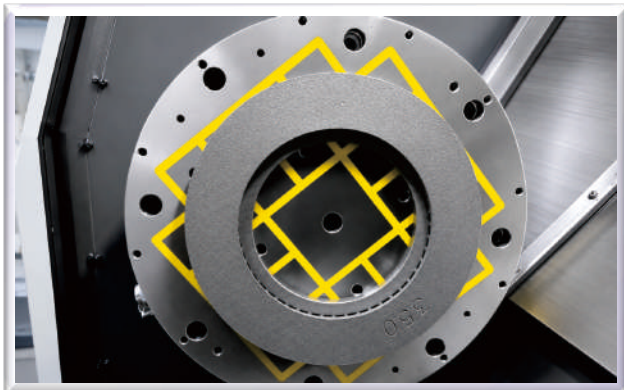
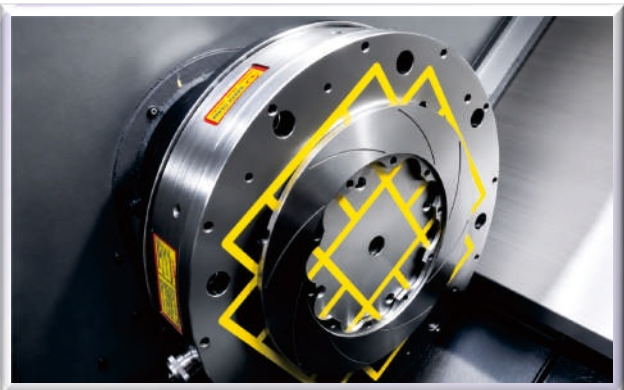


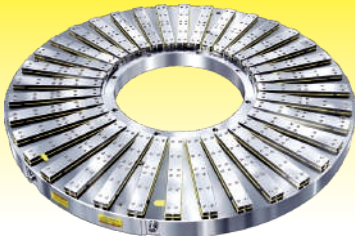
臥式車銑、研磨 Horizontal Lathe (Grinding)

EEPM-CIR

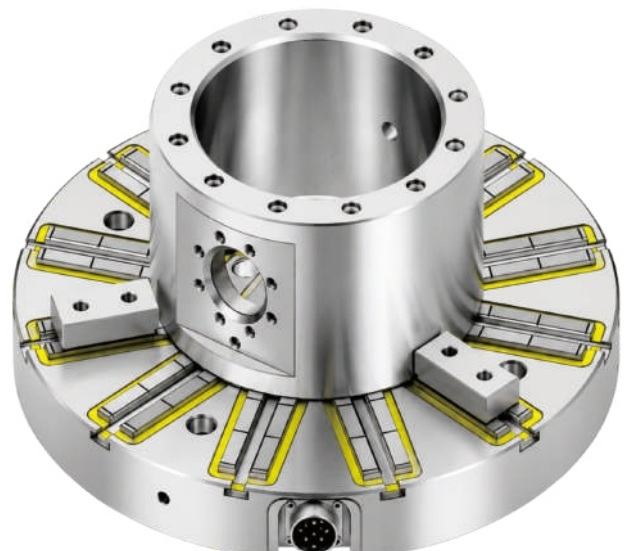
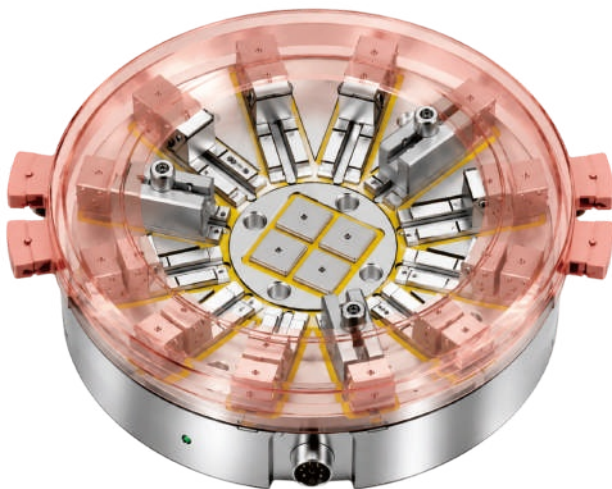
EEPM-CIR 系列
圓形工件加工應用

EEPM-CIR Series
Round Workpiece Applications



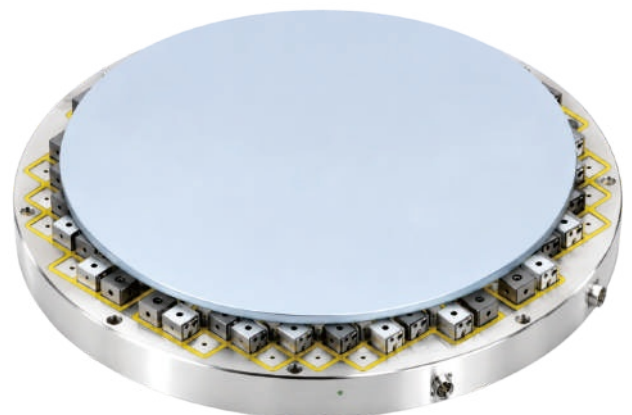
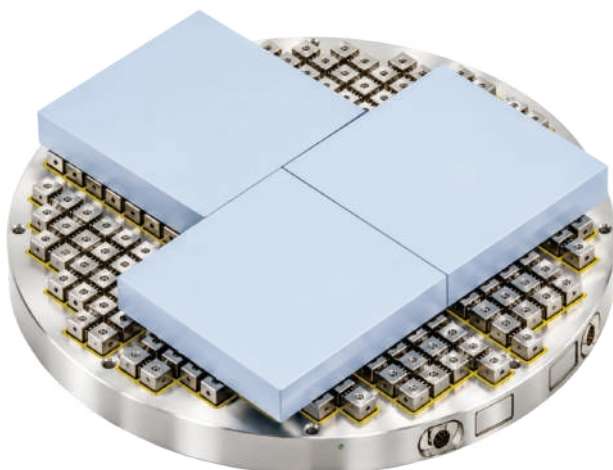
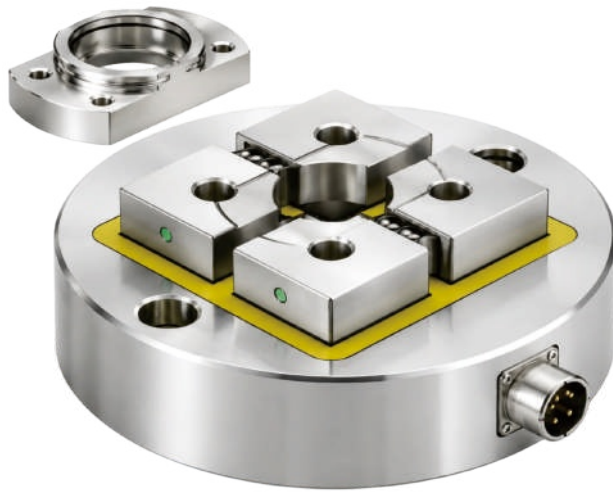


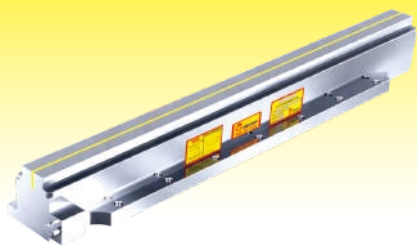
立式車床 & 五軸加工模擬範例 **EEPM-CIR**
Vertical Lathe & CNC 5 Axis Machining (simulation)





立式車床 & 五軸加工模擬範例 **EEPM-CIR** Vertical Lathe & CNC 5 Axis Machining (simulation)





精密線軌研磨 Linear Guideway high precision

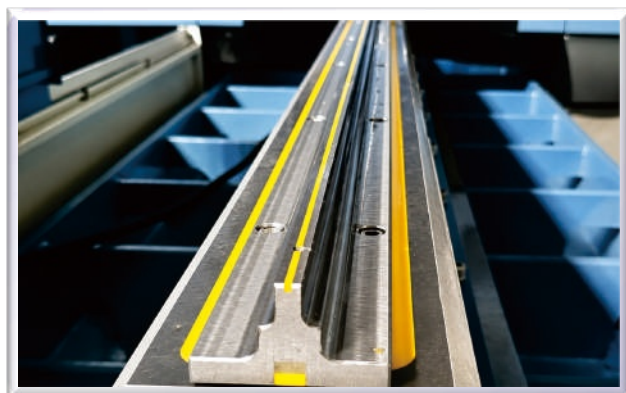
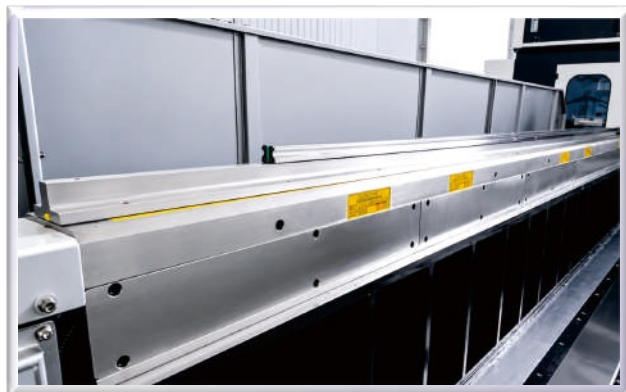
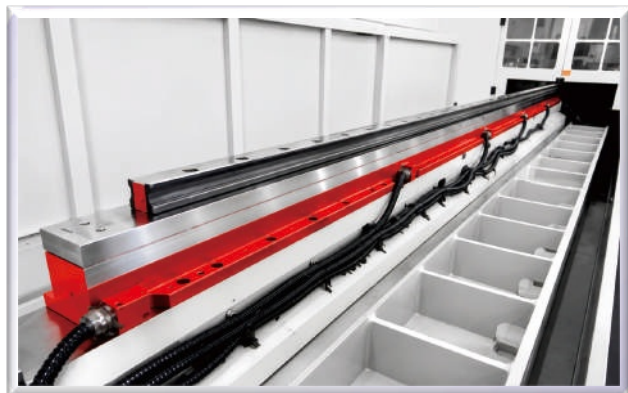
EEPML

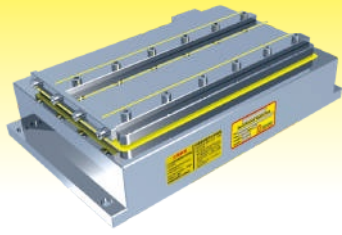
EEPML 系列

精密線軌或長條型工件加工使用

EEPML Series

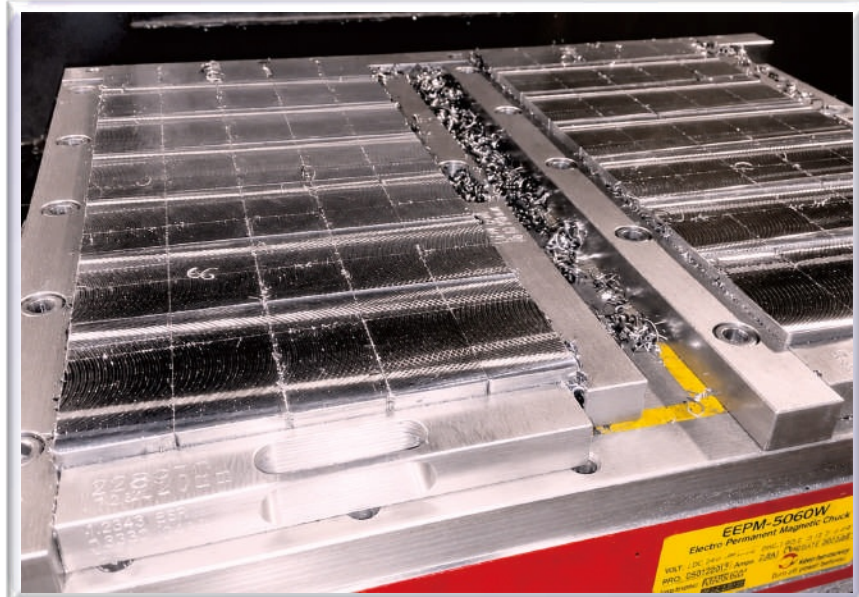
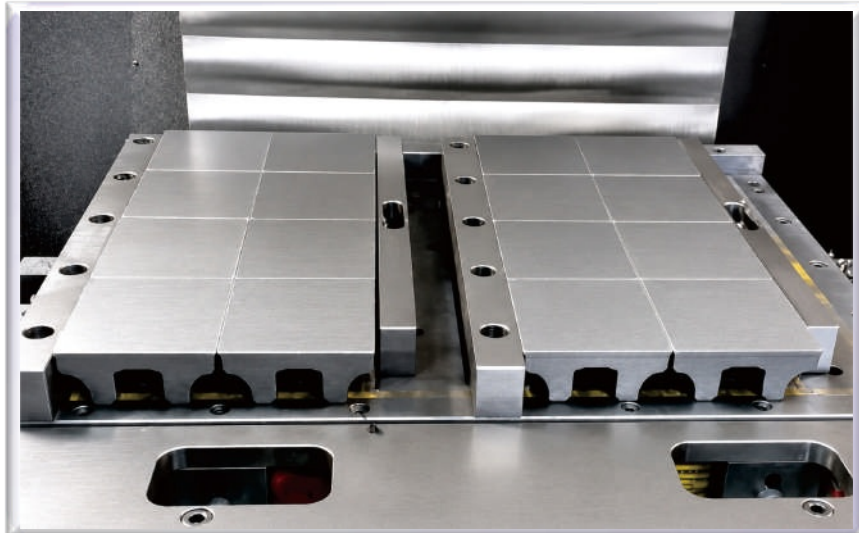
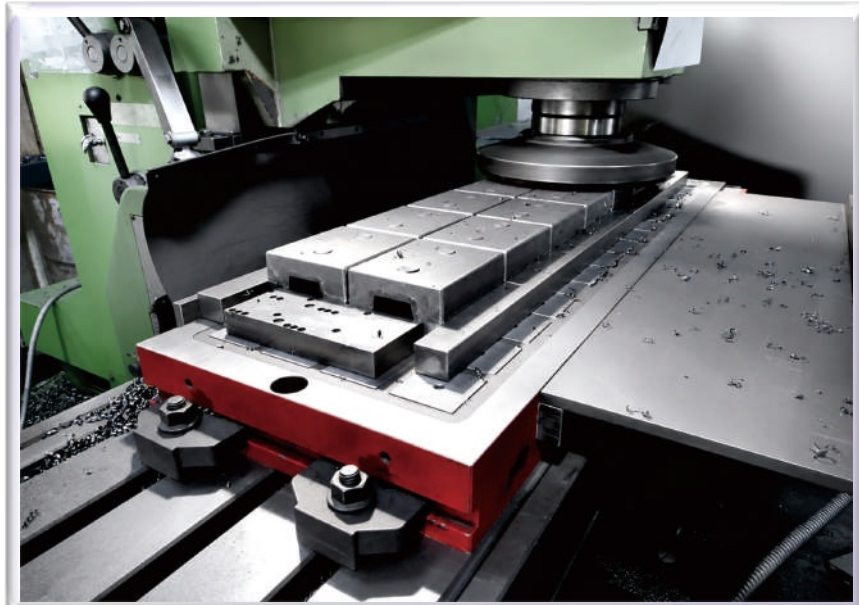
Linear Guideway / Strip-Shaped Workpiece

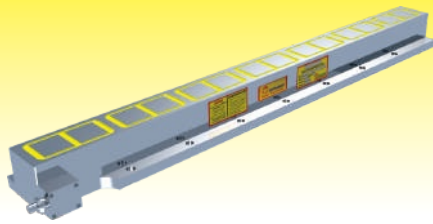




滑塊加工應用實例 Slide Block Machining

EEPM

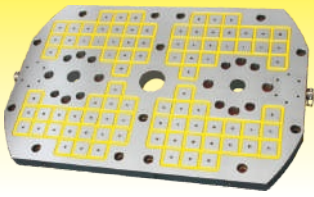




長條型工件應用模擬範例 Strip-Shaped Workpiece

EEPM

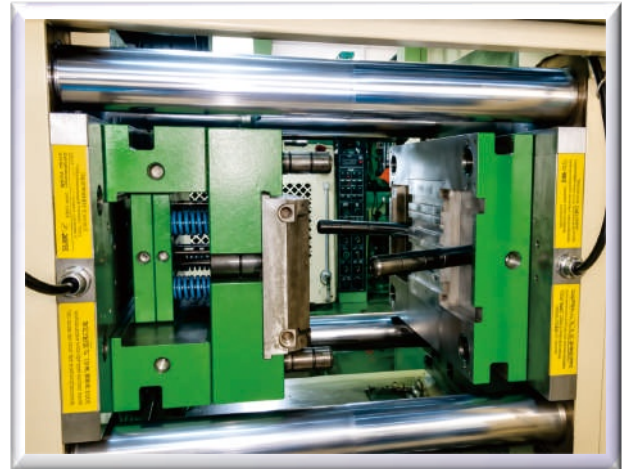
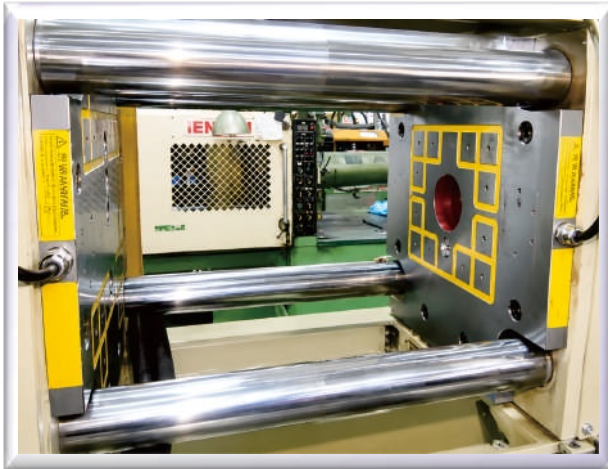




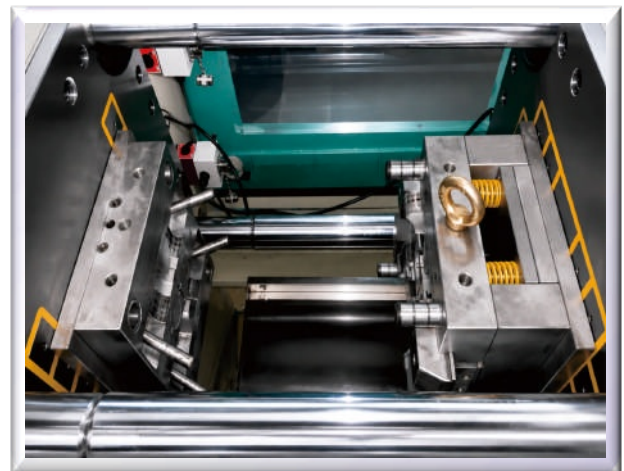
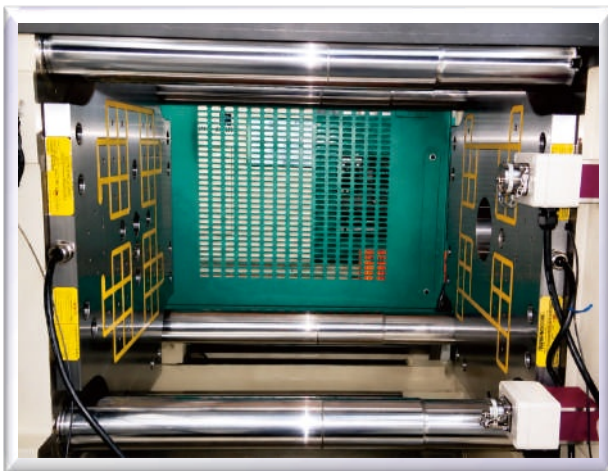
塑膠射出成型機快速換模系統 **EEPM-PIM** Quick Mold Change Systems for Plastic Injection Machine

EEPM-PIM 系列
塑膠射出成型快速換模系統

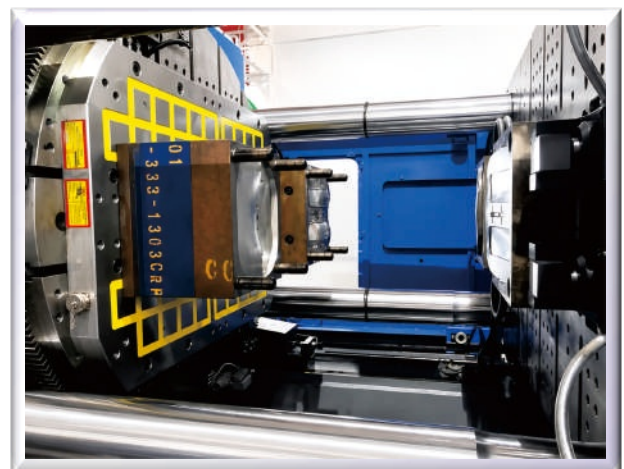
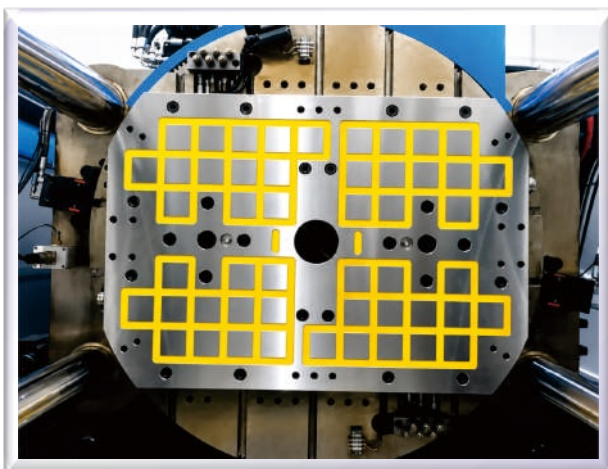
EEPM-PIM Series
Quick Mold Change Systems for
Plastic Injection Machine



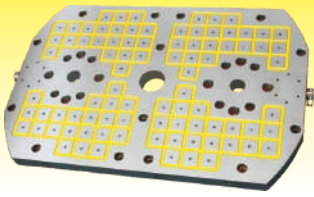
120T



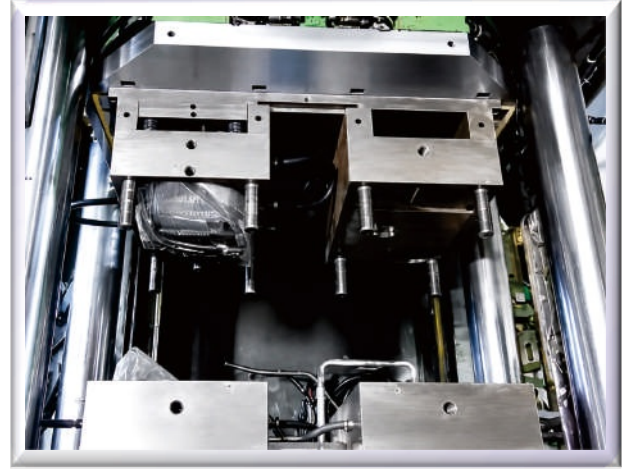
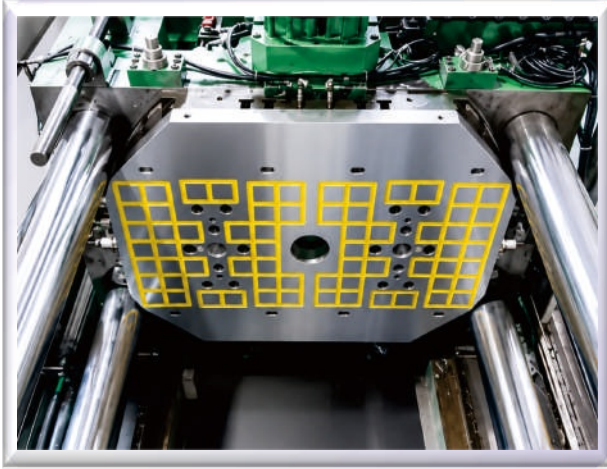
180T



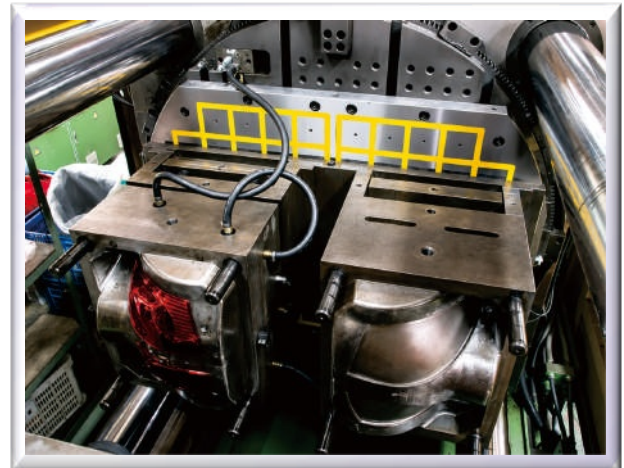
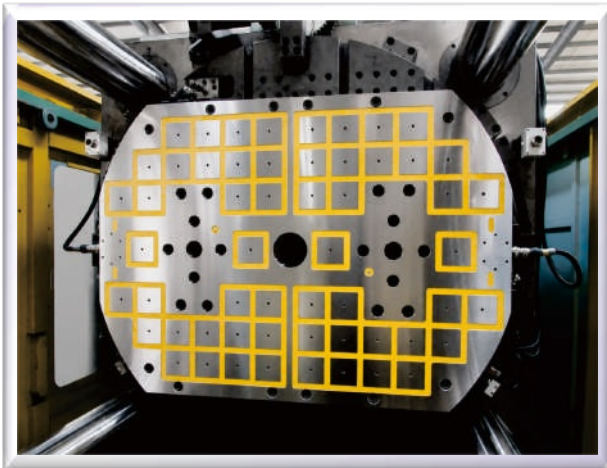
550T



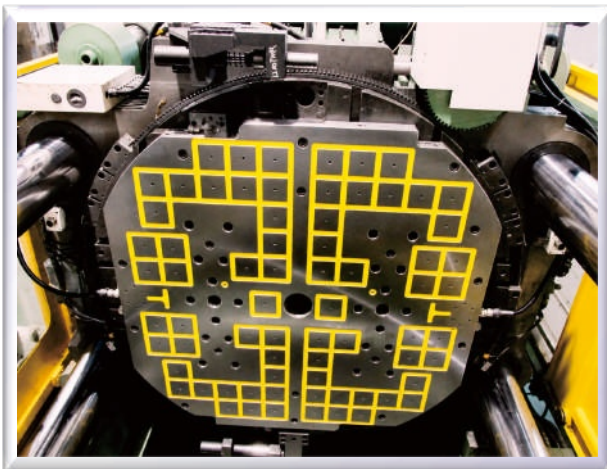
塑膠射出成型機快速換模系統 **EEPM-PIM**
Quick Mold Change Systems for Plastic Injection Machine



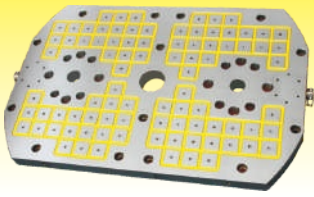
750T



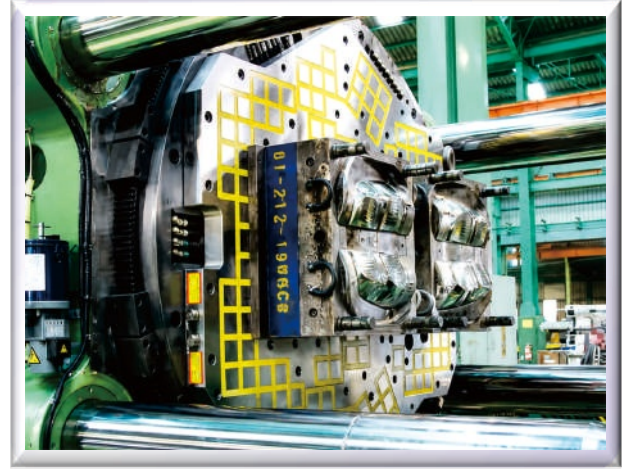
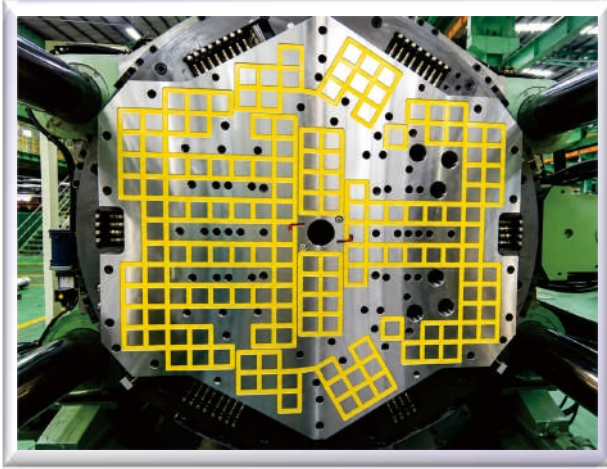
950T



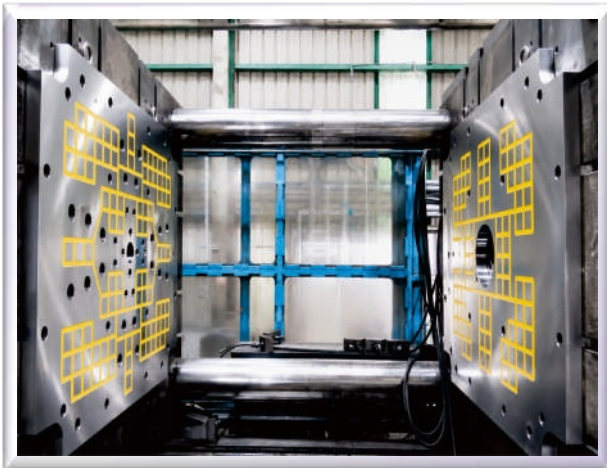
1200T



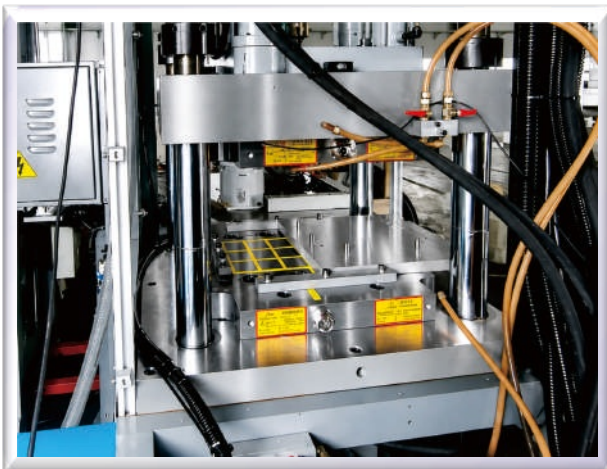
塑膠射出成型機快速換模系統 **EEPM-PIM** Quick Mold Change Systems for Plastic Injection Machine



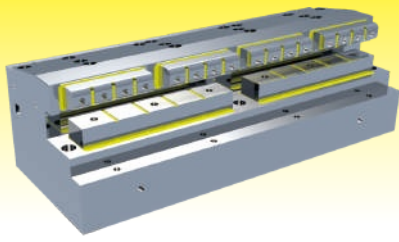
1600T



1800T



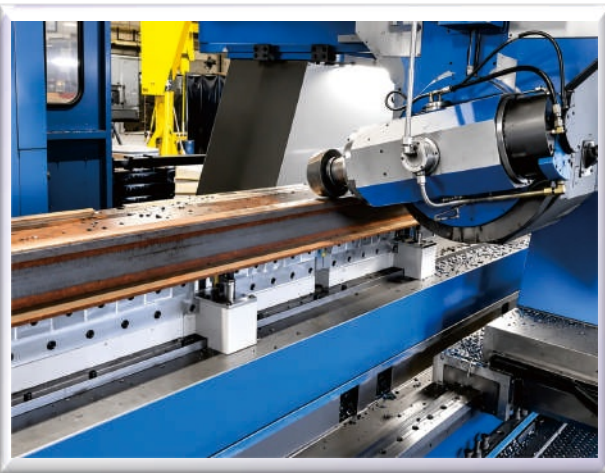
立式 Vertical



鐵軌加工應用實例 Railway Machining

EEPM-RW

應用實例 Practical Case



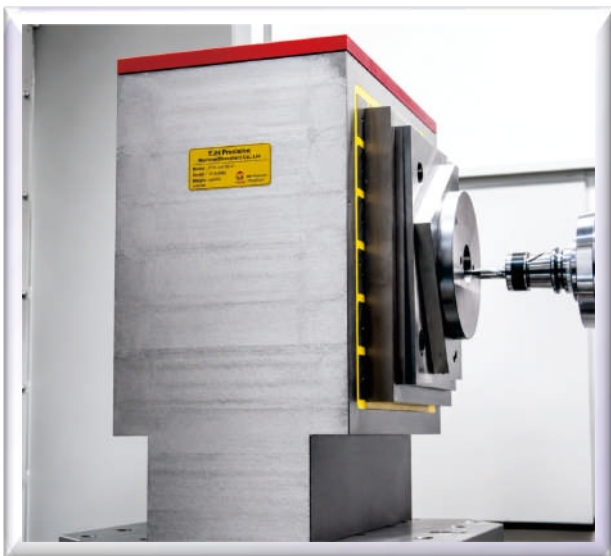
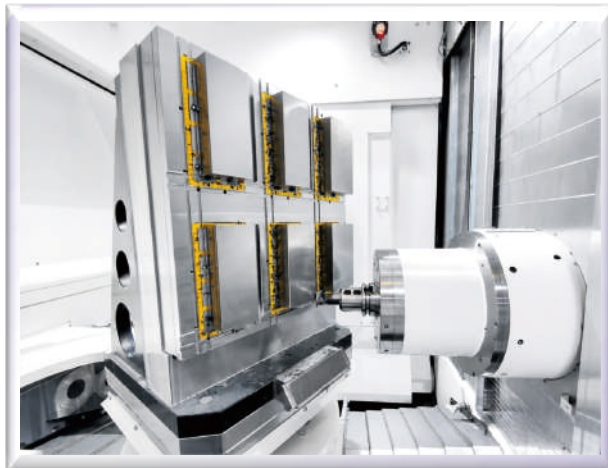
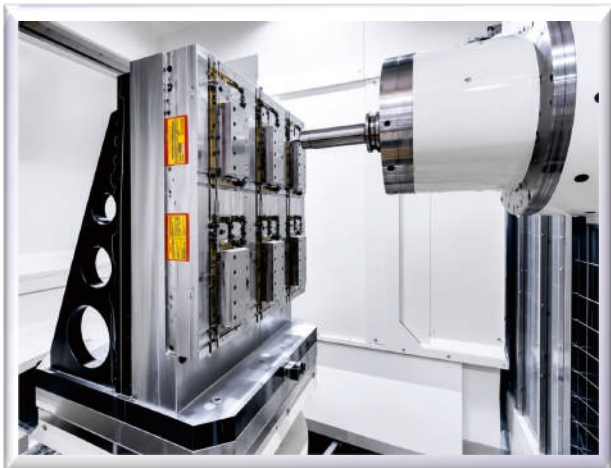


臥式加工應用實例 Horizontal Machining

EEPM-V

EEPM-V 系列
臥式側面加工應用

EEPM-V Series
Horizontal Applications

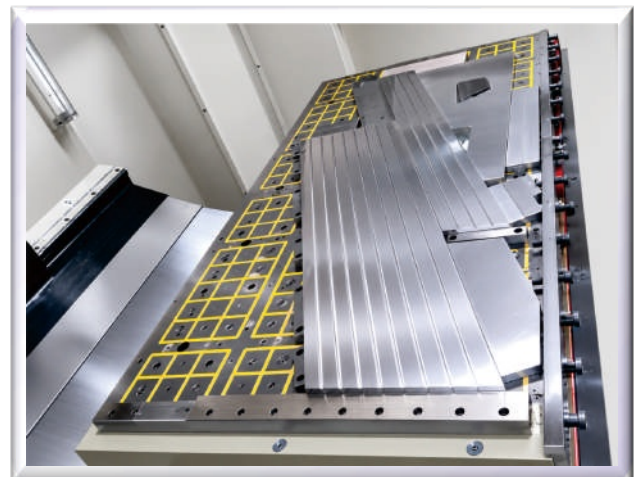
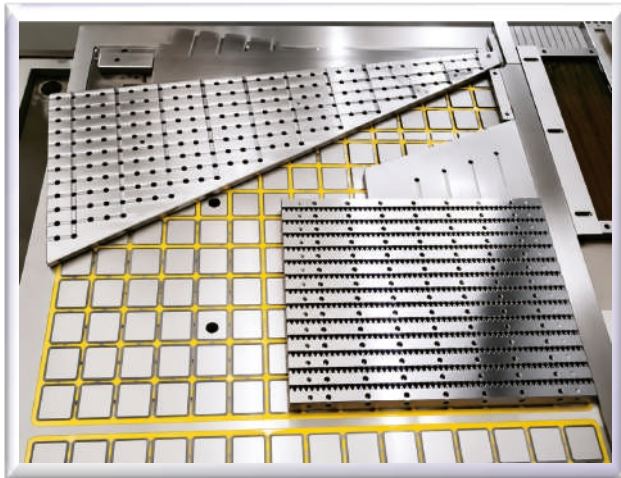
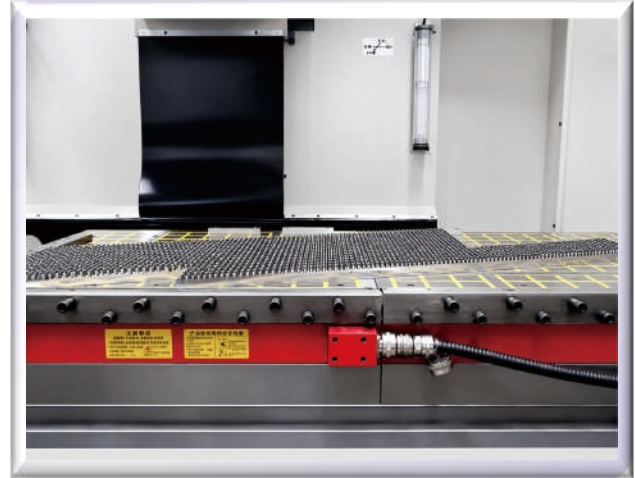




齒條加工應用實例 Rack Machining

EEPM

應用實例 Practical Case

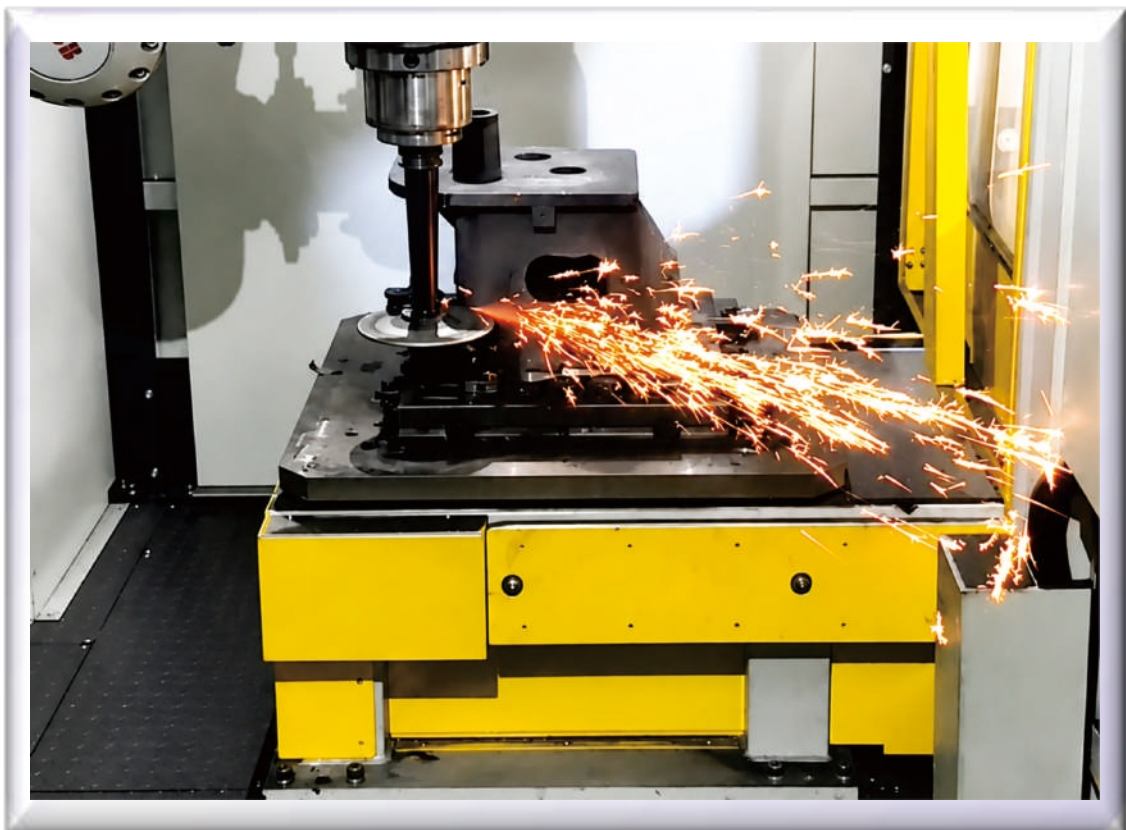




機械手臂加工鑄件應用實例 Machining Casting by Robotic Arm

EEPM

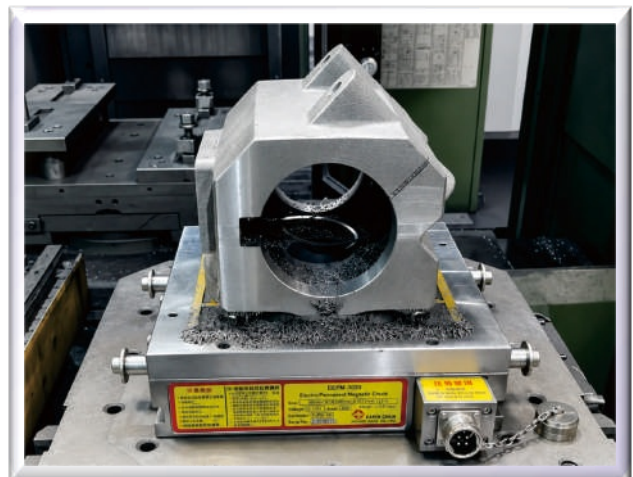
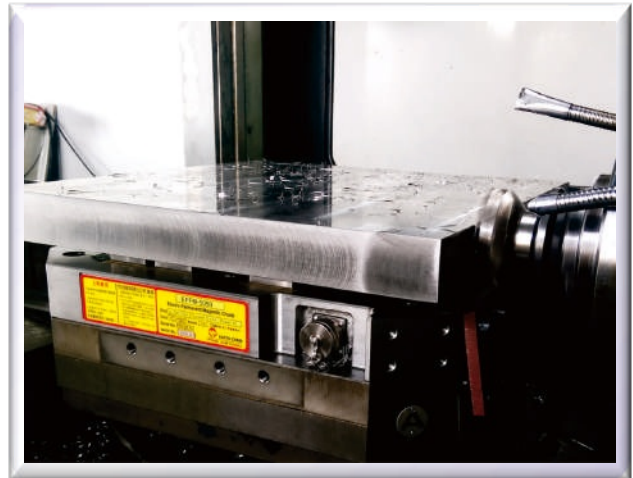
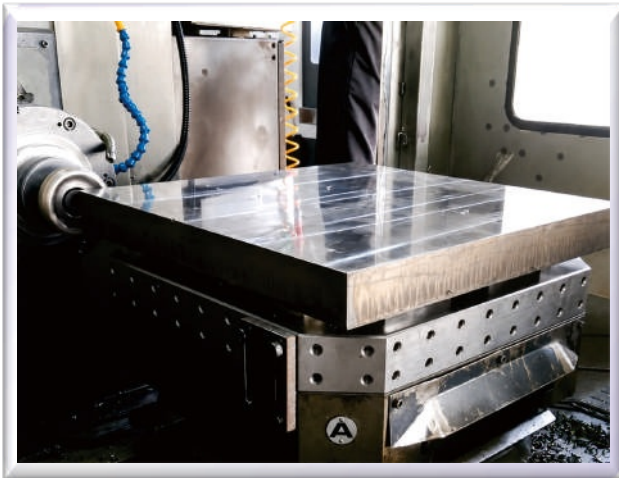
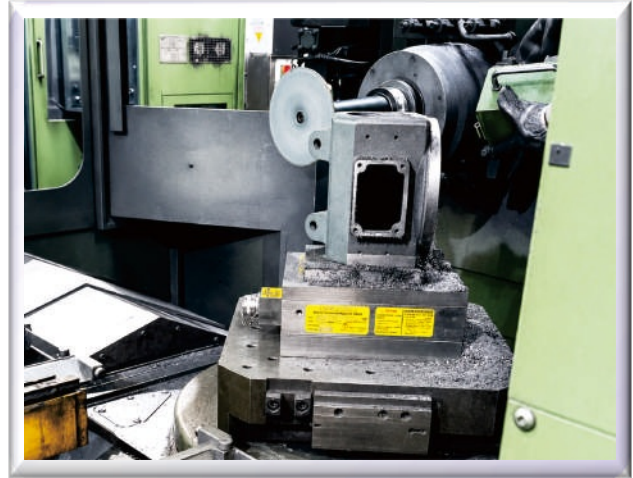
應用實例 Practical Case





交換台加工 EEPM Exchange Machining (Pallet Changer)

應用實例 Practical Case

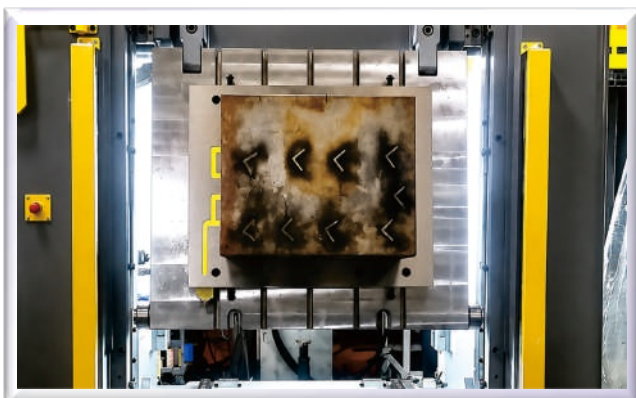
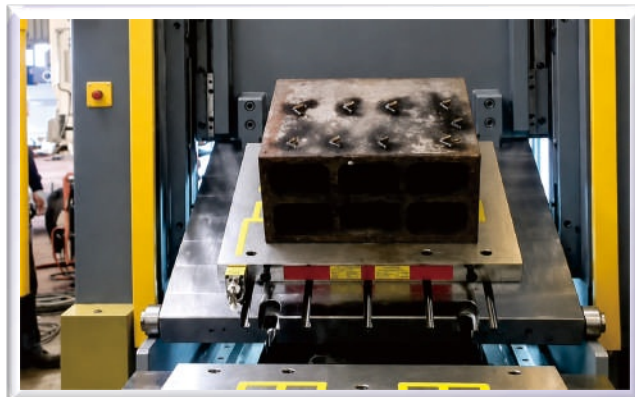




壓鑄機應用實例 Stamping Machine

EEPM

應用實例 Practical Case

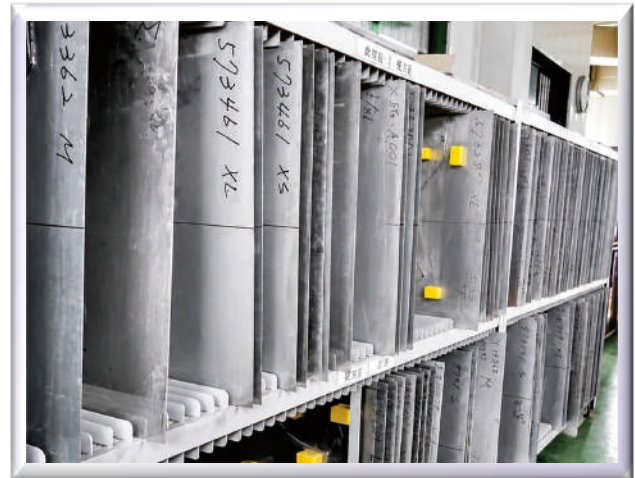
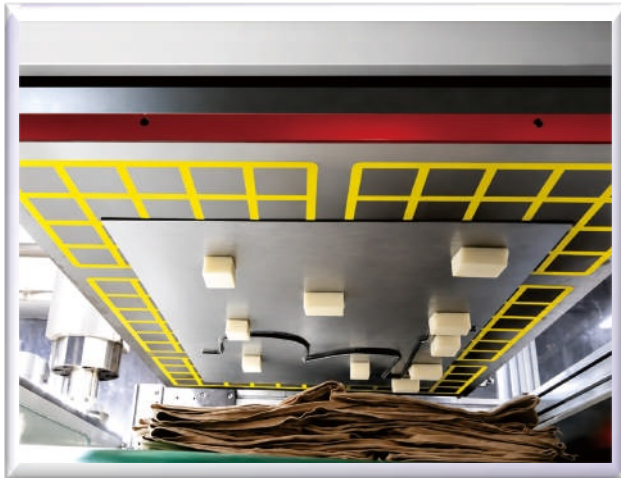




油壓裁切機應用實例 Die Cutting Machine

EEPM

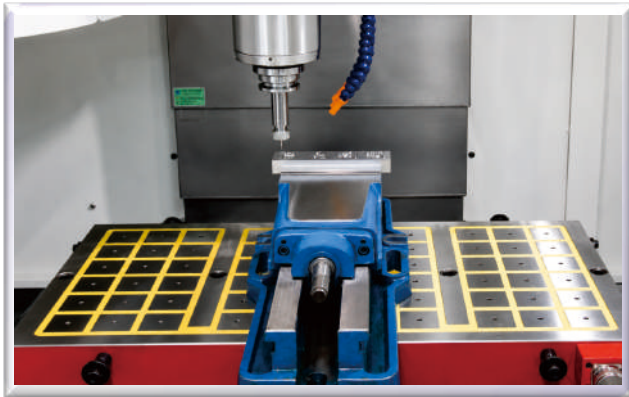
應用實例 Practical Case





虎鉗加工應用實例 Clamp Vise for Machining

EEPM



實例：

客戶在購買EEPM系列產品時，都會考慮將機台台面一邊放置磁盤一邊放置虎鉗，以便加工非導磁工件或小型工件時交替使用，其實客戶可將機台台面放滿磁盤，需用到虎鉗時，直接放置於磁盤上吸磁後就可進行加工。

優點：

機台台面全面磁盤時，如需使用虎鉗時直接吸附於磁盤上，反而無需固定螺絲時間；且台面全面磁盤應用，讓工件不論大、小變化時，皆能自由夾持，達到加工空間全面使用。

EXAMPLE:

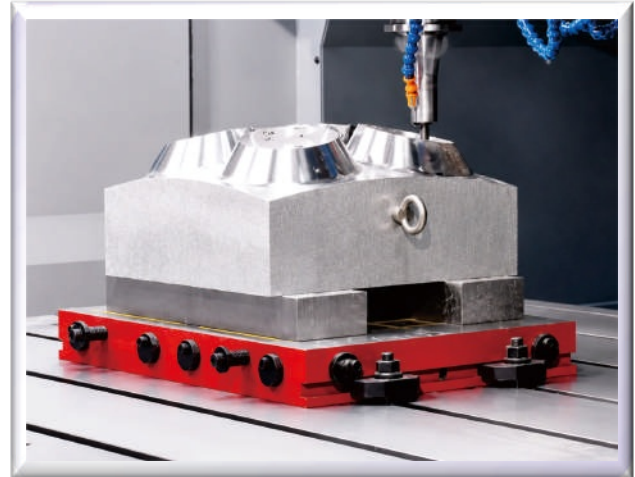
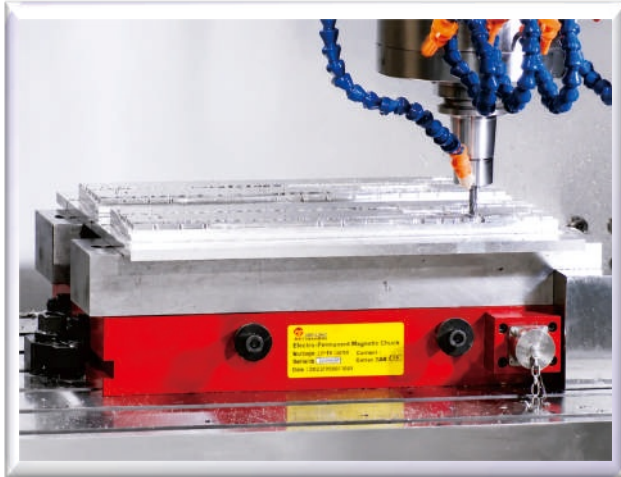
Deploy all machine table with EEPM chucks, put traditional vise on the chucks for nonmagnetic objects, Vise could be magnetised by EEPM chucks directly. Not need time to set up the vises by screws to reduce setting time. All machine table is paved with EEPM chucks for all dimension/shapes objects, use the chucks flexibly.



非導磁工件加工應用實例 Non-magnetic Workpiece Machining

EEPM

應用實例 Practical Case



實例:

在非導磁工件下方鎖上鐵材，再置於EEPM系列磁盤上進行吸磁動作後，便可進行加工動作。

優點:

無虎鉗夾持時刀具行進干涉困擾，無壓板耗時夾持麻煩；使用EEPM系列磁盤便可達到非導磁工件也能五面加工之功能，改善以往非導磁工件耗時費力傳統夾持方式。

EXAMPLE:

Fix a iron plate in the bottom of non-magnetic workpiece. The iron plate could be magnetized by EEPM chucks to do non-magnetic workpiece machining. Easy to set up, easy to do 5 sides machining.



模組化加工應用實例 Modular Machining

EEPM

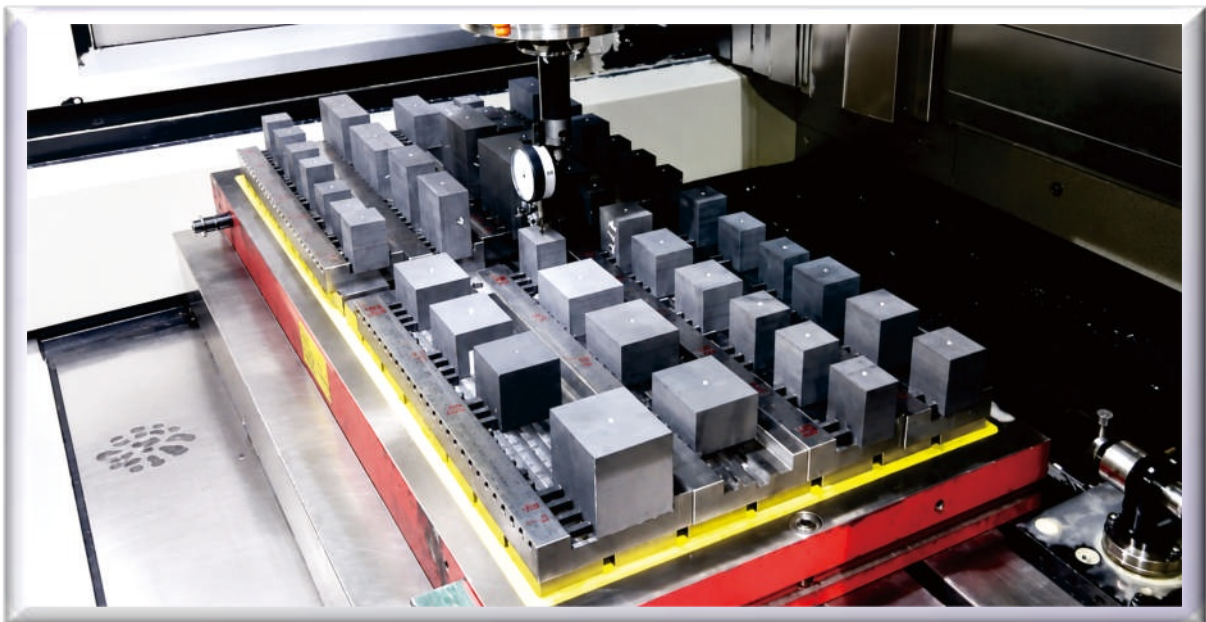


實例：

1. 客戶先將非導磁工件固定在鐵材治具板上。
2. 再將鐵材治具板置於磁盤上，吸磁後便可一次加工量產非導磁工件。

EXAMPLE:

1. Fix the non-magnetic workpiece on the iron material fixture.
2. Put the iron fixture onto the EEPM chuck. After magnetizing the chuck can do multi-piece of nonmagnetic workpiece machining at one time.



優點：

當加工機在加工工件時，操作人員可同時固定下一組欲加工工件，待機台上工件加工完成，就可直接洩料再上料加工，達到人員全時應用，機台無待料全時加工。

Advantage:

The operator can do next batch material setting during machining period after machining the operator can feed second batch material, no time wasting during material changing. Machine works full time no waiting for material.

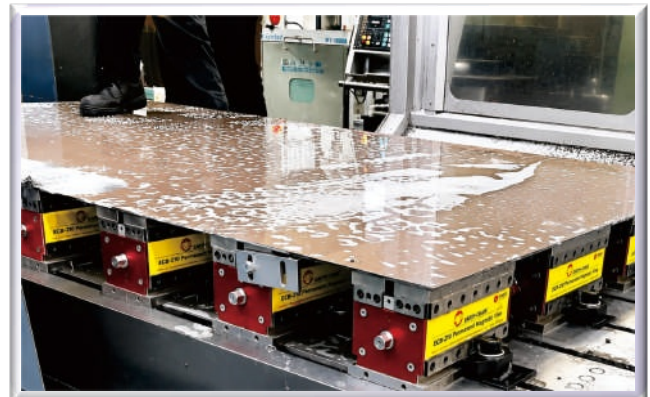
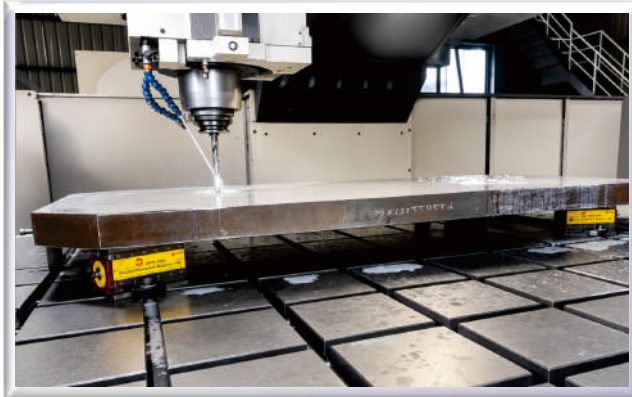


立式加工應用實例 Vertical Machining

ECB

龍門大型工件加工應用
(自由組合磁力夾具之數量、位置及間距)

Double Column Application
(Free to set up position, numbers and distance)





立式加工應用實例 Vertical Machining

ECB

龍門大型工件加工應用
(自由組合磁力夾具之數量、位置及間距)

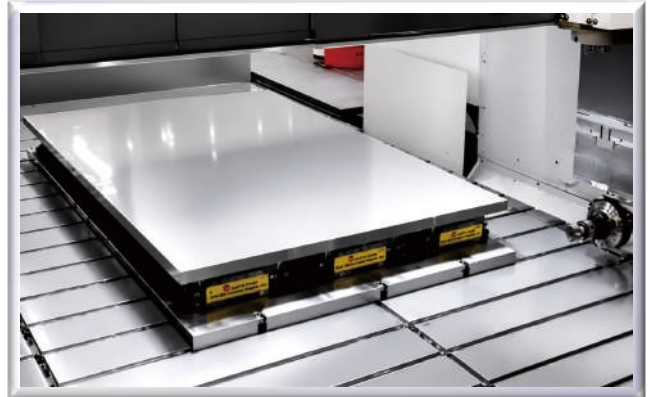
Double Column Application
(Free to set up position, numbers and distance)





立式加工應用實例 Vertical Machining

ECB

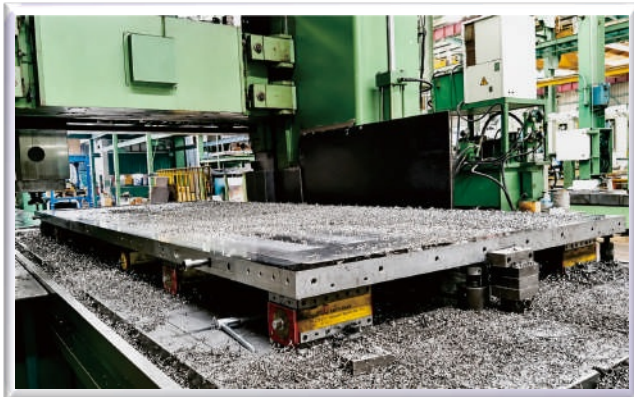




立式加工應用實例

Vertical Machining

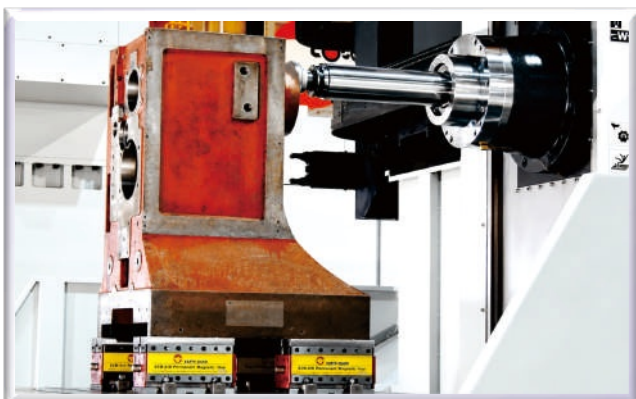
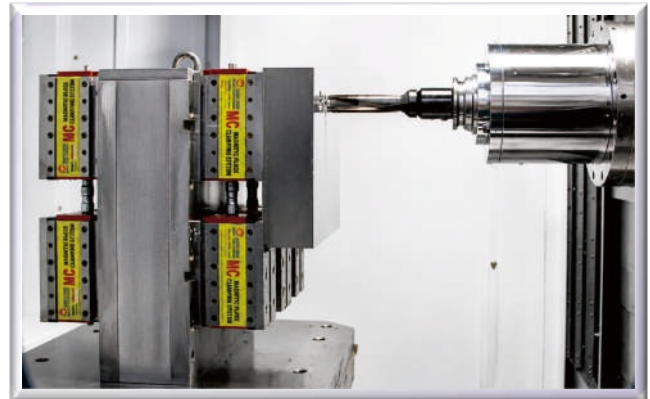
ECB





臥式加工應用實例 Horizontal Machining

ECB

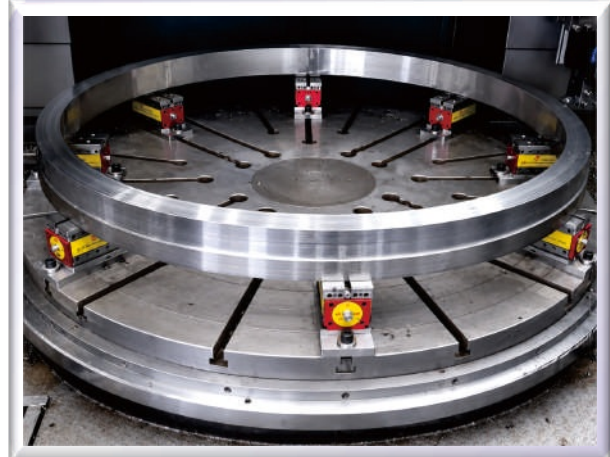
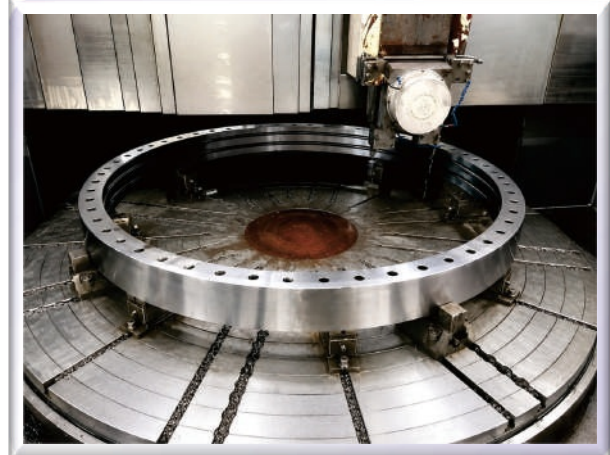
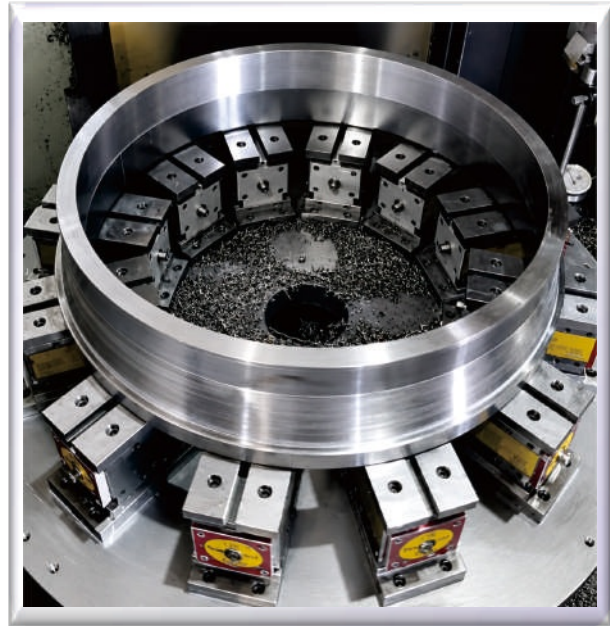
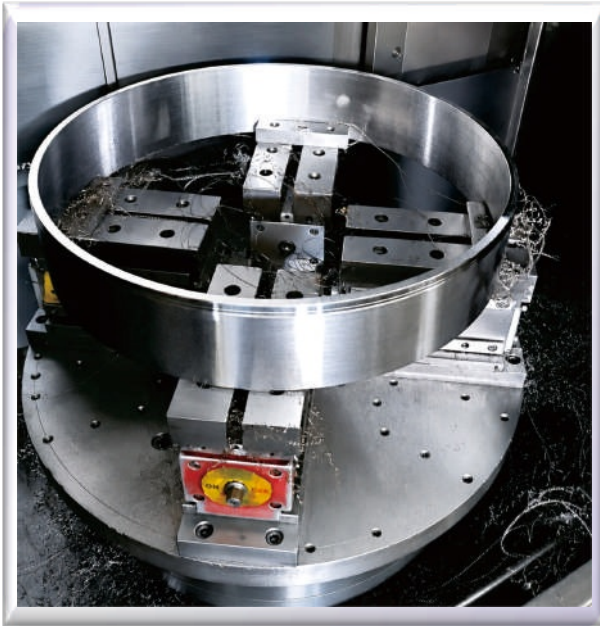




立式車床加工應用實例

Vertical Lathe Practical application

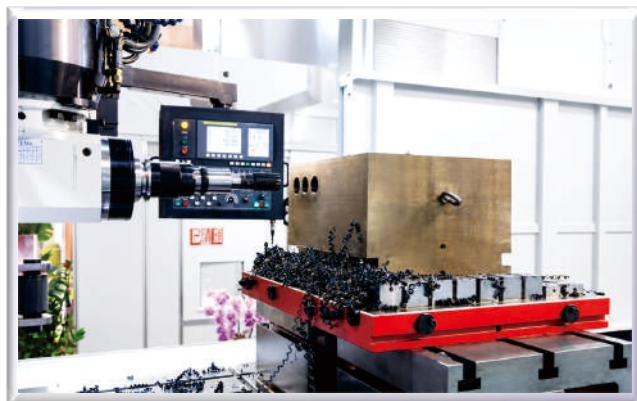
ECB





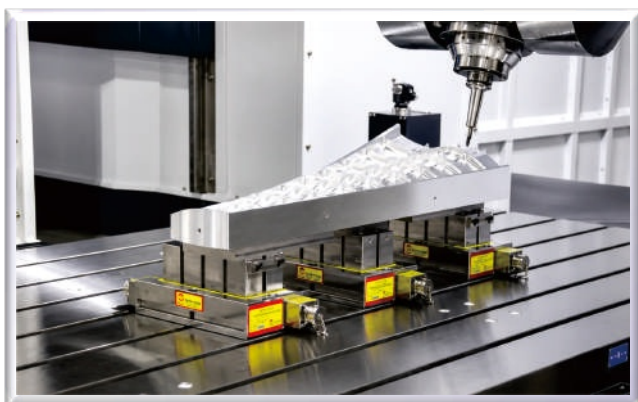
艾格瑪機械
AGMACHINE

MagVise 磁力夾具系統
Magnetic Workholding



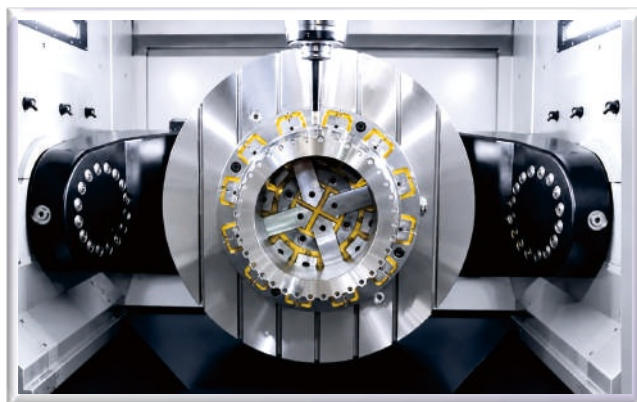
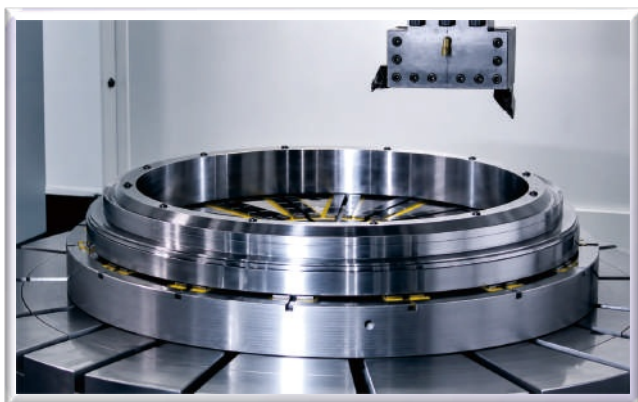
亞崴機械
AWEA

MagVise 磁力夾具系統
Magnetic Workholding



福裕機械
CHEVALIER

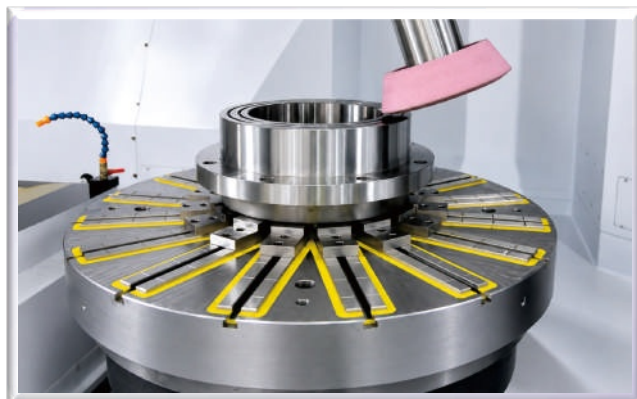
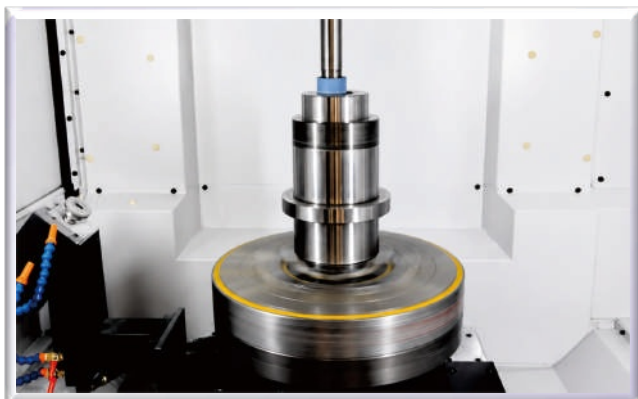
MagVise 磁力夾具系統
Magnetic Workholding





建瑋機械
CHIEN WEI

MagVise 磁力夾具系統
Magnetic Workholding



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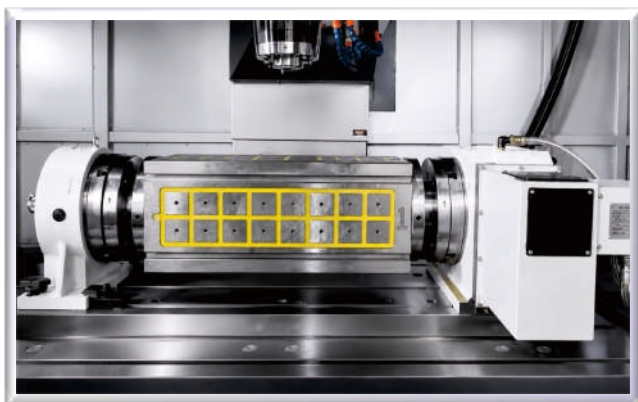
MagVise 磁力夾具系統
Magnetic Workholding



detron

德川機械
DETRON

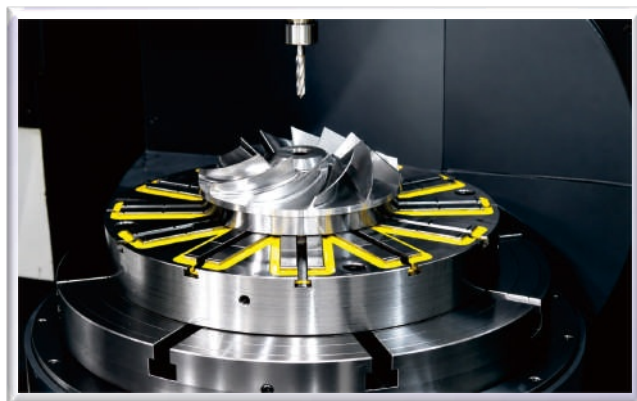
MagVise 磁力夾具系統
Magnetic Workholding





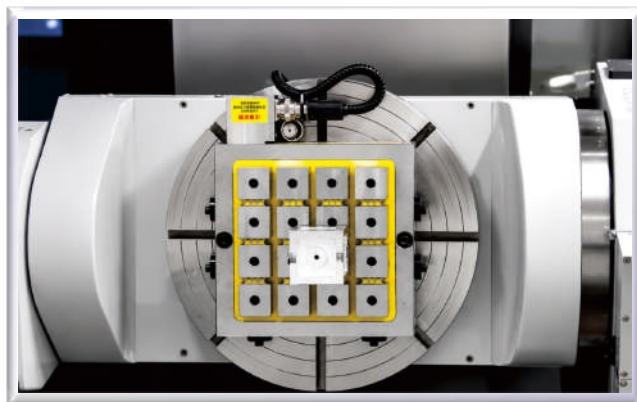
遠東機械
FEMCO

MagVise 磁力夾具系統
Magnetic Workholding



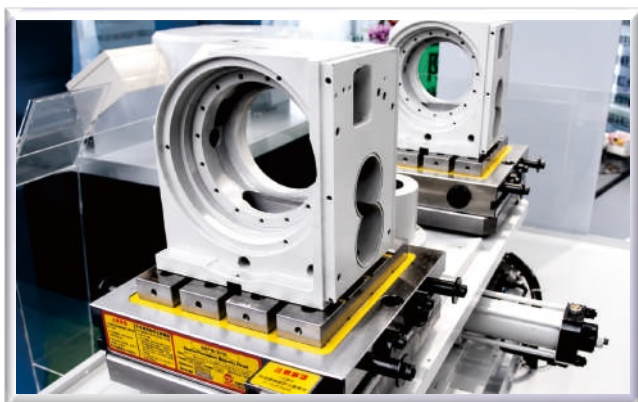
華銳機械
FOCUS SEIKI

MagVise 磁力夾具系統
Magnetic Workholding



亘隆國際精機
GANRO

MagVise 磁力夾具系統
Magnetic Workholding



Hartford

協鴻機械
HARTFORD

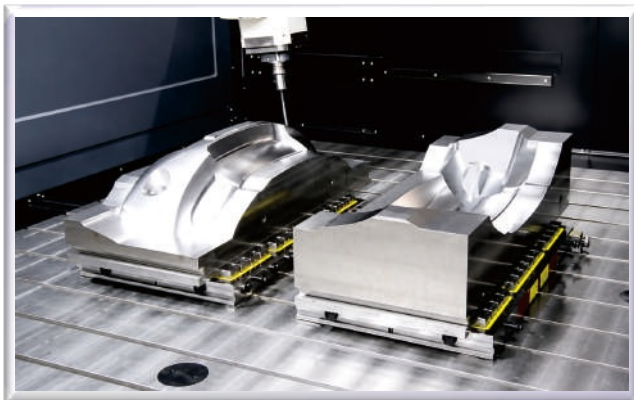
MagVise 磁力夾具系統
Magnetic Workholding



KAFO

高鋒機械
KAO FONG

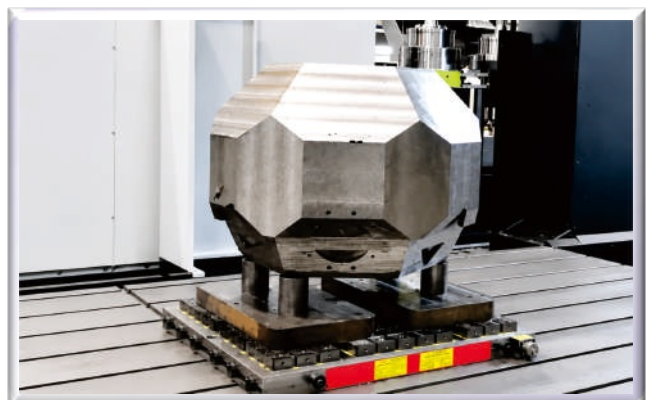
MagVise 磁力夾具系統
Magnetic Workholding



KAOMING

高明機械
KAO MING

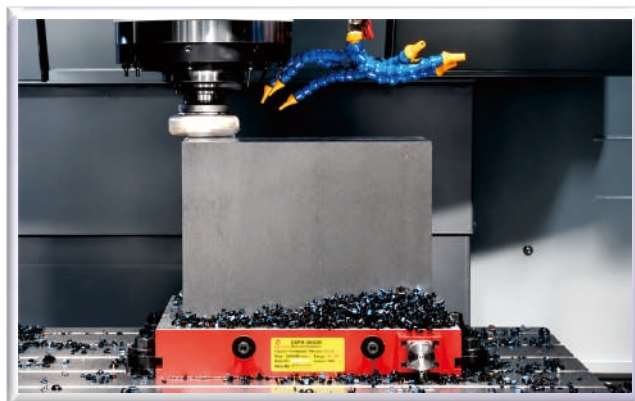
MagVise 磁力夾具系統
Magnetic Workholding





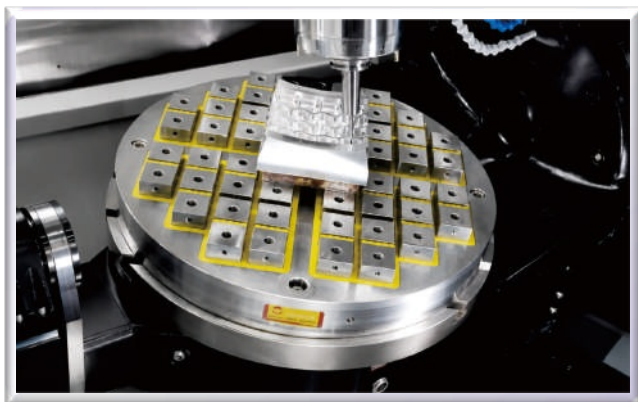
常準機械
MAXIMART

MagVise 磁力夾具系統
Magnetic Workholding



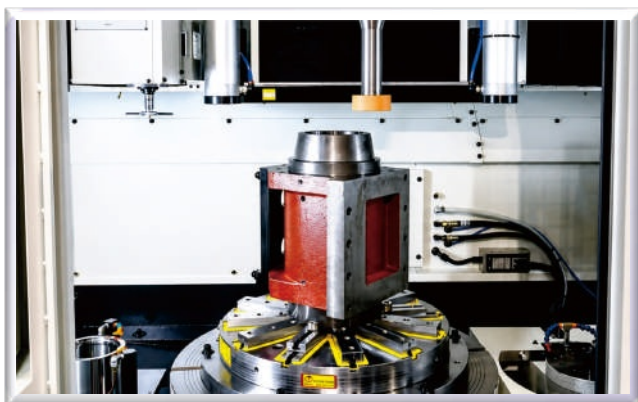
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MILLSTAR

MagVise 磁力夾具系統
Magnetic Workholding



大光長榮
PALMARY

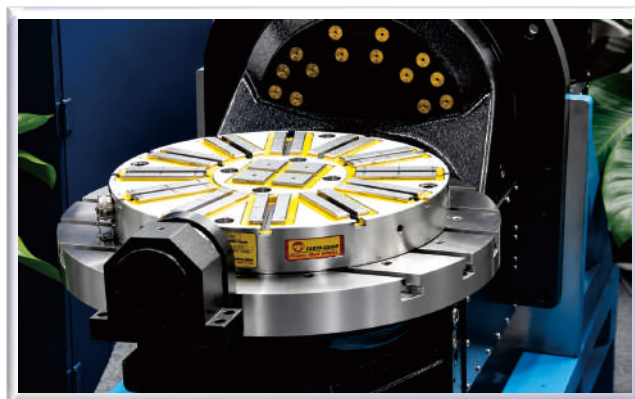
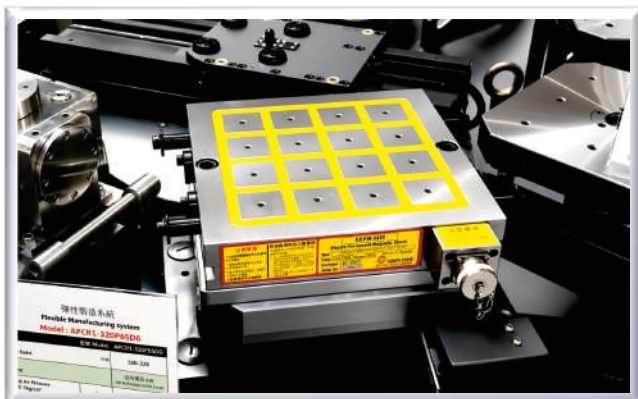
MagVise 磁力夾具系統
Magnetic Workholding





寶嘉誠工業
PARKSON

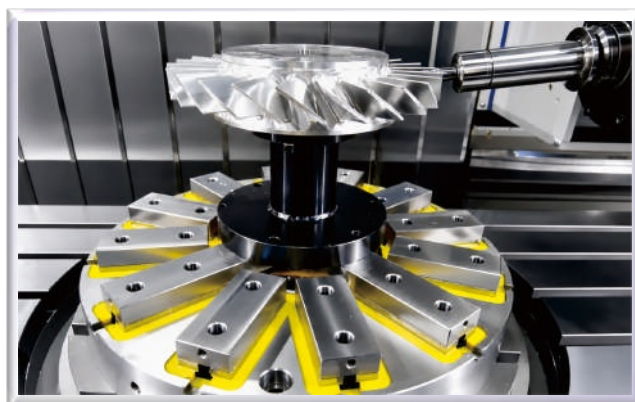
MagVise 磁力夾具系統
Magnetic Workholding



QUASER

百德機械
QUASER

MagVise 磁力夾具系統
Magnetic Workholding



榮富工業
RONG FU

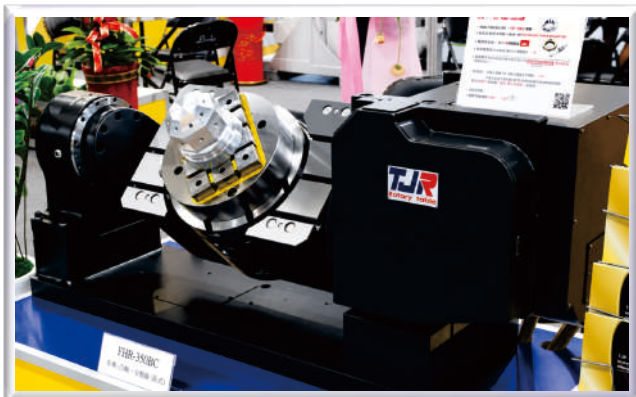
MagVise 磁力夾具系統
Magnetic Workholding





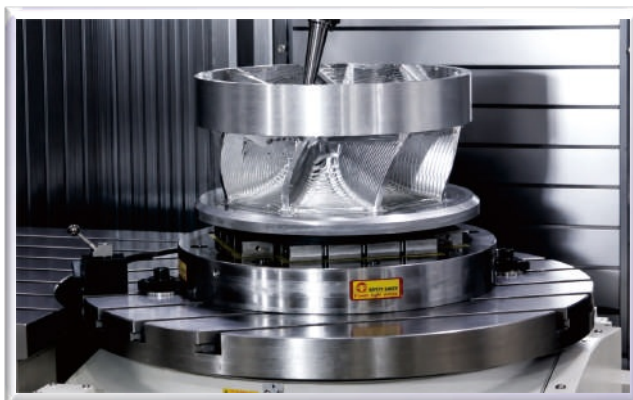
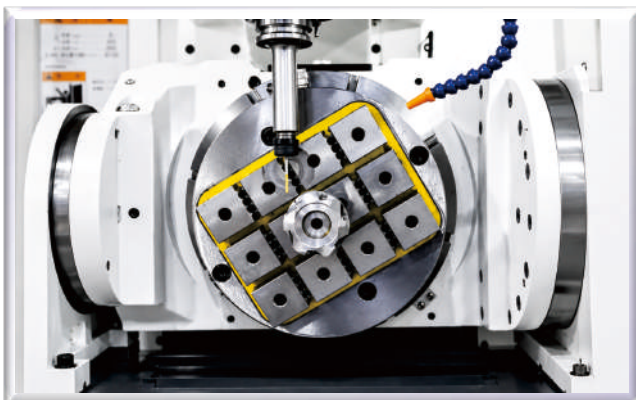
潭佳精密
ROTARY TABLE

MagVise 磁力夾具系統
Magnetic Workholding



台中精機機械
VICTOR TAICHUNG

MagVise 磁力夾具系統
Magnetic Workholding



喬威進機械
VISION WIDE

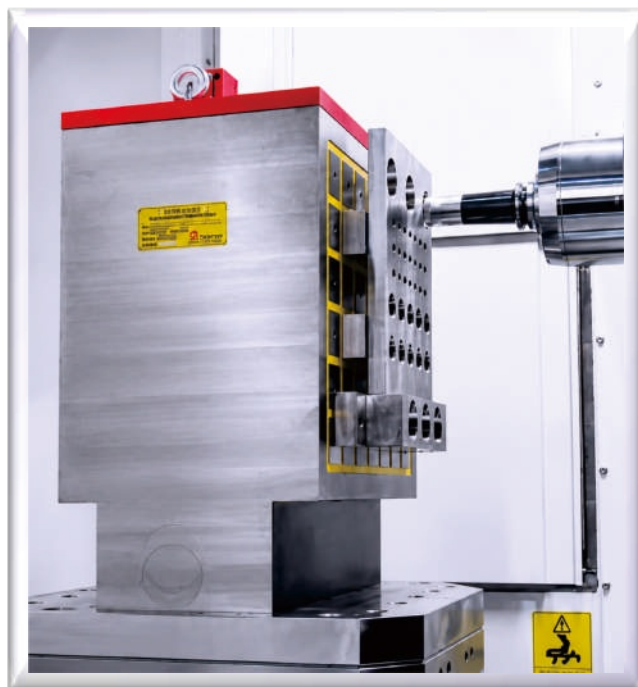
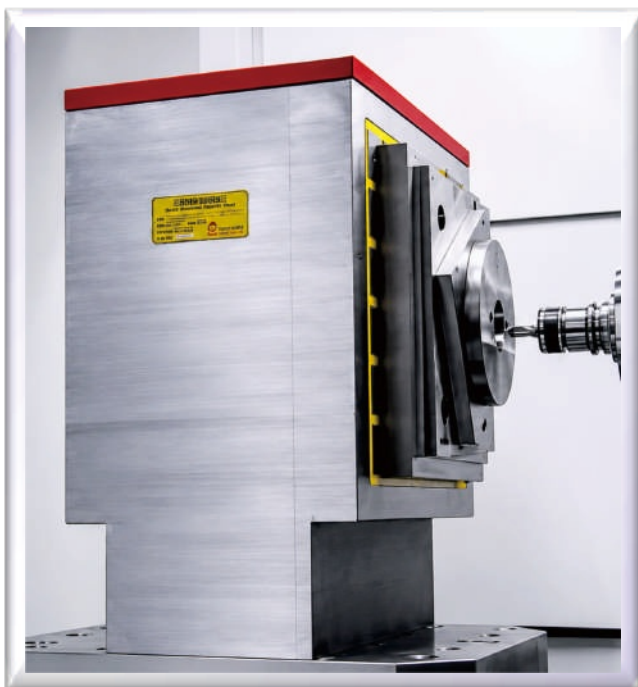
MagVise 磁力夾具系統
Magnetic Workholding





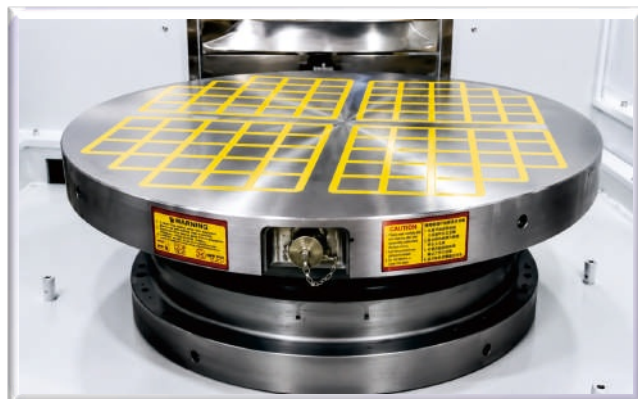
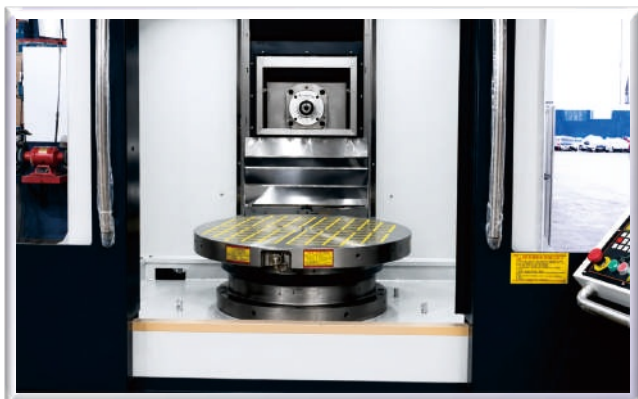
楊鐵機械
YANG IRON

MagVise 磁力夾具系統
Magnetic Workholding



眾程科技
ZHONGCHENG

MagVise 磁力夾具系統
Magnetic Workholding





Mag Vise 磁力夾具系統
Magnetic Workholding

EEPM

永磁式電控磁盤
Electro-Permanent Magnetic Chuck

ECB

永磁式磁力工作台
Permanent Magnetic Clamping Block



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