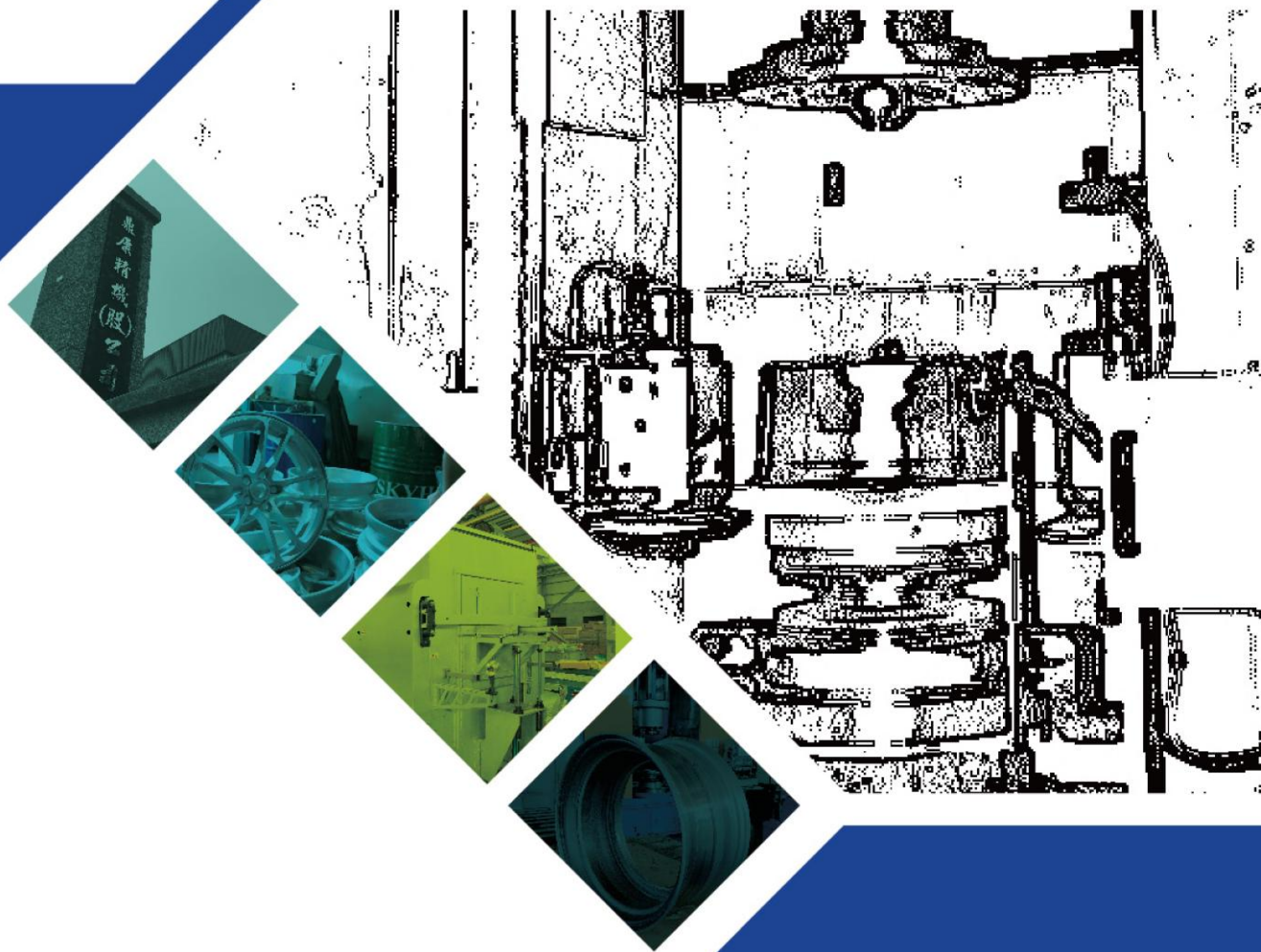




鼎康精機股份有限公司
DIN-KO MACHINERY CO., LTD

鼎康旋壓系列

FLOW FORMING SERIES



宏驹智能科技（浙江）有限公司
HONGJU INTELLIGENT TECHNOLOGY (ZHEJIANG) CO., LTD

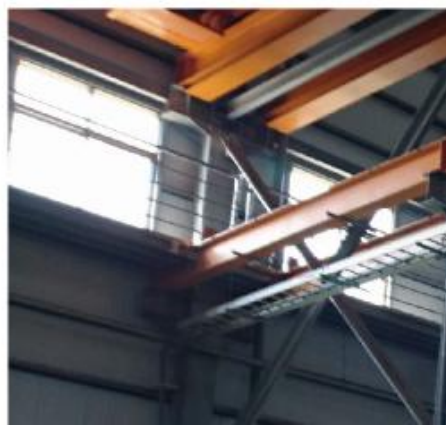


公司簡介

About us



鼎康精機股份有限公司，創立於2012年4月12日，秉持著與時俱進的精神不斷的創新及進步，從台灣第一台立式三滾輪旋壓機到完整的生產線整合及教鑰匙工程都是鼎康對「創新」所追求下的產物。透過導入德國高端技術，不只是開發出具備德系血統的產品，更是把德國一絲不苟的精神注入了鼎康精機的企業管理中。承襲著德國對於品質的苛求及台灣人靈活的應變，鼎康兼具兩家之長打造出大氣以及精巧的產品。





DIN-KO MACHINERY CO., LTD was founded on April 12th 2012. With the eager of keeping abreast of time, innovation is embedded into our company philosophy. Starting from the building of the first 6-axis vertical flow forming machine in Taiwan to the formation of a complete production cell with turn-key solution, DIN-KO never settled with our progression. As we tried to break through the old concept and outmoded technology, we not only brought high-end technology from Germany to our creations but also infused its spirit and rigorous into our company culture. With the combination of flexibility of the Taiwanese and precision of the German, DIN-KO is capable of forging delicate and outstanding product with world's leading solution and services.



DIN-KO FLOW FORMING

MADE FOR WHEEL, BUT MUCH MORE



鼎康精機旋壓機系列
DIN-KO FLOW FORMING SERIES

產品種類

Product Type

- ▶ 立式鑄造旋壓系列
Vertical Flow-forming **Cast Series**
- ▶ 立式鍛造旋壓系列
Vertical Flow-forming **Forge Series**
- ▶ 旋壓機周邊配備
Flow-forming **Accessory Equipment**
- ▶ 鋁輪圈夾治具系列 (**HOM TECH SERIES**)
Hydraulic Finger Chuck **for Aluminum wheel**

產品優勢

Product Advantages

- ▶ 德系規格
產品重要零組件皆採用德國進口或同級品，同時以德國規範配置其組裝及加工。
- ▶ 完整技術轉移
旋壓技術以鑰匙工程規劃傳授教育訓練及模具設計。
- ▶ 完整生產規劃
提供鑄造及鍛造鋁輪圈生產線整廠輸出規劃服務。
- ▶ 快速售後服務
亞洲地區提供48小時內緊急回應，並在了解具體情況後派出維修工程人員。
- ▶ 購機前打樣服務
我們提供打樣服務，讓顧客在決定購買前，先一步看到商品以確保品質符合期待。

- ▶ **German Standard**
Not only all critical components were German made or same grade, but also assembled and processed with German specification.
- ▶ **Complete Technology Transfer**
We promise to deliver our flow forming know-how via turnkey project from the fundamental operation to the advanced tooling design.
- ▶ **Total Solution**
We provide consulting and planning service for both cast and forged aluminum wheel production line.
- ▶ **Rapid After-Sales Service**
We offer emergency response for urgent situation within 48 hours. A group of maintenance engineers will be sent out after detail and sufficient information were obtained.
- ▶ **Provides Commissioning and Sampling**
We allow pre-commissioning and sampling before the order was placed. This allow our clients to ensure the final quality meets their expectation.





產品種類

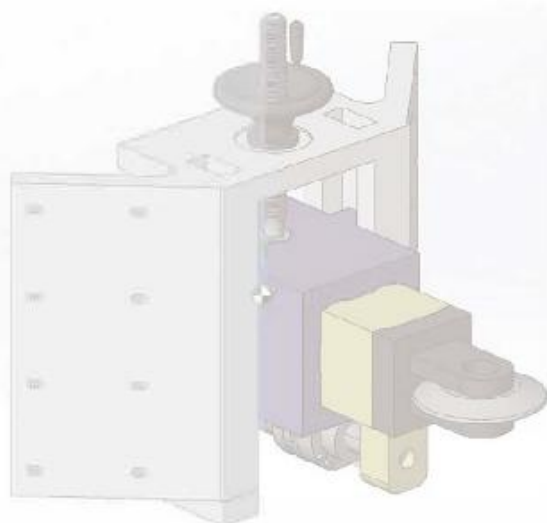
Product Type

►立式雙滾輪鑄造旋壓機

鼎康精機雙滾輪旋壓機設計針對鑄造轎車以及鍛造機車輪圈，以四軸同步驅動旋壓成形。

除基本配置外，亦可於主軸後方選配剖刀成形滾輪輔助成型鍛造機車輪圈。

雙滾輪旋壓機搭配旋壓專屬周邊即成為一套自動化旋壓生產線。



型號 Model	VFFM700H-4AXIS
類別 Type	雙滾輪鑄造旋壓 2 Roller for cast aluminum wheel
說明 Description	基本配置 Basic
控制系統 Control System	SIEMENS 840D SL
驅動系統 Driving System	油壓 伺服 Hydraulic Servo
旋壓滾輪數量 Number of Rollers	2
適用輪圈大小 Wheel Size	16~22"
適用輪圈高度 Wheel Height	7~12J
主軸驅動功率 Spindle Driving Power	110kW

►Vertical 2-roller Basic Flow-forming Machine

DIN-KO two roller flow-forming model is design exclusively for cast aluminum car wheel and forged motorcycle wheel via flow form simultaneously with 4-axis.

Despite the standard setup, an optional splitting unit can be equipped located at the back of the main spindle for forged motorcycle production line.

Combining with Flow-forming accessory equipment, a set of automatic flow forming cell is completed.





產品種類

Product Type

▶立式三滾輪鑄造旋壓機

相較於基本兩滾輪機型：

- 加工速度及材質變化。
- 主軸馬力較大，進幾率提高，所以較雙滾輪加工速度快。
- 加速鋁料流動，三滾輪分攤負載以更大壓力加工成型。
- 尾座推力大，及多一油壓缸配置更適合『上旋壓』。

可配合特殊成型輪或分裂模具加工形狀：

- 反裝輪
- 剖刀成形滾輪
- 分裂模旋壓成型

型 號 Model	VFFM700H-6AXIS
類 別 Type	三滾輪鑄造旋壓 3 Roller for cast aluminum wheel
說 明 Description	快速加工、特殊造型 Fast cycle time & Special Profiting
控制系統 Control System	SIEMENS 840D SL
驅動系統 Driving System	油壓伺服 Hydraulic Servo
旋壓滾輪數量 Number of Rollers	3
適用輪圈大小 Wheel Size	18~26"
適用輪圈高度 Wheel Height	7~12J
主軸驅動功率 Spindle Driving Power	135kW

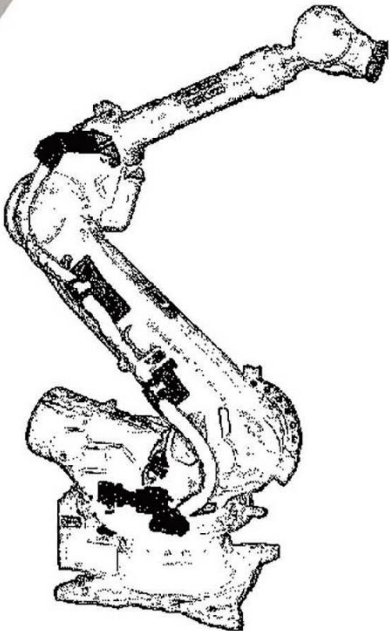
▶Vertical 3-roller Standard Flow-forming Machine

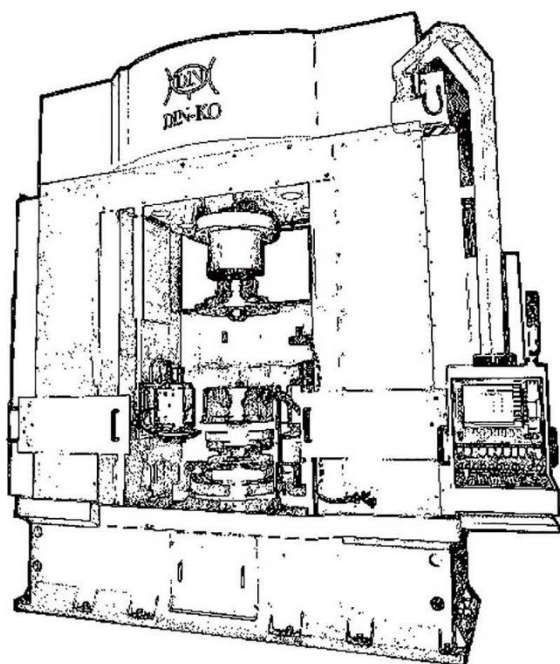
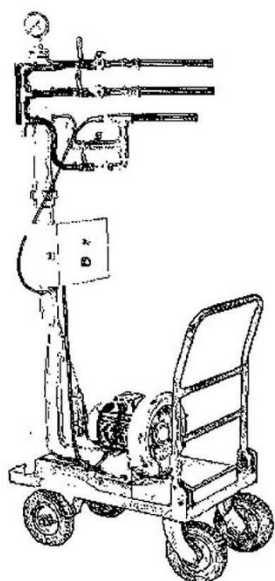
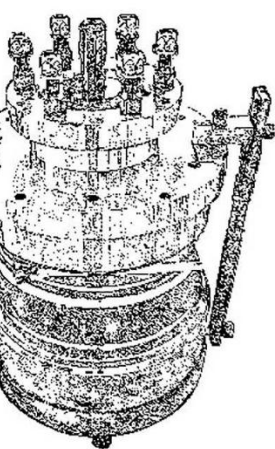
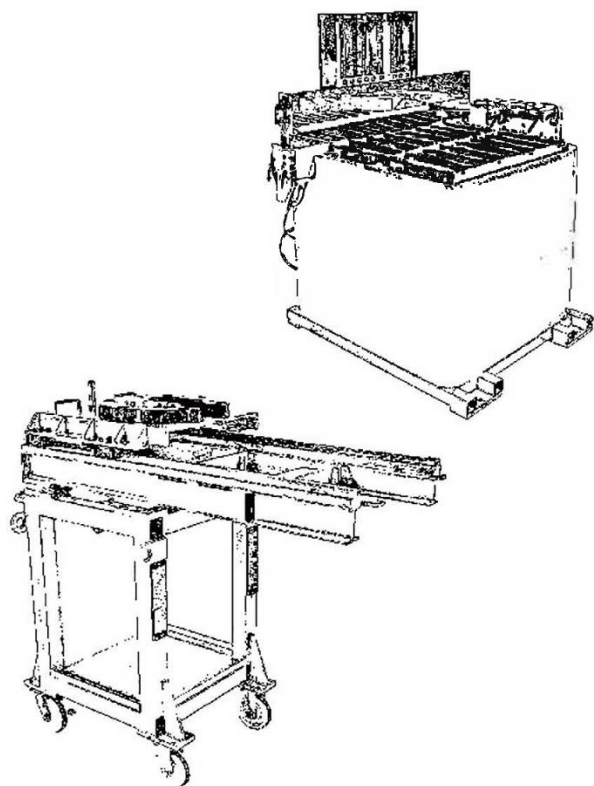
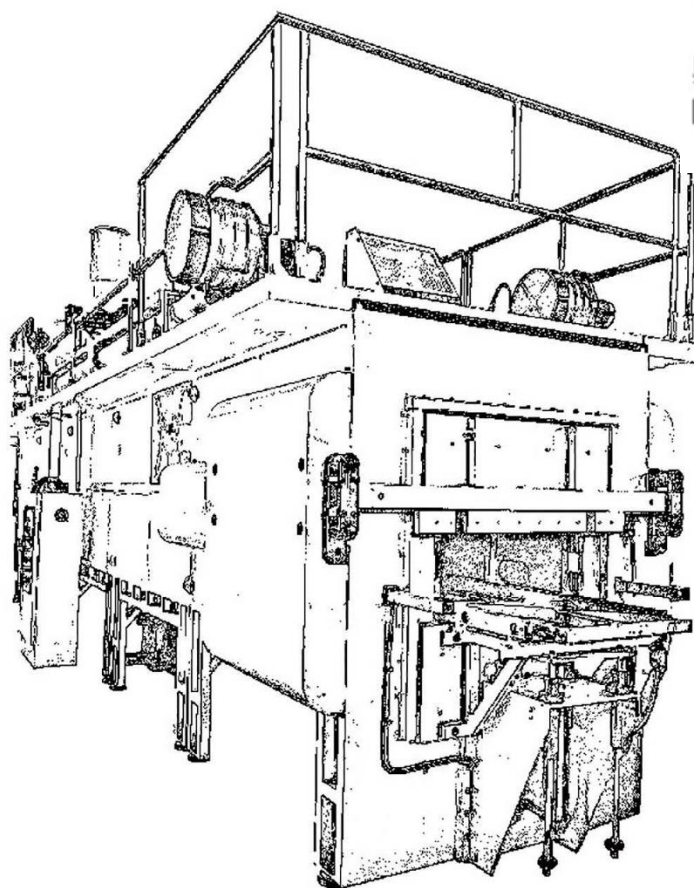
Compare to the basic 2-roller machine:

- Improvement in cycle time and mechanical property.
- Faster spindle power with higher feed rate
- Aluminum material flows faster, and the 3-roller shares the load for higher processing pressure.
- Higher force on tailstock, and equipped with an additional cylinder makes the machine capable of upward flow forming.

Compatible with special profiling roller or segment tooling:

- Splitting unit
- Undercut wheel
- Front face reverse wheel





產品種類

Product Type

▶ 立式雙主軸三滾輪旋壓機

機型優勢：

- 此機型為配置上下雙主軸的高功率鍛造機型，配合鑄造周邊配件可實現鑄造及鍛造混線生產。同步驅動功率達245kW亦可適用於生產鋼或鎂合金輪圈。

可配合特殊成型輪或分裂模具加工形狀：

- 分裂模旋壓成型
- 反裝輪
- 剖刀成型滾輪

▶ Vertical Dual-spindle Advanced Flow-forming Machine

- This machine is equipped with both upper and lower spindle drive for heavy duty workload. With the combining force via synchronize drive, a driving power of 245 kW allows a smooth production process even for steel or Magnesium alloy. Moreover, a mix production line of both casted and forged aluminum can be achieved when equipped with our casting line accessories.

Compatible with special profiling roller or segment tooling:

- Splitting unit
- Undercut wheel
- Front face reverse wheel

型號 Model	VFFM700HC-6AXIS
類別 Type	鑄鍛通用型+鋼/鎂合金 Cast & Forged + Steel/Magnesium Alloy
說明 Description	高強度旋壓配置 Heavy Workload Setup
控制系統 Control System	SIEMENS 840D SL
驅動系統 Driving System	油壓伺服 Hydraulic Servo
旋壓滾輪數量 Number of Rollers	3+1
適用輪圈大小 Wheel Size	18~26"
適用輪圈高度 Wheel Height	7~16J
主軸驅動功率 Spindle Driving Power	110kW+135kW

▶ 旋壓機周邊配備

旋壓輪胚預熱爐

- 採模組分截式設計，運送到廠後，不需在客戶廠內再度加工。因在原廠充分測試，保證其穩定及低耗能特性。

旋壓模預熱爐

- 強化混線生產效率。於前一生產線生產期間，預先加熱模具並配合快速換模台車以達到25分鐘內生產線切換。

盤面泡水機&成品泡水機

- 完整自動化旋壓生產線之配件，於鼎康廠內預先完成連線及測試，最快5天內可完成與旋壓機及預熱爐連線並進入生產狀態。

▶ Flow-forming Machine Accessories

Preform preheating oven

- Utilized modularized segment design. Reconstruction in client's factory is unnecessary. Sufficient trial runs were performed at the original manufacturer to ensure its stability and low energy consumption.

Tooling preheating oven

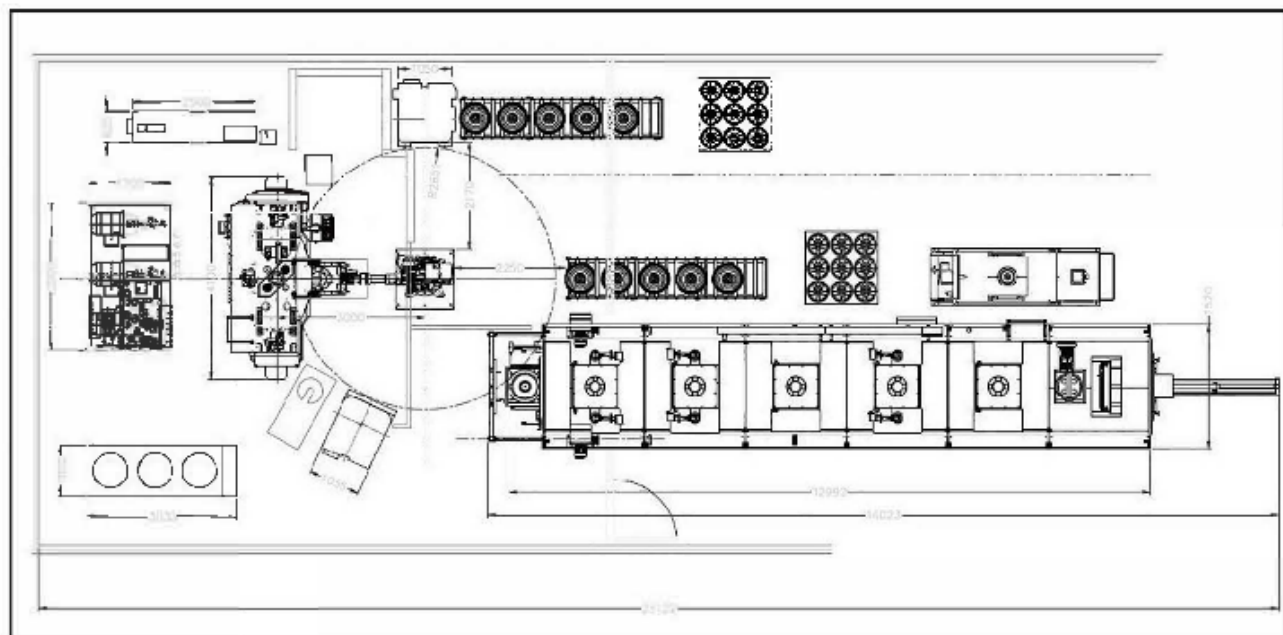
- Strengthen the efficiency of mixed production line. While the first production line is in production, the tooling will be preheated and combined with the tooling changing cart to achieve production line switch within 25 minutes.

Front face cooling tank and wheel cooling tank

- Exclusive accessory equipment for automation line integration. The test run and connectivity will be fully executed in house before delivery. With sufficient support from the client, a minimum of 7 days of setup time can be achieved to enter the production state.

► 旋壓生產線導入作業

Flow-forming Production Line Implementation



旋壓生產線建議配置 *Standard flow-forming line configuration*



服務標準流程

Standard Service Flow

鼎康次世代 伺服油壓雙滾輪旋型機

DIN-KO NEXT GEN. SERVO HYDRAULIC FLOW FORMING MACHINE VF300SAR-4AXIS

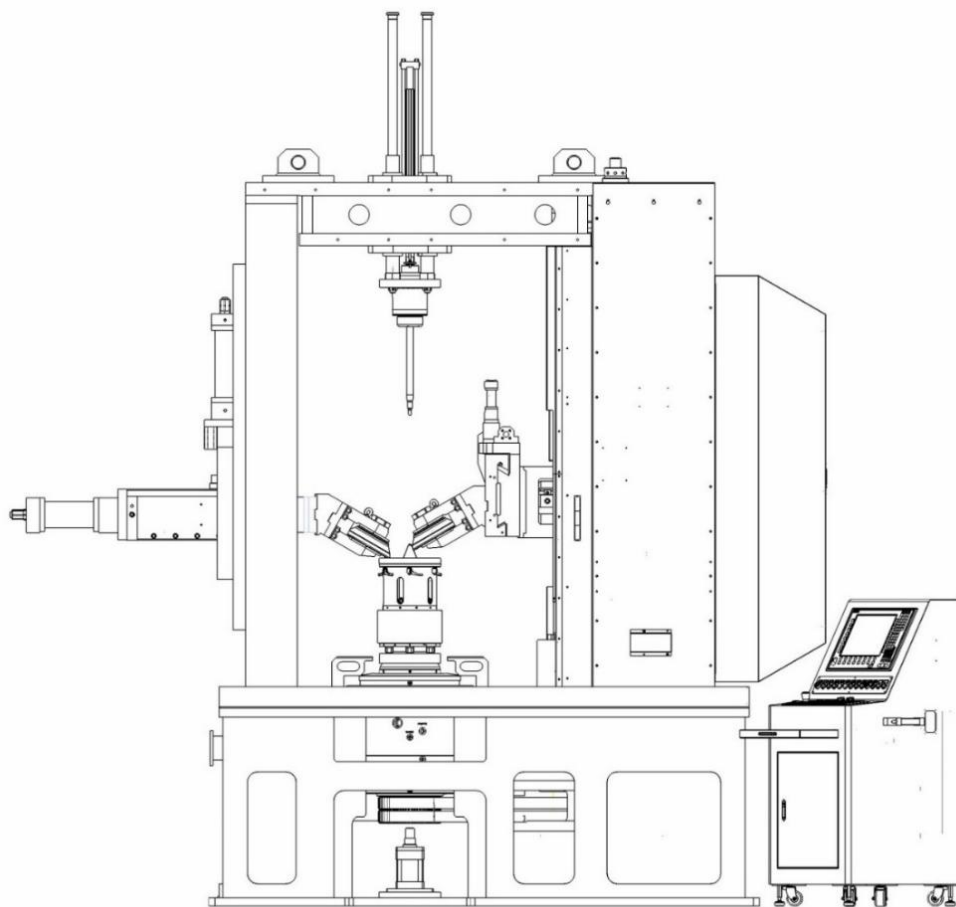


功能及產品介紹 2024 NEW ARRIVAL

鼎康精機旋壓機系列
DIN-KO FLOW FORMING SERIES



VF300SAR 結構示意圖 Structural reference of VF300SAR



相較於他廠，鼎康均採用德系配置及安全標準。

DIN-KO provide German level standard and quality:

- 伺服油壓給予安全穩定的動力源。
Servo hydraulic control for stable process force.
- 高剛性及高支撐性的滾輪座。
High rigidity and stable support structure.
- 選配模組可調整製程變化的靈活性。
Modularized design for customization and flexibility.
- 博士力士樂次世代智慧節能型油壓單元。
Partner with Bosch Rexroth for smart and hydraulic system.

鼎康精機旋壓機系列

DIN-KO FLOW FORMING SERIES



VF300SAR-4AXIS 強力通用旋壓中心

Versatile flow forming center

外觀示意圖
Machine reference



鼎康精機旋壓機系列
DIN-KO FLOW FORMING SERIES



VF300SAR-4AXIS 強力通用旋壓中心

Versatile flow forming center

技術規範

General technical specification

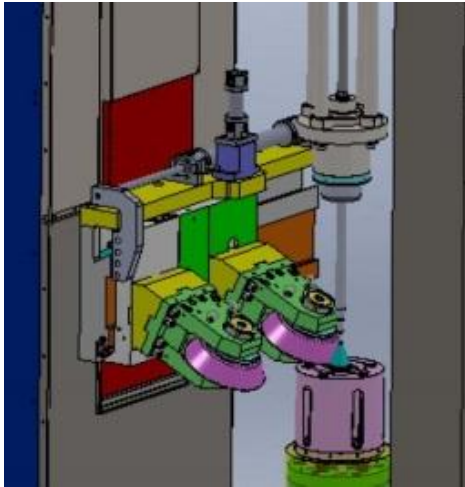
機台尺寸 Machine dimension	4150L x 2100W x 3750H (4400H)
工件最大寬度 Max. width of workpiece	300 mm
工件最大高度 Max. height of workpiece	250 mm
主軸介面 Spindle interface	A2-11
主軸驅動 Spindle drive	110 kW
最高主軸轉速 Max. RPM	1000 rpm
軸向支撐行程 (輔助端) Axial travel (support)	480mm (250mm)
徑向支撐行程 (輔助端) Radial travel (support)	180 mm (190mm)
軸向最大進給力 (輔助端) Max. Axial force (support)	200 kN (125 kN)
徑向最大進給力 (輔助端) Max. Radial force (support)	200 kN (80 kN)



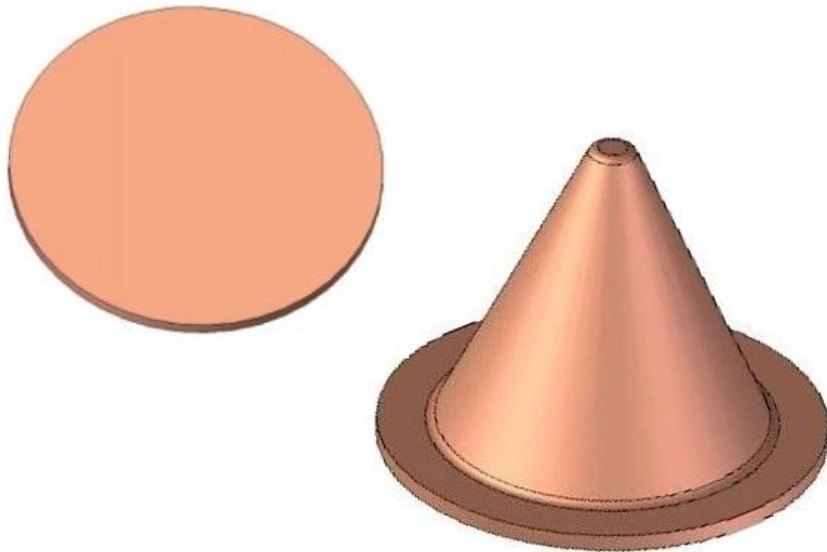
VF300SAR-4AXIS 強力通用旋壓中心

Versatile flow forming center

加工應用 Process applications



剪旋成型 Shear forming

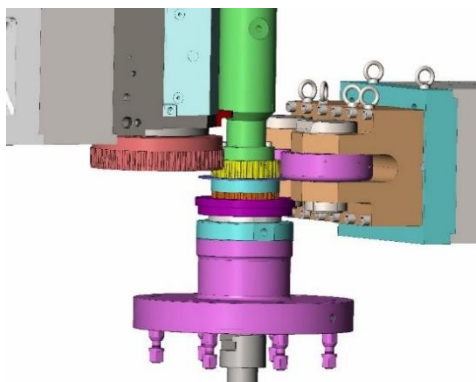




VF300SAR-4AXIS 強力通用旋壓中心

Versatile flow forming center

加工應用 Process applications



旋齒成型 Teeth forming



鼎康精機旋壓機系列

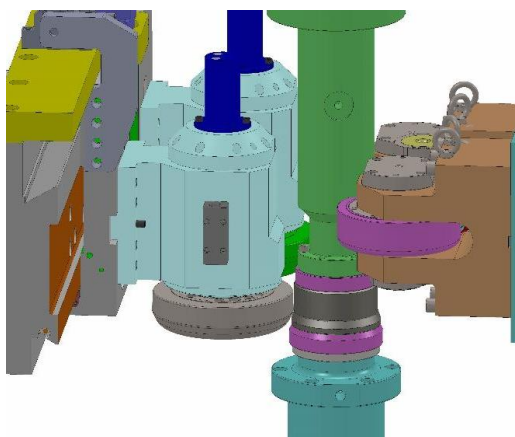
DIN-KO FLOW FORMING SERIES



VF300SAR-4AXIS 強力通用旋壓中心

Versatile flow forming center

加工應用 Process applications



旋轂成型 Hub forming



鼎康精機旋壓機系列

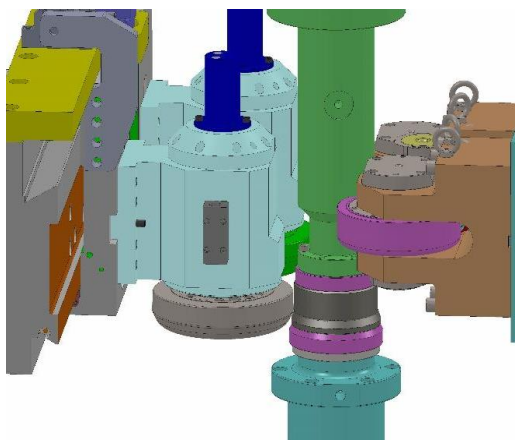
DIN-KO FLOW FORMING SERIES



VF300SAR-4AXIS 強力通用旋壓中心

Versatile flow forming center

加工應用 Process applications



旋轂成型 Hub forming



鼎康精機旋壓機系列

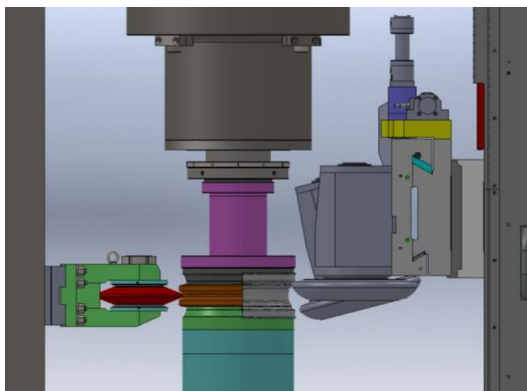
DIN-KO FLOW FORMING SERIES



VF300SAR-4AXIS 強力通用旋壓中心

Versatile flow forming center

加工應用 Process applications



流動旋壓成型 Flow forming



鼎康精機旋壓機系列

DIN-KO FLOW FORMING SERIES



HOM TECH

A brand of **DIN-KO**

since 1985

BORN FOR WHEEL, MADE FOR WHEEL

鋁輪圈夾治具系列 **HOM TECH SERIES**
Hydraulic Finger Chuck for Aluminum wheel

鋁輪圈油壓夾頭

汽車用

Hydraulic Finger Chuck for Automobile



鋼圈尺寸 手臂		HC-18		HC-22			HC-24		HC-26		
		1215	1718	1316-22	1720-22	Z-22	1720-24	Z-24	1720-26	1922-26	Z-26
13"		A		A							
14"		B		B							
15"		C		C							
16"		D		D							
17"			B		A		A		A		
18"			C		B		B		B		
19"					C	A	C		C	A	
20"					D	B	D		D	B	
21"						C		A		C	
22"						D		B		D	
23"								C			A
24"								D			B
25"											C
26"											D
最大旋徑	MIN	519	599	600	636	689	651	740	702	702	791
	MAX	578	657	648	698	750	711	801	751	763	852
夾持輪圈最大直徑		453	535	451	564	616	562	666	563	614	718

項 目	把握力(單爪)	活塞面積(CM ²)	最高使用壓力	最高迴轉速	重量	加工範圍	最大放鬆旋徑	最大夾緊旋徑
HC-18	1600kg	293.4	16kg / cm ²	2500 r.p.m	120kg	13"-18"	ø657	ø599
HC-22	1600kg	293.4	16kg / cm ²	1500 r.p.m	170kg	13"-22"	ø750	ø689
HC-24	1600kg	293.4	16kg / cm ²	1200 r.p.m	190kg	17"-24"	ø801	ø740
HC-26	1600kg	293.4	16kg / cm ²	1000 r.p.m	210kg	17"-26"	ø852	ø791

自動交換系統 APC System for Vertical Lathe Machine

立車用

HCV-22



HCV-24



HCIT-22



HCIT-24



HCIT-26



鋼圈尺寸	HT 夾頭 IMT 夾頭 手筒	HCV-22 HCIT-22			HCV-24 HCIT-24			HCV-26 HCIT-26		
		1316-22	1720-22	Z-22	1316-24	1720-24	Z-24	1720-26	1922-26	Z-26
13"	A				A					
14"	B				B					
15"	C				C					
16"	D				D					
17"			A			A		A		
18"			B			B		B		
19"			C	A		C		C	A	
20"			D	B		D		D	B	
21"				C			A		C	
22"				D			B		D	
23"							C			A
24"							D			B
25"										C
26"										D
最大 旋徑	MIN	600	636	689	653	651	740	702	702	791
	MAX	648	698	750	694	711	801	751	763	852
夾持輪圈最大直徑		451	564	616	457	562	666	563	614	718

項 目	把握力(單爪)	活塞面積(CM ²)	最高使用壓力	最高迴轉速	重量	加工範圍	最大放鬆旋徑	最大夾緊旋徑
HCV-22	1600kg	100.5	45kg / cm ²	1500 r.p.m	213kg	13"-22"	ø750	ø689
HCV-24	1600kg	100.5	45kg / cm ²	1200 r.p.m	225kg	17"-24"	ø801	ø740
HCIT-22	1600kg	508.7	10kg / cm ²	1500 r.p.m	190kg	13"-22"	ø750	ø689
HCIT-24	1600kg	508.7	10kg / cm ²	1200 r.p.m	195kg	17"-24"	ø801	ø740
HCIT-26	1600kg	508.7	10kg / cm ²	1000 r.p.m	210kg	17"-26"	ø852	ø791

鋁輪圈油壓夾頭 Hydraulic Finger Chuck for Automobile



OP-1大浮動



OP-1小浮動 I



OP-1小浮動 II



OP-2軸套式



OP-2雙斜筒夾



OP-2單斜筒夾



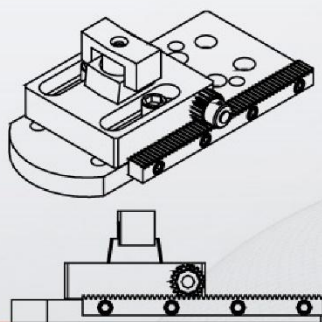
OP-2可調式



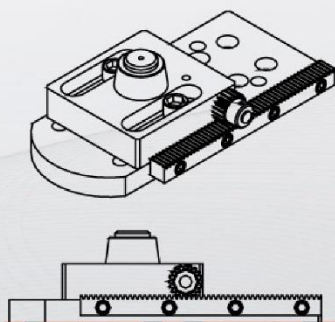
OP-2雙夾頭



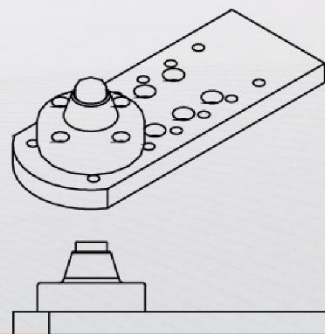
OP-2中心螺桿可調



樣式一



樣式二



樣式三

全周爪 Full Finger Chuck/ Pie Jaw



全週爪OP-2

尺寸表

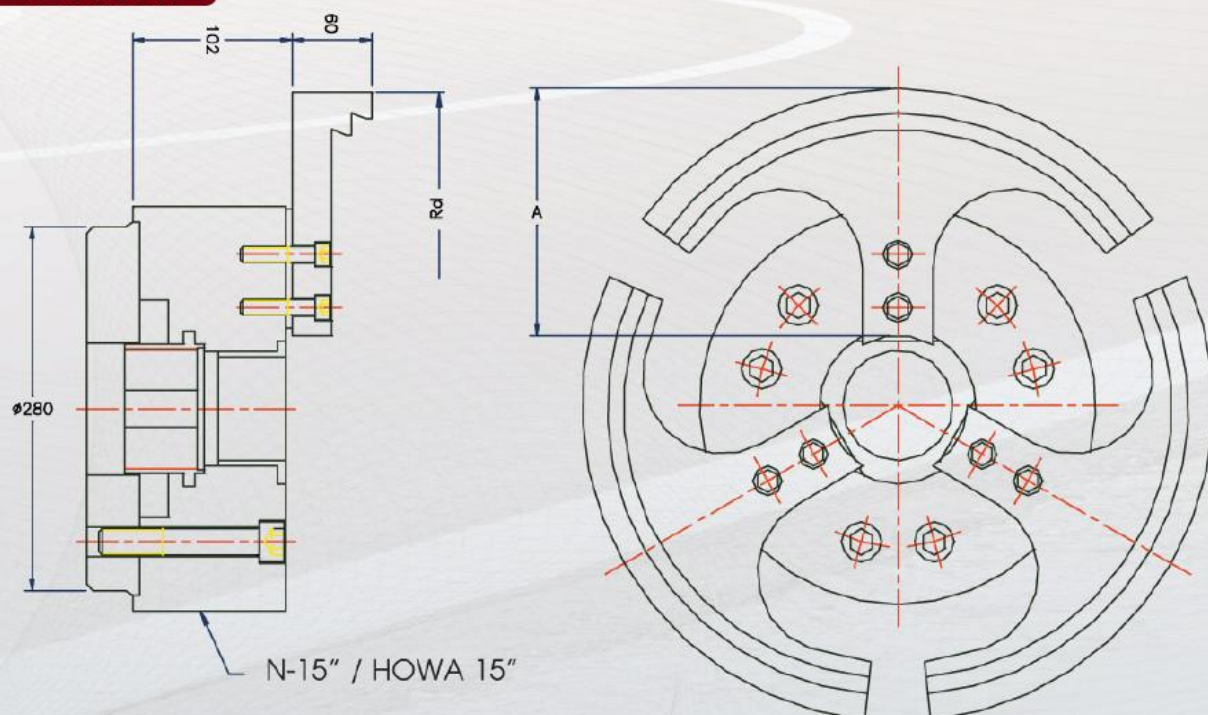
	A	Rd
PJH-1213"	150	410
PJH-1314"	160	430
PJH-1415"	175	460
PJH-1516"	185	480
PJH-1617"	200	510
PJH-1718"	210	530
PJH-1819"	225	560

尺寸表

	A	Rd
PJH-1920"	240	590
PJH-2021"	250	610
PJH-2122"	265	640
PJH-2223"	280	670
PJH-2324"	290	690
PJH-2425"	302.5	715
PJH-2526"	315	740

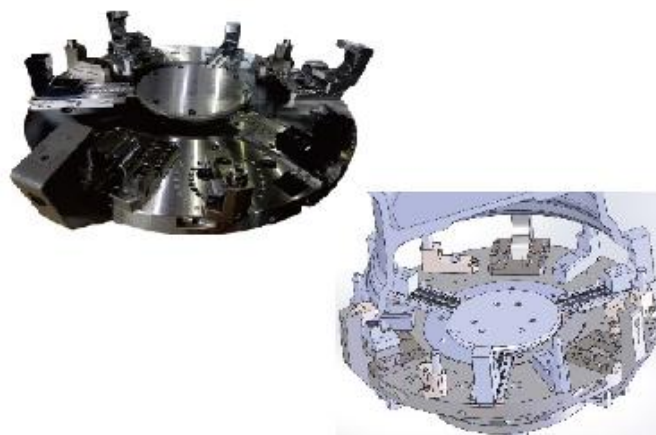
※註：可依客戶需求製作。

加工組裝方式圖



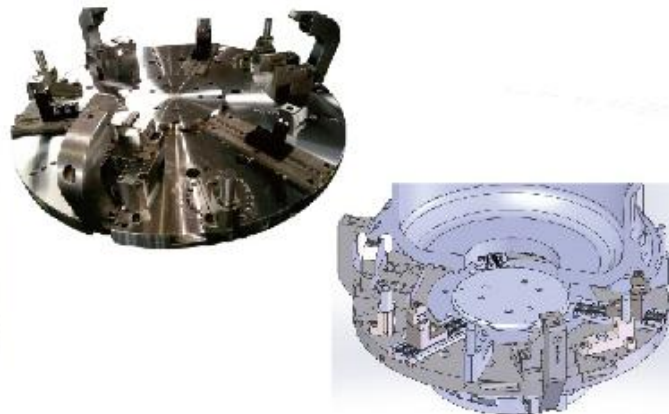
兩段式自動求心夾頭

Two steps Auto-centering Finger Chuck



双油压缸三爪自动求心夹头

- 采取双缸型油压回转缸驱动，三爪同步，自动求取轮圈中心位置之定位模式。
- 依客户需求可自行选择定外径或者撑内径模式，当更换轮圈尺寸时，只需位移靠块，如需更换定位方式，只需更换定位块组件。
- 使用上，更模组化且客制化管理。
- 缩短换线时间，简化换线的困难。



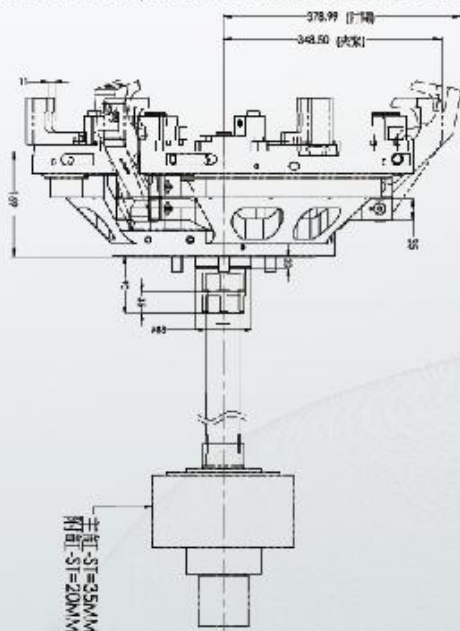
弹簧式三爪自动求心夹头

- 采取弹簧驱动三爪同步，将轮圈中心位置自动求取之定位模式。
- 依客户需求选择定外径或者撑内径模式，更换轮圈尺寸，靠块只需位移调整。
- 如需更换另一定位模组（外径或者撑内径，只能择一模组），需更换部分零件。
- 使用上更模组化且客制化管理。
- 缩短换线时间，简化换线的困难。

（弹簧式三爪自动求心夹头只能选择其中一种定位模式：定外径或者撑内径。）

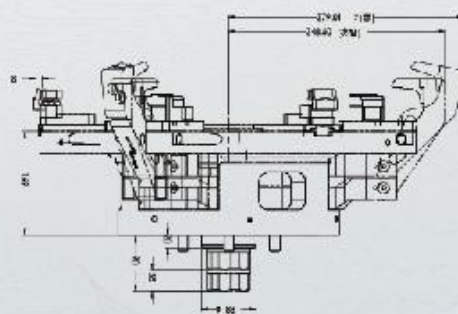
Three-jaw auto compensating chuck with double hydraulic cylinder

- Driven by double rotary cylinder with three-jaw simultaneous movement to achieve auto centering compensation.
- Base on the need of the client to choose between clamping outer diameter or holding inner diameter. While shifting to a different wheel size, simply relocate the locating block. Clamping method can also be achieved via changing the location block module.
- Implementation of customization and modularization enhance the accessibility of managerial usage.
- Shorten and simplified the shift between production lines.



Three-jaw auto compensating chuck (Spring-loaded type)

- Driven by spring-loaded with three-jaw simultaneous movement to achieve auto centering compensation.
 - Base on the need of the client to choose between clamping outer diameter and holding inner diameter. While shifting to a different wheel size, simply relocate the locating block.
 - To replace another set of locating module, part of components need to be changed. (choose only one set of module between clamping outer diameter and holding inner diameter)
 - Implementation of customization and modularization enhance the accessibility of managerial usage.
 - Shorten and simplified the shift between production lines.
- Choose only one set of locating method between clamping outer diameter and holding inner diameter for the three-jaw auto compensating chuck (spring-loaded type).



鋁輪圈油壓夾頭

機車

Hydraulic Finger Chuck for Motorcycle



HCM-18 機車用-OP1

夾頭 鋼圈尺寸	HCM-18		
	1013+28	1215+28	1718+28
10"	A12		
11"			
12"	B		
13"	C	A	
14"	D	B	
15"		C	
16"		D	
17"			B
18"			C
最大 旋徑	MIN	530	527
	MAX	584	597
夾持輪圈最大直徑		395	445
		528	

項 目	把握力(单爪)	活塞面积(CM ²)	最高使用压力	最高回转速	重量	加工范围	最大放松旋径	最大夹紧旋径
HCM-18	1600kg	293.4	16kg / cm ²	2500 r.p.m	120kg	10" 18"	ø687	ø619



HCM-18 機車用-OP2

夾頭 鋼圈尺寸	HCM-18		
	1013+28	1215+28	1718+28
10"	A12		
11"			
12"	B		
13"	C	A	
14"	D	B	
15"		C	
16"		D	
17"			B
18"			C
最大 旋徑	MIN	530	527
	MAX	584	597
夾持輪圈最大直徑		395	445
		528	

項 目	把握力(单爪)	活塞面积(CM ²)	最高使用压力	最高回转速	重量	加工范围	最大放松旋径	最大夹紧旋径
HCM-18	1600kg	293.4	16kg / cm ²	2500 r.p.m	120kg	10"-18"	ø687	ø619

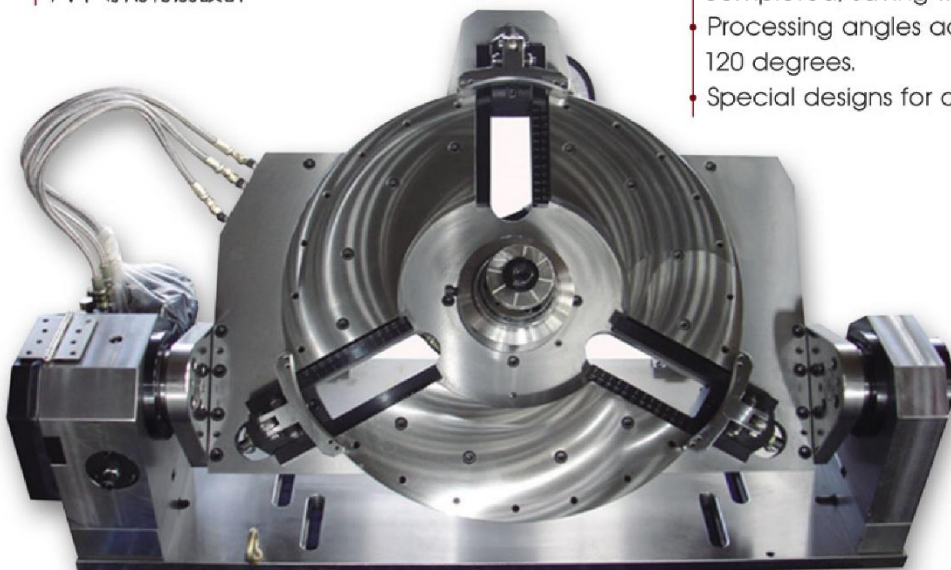
汽車PCD與風嘴夾具 Automobile PCD & Air Nozzle Chucks

特殊專用夾具

- 加工12"~22"鋁輪圈之PCD孔及氣孔。
- PCD孔及氣孔一次加工完成，節省時間，提高產能。
- 可任意調整氣孔之加工角度，從5~120度。
- 汽車專用特別設計。

Special purpose-used Chucks

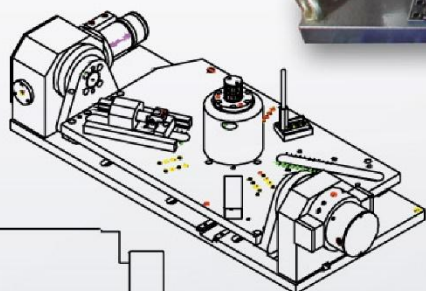
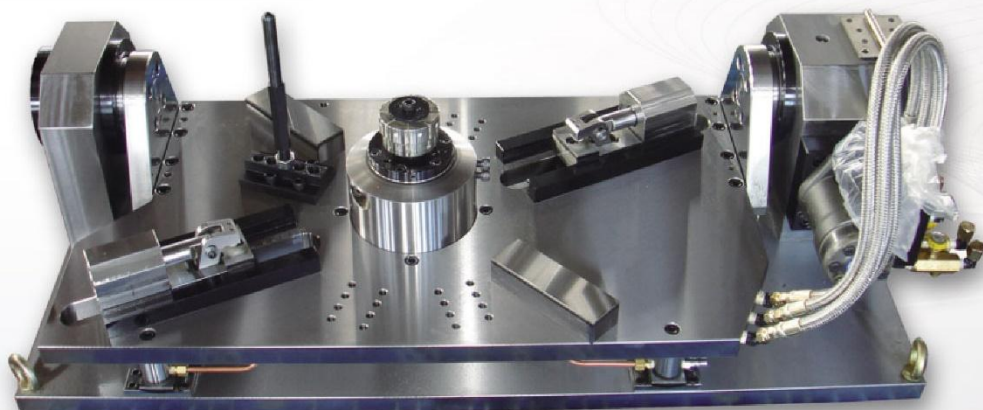
- Processing 12"~22 aluminum rim PCD holes and air holes
- PCD hole and air hole one time processing completed, saving time and upgrading productivity.
- Processing angles adjustable, ranging from 5 to 120 degrees.
- Special designs for automobile uses.



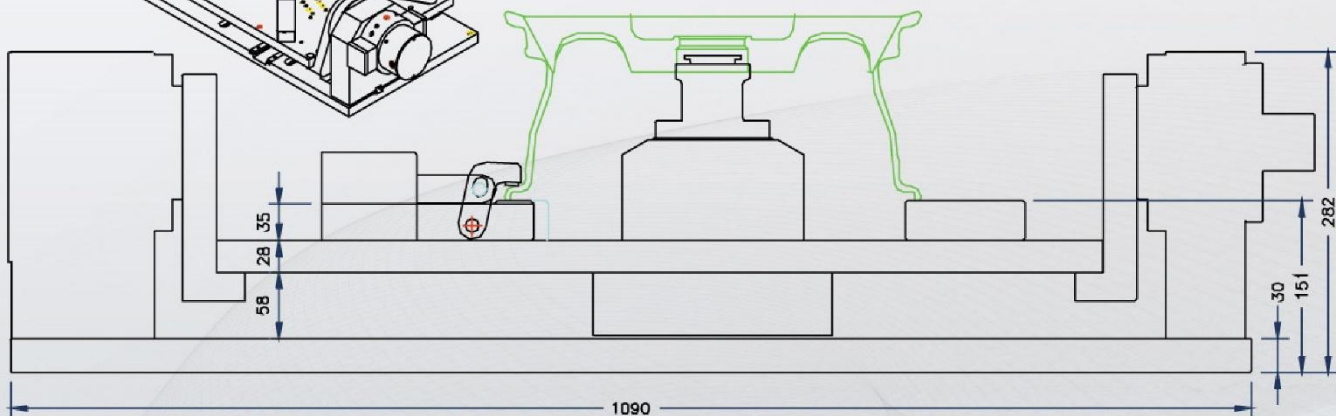
汽車用-3爪

汽車用-2爪

使用規格：12"~22"



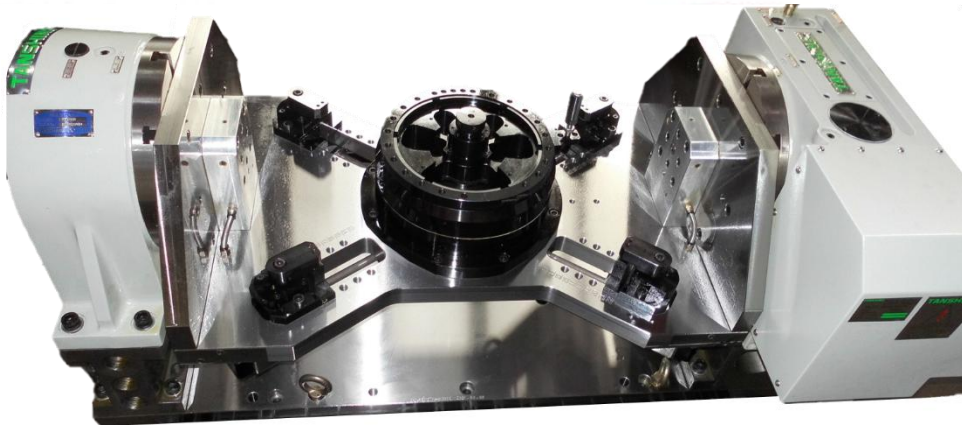
汽車12"~22"加工夾持方式圖



四軸加工機 & 四加一軸加工機 4-Axis Machine Center Board (with additional axis)

汽车用-四轴加工机

4-axis CNC machine



4-axis drive integration for car

卡车用-四+1轴加工机

4-axis CNC machine with additional axis

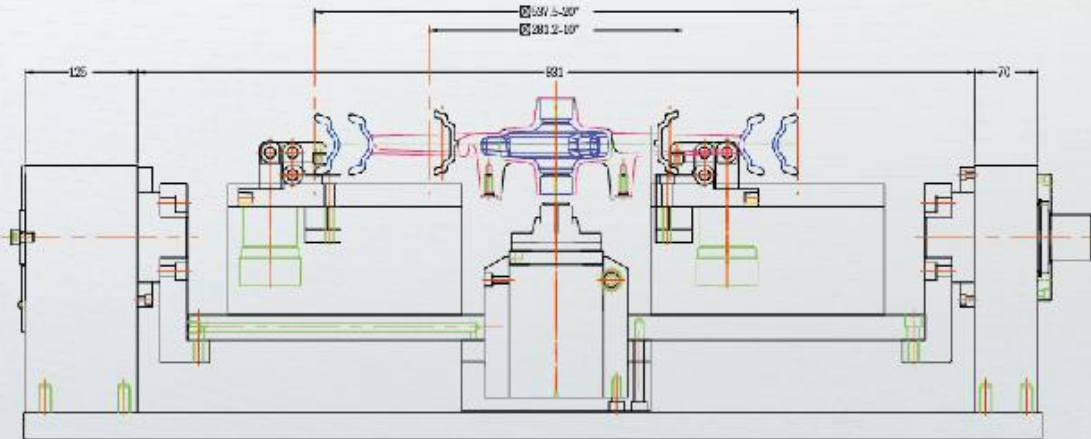
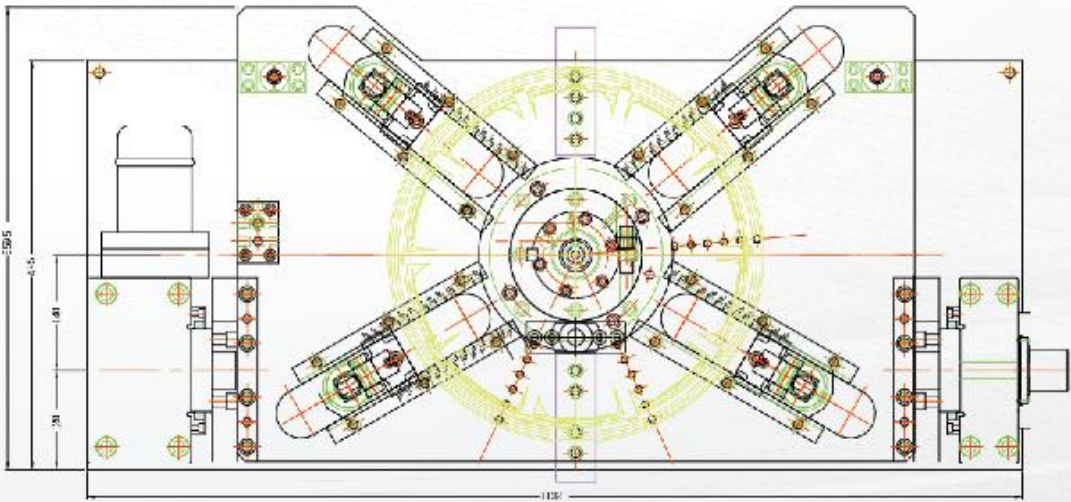


4-axis plus additional axis integration for truck

機車用PCD與風嘴夾具

PCD & Air Nozzle Chuck for Motorcycle

PCD与风嘴夹具-机车用



OP30鏡面夾頭&求心夾頭

Mirror Process Chuck-OP30 & Compensating Chuck



OP3鏡面夾頭



求心夾頭



測偏擺機

汽車用檢具 & 加工刀具 Inspection Gauges and Processing Tools



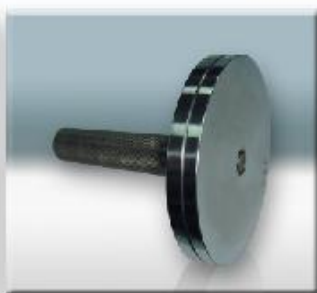
测偏摆PCD盘

Runout inspection gauge



PCD同心度检具

PCD concentricity inspection gauge



中心孔塞规

Center Hole Plug Gauge



塞规

Plug Gauge

外径刀把 25 x 25

Outside diameter Tool holder



内径沟槽刀

Internal Groove Cutter



外径刀把 32 x 32

Outside diameter Tool holder



背搪刀

Back-boring Cutter



内径刀把

Inside diameter Tool holder



内径刀把

Inside diameter Tool holder



内径刀把

Inside diameter Tool holder



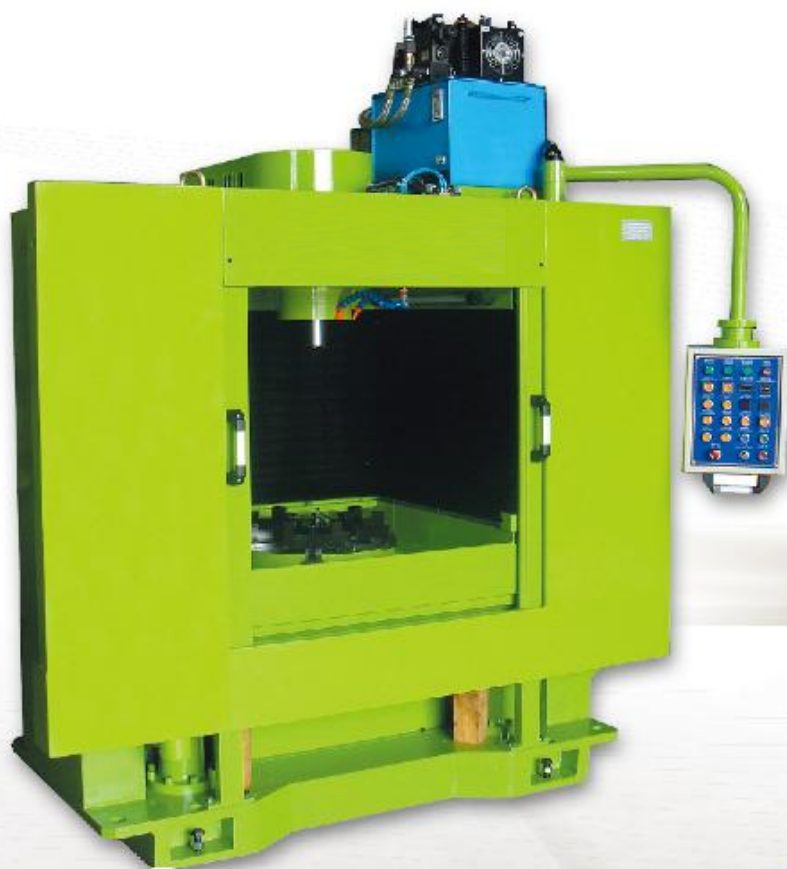
内径刀把

Inside diameter Tool holder



龍門中心鑽孔機 & 中心沖孔機

Gantry type Center Hole Drilling and Pressing Machine



龙门中心钻孔机

Double-column Center
Drilling Machine



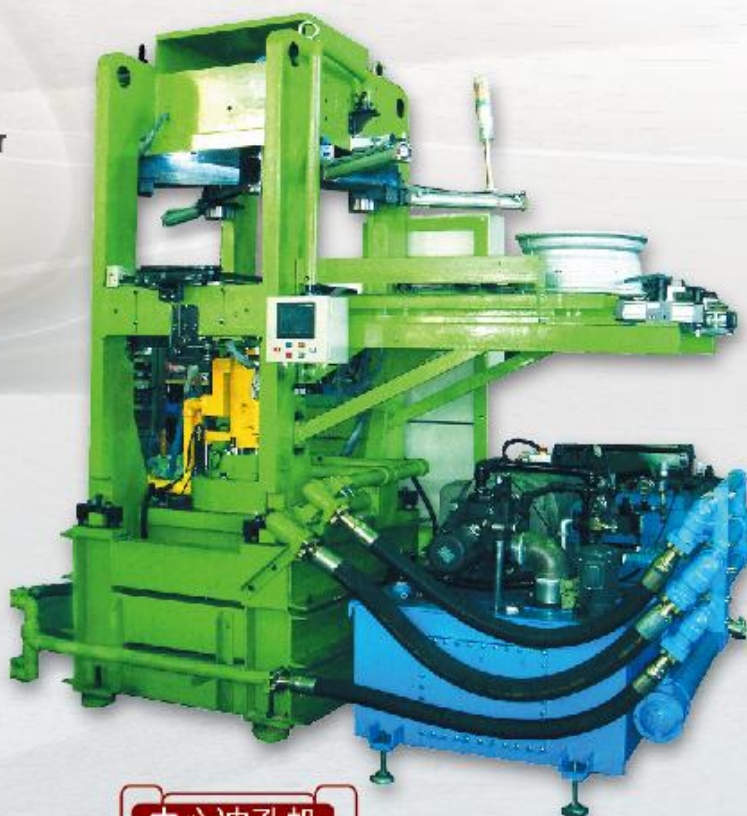
快速钻头

Fast Drills



强力钻头

Power Drills



中心冲孔机

Center hole pressing machine



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