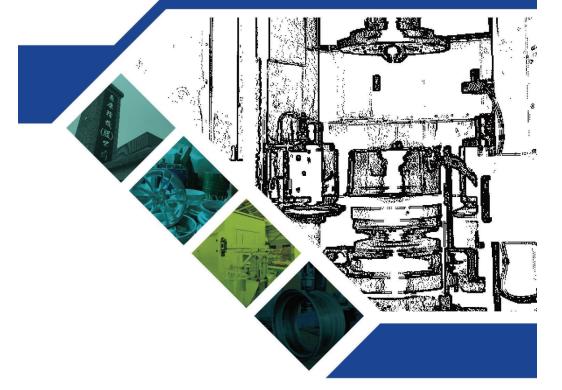


FLOW FORMING SERIES









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



DIN-KO Flow Forming Machine for Wheel

Born for Wheel, Made much More!

The Most Professional Flow Forming Solution for wheel

Design Concept

- Originated from aerospace and defense-grade spinning technology, transformed for aluminum wheel production.
- Inherited horizontal heavy-duty design from tube spinning, evolved into vertical wheel spinning machines for modern automated production lines.
- From wheel clamping fixtures to dedicated forming machines with peripherals, providing a true turnkey solution — the flow forming machine that understands wheels best.

Key Features

- Hydraulic Servo Drive: Delivers high thrust with energy efficiency and superior durability compared to screw-driven systems.
- **Ductile Cast Iron Frame**: Ensures low noise, low vibration, and near-permanent durability.
- **High-Strength One-Piece Forged Components**: Spindle, tailstock, and roller housings designed for rigidity and long lifespan.
- Exclusive Control & Software: Bosch Rexroth customized controller + HMI, combined with in-house developed spinning programming software EASY FLOW FORMER.
- **Complete Turnkey Solutions**: Covering fixtures, automation peripherals, testing, and technology transfer, ensuring ultra-short installation and ramp-up time.
- Smart Manufacturing Integration: Seamlessly connects with production lines for full automation and intelligent control.

Technical Advantages

- 40 years of aluminum wheel machining experience, specializing in spinning R&D and process integration.
- · German design, Taiwan manufacturing: Precision engineering with trusted quality.
- Easy Maintenance: Modular design reduces downtime and service costs.
- Beyond Equipment: Delivering not only machines, but complete process know-how and turnkey engineering.

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.

鼎康精機股份有限公司 DIN-KO MACHINERY CO., LTD

















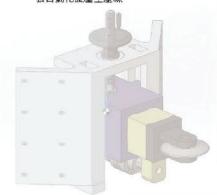
Product Type

▶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。

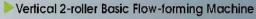


型 號 Model	VFFM700H-4AXIS
類 別 Type	雙滾輪鑄造旋壓 2 Roller for cast aluminum wheel
説明 Description	基本配置 Basic
控制系統 Control System	SIEMENS 840D SL
驅動系統 Driving System	油壓伺服 Hydraulic Servo
旋壓滾輪數量 Number of Rollers	2
適用輪圈大小 Wheel Size	16~22"
適用輪圈高度 Wheel Height	7~12J
主軸驅動功率 Spindle Driving Power	110kW









DIN-KO two roller flow-forming model is design exclusively for cost 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.







03

Product Type

▶立式三滾輪鑄造旋壓機

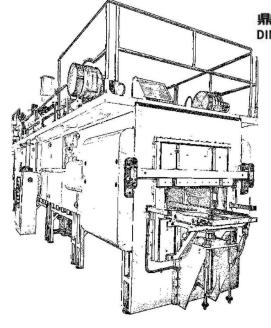
相較於基本兩滾輪機型:

- 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 』。

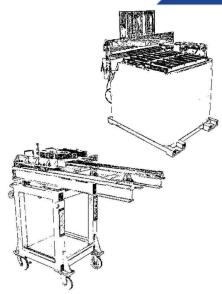
可配合特殊成型輪或分裂模具加工形狀:

- 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
説明 Description	快速加工、 特殊造型 Fast cycle time & Special Prifiting
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







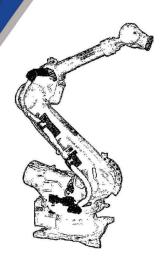
▶ Vertical 3-roller Standard Flow-forming Machine

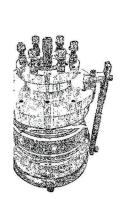
Compare to the basic 2-roller machine:

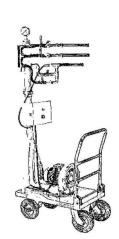
- Improvement in cycle time and mechanical property.
- Faster spindle power with higher feed rate
- Aluminum material flows faster, and the 3-roller shares the load for higher processing pressure.
- Higher force on tailstock, and equipped with an additional cylinder makes the machine capable of upward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

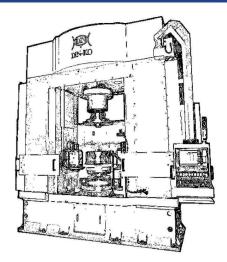
Compatible with special profiling roller or segment tooling:

- Splitting unit
- Undercut wheel
- Front face reverse wheel









06

05

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銀造機型,配合鑄造周邊配件可實現鑄造及 銀造混線生產。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+銅/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 trail 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.

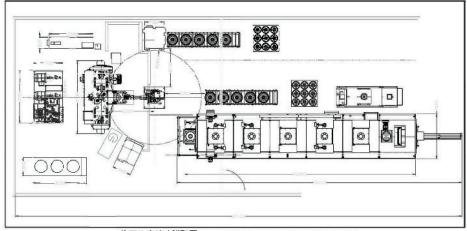
交鑰匙工程

Turnkey Project

鼎康精機股份有限公司 DIN-KO MACHINERY CO., LTD

▶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*



07

<mark>鼎康次世代</mark> 伺服油壓雙滾輪旋型機

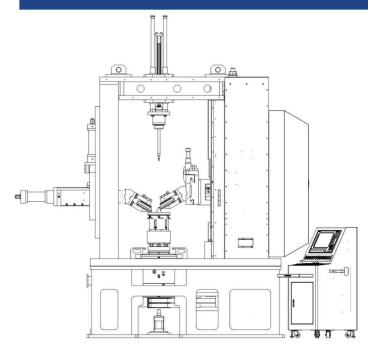
DIN-KO NEXT GEN. SERVO HYDRAULIC FLOW FORMING MACHINE VF300SAR-4AXIS



功能及產品介紹 2024 NEW ARRIVAL



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 人高支撐性的滾輪座。
 High rigidity and stable support structure.
 選配模組可調整製程變化的靈活性。
- 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.



VF300SAR-4AXIS 強力通用旋壓中心 Versatile flow forming center

外觀示意圖 Machine reference









VF300SAR-4AXIS 強力通用旋壓中心 Versatile flow forming center

技術規範 General technical specification

200 2	
機台尺寸	4150L x 2100W x 3750H (4400H)
Machine dimension	
工件最大寬度	300 mm
Max. width of workpiece	
工件最大高度	250 mm
Max. height of workpiece	
主軸介面	A2-11
Spindle interface	
主軸驅動	110 kW
Spindle drive	
最高主軸轉速	1000 rpm
Max. RPM	
軸向支撐行程(輔助端)	480mm (250mm)
Axial travel (support)	
逕向支撐行程(輔助端)	180 mm (190mm)
Radial travel (support)	
軸向最大進給力(輔助端)	200 kN (125 kN)
Max. Axial force (support)	
逕向最大進給力(輔助端)	200 kN (80 kN)
Max. Radial force (support)	



VF300SAR-4AXIS 強力通用旋壓中心 Versatile flow forming center

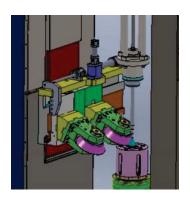


VF300SAR-4AXIS 強力通用旋壓中心 Versatile flow forming center

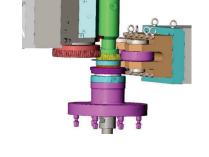
加工應用

Process applications

加工應用 Process applications



剪旋成型 Shear forming



旋齒成型 Teeth forming











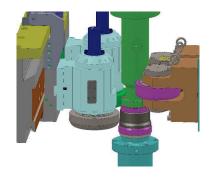
VF300SAR-4AXIS 強力通用旋壓中心 Versatile flow forming center



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**









旋轂成型 Hub **forming**





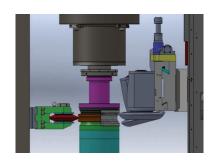
鼎康精機旋壓機系列 ■ORN FOR WHEEL BUT MUCH MORE 鼎康精機旋壓機系列 DIN-KO FLOW FORMING SERIES



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



鼎康精機股份有限公司 DIN-KO MACHINERY CO., LTD



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**Work holder **for Wheels**

HOM TECH Work Holder for Wheel

Born for Wheel, Made for Wheel!

—— The Specialist in Wheel Machining Fixtures

Since its establishment in 1984, **HOM TECH** initially focused on parts machining and zipper machine manufacturing. Later, by entering the field of CNC wheel machining fixtures, **HOM TECH** successfully developed Taiwan's first rear-pull chuck for wheels. Through continuous R&D and precision improvements, and by collaborating with **Victor Taichung, ITRI, and NCSIST, HOM TECH** has launched a wide range of advanced products, becoming a trusted partner in the wheel manufacturing industry.

Product Applications

HOM TECH products are dedicated to the wheel machining industry, providing one-stop solutions in collaboration with leading machine tool manufacturers:

- · Chucks and fixtures for turning centers and machining centers
- Customized special-purpose machine design
- Special fixture development
- Inspection and measuring fixtures for machining
- · Precision machining and integrated services

Product Features

- Flexible Positioning: Various locating methods to match different workpiece requirements.
- Stable Cutting Performance: Reduces scrap rate and improves production quality and output.
- Lightweight Design: Reduces machine load and extends equipment lifetime.
- Modular Components: Standardized processes for easy repair, replacement, and maintenance.
- Customizable Modules: Tailored development to fit different production line needs.
- High-Speed Stability: Capable of high-speed rotation with excellent stability and safety.

Key Advantages

- Enhanced machining stability, increased productivity, and reduced waste.
- Simple maintenance for lower operating costs.
- Fully customized solutions to meet diverse customer requirements.

鋁輪圈夾治具系列 **HOAN TECH SERIES**Work holder **for Wheels**

鋁輪圈油壓夾頭 汽車用 Hydraulic Finger Chuck for Automobile

HC-18





自動交換系統



APC System for Vertical Lathe Machine

HCV-24

立車用





HC-26

		НС	-18		HC-22		HC-	24		HC-26	
鋼圈尺	野	1215	1718	1316-22	1720-22	Z-22	1720-24	Z-24	1720-26	1922-26	Z-26
1	3"	Α		Α	1						
1,	4"	В		В							
1	5"	С		С							
1	6"	D		D							
1	7"		В		Α		Α		A		
1	8"		С		В		В		В		
1	9"				С	Α	С		С	Α	
2	0"				D	В	D		D	В	
2	1"					С		Α		С	
2	2"					D		В		D	
2	3"							С			Α
2	4"							D			В
2	5"										С
2	6"										D
最大	MIN	519	599	600	636	689	651	740	702	702	791
旋徑	MAX	578	657	648	698	750	711	801	751	763	852
夾持輪!	图最大直徑	453	535	451	564	616	562	666	563	614	718

項目	把握力(單爪)	活塞面積(CM2)	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







HCIT-22

HCIT-24

HCIT-26

	HT夾頭		HCV-22			HCV-24		HCV-26		
	MT夾頭		HCIT-22			HCIT-24	HCIT-26			
鋼圈尺	す	1316-22	1720-22	Z-22	1316-24	1720-24	Z-24	1720-26	1922-26	Z-26
	13"	Α			Α					
	14"	В			В					
	15"	С			С					
	16"	D			D					
	17"		Α			Α		Α		
	18"		В			В		В		
	19"		С	Α		С		С	Α	
	20"		D	В		D		D	В	
	21"	1		С			Α		С	
	22"	Ť		D			В		D	
	23"			П			С			Α
	24"						D			В
	25"							-		С
	26"									D
最大	MIN	600	636	689	653	651	740	702	702	791
旋徑	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(CM2)	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 汽車用 Hydraulic Finger Chuck for Automobile



全周爪 Full Finger Chuck/ Pie Jaw









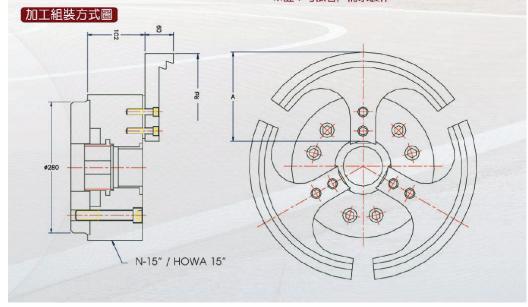
表世兄

	Α	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

表世兄

	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。



兩段式自動求心夾頭 Two steps Auto-centering Finger Chuck

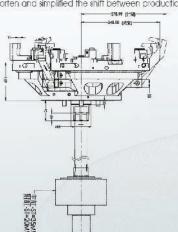


双油压缸三爪自动求心夹头

- 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。
- 缩短操线时间、简化操线的困难。

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.





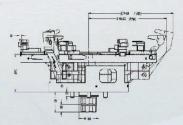
弹簧式三爪自动求心夹头

- 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看撑内径模式,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 (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).



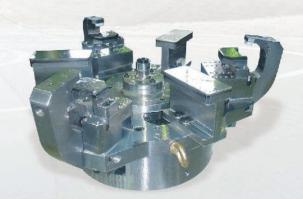
鋁輪圈油壓夾頭 Hydraulic Finger Chuck for Motorcycle



1	央头	HCM-18						
钢圈尺	市市	1013+28	1215+28	1718 28				
1	0"	A12						
1	1,,							
1	2"	В						
1	3"	С	A					
- 1	1"	D	В					
1	5"		C					
1	6"		D					
1	7″			В				
. 1	8″			С				
最大	MIN	530	527	619				
旋径	MAX	584	597	687				
夹持轮圈最大直径		395	445	528				

HCM-18 机车用-OP

项目	把握力(单爪)	活塞面积(CM2)	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



1	夹头	HCM-18					
钢圈尺寸 "臀		1013+28	1215+28	1718+28			
10"		A12					
11,		v					
12"		В					
13"		С	А				
14"		D	В				
15"			С				
16"			D				
1/"				В			
"81				C			
2000	MIN	530	527	619			
	MAX	584	597	687			
央持轮圈最大直径		395	445	528			

HCM-18 机车用-OP2

项目	把握力(单爪)	活塞面积(CM2)	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

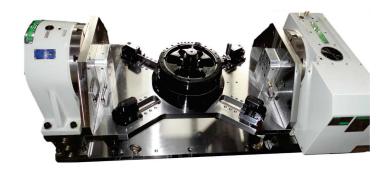
汽車PCD與風嘴夾具 汽車用 Automobile PCD & Air Nozzle Chucks

特殊專用夾具 Special purpose-used Chucks 加工12"~22"鋁輪圈之PCD孔及氣孔。 Processing 12"~22 aluminum rim PCD holes and PCD孔及氣孔一次加工完成,節省時間,提高產能。 air holes 可任意調整氣孔之加工角度,從5~120度。 PCD hole and air hole one time processing 汽車專用特別設計。 completed, saving time and upgrading productivity. Processing angles adjustable, ranging from 5 to Special designs for automobile uses. 使用規格: 12"~ 22" 汽車12"~22"加工夾持方式圖 151

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



4-axis CNC machine

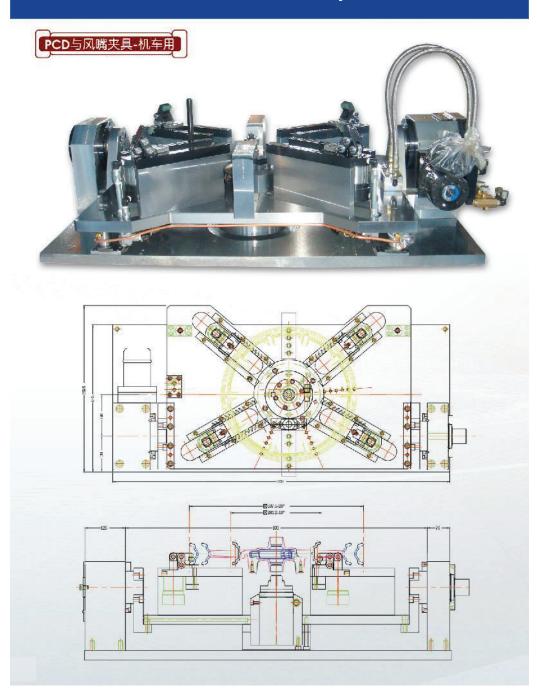


4-axis drive integration for car



機車用PCD與風嘴夾具 PCD & Air Nozzle Chuck for Motorcycle

OP30鏡面夾頭&求心夾頭 Mirror Process Chuck-OP30 & Compensating Chuck





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



龍門中心鑽孔機 & 中心沖孔機 Gantry Center Hole Drilling and Pressing Machine











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