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High Capacity Compact Hydraulic System



CHUYA
HYDRAULIC MACHINE

高效能緊湊型
液壓泵站

Innovative Quality & Trust-worthy Service

公司簡介

志亞油壓五金有限公司成立於1988年，主要以專業設計製造各種液壓系統、油壓元件、邏輯閥組、測試設備、液壓教學設備為主軸，創立26年來持續並執著不斷「研究創新、技術提升、永續經營」之經營理念，並致力於開發及品質的提升，創造出更精密，更先進的產品來滿足客戶的需求。

有關於公司經營的理想與開發，于2003年創立子公司志堯油壓五金有限公司，更是秉持母公司傳承之精

神，嚴守品質及技術之根基，致力於發展高效率，低能耗的油電混合系統，以生產更環保，更高效的油壓單元。亦于2009年於大陸地區江蘇省太倉市創立了大陸分公司一太倉志霖液壓有限公司，並將公司目標定位於亞洲生產研發基地，以高品質為承諾，不斷的改進，研發更具環保及競爭力之產品，以服務顧客為目的，為堅守此承諾，將一本熱忱、細心，專業的服務宗旨，朝向「創新品質誠信服務」的理想邁進。

Company Profile

CHUYA Hydraulic&Hardware Co., Ltd was established in 1988, focuses on the professional design and manufacture of various hydraulic systems, hydraulic components, logic valve group, test equipment, and hydraulic teach device. In 26 years since founded, we always taking "research and innovation, technology upgrading, performance management" as the operation philosophy, and committe to promote and improve the quality of our products, creating a more sophisticated and more advanced products to meet the customer's demands.

And for the ideal and development of our company, the subsidiary ZhiYao Hydraulic&Hardware Co., Ltd which founded in 2003, is inheriting and upholding the spirit of

it's parent company, strictly observe the high quality and the main technology, and committed to the development of high efficiency&low energy consumption hybird system to produce more environmentally friendly and more efficient hydraulic power unit. Also in the 2009, our mainland branch-TAICANG ZHILIN Hydraulic Machinery Co., Ltd.-has been built in TAICANG city, JIANGSU province, China. Proforming as the Asian targeting the Asian R&D base, TAICANG ZHILIN Hydraulic Machinery Co., Ltd. takes high quality of products as commitment, and always carries on the sincere, scrupulous and professional service tenet stepping towards the ideal of "innovative quality, trust-worthy service".



HU TYPE
高效能緊湊型
液壓泵站

Highly Effective Compact Liquid
Stand and Hydraulic Power Unites

本泵站廣泛運用於NC車床的夾盤、尾座、刀具台迴轉及加工中心主軸上升下降等動作，
具有高效能、體積小、輕量化、溫升低等優點；在保壓條件下與本公司的傳統泵站相比節能約40%。

The Hydraulic Power Unites is used to turn and process the lathe chuck, tailstock and tool rest of UC lathe as well as lifting and descending of main axis of processing center. It has advantages like high efficiency, small volume, light weight and less heat generation. When the barometric pressure is constant, it can save 40% energy compared to traditional pump station of our company.

特點

- 體積小，輕量化
通過小型化及合理佈局比傳統式液壓單元體積更小，更輕。
- 全油箱內外噴塑
油箱組件，無論內外均經酸洗磷化並作噴塑處理，不僅耐用且外觀更加美觀。
- 可視型清洗窗設計（選配）
可直接目視油箱內部，檢視油質狀況，拆裝方便；可防止油劣化或異物進入油箱時使用者無法即使發覺。

Feature

- Small And Light
It becomes smalley and lighter through reasonable compacted design
- The Whole Oil Tank Is Sprayed With Plastic Inside And Out
The entire set of oil tank is washed by acid, coated by phosphate and sprayed with plastic, endowing it with longer endurance and nicer appearance
- Visible Washing Window (Optional)
The inside of the oil tank can been seen directly to check oil quality and it can be dismantled very conveniently so that worsening of oil quality and intrusion of foreign matter can be prevented.

項目 Item	型號 Model	HU17 - ※V0※	HU24 - ※V0※
泵排量 Pump Displacement (cm³/rev)		8.0 / 16.0	8.0 / 16.0
電機功率 Electric Motor Power (KW)		0.75 , 1.5	1.5 , 2.2
油箱容積 Oil Tank Volume (L)		17 / 24	17 / 24
放置面積 Place Area (mm)		290 x 440	290 x 580
最高壓力 Maximum Pressure (MPa)		8.0 (全閉壓力) (Fully Closed Pressure)	

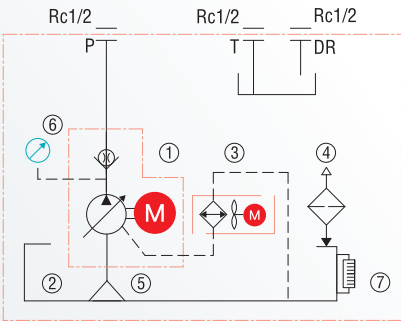


HU17-15 V 0A2 DG-F-16
10 9 8 7 6 5 4 3 2 1

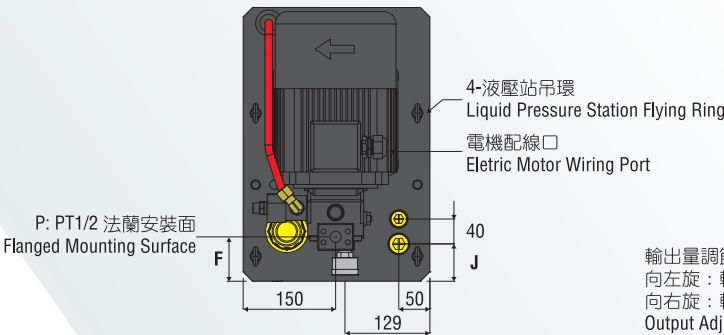
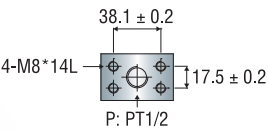
- 1 | 設計號
Design Number
- 2 | T: 溫度傳感器 Temprature Sensor
F: 液位傳感器 Floatina Level Transducer
K: 閥塊 (詳情參照第3頁說明 P.3 for Details)
- 3 | _: AC230V (風冷卻器電壓 Voltage of Wind Cooler)
G: AC380V
Z: AC115V
- 4 | _: 380V/50HZ (電機電壓 Voltage of Electric Motor)
D: 200V/50/60HZ 220V/60HZ
L: 220V/50HZ
U: 380V/60HZ
- 5 | 壓力調整範圍 Pressureadjsuting Range
2: 1.5~4.0MPa
3: 3.5~6.0MPa
4: 5.5~8.0MPa
- 6 | 流量調整範圍(最大排量)
Flow Adjusting Range (Maximum Displacement)
0: 08cm³/rev
1: 16cm³/rev
- 7 | 泵種類: 變量葉片泵
Pump Type: Variable Vane Pump
- 8 | 電機功率 Electric Motor Power
15: 1.5kw
20: 2.2kw
- 9 | 油箱容積 Oil Tank
17: 有效容積17L
Available Volume 17L
24: 有效容積24L (特殊箱體可定制)
Available Volume 24L (Special Tank Can Be Customized)
- 10 | 高效能液壓站序列表 “HU”
High Capacity Booster Pump Station Serial Number: HU

外形圖 / 尺寸表
Outsied View / Size List

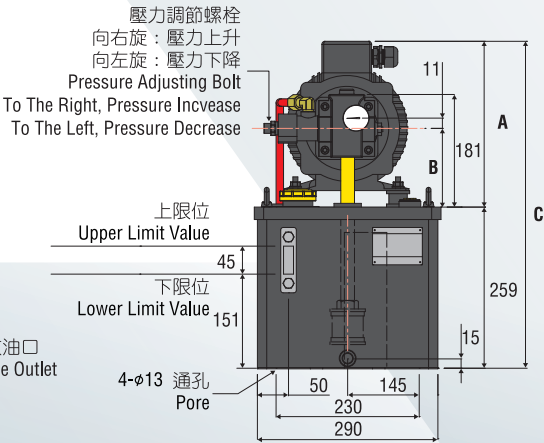
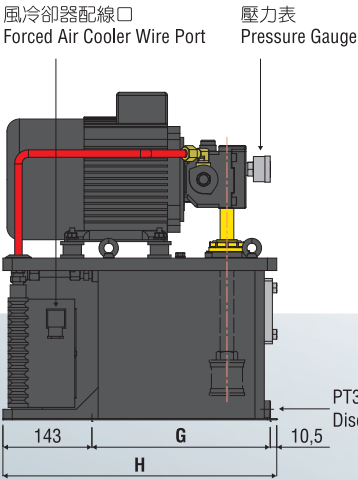
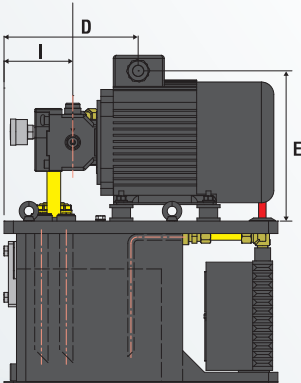
NO.	品名 Components
1	電機泵浦組合 Electric Pump Set
2	油箱 Oil Tank
3	風冷卻器 Wind Cooler
4	注油口兼通氣孔 Suction Filter
5	吸油濾網 Oil-Absorbing Sieve
6	埋入式壓力表 Embedded Presssure Gauge
7	油面計 Oil Gauge



SAEJ518b-1/2
法蘭安裝表面詳圖
Detailed Graph of Flanged Mounting Surface



輸出量調節螺栓
向左旋：輸出量減少
向右旋：輸出量增加
Output Adjusting Bolt
To The Right, Increase Output
To The Left, Deduce Output



型 號 Model	電機 Electric Motor (Kw-4P)	尺寸 Size									
		A	B	C	D	E	F	G	H	I	J
HU17-15V※A※※-16	1.5-4	244.5	116.5	503.5	213.5	216.5	80	286.5	440	123.5	60
HU17-22V※A※※-16	2.2-4	264.5	126.5	523.5	213.5	236.5	80	286.5	440	123.5	60
HU24-15V※A※※-16	1.5-4	244.5	116.5	503.5	359	216.5	225.5	427	580	269	200
HU24-22V※A※※-16	2.2-4	264.5	126.5	523.5	359	236.5	225.5	427	580	269	200

選型注意事項

Notice of Model Selecting

裝載閥塊

- ① 油箱和閥塊的，組合以右表為基準。
- ② 在泵上裝載閥塊時，請將閥塊與閥組的合計重量控制在20kg以內；如超過15kg需選用23L的箱體或與我司聯繫。

Installing valve block

- ① The combinations of the tank's volume and vaves' model are shown in the table on the right.
- ② When the valve block is set on the pump, please control the total weight of valve block and set within 20 kg. If the weight is more than 15 Kg the tank of 23 L volum is needed, please contact our company.

容積 Volume	17	23
閥組 Valve		
K1	○	
K2	○	
K3		○
K4		○

泵站顏色

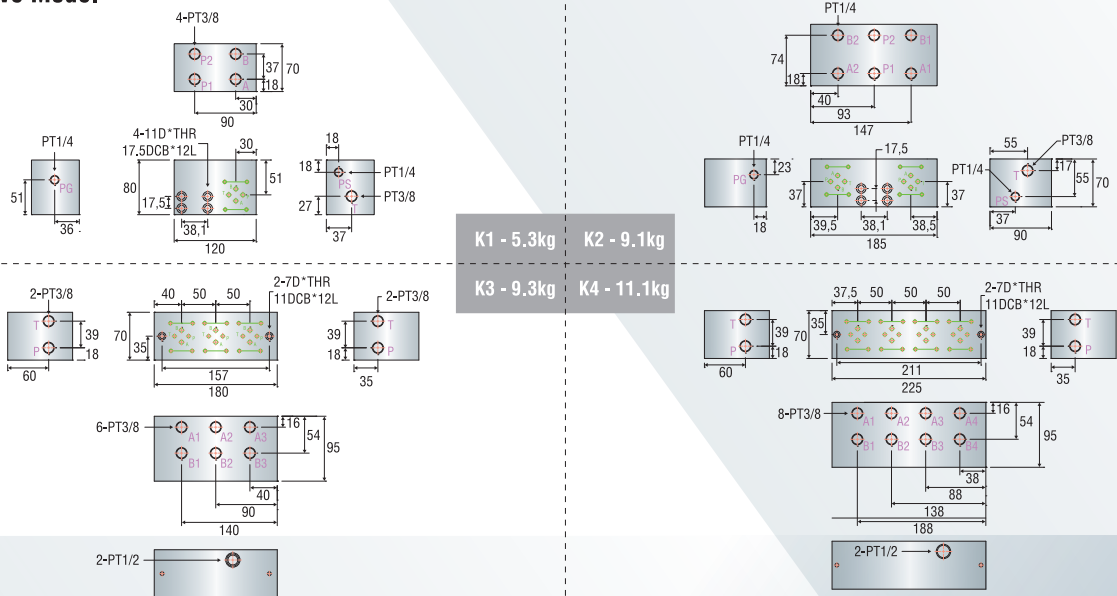
- ① 油箱內外噴塑我司標準色啞光黑;電機是由胺樹脂系烤漆,泵是噴漆,顏色為Munsell NO.5B
- ② 油箱顏色如需指定，請與我司聯繫。

Pump Station Color

- ① Plastic Spray on the tank inside and outside is glossy black, It is the standard color of our company; the paint of electric motor is baked with amine resin; the paint of pump is sprayed, color: Munsell No.B
- ② If the color of the tank needs to be customized, please contact us.

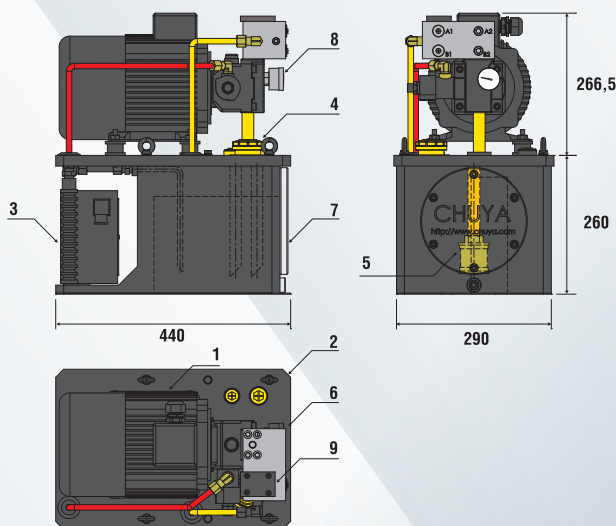
閥塊選型表

Valve Model



閥塊追加舉例

Detailed blueprint of valve block



NO.	品名 Item		
1	電機泵浦組合 Electric Pump Set	★ 6	K1油路板 K1 Oil Route Plane
2	油箱 Oil Tank	★ 7	清洗窗 Washing Window
3	風冷卻器 Wind Cooler	8	埋入式壓力表 Embedded Pressure Pump
4	注油口兼通氣孔 Oil Feeding Port and Vent	★ 9	盲蓋板 Blanked Cap
5	吸油濾網 Suction Filter	★	在上表的零件中6、7、9號為選配件 6,7,9 are optional.

操作要領

Operating essentials

操作要領

啟動時的注意事項

①用油面計檢查裝入油箱中的壓力油是否已達到指定水平。

(1) 上限，黃色標記: 規定油面 (標稱容量)

(2) 下限，紅色標記: 最低油面

液壓油: 一般礦物油相當於ISO VG32的液壓油

②電氣接線請按照右圖的方法正確連接。

③通過電機的反覆啟動、停止的操作方式來排出泵內和配管內的空氣 (如果是無負載迴路排氣會更快)

電動機側 Side of Electric Motor	電源側 Side of Power Source
U	R
V	S
W	T

Operating instructions

Precautions on starting the machine

①Oil level sensor is used to check whether the pressure oil in the tank has achieved the designated level.

(1)Maximum,yellow mark:required level (standard volume)

(2)Minimum,red mark:the lowest level

Hydraulic oil:general mineral oil equals to ISO VG 32

②Please connect electric wires according the table on the right

③Repeatedly switch the eletric motor on and off to displace theair in the pump and pipe(venting will be sooner in zero-loading circuit)

接線錯誤的情況

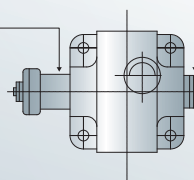
電動機逆向運轉，不排油。如果繼續運轉，泵可能會損壞請用附在輸出側的壓力計確認升壓情況

• When the connecting is wrong the electric reverses and doesn't discharge oil. If it contunue to run like this, the pump may be damaged.Please connect eletric wires according to following instructions.

壓力、排出量的調整方法

How to adjust pressure and displaced volume

壓力調節螺栓
向右旋：壓力上升
向左旋：壓力下降
Pressure Adjusting Bolt
To The Right, Pressure Increase
To The Left, Pressure Decrease



輸出量調節螺栓
向左旋：輸出量減少
向右旋：輸出量增加
Output Adjusting Bolt
To The Right, Increase Output
To The Left, Decrease Output

• 請不要觸摸上述調整螺栓以外的地方
Do Not Touch Other Places Instead of The Bolt

保養、檢查

①油溫：請在10℃~60℃的範圍內使用。

②液壓油更換時間: 初期時在運動三個月後進行更換，此後在確認污染情況後再進行更換，或者每年更換一次。

③油箱內部及過濾器的檢查和清潔：每六個月一次，或者4000小時進行一次（任意一個先到的）。

Maintainance and check

①Oil temperature:please operate the pump when the oil temperature is between 10℃ and 60℃

②Replacing period of hydraulic oil:three months after the iniating operation the replace the oil according to the extent of contamination,or once a year.

③Checking and cleaning the inside of the oil tank:once a half year or every 4000 hours (any period which is shorter)

環境溫度

①溫度：10℃~35℃

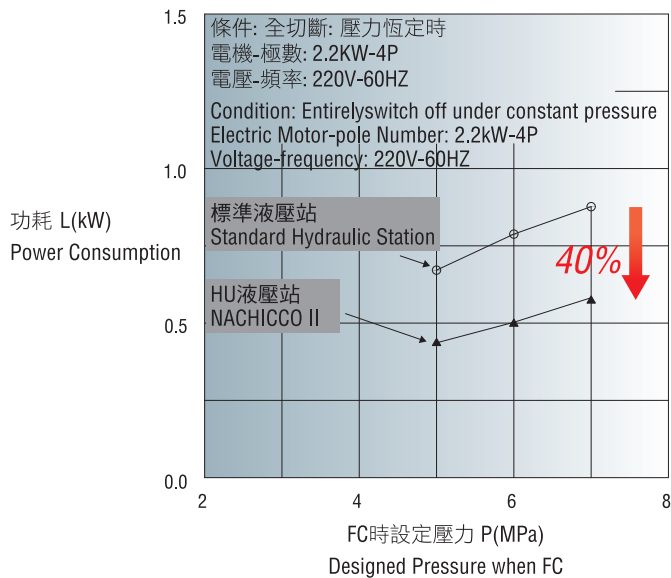
②請勿使用霧狀水溶性冷卻劑

Environment temperature

①Temperature 10℃~35℃

②Do not use vaporous water-soluble coolant

功耗 型號: HU Power Consumption Model: HU



條件

(上圖的數值是在下面條件下的特性)

使用油: 相當於: ISO VG32

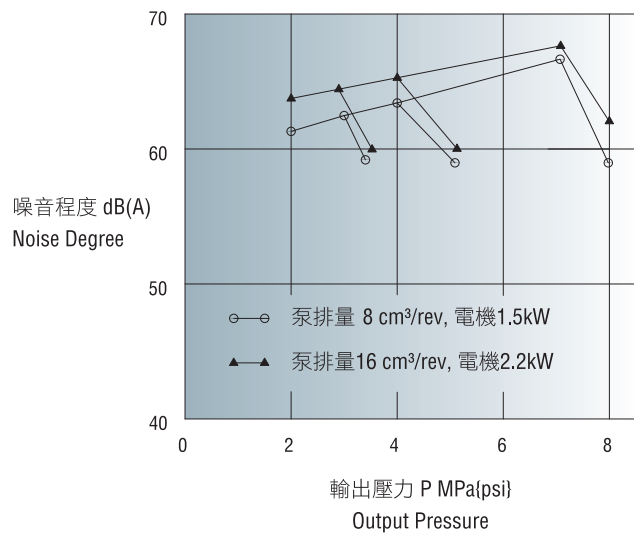
油溫: 40±5°C

轉速: 1800 min-1

噪音測定距離: 液壓站周圍1米四個方位的平均值

PS: 噪音的特性可能因為所置地面、台架等情況以及周圍是否有聲音反射物面產生的情況而不同。

噪音特性 型號: HU Noise Characteristics Model: HU



Condition

(The values on the top graph depict features under following conditions)

Oil Quality: Equals to ISO VG32

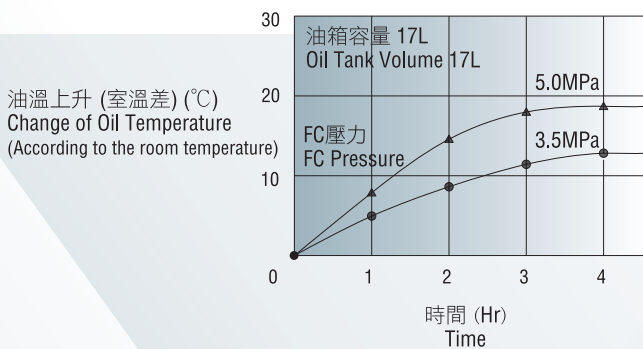
Oil Temperature: 40(+/-)5 °C

Rotational Speed: 1800/min

Noise-measuring distance: Average of four one-meter-away points around the hydraulic station.

PS: Noise characteristics may vary according to the shape and situation of surroundings like whether sound-reflecting faces are existed.

油溫特性 Characteristics of Oil Temperature



條件

(上圖的數值是在下面條件下的特性)

使用油: 相當於: ISO VG32

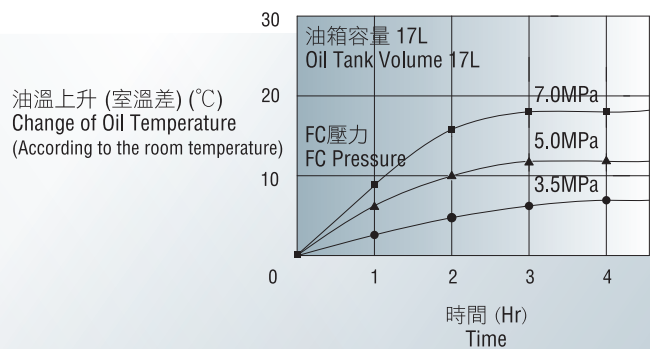
室溫: 29°C

轉速: 1800 min-1

電機: 0.75~2.2kW

PS: 油溫上升會根據實際使用情況的不同而變化, 有時會產生和上面不同的結果

油溫特性 Characteristics of Oil Temperature



Condition

(Numbers on the top figures following features)

Oil Quality: Equals to ISO VG32

Room Temperature: 29°C

Rotational Speed: 1800/min

Electric motor: 0.75~2.2kW

PS: The temperature of oil increases according to actual situations and sometimes the change of temperature differs with that in the figure



CHUYA
HYDRAULIC MACHINE



台灣

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