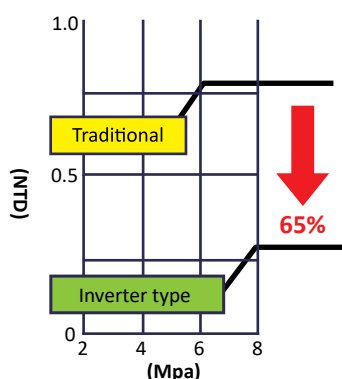
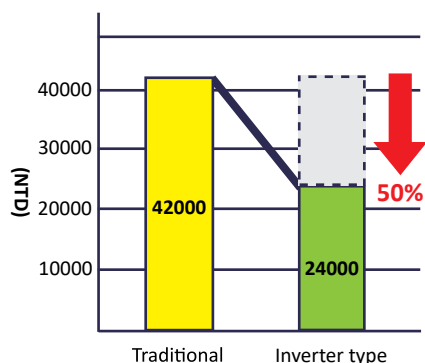




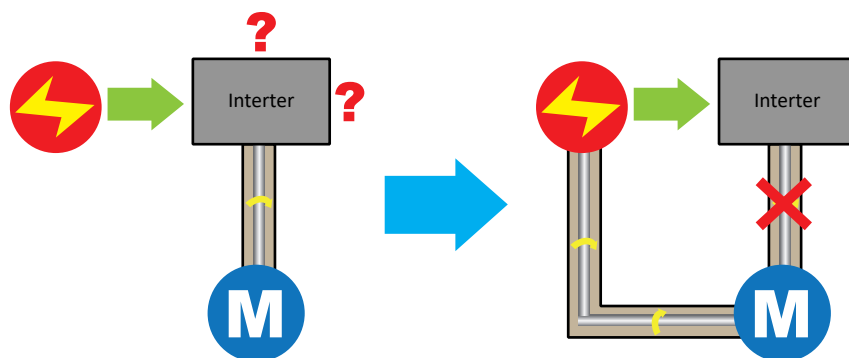
- Efficient power saving 40~65%



### Low noise level 50dB

- 6.0Mpa stand by time.
- Low noise level 50dB.

- Production lines keep running

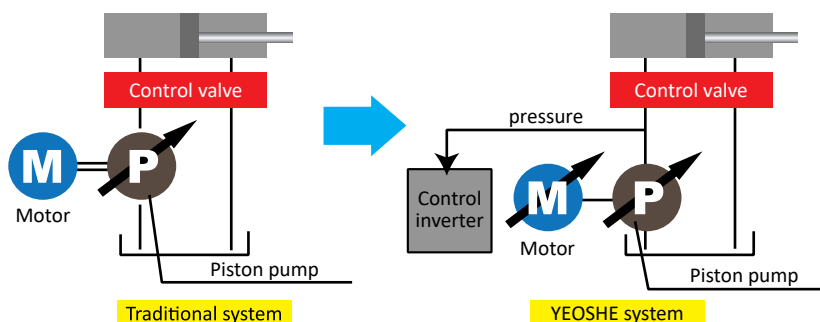


### Easy Operation & Adjustment

- No need to change usual habit.
- Turn on and start.



- System



### Environmental Protection

- Oil TEMP 2°C Raise
- 6.0Mpa stand by time.



Mission of Protecting Polar Bear



## Inverter with Energy- Saving Hydraulic Unit

## • Product Feature

|                                     | Temp raise  | Noise under | Saving |                                                                                                                                                                                                                                                                                              |
|-------------------------------------|-------------|-------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TV<br>Non-Inverter drive            | About + 5°C | About 53dB  | 35%    | 1. Reduces oil temperature, improves machining accuracy, extends the life of components and oil, lowers air conditioning costs, and contributes to energy saving.<br>2. Maintains pressure at 60 kgf/cm <sup>2</sup> (6.0 MPa).<br>3. Average noise level of the hydraulic station is 64 dB. |
| TP<br>Inverter Hydraulic Power Unit | About + 1°C | About 50dB  | 40%    |                                                                                                                                                                                                                                                                                              |
| TS<br>Servo Hydraulic Power Unit    | About + 1°C | About 50dB  | 65%    |                                                                                                                                                                                                                                                                                              |

## • Product Character

|                                             |                                                                                                                                                                                |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Easy operation.                             | 1. No need to change usual habit.<br>2. Turn on the power to start operating.<br>3. According to motor loaded speed, which is no need to precise power adj.or outer direction. |
| Normal operation while inverter breaks off. | 1. During emergencies, switch power distribution to continue operation.<br>2. In case of inverter errors, ensure the production line keeps running.                            |
| Extra drive is attachable                   | 1. TP standard type (non-inverter drive) installs extra inverter is attachable.<br>2. Only suitable Yeoshe brand pump&motor.                                                   |

## • Specification

|                          |                                                                                                   |                                                                 |                   |
|--------------------------|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|-------------------|
| Power                    | 3φAC200~240V ， 50/60Hz<br>3φAC380~480V ， 50/60Hz                                                  |                                                                 |                   |
| Input                    | 0.75 kW/ 1.5 kW/<br>2.2 kW/                                                                       | 3.7 kW/<br>5.5 kW/                                              | 7.5 kW/<br>11 kW/ |
| Pressure adj.            | Pressure adj.<br>A: 10~40            E:25~315<br>B: 15~70<br>C: 20~140<br>D: 25~210               | Vane pump Series<br>A: 8~20<br>B: 15~35<br>C: 30~55<br>D: 50~70 |                   |
|                          | Different place voltage, different power input, standard inverter power pack is AC220V.           |                                                                 |                   |
| Displacement (unloading) | 8, 12, 16, 22, 23, 38, 42, 50, 56, 70                                                             |                                                                 |                   |
| Hydraulic oil            | Mineral oil ( equal ISO VG32)                                                                     |                                                                 |                   |
| Oil TEMP                 | 10~60 ℃                                                                                           |                                                                 |                   |
| Color                    | YEOSHE Standard color :Black gray<br>Other color can be decided by customers.                     |                                                                 |                   |
| TEMP/Humidity            | 0~35 ℃ /20~85%RH(No FOG) Avoiding fog environment, which under using water soluble cutting fluid. |                                                                 |                   |

## Piston Pump Series



## Vane Pump Series





## TS Series

### • Series Instruction (※standard type)

TS - 20 L - 15 - A 15 - B 22 F2 - 10 -

Design no.

#### Optional

F、R Manifold Block

#### Voltage

- ※ 22 : AC220V 50/60Hz ±10%  
38 : AC380V 50/60Hz ±10%  
48 : AC480V 50/60Hz ±10%

#### Thread

|      |          |
|------|----------|
| ※ 10 | PT(RC)   |
| 40   | BSPP(G)  |
| 60   | UNF(SAE) |

#### Liter

Tank (L)  
10 : 10L  
20 : 20L  
30 : 30L  
40 : 40L  
60 : 60L  
80 : 80L

#### Displacement

| Displacement   |                         | Piston pump Series |   |    |
|----------------|-------------------------|--------------------|---|----|
|                |                         | PVS                | V | AR |
| 08             | 08 cm <sup>3</sup> /rev | ●                  | ○ | ●  |
| 10             | 10 cm <sup>3</sup> /rev | ●                  | ○ | ○  |
| 12             | 12 cm <sup>3</sup> /rev | ●                  | ○ | ●  |
| 15             | 15 cm <sup>3</sup> /rev | ●                  | ○ | ○  |
| 16             | 16 cm <sup>3</sup> /rev | ○                  | ○ | ●  |
| 22             | 22 cm <sup>3</sup> /rev | ○                  | ○ | ●  |
| 23             | 23 cm <sup>3</sup> /rev | ○                  | ● | ○  |
| 38             | 38 cm <sup>3</sup> /rev | ○                  | ● | ○  |
| 42             | 42 cm <sup>3</sup> /rev | ○                  | ● | ○  |
| ○ : non-supply |                         |                    |   |    |

Special pumps, please contact YEOSHE.

#### Pump Type

| Piston pump Series |                              |
|--------------------|------------------------------|
| ※ A                | PVS series                   |
| B                  | V series                     |
| C                  | AR series                    |
| D                  | Customization<br>( A10V、PV ) |

#### Pressure adj.

| Piston pump Series |                                                |
|--------------------|------------------------------------------------|
| ※ A                | 10~40 kgf/cm <sup>2</sup>                      |
| ※ B                | 15~70 kgf/cm <sup>2</sup>                      |
| ※ C                | 20~140 kgf/cm <sup>2</sup>                     |
| D                  | 25~210 kgf/cm <sup>2</sup>                     |
| E                  | 25~315 kgf/cm <sup>2</sup><br>(PV series only) |

Different place voltage, different power input, standard inverter power pack is AC220V.

#### Motor Capacity KW

| KW(HP)         |             | Tank (L) |     |     |     |
|----------------|-------------|----------|-----|-----|-----|
|                |             | 10L      | 20L | 30L | 40L |
| 07             | 0.75KW(1HP) | ●        | ●   | ○   | ○   |
| 15             | 1.5KW(2HP)  | ●        | ●   | ○   | ○   |
| 22             | 2.2KW(3HP)  | ●        | ●   | ●   | ●   |
| 37             | 3.7KW(5HP)  | ○        | ○   | ●   | ●   |
| ○ : non-supply |             |          |     |     |     |

#### Drive type

| Drive type                                 | Tank (L) |     |     |     |
|--------------------------------------------|----------|-----|-----|-----|
|                                            | 10L      | 20L | 30L | 40L |
| R : Inside drive type<br>*Right side open  | ●        | ●   | ●   | ●   |
| ※ L : Inside drive type<br>*Left side open | ●        | ●   | ●   | ●   |
| ○ : non-supply                             |          |     |     |     |

TS Series  
servo motor

TP Series  
inverter motor

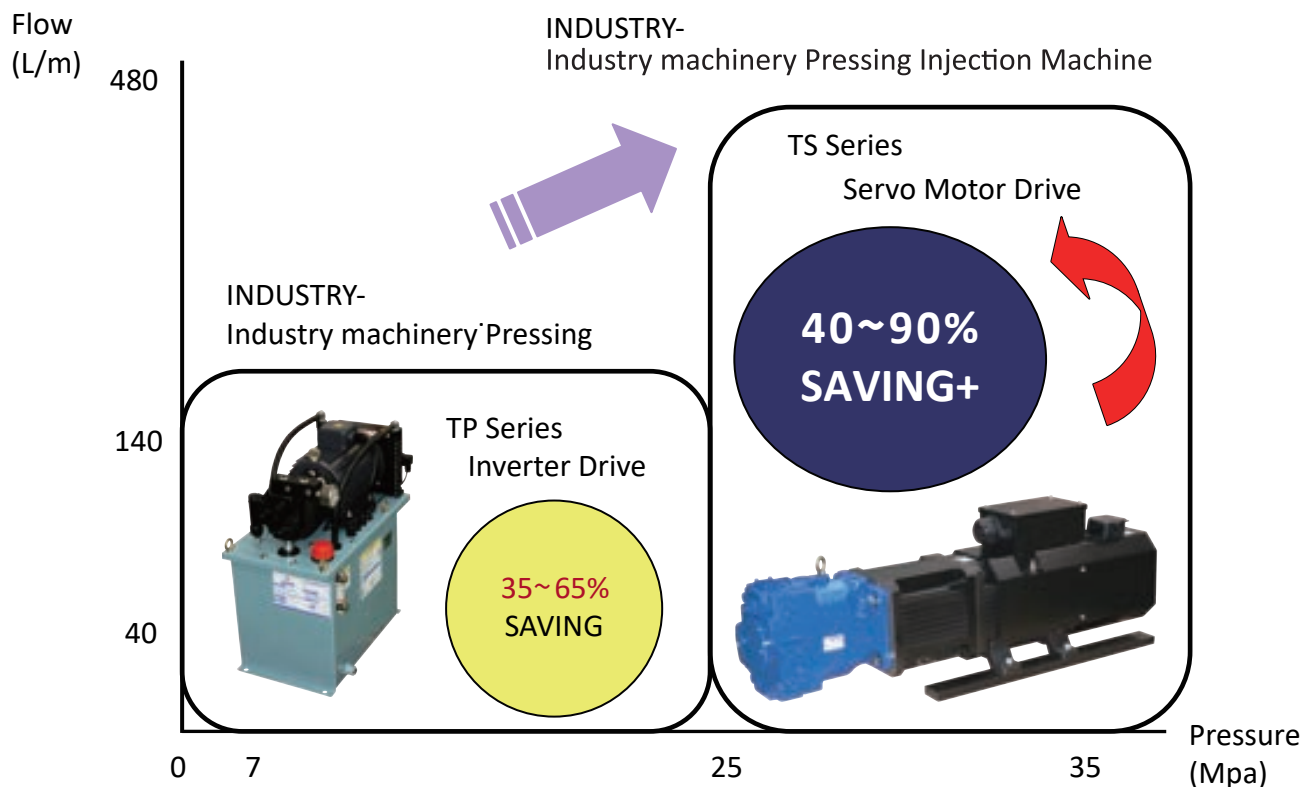
TV Series  
induction motor

See more details





**High Efficiency    High Power Saving    \* Hydraulic System**



**Easy Operation and Reliable Performance**

**PLUS (1)**

All In One    Pressure  
Voltage  
Speed

Immediate start just  
by turning on the  
power



Multifunctional PID Module  
Compact System

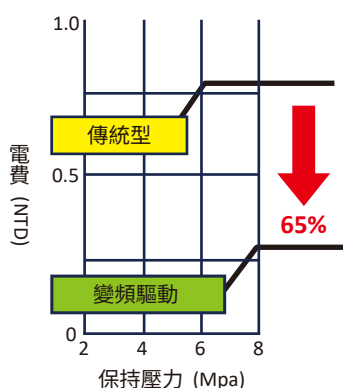
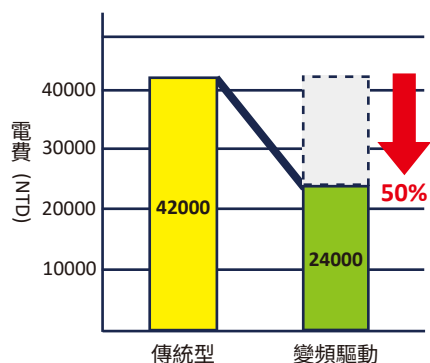
**PLUS (2)**

Auto Error Display system

**Error Display List 1**

|                                   |                                       |                                      |
|-----------------------------------|---------------------------------------|--------------------------------------|
| EEr                               | Ad_Err                                | OC                                   |
| Motor driver STOP/STOP            | Analog input/output                   | Control protection                   |
| OE                                | LEI                                   | GF                                   |
| Over temperature protection       | Reluctance motor over load protection | Inductance protection                |
| OH                                | OL                                    | OL I                                 |
| Over heat protection              | Motor over load protection            | Inductance over load protection      |
| OLO                               | thr                                   | PRdF                                 |
| Over load interrupting protection | Output voltage/over load protection   | U.P. 200°C Operation rate protection |
| SC                                |                                       |                                      |
| Source module over heat           |                                       |                                      |

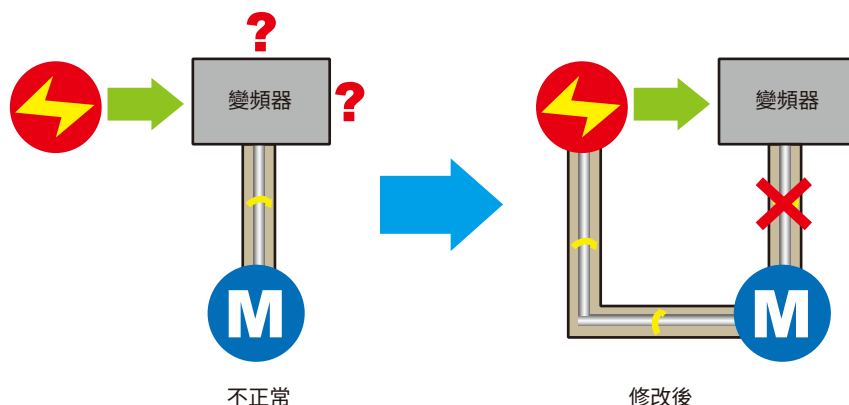
## 卓越省電效果，大約省下40~60%



### 低噪音值50dB

- 低噪音50dB。
- 6.0Mpa連續保壓時。

## 變頻器異常不影響生產

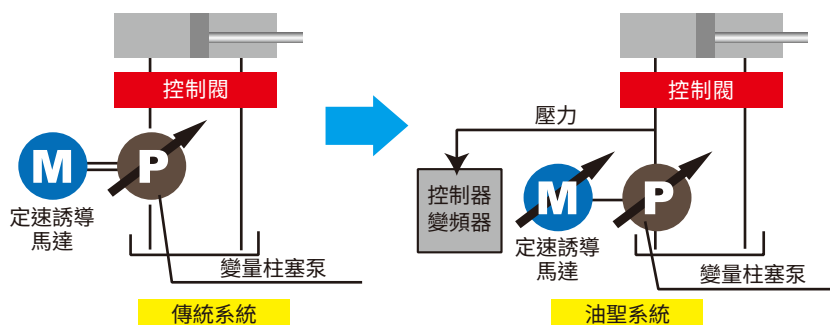


### 簡單操作，易調整

- 無須改變原有使用習慣。
- 接通電源即可使用。



## 構成系統



### 環境保護

- 油溫、室溫，上升2°C
- 6.0Mpa連續保壓時



北極熊的家，你我共同守護

Mission of Protecting Polar Bear





## 變頻器驅動節能變量泵液壓站

## ● 產品特性

|            | 溫升控制    | 運轉低噪音  | 省電  | 1. 有效降低油溫的上升，提高了機械加工精度、延長密封部件和液壓油的使用壽命，降低了工廠內空調費用等，為節能減碳做出貢獻。<br>2. 60kgf/cm <sup>2</sup> (6.0MPa) 連續保壓<br>3. N4個方向平均值標準液壓站噪音值為64dB |
|------------|---------|--------|-----|-------------------------------------------------------------------------------------------------------------------------------------|
| TV<br>傳統油箱 | 約 + 5°C | 約 53dB | 35% |                                                                                                                                     |
| TP<br>變頻油箱 | 約 + 1°C | 約 50dB | 40% |                                                                                                                                     |
| TS<br>伺服油箱 | 約 + 1°C | 約 50dB | 65% |                                                                                                                                     |

## ● 產品特色

|                  |                                                                              |
|------------------|------------------------------------------------------------------------------|
| 操作簡單             | 1. 無須改變原本的使用習慣。<br>2. 接通電源即可啟動。<br>3. 根據負荷壓力自動控制電動機的轉速，不需要精細的電器調整以及來自外部的指令等。 |
| 在斷開變頻器的狀態下也能正常運作 | 1. 在緊急情況下，切換電力分配以持續運行。<br>2. 當變頻器發生故障時，確保生產線不停機。                             |
| 標準液壓站可後追加變頻器功能   | 1. TP 標準型（非變頻驅動）可加裝額外的變頻器。<br>2. 僅適用於油聖品牌的泵浦與馬達。                             |

## ● 規格

|                                      |                                                                             |                                                      |                   |
|--------------------------------------|-----------------------------------------------------------------------------|------------------------------------------------------|-------------------|
| 電源電壓                                 | 標準220V3 $\phi$ AC200~240V，50/60Hz<br>標準220V，3 $\phi$ AC380~480V，50/60Hz     |                                                      |                   |
| 電動機功率(kW)<br>額定輸入電流                  | 0.75 kW/ 1.5 kW/<br>2.2 kW/                                                 | 3.7 kW/<br>5.5 kW/                                   | 7.5 kW/<br>11 kW/ |
| 壓力調整範圍<br>(kgf/cm <sup>2</sup> )     | 柱塞泵系列<br>A: 10~40            E:25~315<br>B: 15~70<br>C: 20~140<br>D: 25~210 | 葉片泵系列<br>A: 8~20<br>B: 15~35<br>C: 30~55<br>D: 50~70 |                   |
|                                      | 因各地區電壓的不同，電動機最大扭力會有差異。<br>變頻液壓站之標準壓力值，以出廠電壓AC220V為主。                        |                                                      |                   |
| 排出量 (無負荷時)<br>(cm <sup>3</sup> /rev) | 8, 12, 16, 22, 23, 38, 42, 50, 56, 70                                       |                                                      |                   |
| 液壓油                                  | 一般礦物類液壓油 (相當於ISO VG32)                                                      |                                                      |                   |
| 油溫                                   | 10~60 ℃                                                                     |                                                      |                   |
| 塗裝顏色                                 | YEOSHE標準顏色：大黑<br>如欲指定顏色，請與業務人員接洽。                                           |                                                      |                   |
| 周圍溫度／濕度                              | 0~35℃ / 20~85%RH (應無結霧)<br>(請避開水溶性切削液的氣霧環境。)                                |                                                      |                   |

## 柱塞型



## 葉片型





## TS 系列

### ● 訂貨型號 / 標準產品 (※標準型)

TS - 20 L - 15 - A 15 - B 22 F2 - 10 -

設計編號

選配件

F、R 油路塊

電壓

※ 22 : AC220V 50/60Hz ±10%

38 : AC380V 50/60Hz ±10%

48 : AC480V 50/60Hz ±10%

※

牙型

|    |          |
|----|----------|
| 10 | PT(RC)   |
| 40 | BSPP(G)  |
| 60 | UNF(SAE) |

油箱容量

公升

10 : 10L

20 : 20L

30 : 30L

40 : 40L

60 : 60L

80 : 80L

泵浦排量

| 排量 |                         | 柱塞泵系列 |   |    |
|----|-------------------------|-------|---|----|
|    |                         | PVS   | V | AR |
| 08 | 08 cm <sup>3</sup> /rev | ●     | ○ | ●  |
| 10 | 10 cm <sup>3</sup> /rev | ●     | ○ | ○  |
| 12 | 12 cm <sup>3</sup> /rev | ●     | ○ | ●  |
| 15 | 15 cm <sup>3</sup> /rev | ●     | ○ | ○  |
| 16 | 16 cm <sup>3</sup> /rev | ○     | ○ | ●  |
| 22 | 22 cm <sup>3</sup> /rev | ○     | ○ | ●  |
| 23 | 23 cm <sup>3</sup> /rev | ○     | ● | ○  |
| 38 | 38 cm <sup>3</sup> /rev | ○     | ● | ○  |
| 42 | 42 cm <sup>3</sup> /rev | ○     | ● | ○  |

○ : 不供應

特殊泵請聯絡油聖

壓力調整範圍

| 柱塞泵系列 |                                          |
|-------|------------------------------------------|
| ※ A   | 10~40 kgf/cm <sup>2</sup>                |
| ※ B   | 15~70 kgf/cm <sup>2</sup>                |
| ※ C   | 20~140 kgf/cm <sup>2</sup>               |
| D     | 25~210 kgf/cm <sup>2</sup>               |
| E     | 25~315 kgf/cm <sup>2</sup><br>(僅限 PV 系列) |

因各地區電壓的不同，電動機最大扭力會有差異。變頻液壓站之標準壓力值，以出廠電壓 AC220V 為主。

泵浦類型

| 柱塞泵系列 |                    |
|-------|--------------------|
| ※ A   | PVS 系列液壓泵浦         |
| B     | V 系列變量柱塞泵          |
| C     | AR 型軸向柱塞泵          |
| D     | 客製化泵浦<br>(A10V、PV) |

電機功率

| 電機功率 (馬力) |             | 油箱容積 (L) |     |     |     |
|-----------|-------------|----------|-----|-----|-----|
|           |             | 10L      | 20L | 30L | 40L |
| 07        | 0.75KW(1HP) | ●        | ●   | ○   | ○   |
| 15        | 1.5KW(2HP)  | ●        | ●   | ○   | ○   |
| 22        | 2.2KW(3HP)  | ●        | ●   | ●   | ●   |
| 37        | 3.7KW(5HP)  | ○        | ○   | ●   | ●   |

○ : 不供應

驅動形式

| 驅動型式<br>(請參閱外型尺寸)                  | 油箱容積 (L) |     |     |     |
|------------------------------------|----------|-----|-----|-----|
|                                    | 10L      | 20L | 30L | 40L |
| R : 內藏式變頻器驅動<br>變頻器測開<br>馬達風扇在右側   | ●        | ●   | ●   | ●   |
| ※ L : 內藏式變頻器驅動<br>變頻器測開<br>馬達風扇在左側 | ●        | ●   | ●   | ●   |

○ : 不供應

TS 系列  
伺服馬達

TP 系列  
變頻馬達

TV 系列  
感應馬達

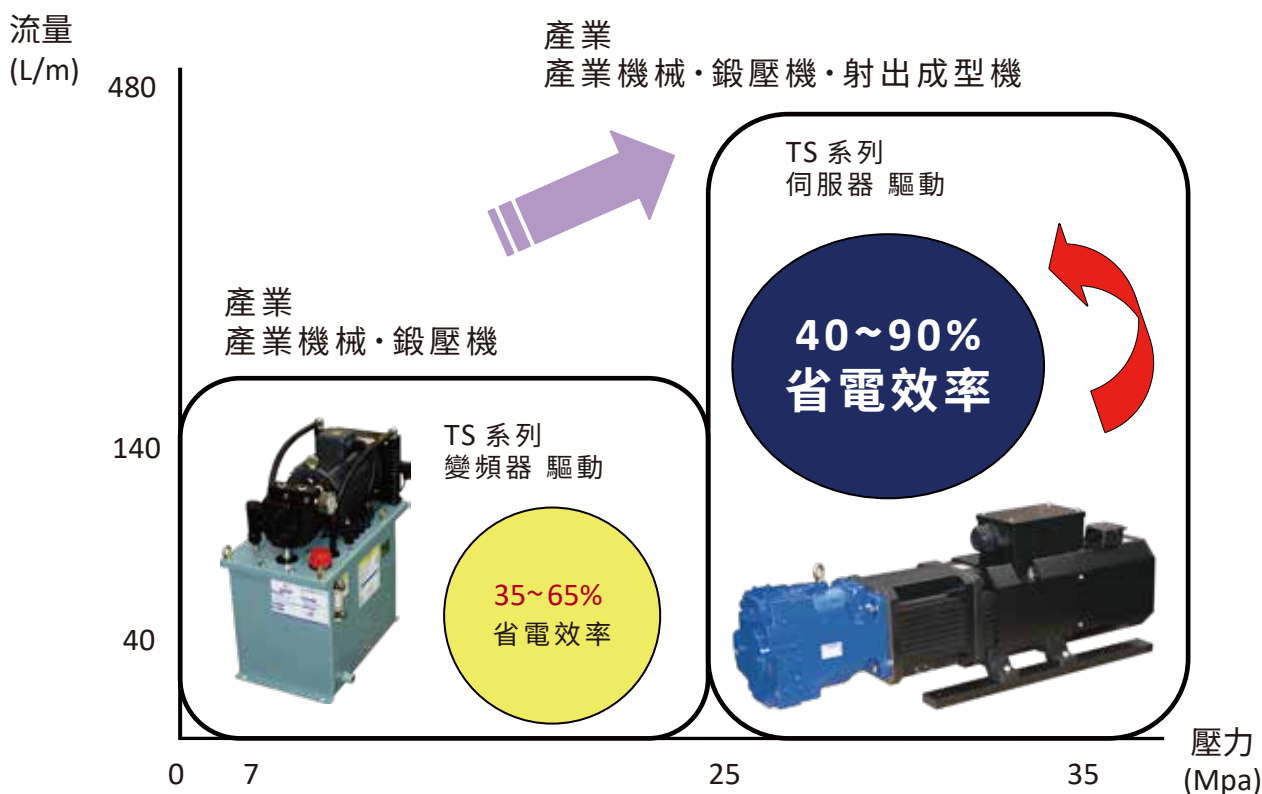
看更多詳情



高效率

高省電

\* 油壓系統



## 操作簡單與優異性能

優化(1)

一體式

壓力  
電壓  
轉速

電源啟動  
即開即用



多功能 PID 模組  
體積小 多功能設計

優化(2)

自動偵測錯誤顯示

### Error Display List 1

| ERR                             | AD Err                             | OC                                 |
|---------------------------------|------------------------------------|------------------------------------|
| EEr                             | Ad Err                             | OC                                 |
| Memory device (EEPROM)          | Analog digital faulting            | Current protection                 |
| OE                              | LEI                                | CF                                 |
| Over power protection           | Robotics power over low protection | heating protection                 |
| OH                              | OL                                 | OL I                               |
| Over heat protection            | Motor over load protection         | Inverter over load protection      |
| OLO                             | thr                                | PA/F                               |
| Over load inspecting protection | Outside collect heat protection    | KP-202C Operation error protection |
| SC                              |                                    |                                    |
| Severely scale free brake       |                                    |                                    |