

HAOTHING

Professional customized machinery manufacturer
客製化專用機械設備製造商



豪星機電 HTEM
首華機電 SHEM
(上海子公司 Shanghai branch)

市場定位及營業項目

豪星是專業機械設備研發製造商，
也接受 OEM / ODM的委託開發

公司概要

負責人 陳昱仁
總經理 陳昱仁
員工數 豪星：100人 首華：50人
工廠面積 豪星：1400坪 首華：1200坪

Market Orientation and Business Field

HAO THING is professional & customized machinery developer and manufacturer, and also accepts OEM and ODM commissioned development.

Summary

President : CHEN,YUN ZEN
General Manager : CHEN,YUN ZEN
Staffing : Hao Thing-100 person ;Shou Hua-50 person
Area : Hao Thing - 4600 m² ; Shou Hua - 4000 m²

- 1978 成立豪星機電工業股份有限公司
- 1982 成立台北分公司
- 1992 代理TECHEK INC. 焊接控制器
高頻精密焊接電源
- 1999 成立首華機電有限公司(上海工廠)
- 2002 成立越南辦事處
- 2008 成立保定工廠
- 2013 第二廠區動工
- 2015 通過ISO 9001:2008與CE認證、
第二廠區竣工

- 1978 The establishment of Hao Thing Electricity Machinery Co., Ltd.
- 1982 The establishment of Taipei office
- 1992 As an agent with the welding controller and H. F. precise welding power for TECHMEK INC.Japan
- 1999 The establishment of Shou Hua Electricity Machinery Co., Ltd. (Shanghai factory , China)
- 2002 The establishment of Vietnam office
- 2008 The establishment of Baoding company(China)
- 2013 Start to Building 2nd plant in Kaohsiung, Taiwan
- 2015 ISO 9001:2008 certified, CE approval
2nd factory built completed finish

客製化設備

Customization

專用機設備

Special Purpose

自動化設備

Automation

委託開發專案

OEM / ODM

主要產製機械設備系列

MAIN MACHINERY CATEGORIES



汽車消音器生產線設備(日系 / 歐系)
Equipment of car muffler production line (Japanese Type / European Type)



汽車觸媒轉換器封裝生產線設備
Equipment of car catalytic converter canning production line



汽機車減震器生產線設備
Equipment of car/motorcycle shock absorber production line



汽機車油箱專用設備
Special-purpose equipment of fuel tank



汽機車煞車(碟)片專用設備
Special-purpose equipment of brake shoe (pad)



加熱機 / 淬火機專用設備
Heat treatment machine, H.F./M.F. quenching machine



機車輪圈專用設備
Special-purpose equipment of motorcycle rim



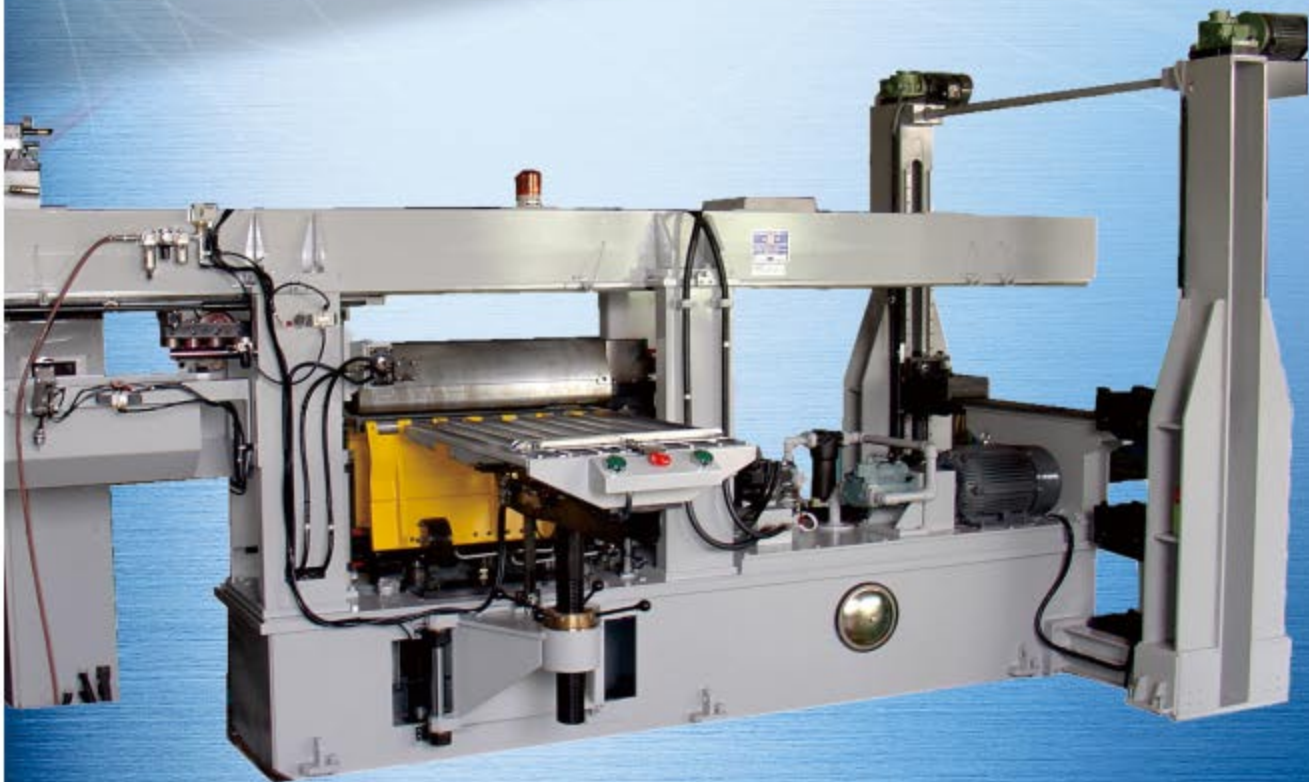
客製化焊接設備
Customized welding equipment



汽車排氣管系統生產線設備
EQUIPMENT OF CAR EXHAUST SYSTEM PRODUCTION LINE

HAO THING

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**Step1- 鎖縫式殼體成形機(歐規)****Lock seam forming machine(Euro. type)**

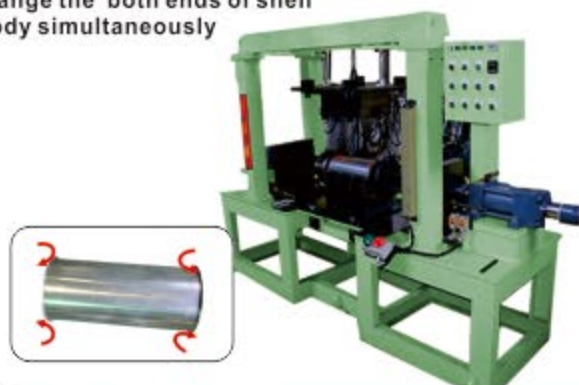
板材經碾壓成型，滾輪的鎖合接縫完成消音器筒體。
Form the sheet by rolling and lock-seaming

**Step1- 二重卷式殼體成形機(日規)****Rolling & forming machine(JP. type)**

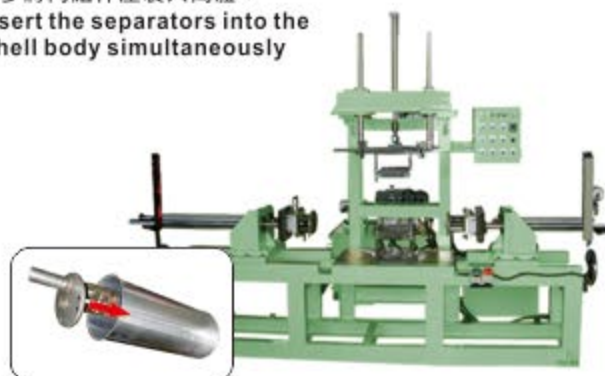
板材經捲圓成型，多點焊接形成消音器筒體。
Form the sheet by rolling and multi-spot welding

**Step2 - 殼體翻邊機****Shell body flanging machine**

同步將殼體兩端進行翻邊工程。
Flange the both ends of shell body simultaneously

**Step3- 立式/臥式分隔板插入機****Vertical/ Horizontal separators inserting machine**

同步將內組件壓裝入筒體。
Insert the separators into the shell body simultaneously

**Step4 - 多點焊接機****Multi spots welding machine**

隔板內組件之多點焊接工程
Multi-spots welding for the separator and the shell body

**Step5 - 雙頭封蓋機****Double end caps sealing machine**

消音器筒體兩端端蓋的封口工程
Seal two end caps of the shell body



Step5 - 全伺服封蓋機
NC servo double end caps sealing machine

採用精確的伺服系統控制來完成
兩端端蓋的封口工程
Seal end caps of the shell
body by accurate control
of the servo system



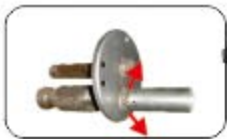
臥式CO2雙槍焊接機
Horizontal CO2 dual guns welding machine

用於消音器總成·分總
成的連接管環縫焊接
The round welding for
assembly of the pipe
and muffler



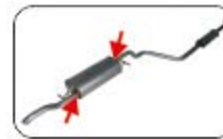
消音器內組件管隆脊機
Pipe ridge - expanding machine

用於消音器內組件管的擴管工程·
Expand the pipe Dia.
for fixing



消音器總成CO2焊接機
Muffler Assy. CO2 welding machine

用於消音器總成的連接管環縫焊接·
The round welding for
assembly of the pipe
and muffler



適用範圍

1. 外型：圓形/橢圓/矩形與不規則形的消音器
2. 材質：碳鋼鐵片/不鏽鋼/鍍鋅板/鍍鋁板
3. 殼體直徑：φ120 ~ 300mm(Euro); φ80 ~ 340mm(JP)
4. 殼體長度：250-1000 mm
5. 板材厚度：單層1.25mm；雙層1.75mm

設備特點

1. 完美的設計具有高穩定生產效率·品質媲美歐美日設備
2. 配備有快速換模設計·換模後即可快速且順利產出
3. 焊接控制使用微電腦電流控制系統·完善的在線檢測功能保證產品的品質穩定

Suitable range

1. Shape: round/oval/rectangle/irregular type mufflers
2. Material: Carbon-steel/stainless steel /galvanized/ aluminium
3. Shell body diameter: φ120 ~ 300 mm(Euro); φ80 ~ 340 mm(JP)
4. Shell body length: 250 ~ 1000 mm
5. Thickness: Single layer 0.5 ~ 1.0 mm ; Double layers 1.25~1.75mm

Characteristic:

1. Excellent design increases the stability and efficiency of production, and the quality is comparable with the equipment from Europe/USA /Japan.
2. Machines are designed with "quick mold change "unit, which produce qualified product quickly after changing new mold.
3. Micro current control system is adopted for welding process which provides on-line examination to guarantee qualified products.

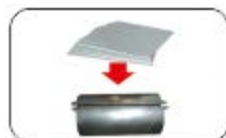
Process





Step1-殼體捲圓機 Shell rolling machine

板材捲圓成筒體的加工，採用三滾輪捲圓，確保捲圓部分的真圓度。
Adopting triple-roller design ensures the precise circumference of shell.



Step2-油壓式整形機 Hydraulic shell trimming machine

殼體開口處弧度的整形，讓殼體具備下一道焊接的要求。
Adopting trimming mold rounds the shell for the next welding process.



Step3-隧道式等離子焊接機 Tunnel type plasma shell body welding machine

隧道式等離子焊接。
Tunnel type plasma shell body welding



Step4-殼體端部切斷機 Shell body end cutting machine

殼體端部切削
Cutting the ends of the shell body



Step5-載體直徑與襯墊測量機 Catalyst brick Dia. & mat Wt. measurement machine

1. 觸媒外徑的CCD檢測
2. 襯墊重量秤重
3. 檢測資料二維條碼列印
4. 載體與襯墊之包裹
1. Measure Brick Dia. by CCD camera
2. Measure Mat Wt. by scale
3. Print the 2D-bar code
4. Wrap the brick and mat



Step6-數控伺服壓裝機 NC servo pressing machine

將包裹好的載體與襯墊裝進殼體
Pressing the wrapped mat & brick into the shell body



Process

STEP-1

殼體捲圓
Shell rolling

STEP-2

油壓整形
Shell trimming

STEP-3

隧道式離子焊接
Tunnel plasma welding machine

STEP-4

端部切斷
Ends cutting

STEP-5

載體測徑與襯墊秤重檢測
Brick Dia. & Mat Wt. measuring

Step7-殼體縮徑機

Shell body reducing machine

- 1. 根據GBD值進行筒體之縮徑。
- 2. 八/十二瓣縮徑模具設計
- 1. Reduce Dia. of the shell body according to GBD value
- 2. 8/12 segmental dies design



Step8-載體壓裝力檢測機

Brick shear stress detecting machine

- 1. 載體壓裝力的測試
- 2. 輸出GO/NO GO訊號。
- 1. Brick shear stress detecting
- 2. Output GO/NO GO alarm



Step9-CNC伺服旋壓機

CNC servo spinning machine



Eccentric circle



Concentric circle



CNC雙端錐伺服旋壓機

CNC servo spinning machine (Twin cones)



旋壓機適用範圍

- 1. 殼體直徑：φ 80 ~ 160 mm
- 2. 殼體長度：130 ~ 600 mm
- 3. 板材厚度：1.0 ~ 2.0 mm
- 4. 殼體材質：SUS316/SUS409
- 5. 觸媒陶瓷載體外徑：φ 77 ~ 150 mm
- 6. 觸煤載體長度：70 ~ 120 mm
- 7. 載體直徑公差範圍：± 1mm

Spinning machine suitable range

- 1. Shell body diameter: φ 80 ~ 160 mm
- 2. Shell body length: 130 ~ 600 mm
- 3. Plate thickness: 1.0 ~ 2.0 mm
- 4. Shell body material: SUS316 / SUS409
- 5. Brick outer diameter: φ 77 ~ 150 mm
- 6. Brick length: 70 ~ 120 mm
- 7. Brick diameter tolerance: ± 1mm

STEP-6
伺服壓裝
Servo pressing

STEP-7
殼體縮徑
Shell reducing

STEP-8
壓裝力檢測
Shear stress
detecting

STEP-9
旋壓縮徑
Spinning reducing

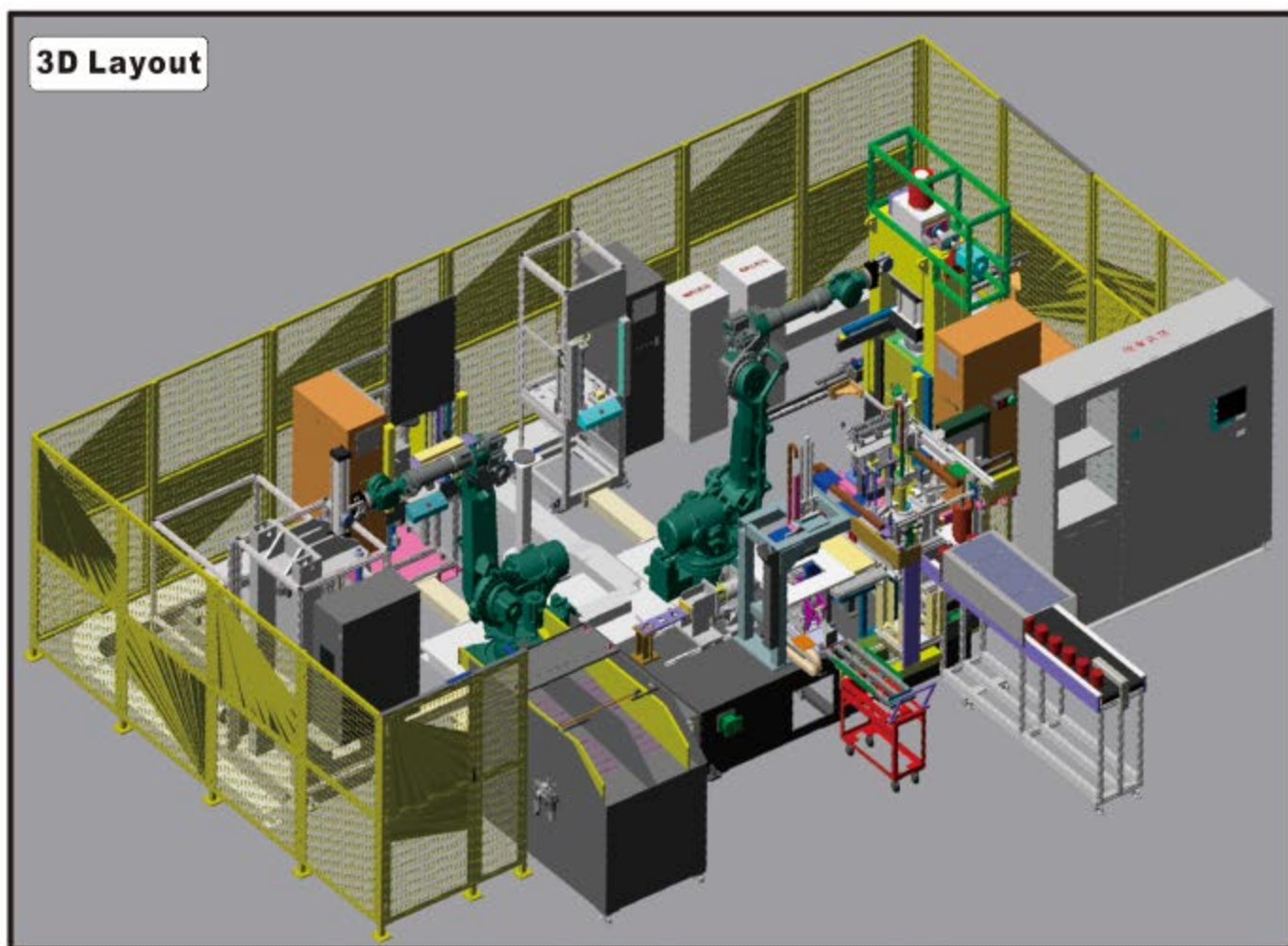




Layout



3D Layout



Process

STEP-1

載體測徑/襯墊秤重/自動包裹
Brick Dia./Mat Wt inspection
wrapping and stuffing

STEP-2

殼體縮徑
Shell reducing

STEP-3

GBD檢測
GBD measuring

STEP-4

刻字
Marking

STEP-5




端口縮口
Ends diameter
reducing port

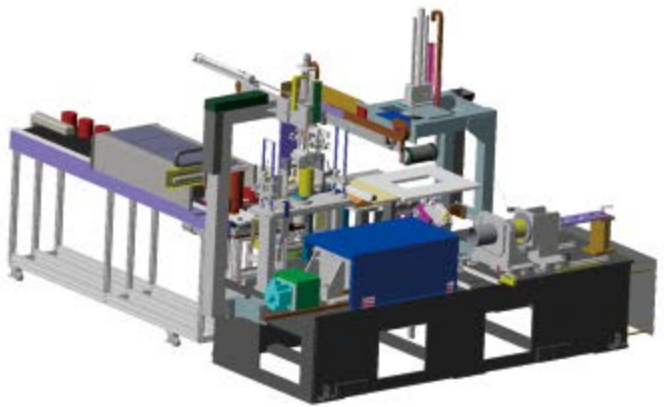
Step1-載體直徑測量/襯墊秤重機/載體襯墊自動包裹機

Automatic brick dia. measuring / mat weighting / automatic wrapping machine

- 陶瓷載體直徑CCD檢測
- 襯墊重量測量
- 自動包裹裝置
- Measure brick Dia. by CCD camera
- Measure mat Wt. by scale
- Auto wrap the brick and mat

主要機構示意圖

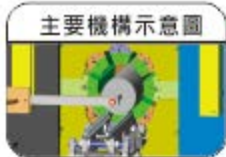
<p>載體直徑CCD裝置 Catalyst brick dia. CCD inspection device</p> 	<p>襯墊秤重機 Mat Weight measuring machine</p> 	<p>自動包裹機 Automatic wrapping & stuffing machine</p> 
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Step2-數控縮徑機

NC reducing machine

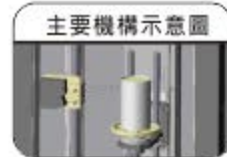
1. 根據GBD值進行筒體之縮徑
2. 八/十二瓣縮徑模具設計
1. Reduce Dia. of the shell body according to GBD value
2. 8/12 segmental dies design.



Step3-GBD測量機

GBD measuring machine

1. 測定縮徑後的筒體外徑
2. 比對GBD值
3. 判別是否合格
1. Measure the reduced shell Body diameter
2. Cross-check with GBD value
3. Output GO/NO GO alarm



Step4-刻字機

Marking machine

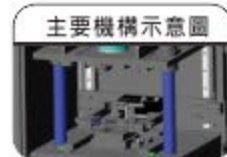
採用側向方式刻字
Engrave in horizontal direction



Step5-端口縮口機

End diameter reducing machine

筒體的端口進行縮口
Reduce port the ends diameter of shell's both ends





消音器產品 Muffler product

· 適用產品範圍

- 1、小轎車/休旅車之消音器
- 2、產品材質：鍍鋅板、鍍鋁板、SUS316/SUS409/SUS439
- 3、產品外型：圓形、橢圓形、方形等多種不同外型產品之需求

· 設備特點：

- 1、完美的設計媲美歐美日設備，具有高穩定生產效率。
- 2、全系列產品均具有快速模具更換設計，換裝模具後即能快速順利產出合格產品。
- 3、焊接控制採用微電腦電流控制系統，完善的在線檢測功能產出產品品性穩定。

· 設備主要客戶：

- 1、汽車行業日本系統：日產、豐田、本田、三菱汽車零件海外OEM、合資工廠。
- 2、汽車行業歐美系統：GM、FORD汽車零件海外OEM、合資工廠。

觸媒轉換器產品
Catalytic converters product

· Suitable scope

- (1) Mufflers for dedan car / SUV.
- (2) Material : galvanized / aluminium steel.
- (3) Muffler outlook: circle 、 oval 、 square... etc., kinds of different outlook available.

· Characteristic :

- (1) Excellent design is compared favorably with the Occidental machines, steady and efficient performance provided themselves.
- (2) All series of our machines are designed with "Quick Mould Change" unit , that will save much time during the period of mould switch.
- (3) The welding current controller adopted by micro processor is excellent and powerful for improving the performance of welding machine.

· Main Customers :

- (1) Auto Industry (Japanese System) : NISSAN, TOYOTA, HONDA, MITSUBISHI, OEM partners and Joint Venture Factory.
- (2) Auto industry (european system) : GM、FORD, OEM partners and Joint Venture Factory.

排氣管總成產品
Exhaust Assy. product

PHILOSOPHY 經營理念





汽機車減震器組裝生產線設備

EQUIPMENT OF CAR / MOTORCYCLE SHOCK ABSORBER PRODUCTION LINE

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A.外部組件生產設備 External component manufacturing equipment

A1. 電容式浮凸焊接機

Capacitive projection welding machine

固定架AB片的焊接
Projection welding for
AB bracket



A2. 通用型浮凸焊接機

Projection welding machine

固定架AB片的焊接
Projection welding for
AB bracket



A3. 壓裝機

Pressing machine

將底蓋壓裝至外管
Press the end cap onto
the outer tube



A4. 立式輪焊機

Vertical seam welding machine

底蓋與外管焊接之輪焊
Seam welding for
end cap/outer tube



A5. 壓裝機

Pressing machine

固定座與外管的壓裝
Press the knuckle bracket onto
the outer tube



A6. 雙槍CO2環焊機

Dual gun CO2 round welding machine

外管固定座/底蓋/
彈簧盤與儲油管的環焊
Round CO2 welding
for the fixed bracket/
end cap/ spring seat
with the oil storage
tube

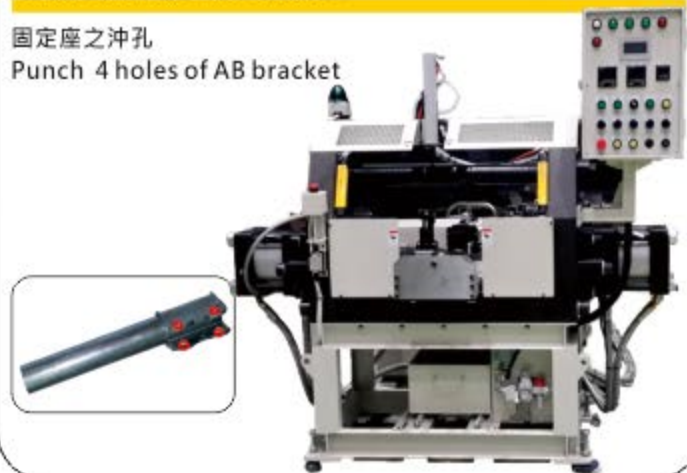


A.外部組件生產設備 External component manufacturing equipment

A7. 沖孔機

Punching machine

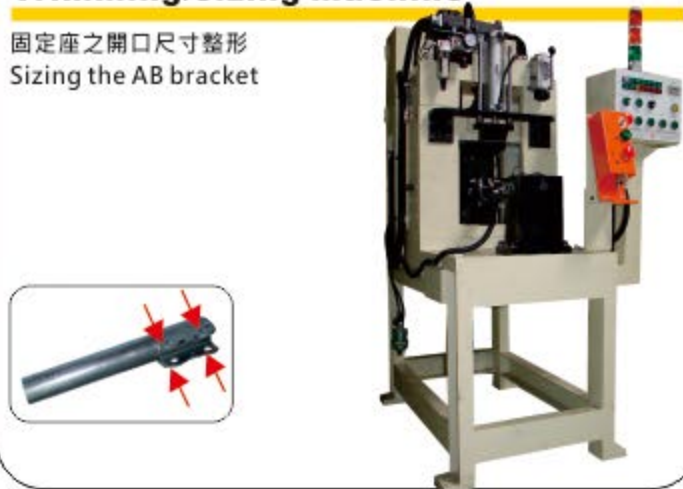
固定座之沖孔
Punch 4 holes of AB bracket



A8. 整形機

Trimming/sizing machine

固定座之開口尺寸整形
Sizing the AB bracket



A10. 浮凸焊接機

Projection welding machine

油管支架與儲油管之浮凸焊接
Projection welding for the oil tube bracket / oil storage tube



A9. 雙工位機器人焊接機

Double stations robot welding machine

油管支架補強焊接
Robot welding for reinforcing the oil tube bracket



A11. 數控測漏機

Digital leakage testing machine

氣體充填·並以數控測漏儀
判定洩漏值是否合格。
Filling air and using digital
tester to detect the leakage



A12. 立式輪焊機

Vertical seam welding machine

油封座與儲油管封口縫焊
Seam welding for sealing
cap/oil storage tube





A.外部組件生產設備 External component manufacturing equipment

A13. 單槍CO2環焊機

Single gun CO2 round welding machine

儲油管/彈簧盤之補強焊
CO2 round welding for
reinforcing the oil
storage tube and
spring seat



A14. 單槍CO2環焊機

Single gun CO2 round welding machine

底蓋/固定座/儲油管之補強焊
CO2 round welding for
reinforcing the
end cap/knuckle bracket
/oil storage tube



外部組件對應機械

Corresponding chart of external component machinery

固定架AB片
AB bracket



浮凸焊接機
Projection
welding machine

沖孔機
Punching
machine

壓裝機
Pressing
machine

整形機
Trimming
machine

外管
Outer tube



壓裝機
Pressing
machine

立式輪焊機
Vertical seam
welding machine

雙槍CO2環焊機
Dual gun CO2 round
welding machine

數控洩漏機
Digital control
leakage testing machine

B.內部組件生產設備 Internal component manufacturing equipment

B1. 高週波NC全自動淬火機

H.F. NC auto hardening machine

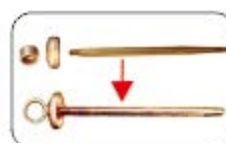
心軸之淬火加熱硬化
Harden the shaft of
shock absorber
by heating



B2. 浮凸鐸接機

Projection welding machine

將吊環·底蓋與心軸焊接成零件
Projection welding between
the eye ring, end cap and shaft



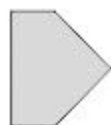
內部組件加工組立

Internal component Assembly Process

活塞桿高週波淬火
Piston rod
H. F. Hardening



吊環·底蓋·心軸焊接
Eye ring end cap
and shaft welding



C1.全自動碰焊機

Auto projection welding machine

減震器吊環與底蓋之全自動焊接
Automatic welding for the
eye ring and base cap



C2.自動輪焊機

Auto seam welding machine

減震器底蓋與外管之自動輪焊
Automatic seam welding for
the base cap and outer tube



C3.單槍CO2補強焊接機

Single gun CO2 welding machine

吊環/底蓋/儲油管之補強焊
Single gun welding for
reinforcing the eye ring /
base cap/ oil storage
tube



C4.雙槍MAG直縫焊機

Dual gun MAG seam welding machine

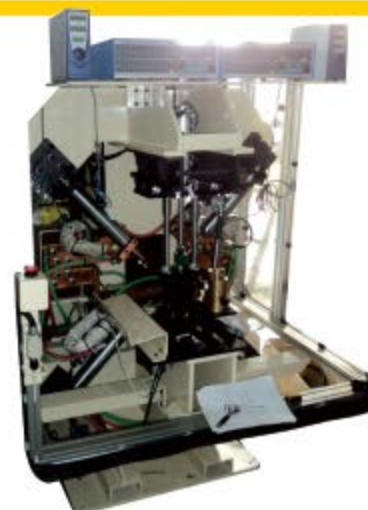
吊環/底蓋/儲油管之補強焊
Dual gun welding for
reinforcing the eye ring /
base cap/ oil storage
tube



C5.四點焊接機

4 spot welding machine

防塵套筒之四點焊
4 spot welding for the
dust tube



C6.四點焊接機

4 spot welding machine

活塞桿定位環之焊接
Welding for the
piston rod stopper



**C7. 充氣機****Aerating machine**

外管氣體充填。
Filling nitrogen gas
into outer tube

**C8. 測漏機****Leakage testing machine**

底蓋與儲油管焊接完成後全檢式測漏
Check the leakage by
submerging workpiece
into water

**C9. 六角孔螺絲鍛縮機****Forging machine**

機車前減震器六角孔螺絲之鍛縮
Forge for hex socket cap screws

**C10. 六角孔螺絲油壓成形機****Forming machine**

機車前減震器六角孔螺絲之
油壓成形
Shape forming for hex
socket cap screws

**減震器(套筒式)生產流程 Car floating shock absorber production line process**

吊環與底蓋焊接
Eye ring and
base cap welding

底蓋與外管輪焊
Base cap and outer
tube seam welding

吊環/底蓋/儲油管補強焊
Eye ring / base cap/
oil storage tube
reinforcing welding

防塵套筒四點焊
Dust tube
4 spot welding

防塵套筒彈簧座焊接
Spring seat of dust
tube welding

充氣判定是否合格
Leakage testing



1. 高週波封口成型機

H.F. heating and forming machine

加熱減震器外管，使其融化並封閉外管
Heating and sealing the outer tube



2. 浮凸點焊機及分度盤

Projection welding machine with index/divider

外管與吊環之浮凸焊接
Projection welding for outer tube and eye ring



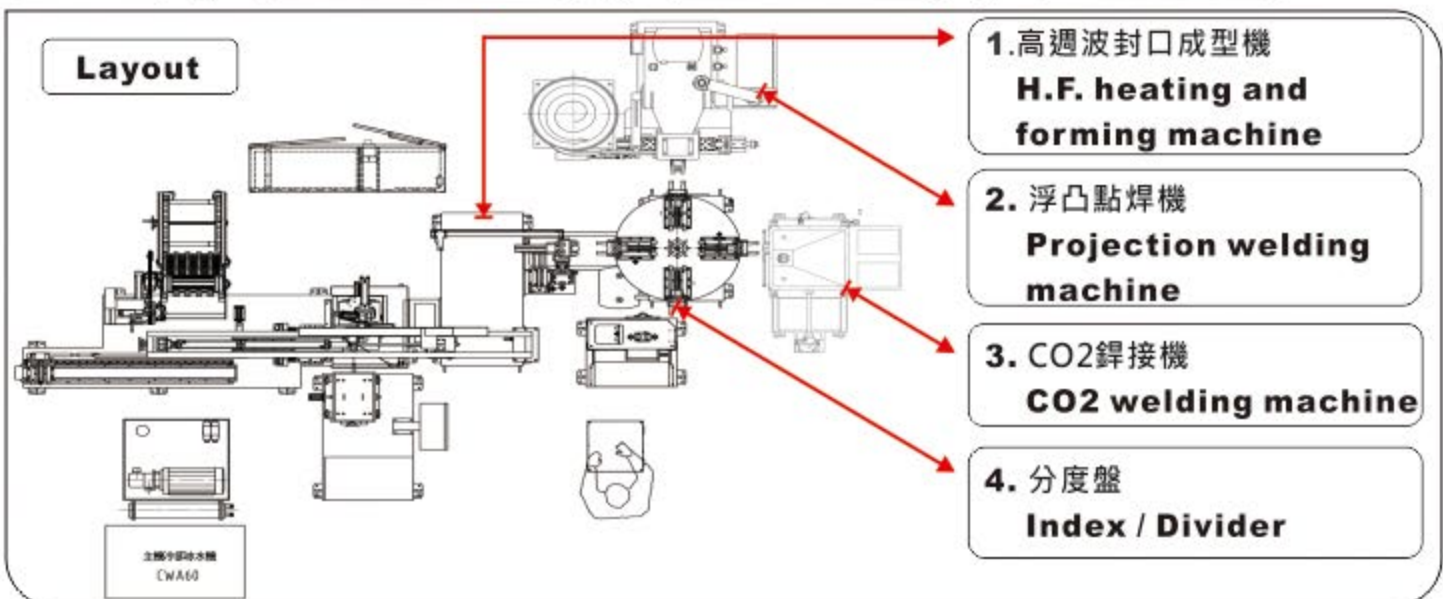
3. CO2 鐳接機

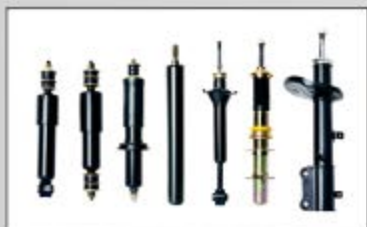
CO2 welding machine

外管與吊環之補強焊接
Reinforcing welding for outer tube / eye ring



減震器封口成型生產流程 Car floating shock absorber forming production Process





通用產品範圍

1. 小轎車/休旅車之減震器系統自動焊接工程。
2. 客戶類別：套筒式減震器及懸吊式減震器之OEM廠。
3. 主要客戶日產、豐田、本田、三菱、GM、FORD汽車減震器海外OEM、合資工廠。

設備特點

1. 完美的設計媲美歐、美、日設備，具有高穩定生產效率。
2. 全系列產品均具有快速模具變更設計，換裝模具後即能快速順利產出合格產品。
3. 焊接機控制採用微電腦電流控制系統，完善的在線檢測功能產出產品品性穩定。

Suitable range

1. Auto welding engineering for shock absorber system of sedan or SUV...etc.
2. Shock absorber type: Floating type / Suspension type shock absorber OEM plant.
3. Main customers: Overseas OEM or joint venture factory for NISSAN, TOYOTA, HONDA, MITSUBISHI, GM, FORD...etc.

Characteristic:

1. Excellent design is compared favorably with the occidental machines, provide steady and efficient performance
2. All series of our machines are designed with "Quick Mould Change" unit, that will reduce much time during the period of mold switch.
3. The welding current controller adopted by micro processor is excellent and powerful for improving the performance of welding machine.

HISTORY 歷史

豪星機電工業股份有限公司成立於1978年，初期以產製高品質之焊接/感應加熱自動化設備提供國內知名工廠。成立近40年來在汽機車零件生產設備上獲得知名的日、美系工廠的信賴與技術指導，以客戶心中對設備需求的理想目標為設計研發藍圖！一直以來我們的研發團隊以OEM/ODM上快速為客戶開發出高效率、高精度且源源不斷為客戶創造高利潤之生產設備！現今我們產品已涵蓋東南亞、日本、美國、中國、印度、歐洲地區等國際市場。

現今豪星機電已由第二代陳昱仁先生承襲經營，延續上一代的堅持與努力，貫徹國際化、專業化、合理化的經營策略，期待再創豪星公司另一個事業里程碑。

Hao Thing Electricity Machinery Co., Ltd. was founded in 1978, in initial period produced high quality welding and induction heating automatic equipment for the domestic well-known factories. For past 40 years have obtained the well-know Japanese and US systems' vehicle components production company and ideal target for equipment as design research and development blueprint! Since our R&D team takes the ways of OEM, ODM to fast develop the high efficiency, the high accuracy, and creates continuously high profit of manufacturing equipment for the customer. Nowadays, our equipment products have covered Southeast Asia, Japan, America, China, India and Europe international market.

Today HTEM is inherited by the second generation Mr. Chen Yu-Zen. For all the insistence and efforts that have been put forward by the last generation, we continue to stay course on the company's vision by running our business with

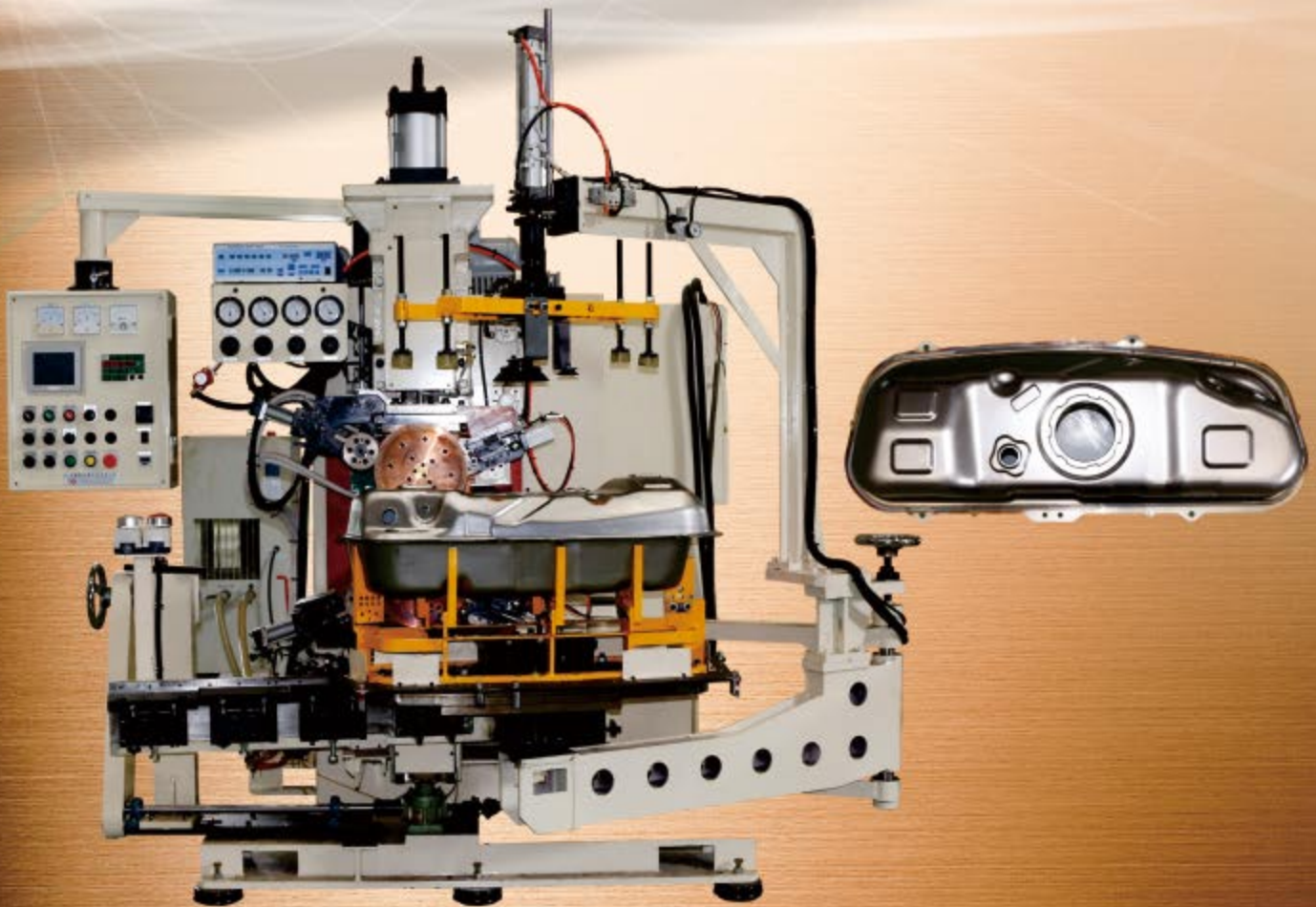




汽車油箱組裝生產線設備
EQUIPMENT OF FUEL TANK PRODUCTION LINE

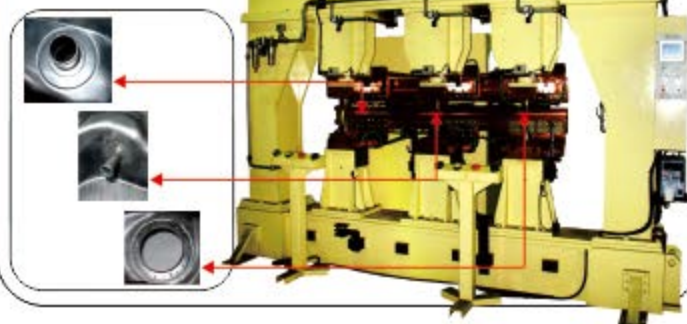
HAO THING

INNOVATION · QUALITY · SERVICE




A. 汽車油箱組裝生產線設備 car fuel tank manufacturing equipment
A1. 三工位三相直流浮凸焊接機
**Three-phase DC projection welding machine
(3 working stations in-one machine)**

加油口/出油口/油表座的焊接
Fuel filler / Fuel outlet /
Fuel meter welding


A2. 三相直流浮凸焊接機
**Three-phase DC projection welding machine
(one unit operation for each parts)**

加油口/出油口/油表座的焊接
Fuel filler / Fuel outlet /
Fuel meter welding


A3. NC伺服點焊機
NC servo spot welding machine

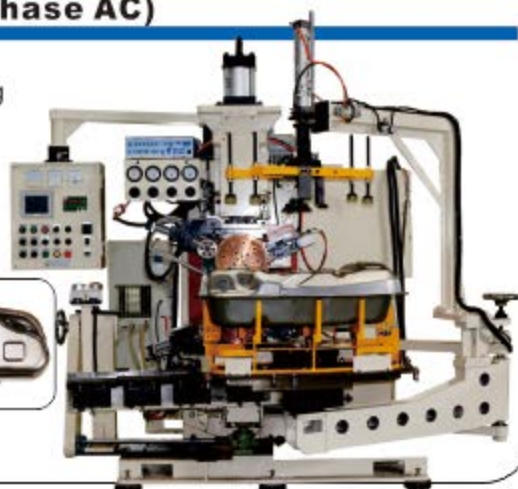
油箱隔板/油箱本體焊接
Fuel tank baffle &
shell body welding


A4. 空壓式點焊機
Pneumatic spot welder

油箱上殼體/下殼體
Spot welding for fuel
tank shell body


A5. 油箱仿效式自動輪焊機-單相交流
**Auto emulated seam welding machine
(single-phase AC)**

油箱殼體輪焊
Seam welding
for fuel tank
shell body


A6. 油箱仿效式自動輪焊機-變頻直流-自動出料
**Auto emulated seam welding machine
(DC inverter type with auto unloading device)**

油箱殼體輪焊含自動出料
Seam welding for fuel tank
shell body with auto
unloading device



B. 吉普車油箱組裝生產線設備 Jeep fuel tank manufacturing equipment

B1. 吉普車油箱輪焊機

Jeep fuel tank seam welding machine

吉普車油箱輪焊

Seam welding for Jeep fuel tank



B2. 吉普車油箱底封口機

Jeep fuel tank bottom capping machine

吉普車油箱底部封口

Bottom sealing for Jeep fuel tank



C. 卡車油箱/水箱生產線設備 Truck fuel tank/water tank manufacturing equipment

C1. 卡車油箱/水箱端蓋輪焊機

Truck cap seam welding machine

卡車油箱/水箱之端蓋輪焊

Seam welding for truck fuel tank / water tank cap



C2. 卡車油箱/水箱縱向輪焊機

Vertical seam welding machine

卡車油箱/水箱縱向輪焊

Vertical seam welding for truck fuel / water tank



D. 重型機車油箱生產線設備 Motorcycle fuel tank manufacturing equipment

D1. 重型機車油箱縱向輪焊機

Vertical seam welding machine

重型機車油箱之縱向焊接

Vertical seam welding for motorcycle fuel tank



D2. 重型機車油箱輪焊機

Seam welding machine

重型機車油箱之輪焊

Seam welding for motorcycle fuel tank





通用產品範圍

1. 小轎車/休旅車/卡車/機車等油箱自動焊接工程。
2. 產品材質：軟鋼板等
3. 產品規格：厚度0.6~1.2mm
4. 焊接能力：1~2.5m/分
5. 主要客戶日產、豐田、本田、三菱、GM、FORD汽車油箱海外OEM、合資工廠

- #### 設備特點
1. 完美的設計媲美歐、美、日設備，具有高穩定生產效率。
 2. 全系列產品均具有快速模具變更設計，換裝模具後即能快速順利產出合格產品。
 3. 焊接機控制採用微電腦電流控制系統，完善的在線檢測功能產出產品品性穩定。

Suitable range

1. Auto welding engineering for fuel tank of sedan car/SUV/truck/motorcycle/scooter...etc.
2. Material : mild steel plate ...etc.
3. Steel tank thickness available : 0.6~1.2 mm
4. Welding capacity : 1~2.5m /min
5. Main customer : Overseas OEM or joint venture factory for NISSAN, TOYOTA, HONDA, MITSUBISHI, GM, FORD...etc.,

Characteristic:

1. Excellent design is compared favorably with the occidental machines, provide steady and efficient performance
2. All series of our machines are designed with "Quick Mould Change" unit, that will reduce much time during the period of mold switch.
3. The welding current controller adopted by micro processor is excellent and powerful for improving the performance of welding machine.



FUTURE 展望





汽車剎車系統組裝生產線設備
EQUIPMENT OF CAR BRAKE SYSTEM PRODUCTION LINE

A semi-transparent, wireframe-style silhouette of a car is positioned in the upper middle section of the page, behind the main brand name.

HAO THING

INNOVATION · QUALITY · SERVICE





A. 剎車蹄生產線設備 car brake shoe manufacturing equipment

A1. 剎車蹄輪焊機

Brake shoe seam welding machine

背片與骨片之輪焊
Seam welding for web and rim



A2. 剎車蹄整圓機

Brake shoe trimming machine

剎車片焊接完後整型
Trimming brake shoe after welding



A3. 全自動剎車蹄輪焊機

Auto brake shoe seam welding machine

背片與骨片全自動焊接
Auto seam welding for web and rim



A4. 50kw雙工作站剎車片高週波淬火機

50kw H.F. double station quenching machine

剎車蹄淬火
Quenching for brake shoe



B. 剎車盤組裝生產線設備 Car brake disc manufacturing equipment

B1. 125KVA 伺服點焊機
125 KVA servo spot welding machine

本體板+防塵蓋點焊
Spot welding for
body plate and dust shield



B2. 75KVA 浮凸焊接機
75 KVA projection welding machine

本體板+剎車線支架浮凸焊接機
Projection welding for body
plate and braking wire
bracket



B3. 35KVA 點焊機
35 KVA spot welding machine

本體板+法蘭座點焊
Spot welding for body
plate and flange base



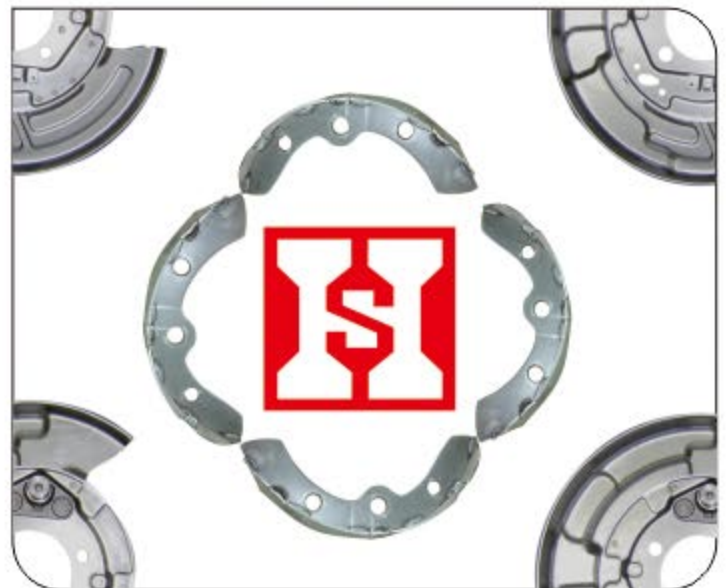
B4. 油壓卯合機
Hydraulic riveting machine

本體板+固定螺栓油壓卯合
Hydraulic riveting for
body plate and captive bolt



B5. 180 KVA 三相直流熱卯合機
180 KVA 3 phase DC heat riveting machine

本體板+油壓泵浦熱卯合
Heat riveting for body
plate + hydraulic support





通用產品範圍

1. 小轎車/休旅車之鼓式剎車系統
2. 產品材質：SPHC-P
3. 產品規格：背片厚度:1.2-2.5mm X 寬度:32mm-65mm
骨片厚度：3.0mm-6mm X 弧度:150mm-320mm

設備特點

1. 完美的設計媲美歐、美、日設備，具有高穩定生產效率。
2. 全系列產品均具有快速模具變更設計，換裝模具後即能快速順利產出合格產品。
3. 焊接機控制採用微電腦電流控制系統，完善的在線檢測功能產出產品品性穩定。

設備主要客戶

1. 汽車行業日本系統：日產、豐田、本田、三菱汽車零件海外OEM、合資工廠。
2. 汽車行業歐美系統：GM、FORD汽車零件海外OEM、合資工廠。

Suitable range

1. Drum brake system for sedan SUV.
2. Material：SPHC-P
3. Brake shoe spec：Rim Thickness 1.2~2.5mm, Width 32~65mm, Web Thickness 3.0~6.0mm, Width 150~320mm.

Characteristic:

1. Excellent design is compared favorably with the occidental machines, provide steady and efficient performance
2. All series of our machines are designed with "Quick Mould Change" unit, that will reduce much time during the period of mold switch.
3. The welding current controller adopted by micro processor is excellent and powerful for improving the performance of welding machine.

Main customers

1. Auto industry (Japanese system): oversea OEM or joint venture factory for NISSAN, TOYOTA, HONDA, MITSUBISHI...etc.
2. Auto industry (european system): oversea OEM or joint venture factory for GM, FORD...etc.



CREATION 創新

★傾聽、創新、科技、服務是我們的基本市場方針

豪星機電的目標是全球市場，並不侷限於東南亞或任何地區，我們最強的競爭者也來自歐美日本，我們必須把眼光放遠在創造全球市場的競爭力上，才可以在業界生存。因此我們要持續提升技術與增加產品穩定度，以滿足顧客需求。

未來，我們將繼續透過不斷的創新、最佳的服務以及每一次與客戶接觸的機會，傳達我們對於未來市場型態的先見和主張，並與客戶攜手創造更美好的未來！我們期待，透過我們的幫助，讓更多客戶節省成本，創造出更大的利潤。

★LISTEN, INNOVATION, TECHNOLOGY, SERVICE is our basic market principles.

Hao Thing target in the global market, not limited to Southeast Asia or any region only. Our strongest competitors from Europe, the United States and Japan. We need to look far and create the global market competitiveness in order to survive in the industry. So we have to continue to improve technology and increase product stability, in order to meet customer demand.

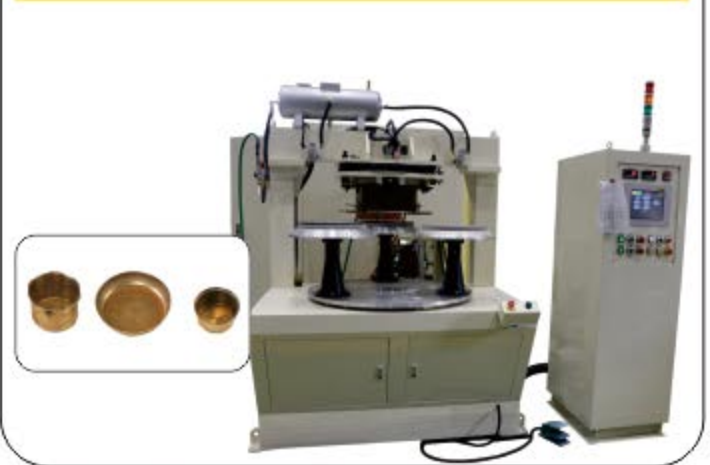
The future, we will continue to innovation, best service and every opportunity of contact with customers, Communicate our vision and ideas for the future market patterns, and work with customers to create a better future! We look forward through our help, can let more customers save costs and create greater profits.



1. 50KW 高週波加熱機
50KW high frequency heating machine



2. 75KVA高週波鍋底加熱機
75KVA Pot bottom induction heating machine



3. 150KW高週波感應加熱機
150KW high frequency induction heating machine



4. 真空管高週波淬火機
Vacuum tube high frequency quenching machine



5. 中週波感應加熱設備
Medium frequency induction heating machine



6. 臥式高週波淬火機
Horizontal high frequency quenching machine



HAO THING

機車輪圈整廠設備
EQUIPMENT OF MOTORCYCLE RIM
PRODUCTION LINE



工作流程 Working process

鐵皮材料
Iron sheet

接合桌
Material
joint

儲料機
Material
storage

整平
Leveling

成型機-前
Forming-
front

輪焊機
Seam
welding

成型機-後
Forming-
rear

切斷機
Cutting

閃電碰焊機
Flash-butt
welding
machine

砂輪機
Grinding
machine

磨接頭機
Polishing

整圓機
Trimming

檢查台
Inspection

三面磨光機
3-face
polishing

沖孔機
Hole
punching



送料架
Feeding frame



成型機-前
Forming-front



雙頭輪焊機
Double head
welding machine

切斷機
Cutting



成型機-後
Forming-rear



閃電碰焊機
Flash-butt
welding machine



整圓機
Trimming machine



檢查台
Inspection



沖孔機
Punching machine



三面磨光機
3-face polishing

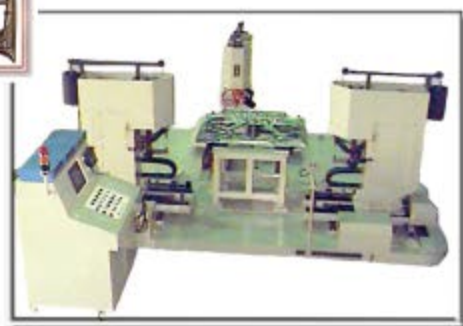




1. 戴帽螺絲焊接機 Cap nut welding machine



2. 汽車引擎蓋自動多點焊機 Car hood NC automatic multi spot welding machine



3. 壓縮機殼體端子浮凸焊接機 Compressor shell terminal projection machine



4. 壓縮機殼體與內側支架浮凸焊接機 Compressor shell and inner bracket projection welding machine



5. 壓縮機三角底座焊接機 Compressor triangle seat spot welding machine



6. 壓縮機殼體與銅管座浮凸焊接機 Compressor shell and copper tube seat projection welding machine



BRAND LINEUP 品牌建立

豪星致力於專業研發，製造多種產業適用的生產線上專用機械，我們承接客戶所需要的客製化機械也積極創造屬於自己的研發成果。公司成立40年來，已獲得許多客戶的讚譽及持續的採購，是我們一直不斷進步的主要動力。今後將本於創新、品質、服務的精神，製造更多客戶真正需要的機械設備，以共創雙贏，進而創造市場上豪星機電之自我品牌形象。

HAO THING is a professional R&D, manufacturing of special purpose machinery in production-line for different industries. We undertake customers need machinery, but also actively creates our own R & D results. Founded more than 40 years, has received a lot of praise from customers and continuing procurement, this allows us to continue to progress. The future we will present on innovation, quality, service spirit, creating more and really need special machineries by customers, to create a win-win situation. Further to creating the HTEM Self brand image.



願景

★ 成為亞洲生產、研發的領導供應商

發展願景之有利因素

- ① 未來全球之汽機車市場將持續成長，潛在市場龐大
- ② 與國外產業界技術合作，有效掌握資訊與技術來源
- ③ 品質穩定度佳，深獲客戶肯定
- ④ 整合產銷供應鏈能力，以有效降低生產成本

VISION

★ Become a leading supplier of production and R & D in Asia.

The favorable factors of the development vision.

- ① The global automotive market will continue to grow up, potential market is huge
- ② To cooperation with foreign well-known industry, available to access the source of information and technology effectively
- ③ Stable quality and got many positive reviews on the market.
- ④ Strengthen the production supply chain capacity, effectively reduce the production costs.

GLOBAL 全球化

在一片國際化的聲浪中，「豪星公司」認為企業必須在經營理念、文化深度、顧客要求、滿意度、產品開發、品牌形象、行銷手法、價值觀等方面都要與全球融合並且合理化。能夠做到這樣，才能掌握全球的資源，並且做有效的分配與經營，更進一步則可以發展成為國際化的專用機製造公司，以研判未來的發展趨勢，並提昇效益與經濟。

未來我們要結合更多相關的企業作更廣更深度的聯盟與合作，為企業國際化奠定基礎，邁向國際認同的品牌機械製造廠為目標。

In the international wave, HTEM must be integrated with the global and rationalized in the philosophy, including cultural depth, customer requirements, satisfaction, product development, brand image, marketing practices, value...etc., In order to grasp the global resources and can make efficient allocation and management, furthermore, it can develop into an international manufacturing company of special machine. To judge future trends and enhance efficiency and economy.

In the future, we will combine more related businesses for broader and deeper cooperation with alliance. To lay the foundation for internationalization, towards to internationally recognized brand as our goal.



- 總公司 HEAD QUARTER (Taiwan)
台灣豪星機電工業股份有限公司
HAO THING ELECTRICITY MACHINERY CO., LTD.
- 首華機電有限公司(上海工廠) (Shanghai factory, China)
- 中國保定工廠 BAODING COMPANY (China)
- 中國深圳辦事處 SHENZHEN OFFICE (China)
- 中國重慶辦事處 CHONGQING OFFICE (China)
- 越南辦事處 VIETNAM OFFICE
- 日本辦事處 JAPAN OFFICE



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