

SPEED

JBOM[®]

專利型

勁茂科技有限公司
Jumbomaw Technology Co., Ltd.

旋風式金屬觸媒

Patented whirlwind for metallic catalytic converter



M TH5888



● 南京廠 Nanking Factory



● 桃園廠 Taoyuan Factory



● 董事長 張新長先生 President H.C.Chang

本公司於1999年3月成立勁茂科技有限公司

Our company establishes Jumbomaw science and technology limited company in March, 1999

- 資本額：新台幣500萬元
- 負責人：張新長
- 公司：桃園市中正路1396號16F-4
- 工廠：桃園縣楊梅市上田里3鄰22-3號
後續在2005年又成立南京勁鴻茂科技有限公司
- 南京公司：江蘇省南京市江寧科學園區乾德路39號
- 註冊資本：美金1000萬元
- 占地面積：4萬平方米，一期建築面積12500平方米，年產汽、機車觸媒500萬個，二期建成後，年產量將達1500萬個。
- 主要產品：以生產、銷售汽、機車觸媒轉化器、大氣污染防治處理系統及觸媒開發之相關環保產品。

- Capital sum: NT\$5,000,000
- Representative director: H.C.Chang
- Company: 16F-4, No. 1396, Chung Cheng Road Taoyuan City.[330-71] Taiwan
- Factory: No. 22-3, Lin3 Sen TinLi Young-Mei City [326-42] Taoyuan County Taiwan
Follow-up in 2005 again establish a Nanking Nanjing Jumbomaw science and technology limited company
- Nanking company:
No. 39, Qian De Lu, Jiang Ning Science Based Industrial Park, Nan Jing City, Jiang Su Xing
- Registered capital: US\$10,000,000
- Occupy a ground to accumulate: 40,000 square meters, on expecting to construct area 12500 square meters, the year produces vapor, motorcycle catalyst 5,000,000, two after expecting to build up, the yearly production will reach to 15,000,000.
- Main product: With production, sale vapor, motorcycle catalyst conversion the machine, air pollution prevent and cure to handle the related environmental protection product of the system and catalyst development.

● 寬敞舒適的工廠/辦公室 Factory/Office



● 貴賓室 VIP Suite





● 外管 Pipe



● 切管 Cutting



● 倒角 Chamfer



● 進口原材料
Imports of raw materials



● 裁剪 Clipping



● 載體組立
Assembly



● 真空焊接
Vacuum Brazing



● 打碼 Typing



● 調配漿料
Mixing slurry



● 自動塗層
Automatic coating



● 包裝
Packaging



● 出貨
Delivery



金屬載體組成

The Materials of metal carriers



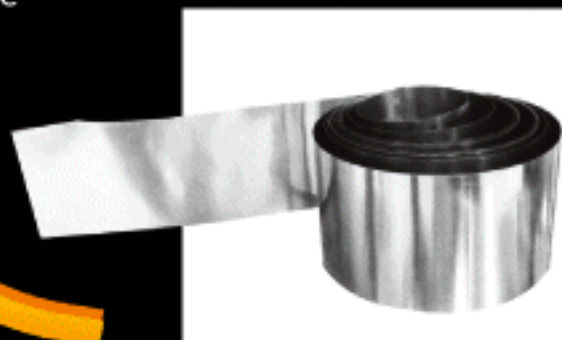
● 金屬載體組成 Metal Carrier



● 管 件 Tube



● 鎳薄片焊料
Nickel Alloy



● 鐵 鎳 鋁 Fe-Cr-Al



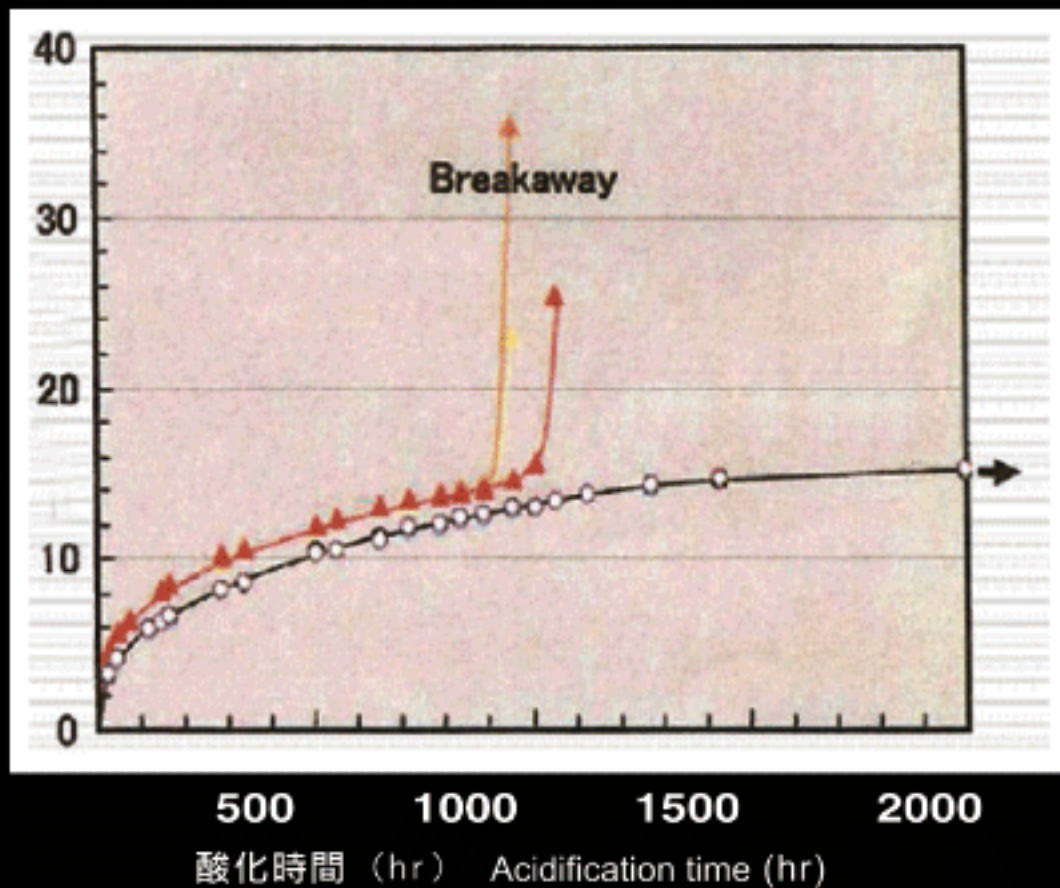
(20Cr-5Al)箔耐酸化性比較

(20Cr-5Al) Comparison of acid resistance foil

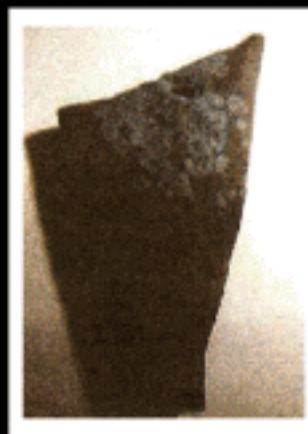
試驗溫度：1100°C 大氣層

Test temperature: 1100°C atmosphere

酸化增量 (g/m²) Acidification Incremental (g/m²)



● 840hr



● 1000hr



● 840hr



● 2000hr



金屬載體結構數據

The Structure principle of metal carriers data

1 目數 Cell

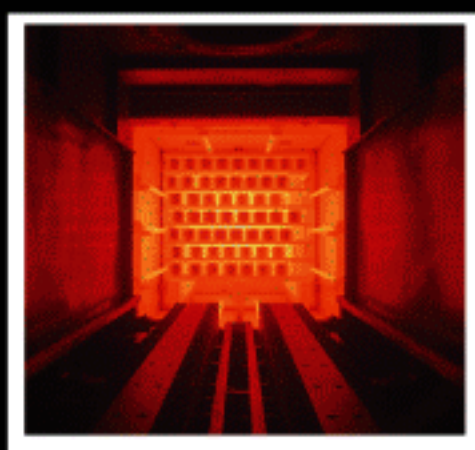
波 (Cpsi)	m/m ²	40	100	200	300	400	500	600	800
波(a)	m/m	7.9	4.4	3.3	2.9	2.5	2.4	2.0	2.0
波高 (b)	m/m	4.1	2.4	2.0	1.5	1.3	1.1	1.1	0.8
箔厚	m/m	0.10	0.10	0.10	0.05	0.05	0.05	0.05	0.05

2 鐵鉻鋁金屬箔片 (Fe 20Cr-5Al FILM) Fe-Cr-Al

C	Si	Mn	P	S	Cr	Ti	Al	N	T_Reml	硬度 (HV)	N/mm ²
0.003	0.13	0.17	0.034	0.001	19.74	0.06	5.0	0.006	0.082	368	1172

3 鎳合金焊料 (AWS/Bni-5a) Nickel alloy welding material

MBF ALLOY	AWS & AMS Classifications	Nominal Composition, Wt%					Melting Temp °C(°F)		Braze Temp (Approx)	Density g/cm ³ (lb/in ³)
		Cr	Si	C	B	Ni	Solidus	Liquidus	°C(°F)	7.49 (0.271)
50	AWS B Ni 5a	19.0	7.3	0.08	1.5	Ba1	1052 (1926)	1144 (2091)	1170 (2140)	

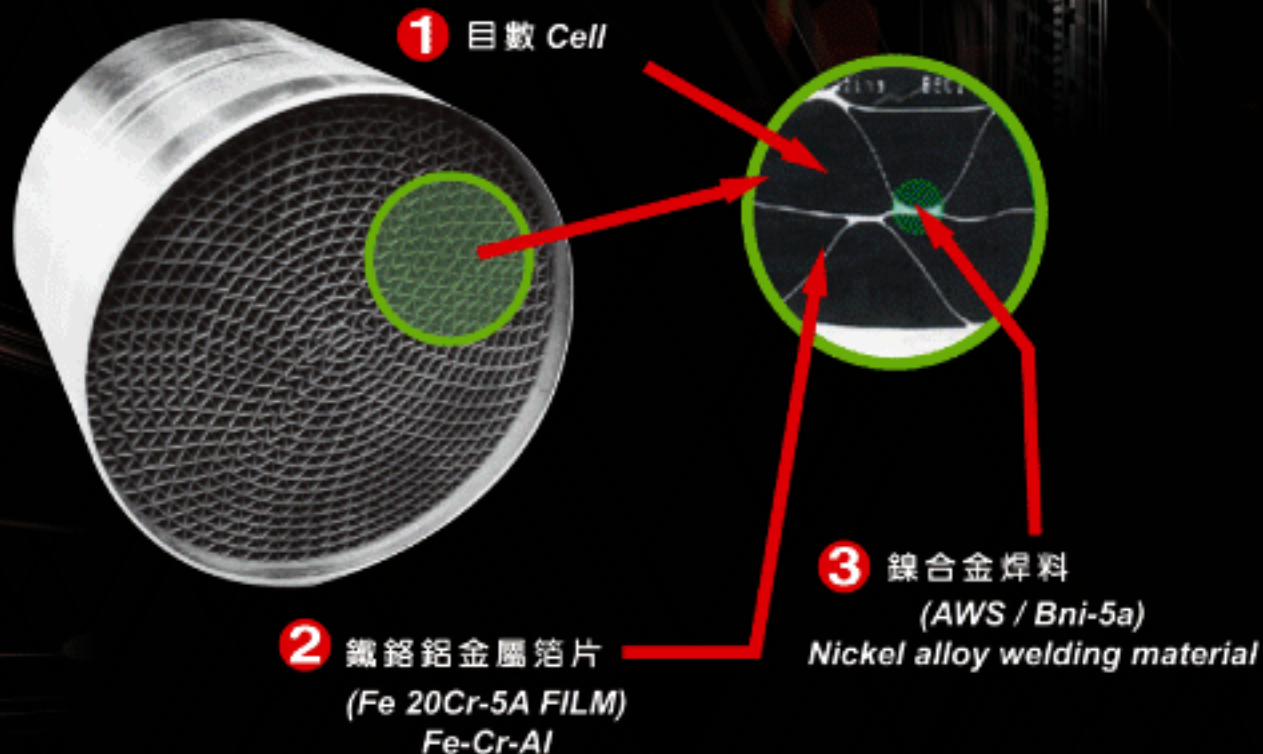


- 第一艙：預熱室 *The First Chamber : Preheating*
- 第二艙：抽氣室 *The Second Chamber : Pumping*
- 第三艙：硬焊室 *The Third Chamber : Brazing*
- 第四艙：冷卻室 *The Fourth Chamber : Cooling*



金屬載體結構原理

The Structure principle of metal carriers

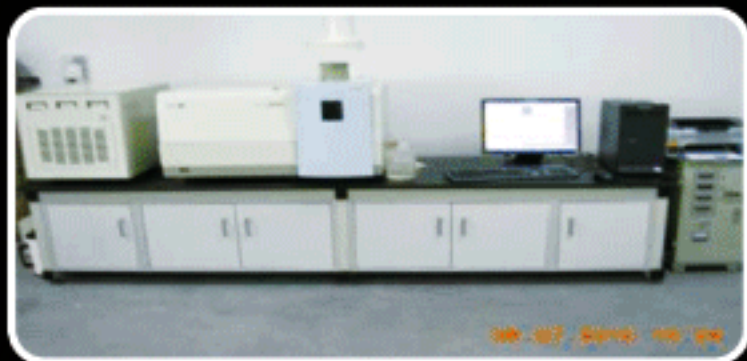


● 雙載體示意圖
The sketch map of
double body



● 三載體示意圖
The sketch map of
triple body





The electricity accidentally matches to wait for the instrument of the ion body blast-off spectrum

觸媒檢測設備 電感耦合等離子體發射光譜儀

- ICP-AES等離子體發射光譜儀是理想的微量元素分析儀器
ICP-AES is an ideal instrument for analysis of trace elements
- 波長範圍：200~800nm Wavelength range:200~800nm
- 波長掃描步距：0.001nm
Wavelength scanning spacing:0.001nm
- 波長重複精度：0.005nm
Wavelength repeat precision：0.005nm
- 數據重現性：RSD<2.5%
Data reproducibility：RSD<2.5%



Compare surface and hole path analysis instrument

比表面及孔徑分析儀

- 比表面積測定 Determination of specific surface area
- 孔體積測定 Determination of pore volume
- 平均孔徑測定 Determination of average pore diameter
- 孔徑分佈 Pore size distribution
- 測量範圍：Measuring range：
比表面 $\geq 0.01\text{m}^2/\text{g}$ 、孔徑0.35 ~400nm
Surface $\geq 0.01 \text{ ms}^2/\text{g}$ pore size 0.35 ~400nm



Laser grain degree instrument

激光粒度儀

- 顆粒大小測定 Determination of particle size
- 測驗範圍：0.1~500 μm Measurement Range:0.1~500 μm
- 進樣方式：濕法
Sampling methods：Wet



Crystal mutually microscope

晶相顯微鏡

- MVS3000功能圖像處理與分析
MVS3000 Image processing and analysis functions
- 金屬顯微組織及晶粒度分析
Metal microstructure and grain size analysis
- 影像錄製與播放
Video recording and playback
- 可以將長時間的實驗過程以AVI文件格式紀錄在磁盤上
Recording the entire experiment process in AVI file format
- 自由組態彩色圖文報告
Easy setting of color statistical charts
- 可以製作各種格式的彩色圖文報告
Offering a variety of reports with color graphics and texts



● 材料實驗室 *Material Laboratory*



● 觸媒檢測設備-催化活性檢測儀
Catalytic Activity Detection



● 觸媒檢測設備-摩托車性能底盤
測功能機
Chassis Dynamometer



● 觸媒檢測設備-摩托車相關性能
測試
Catalyst Performance Test



● 觸媒檢測設備-塗層剝落率測試
設備
Coating peel rate test equipment



● 觸媒檢測設備-催化器水熱穩定性
測試
Catalyst hydrothermal stability test

專利型旋風式金屬觸媒的 結構邏輯與特性

Patented Whirlwind for Metallic Catalytic Converter Structure and Characteristic

■ 結構邏輯 Structure

利用流體力學的管流原理，使排氣管裡的觸媒之間產生回壓，排氣更飽滿，油門更輕進而提昇扭力，車子開起來更滑順有力，整體駕駛操控感覺完全不一樣。

On pipe flow principle of hydromechanics, there is a back pressure between catalyts in an exhaust, resulting in a gas-full exhaust, a slighter accelerator and improved torsion. One would enjoy driving that kind of vehicles.

■ 特性 Characteristic

不同廠牌車輛馬力與扭力的特性，有不同客層之選擇，但所有買車的客人，都希望買到一部便宜又好開的車子，專利型旋風式金屬觸媒，可以隨消費者的駕駛特性，匹配不同結構組合之金屬觸媒，達到馬力強、扭力大，滿足消費者駕駛需求。

Vehicles of different horsepower and torsion are for different kinds of consumer. However, everyone hopes to buy a cheap and nice vehicle.

One would get his own most matched patent whirlwind metallic catalytic converter with specific structure combination to meet his needs of driving with great horsepower and torsion.

■ 駕駛特性區分 Driving characteristics

● 溫文儒雅紳士型 Standard

開車訴求起步有力(俗稱：不要軟腳)，操控自如，享受駕駛樂趣。
Powerful starting, easy control, enjoyable driving.

● 競技型賽車手 Racing

開車訴求馬力強、扭力大，人車合一，車子聽主人的話，快、狠、準。主人自然愛車子比愛老婆多。
Great horsepower and torsion, unity of people and vehicles, speed, aggressiveness and accuracy; one would of course rather loves his vehicles than his wife.

● 超級跑車型 Super cars

開車訴求操控犀利，高速駕駛享受樂趣之族群首選。
Forceful and speedy driving and great joy.

專利型旋風式金屬觸媒，就是能滿足這三類型的消費者！

It is patented whirlwind metallic catalytic converter that can meet these three types of consumers' need!

紳士型 S-250 系列
Standard S-250 series



競技型 S-310 系列
Speed S-310 series



超級跑車型 S-400 系列
Super cars S-400 series



紳士型

S-250系列

適用範圍:

200匹馬力以下

Applicable scope:

Below 200 horsepowers

S-250 Series

1. JMH-S-1325-5
(100×300 cpsi)
2. JMH-S-1425-5
(100×400 cpsi)
3. JMH-S-2425-5
(200×400 cpsi)

競技型

S-310系列

適用範圍:

200~300匹馬力

Applicable scope:

Below 200~300 horsepowers

S-310 Series

1. JMH-S-1131-6
(100×100 cpsi)
2. JMH-S-1231-6
(100×200 cpsi)
3. JMH-S-1331-6
(100×300 cpsi)

超級跑車型

S-400系列

適用範圍:

300匹馬力以上

Applicable scope:

Above 300 horsepowers

S-400 Series

1. JMH-S-11140-7
(100×100×100 cpsi)
2. JMH-S-11240-7
(100×100×200 cpsi)
3. JMH-S-11340-7
(100×100×300 cpsi)



專業金屬觸媒轉換器製造廠

Specialist Manufacturer of Metallic Catalytic Converters

專利型旋風式迴壓金屬觸媒轉換器

專利型旋風式迴壓金屬觸媒轉換器(前400目後200目型)

能有有效的提升汽車馬力節省燃油,降低二氧化碳排放

我們提供高流量工作效率不同類型的目數可選擇如50, 100, 150, 200, 300, 400等。

Patented whirlwind metallic catalytic converters

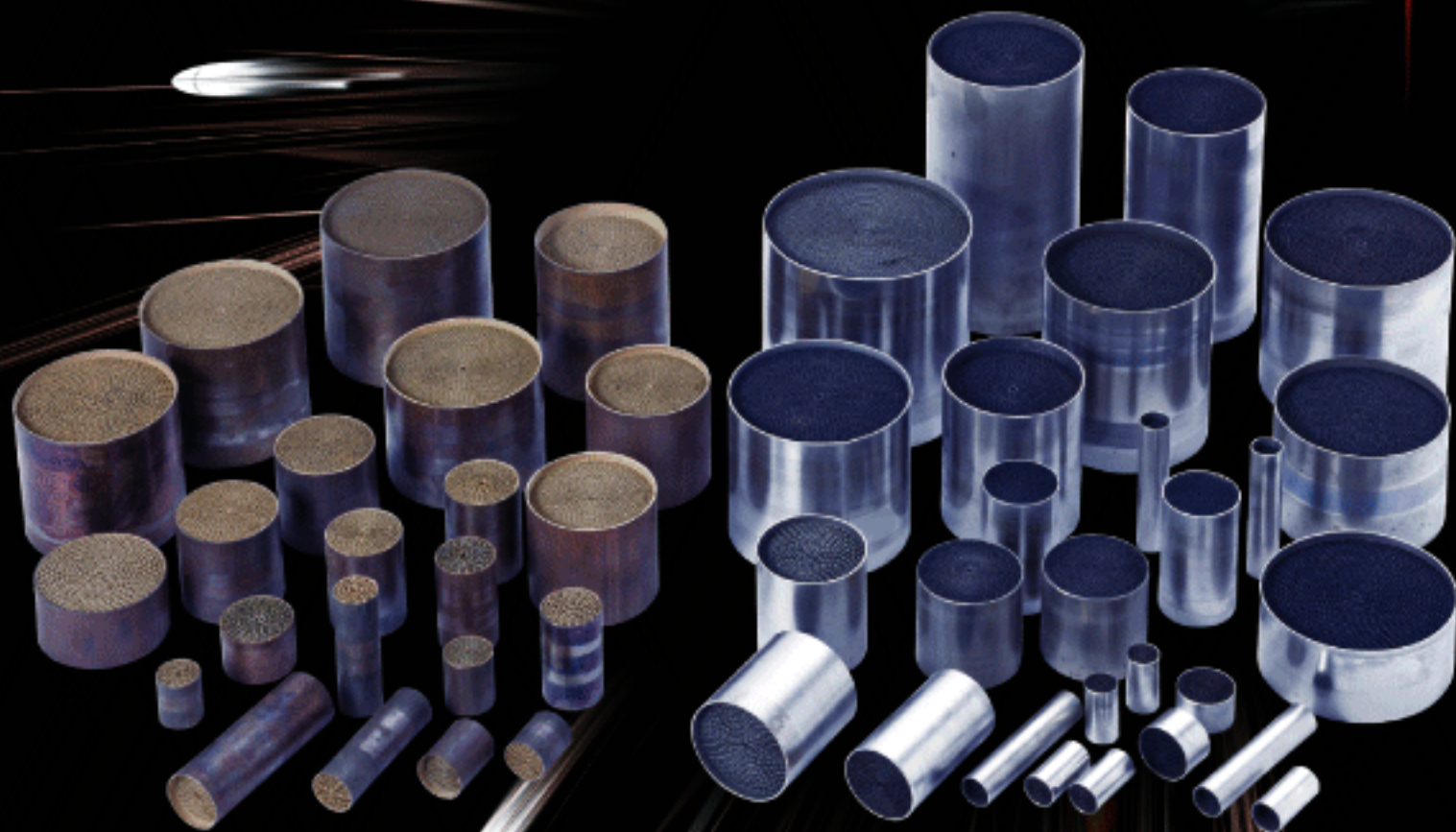
Patented whirlwind catalytic converters (with 400-mesh for front and 200-mesh for rear) efficiently boosts horsepower, saves fuel and lowers CO2 emission, working perfectly with any of our high-flow cyclone items of 50, 100, 150, 200, 300 and 400-mesh.



勁茂科技有限公司

本公司的觸媒轉換器使用鉑PT，鈀PD，銠RH等三元素所組成的，是目前市面上真正唯一的**三元觸媒轉換器**，除可以降低廢氣排放並提升汽車馬力。

Our three-way catalytic converter of platinum, palladium and rhodium is unique, lowers harmful exhaust and boosts horsepower with lower back pressure.





改裝車及替換原廠已損壞的觸媒

Refit a car and substitute the original factory has been already damaged of catalyst

我們的產品適用於改裝車及替換原廠已損壞的觸媒，另本產品價格合理，品質優良，歡迎合作內外銷。

Talk to us about joint export venture. We offer performance, OEM parts at reasonable prices.





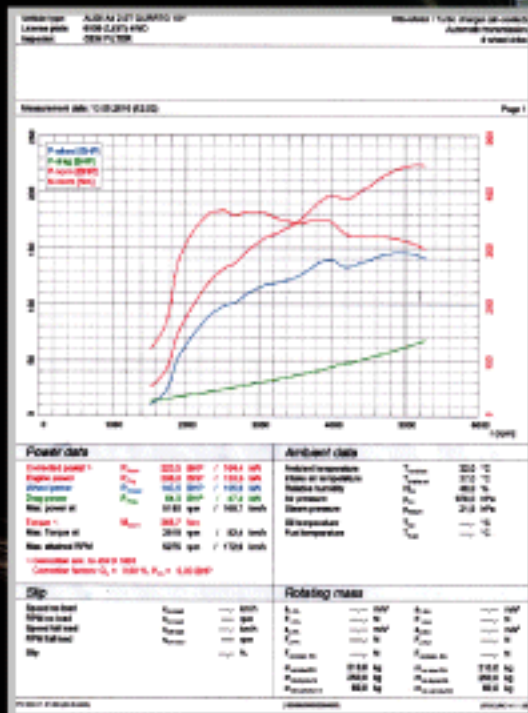
超級跑車前段觸媒

Supercar ex- segment catalyst

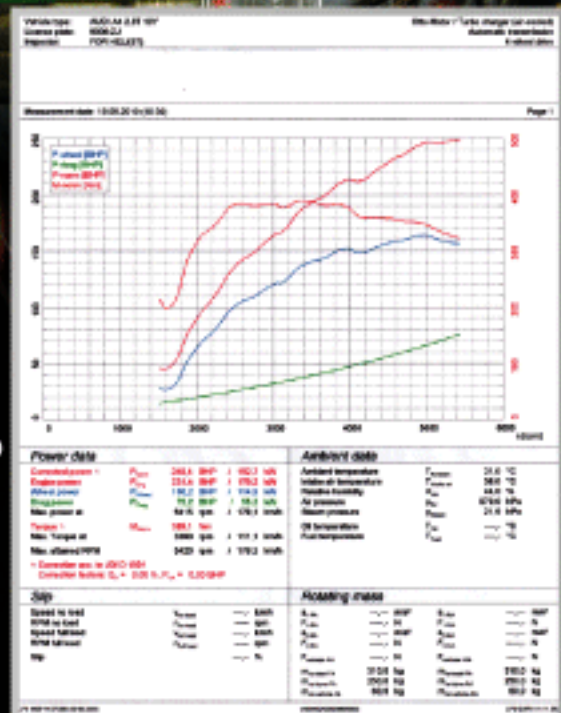
本公司另有推出BMW等歐日車系排氣管頭段，中段及尾段等產品，可搭配本公司之金屬觸媒轉換器一同改裝販售。

Exhaust system components for BMW and many other European and Japanese makes and models, from headers, mid-pipes to muffler tips are available now! Install these items with our patented whirlwind metallic catalytic converters for outstanding exhaust system performance.





● AUDI A4 2.0T 改裝前
AUDI A4 2.0T Before modification



● AUDI A4 2.0T 改裝後
AUDI A4 2.0T After modification



● 車子改裝前 The car before modification



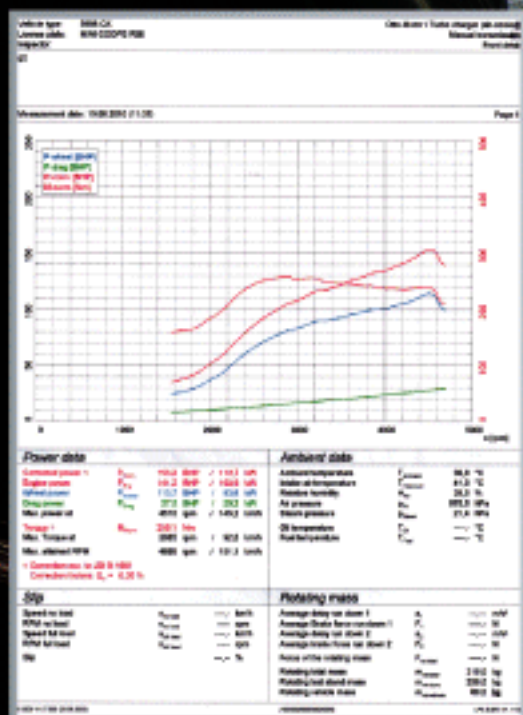
● 車子改裝後 The car after modification



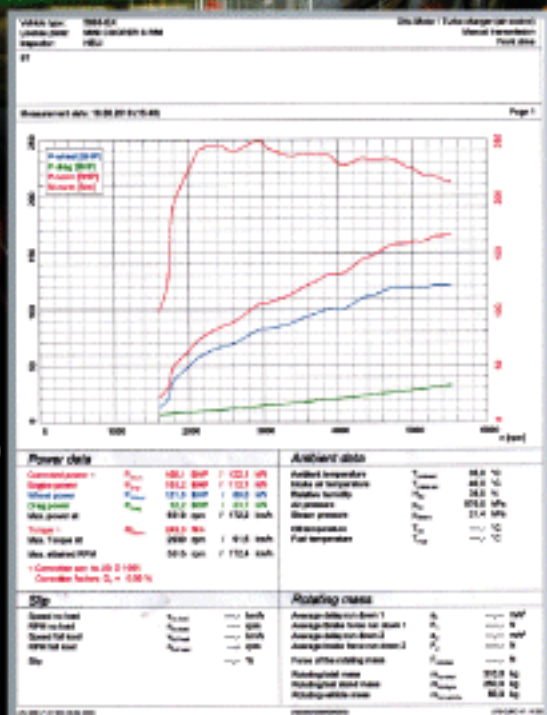
● 車子改裝前拉馬力 Dyno before refitting



● 車子改裝後拉馬力 Dyno after refitting



● MINI R56 改裝前
MINI R56 Before modification



● MINI R56 改裝後
MINI R56 After modification



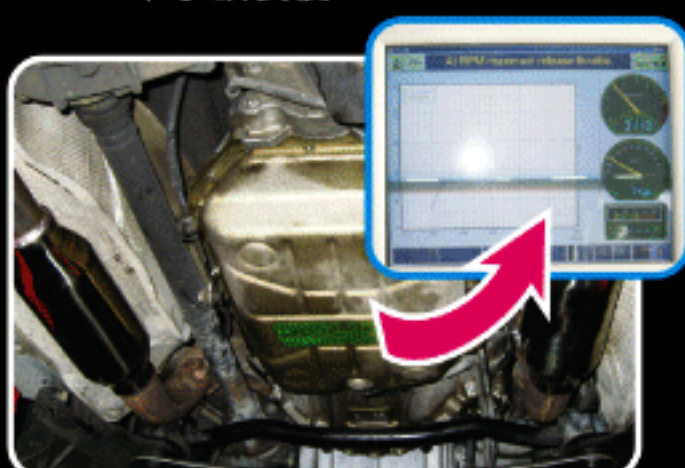
● 車子改裝前 The car before modification



● 車子改裝後 The car after modification



● 車子改裝前拉馬力
Dyno before refitting



● 車子改裝後拉馬力
Dyno after refitting



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