協禧電機股份有限公司
ADDA CORPORATION

風扇基本架構及原理介紹

http://www.adda.com.tw

強制對流的幾種產品

超薄型散熱風鼓系列
Thin Chip Blower series

散熱風扇DC系列
DC Axial Fan Series

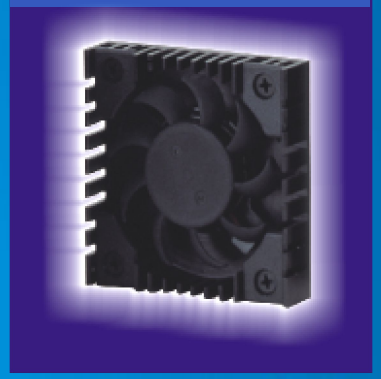
中央處理器散熱器系列
CPU Cooler Series

Y支架風扇系列
Rib Fan Series

超小型散熱風扇系列
Extra Mini Fan series

散熱風扇AC系列
AC Axial Fan Series

超小型冷卻器系列
Chip Cooler Series



依照客戶產品應用與空間尺寸來選擇採用何種產品作為散熱工具

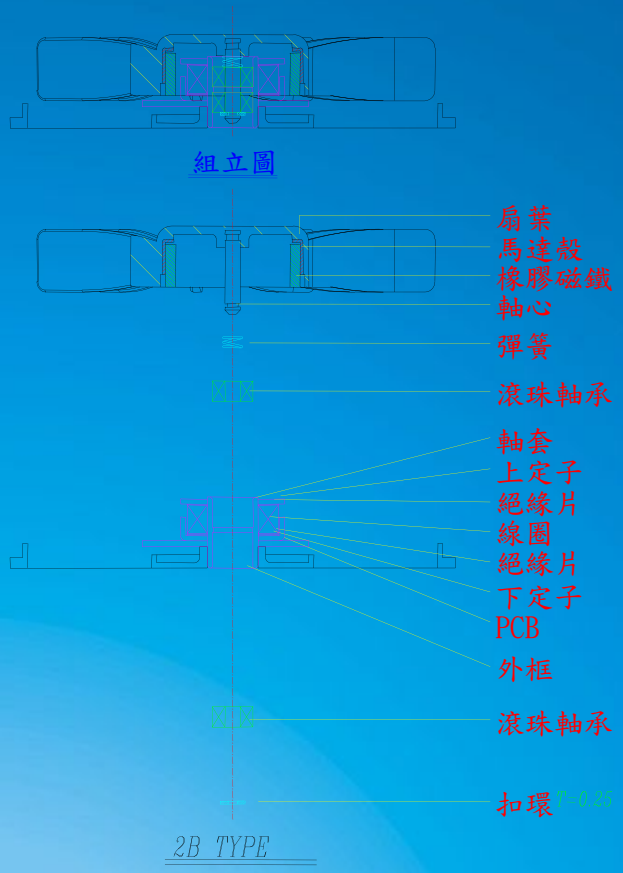
http://www.adda.com.tw

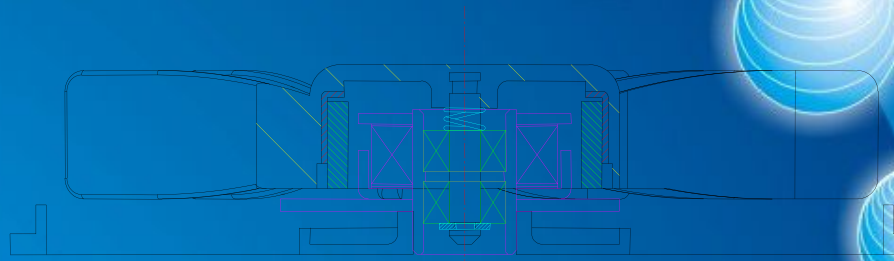
ADDA 風扇結構簡介

- 目前 ADDA 風扇之軸承結構大致可區分為
  S: Sleeve bearing system(套筒軸承/滑動軸承)
  2B: 2 ball bearings system(滾珠軸承)
  1B1S: 1 ball+ 1 sleeve bearing system
  HYPRO: Hypro bearing system(含油軸承)
  FDB bearing structure <NEW>(流體動壓軸承)
  等五種結構 .

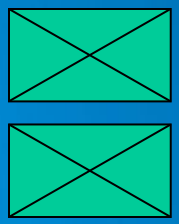
※選用風扇之軸承系統，
使用壽命與成本考量都
是相關聯的！

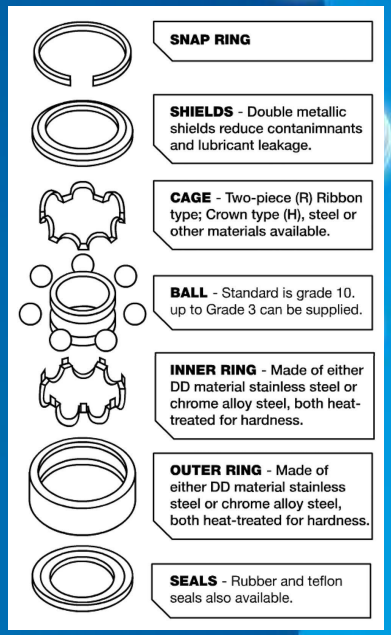
2 ball bearings structure





2B-結構概圖





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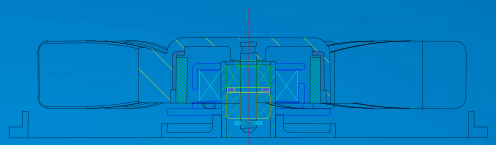
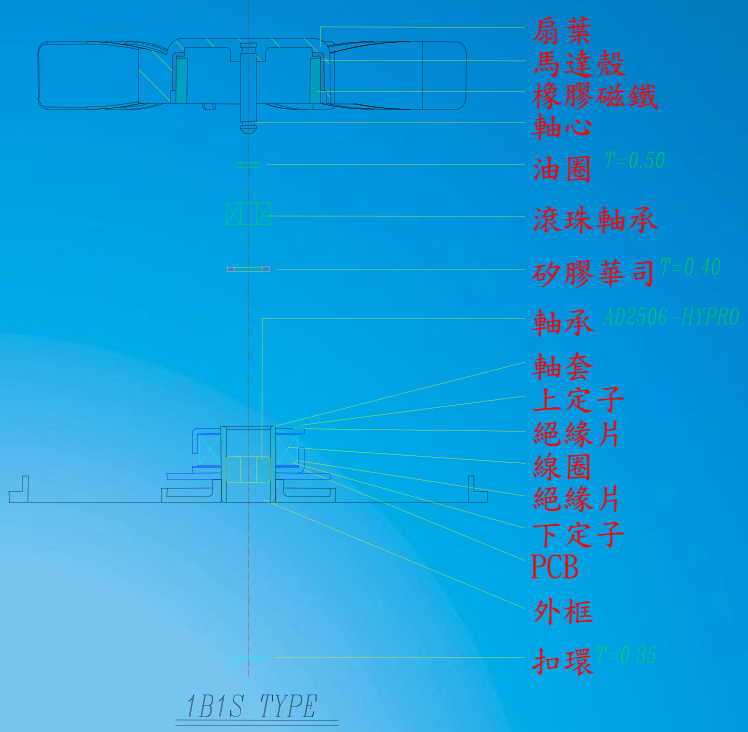
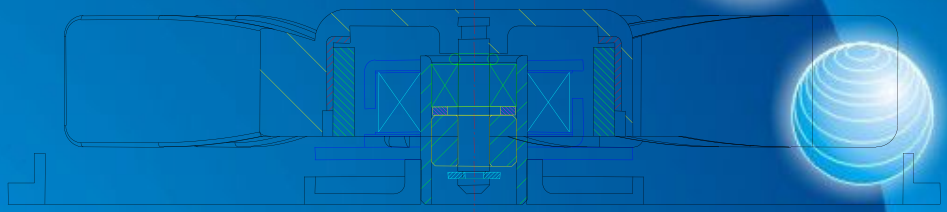
1 ball+ 1 sleeve bearing structure

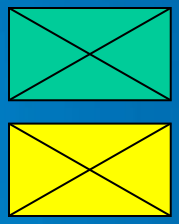


組立圖

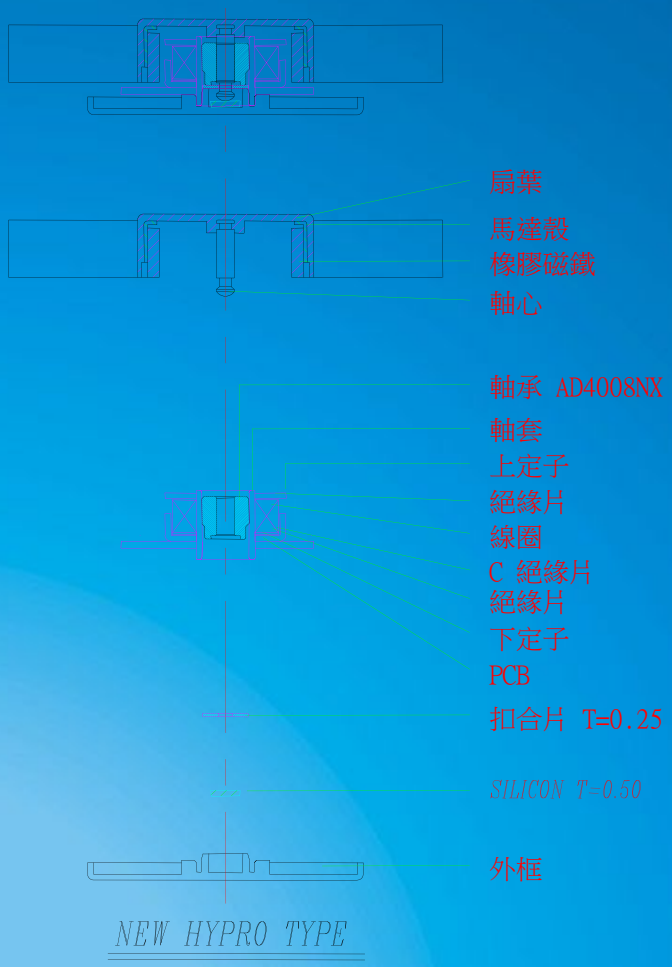


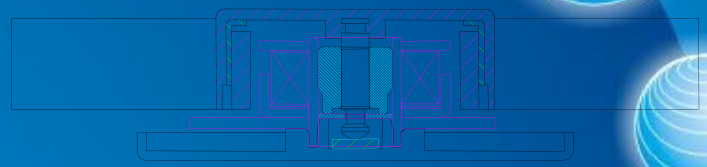


1B1S 結構概圖

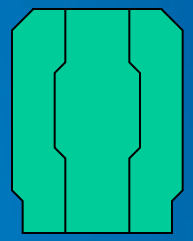


Sleeve & Hypro bearing structure





NEW HYPRO
結構概圖



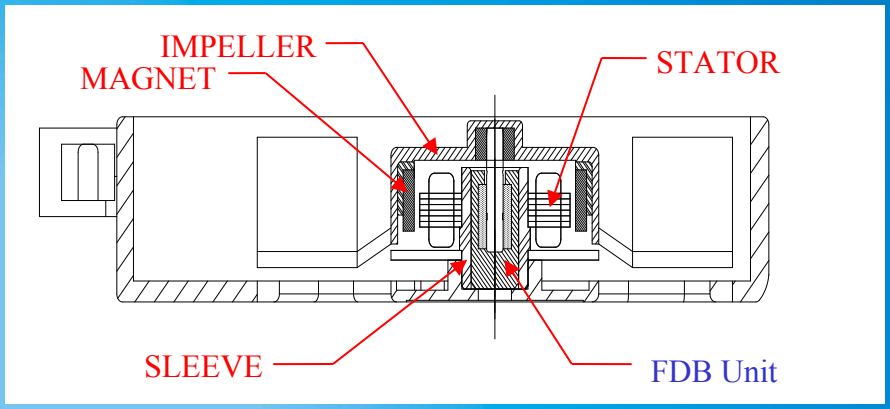
FDB bearing structure

影響風扇壽命的軸承系統

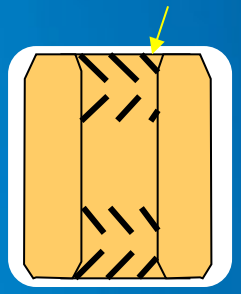
- 最新設計之FDB軸承系統！

FDB : Fluid Dynamic Bearing

流體 動壓 軸承



具有導油刻溝設計於開口處



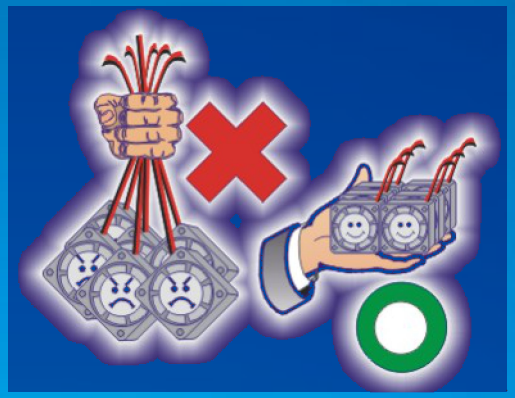
FDB軸承剖面

1-8. Products Introduction

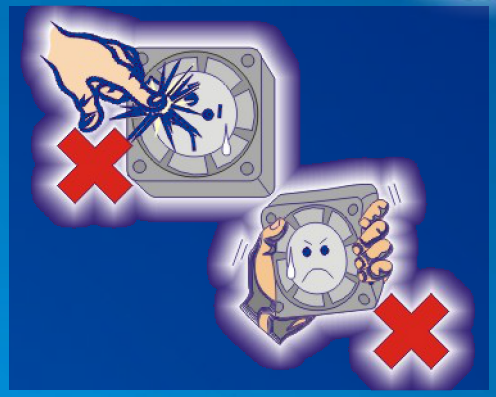
Different bearing fan providing

	Sleeve	Hypro	1B1S	Ceramic	2BB	FDB
Release Year	1989	1992	1989	2005	1989	2002
Cost Range	Lowest	Lower	Middle	Middle	Higher	Higher
Noise (Only Rotor /AD9225 / 3100 rpm / 0.3m)	Higher 26dB(A)	Middle 25dB(A)	Highest 27dB(A)	Middle 25dB(A)	Lower 24.4dB(A)	Lowest & Stable 21.3dB(A)
Life Expectancy (Hours/L10/ 40℃)	30,000	40,000	50,000	60,000	50,000	60,000
Operation Temperature	Under 70℃	Under 70℃	Under 70℃	Under 90℃	Under 90℃	Under 90℃
Recommendation	Easy to Oil Leakage	Easy to Oil leakage It should be protected by protective structure.	Noisy	Replace 1B1S		Replace 2BB
Apply to	Power Supply, Case fan	N/B, Case Fan, VGA cooler	N/B, Hub, CPU cooler, Projector	CPU cooler, Server,	N/B, Projector, PDP-TV, VGA cooler, Server	PDP-TV, N/B, Projector

風扇使用注意事項



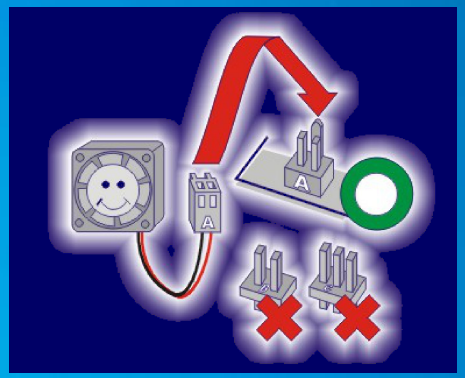
1.取用風扇，輕取外框
兩側，不可拉扯導線。



2.取用風扇，不可碰觸
或 擠壓扇葉與外框。

3.風扇嚴禁掉落地面，
或敲擊外框任何面。

4.風扇電源需依照規格
電壓安裝使用。



5.風扇電源連接器請使用
原廠製造之端子座。

向客戶宣導正確的
使用觀念能減少客
訴與提昇公司形象

ADDA 風扇性能相關技術資料

URL: http://www.adda.com.tw/