

WFB 不堵塞泵

Clog-less Pumps



- 單級端吸離心式泵浦
- 口徑: $\varnothing 50 \sim \varnothing 200\text{mm}$ (2"~8")
- 流量範圍 $0.2\text{m}^3/\text{min} \sim 20\text{m}^3/\text{min}$
- 揚程範圍 2m~80m
- 壓力範圍 $16\text{kg}/\text{cm}^2$
- 溫度範圍 120°C
- Single stage end suction centrifugal pump
- Port range: $\varnothing 50 \sim \varnothing 200\text{mm}$ (2"~8")
- Capacity range: $0.2\text{m}^3/\text{min} \sim 20\text{m}^3/\text{min}$
- Heads range: 2m~80m
- Working pressures: $16\text{kg}/\text{cm}^2$
- Temperatures: up to 120°C

ISO 9001
BSMI
認可登錄
ISO 9001
2000/CNS 12681
REGISTERED
6M7Y006

專營：離心泵、多段高壓泵、紙漿泵、
雷射對心墊片、自動加油杯。



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》用途

- 適用範圍：用於各種研磨液體中含有固體之抽送處理，以及體積較大與長條形之污染物。應用在嚴重污染廢紙污水和造紙廢棄物。
- 低功耗：WFB系列之葉輪葉片經由特殊設計，渦流泵可展現出非常高之效率，並且雙通道不阻塞葉輪可達到更高之效率。
- 耐磨：許多用途具有高度腐蝕性，泵殼有耐磨蝕的鑄件壁厚與平滑之內部輪廓，增長使用壽命。
- 少阻塞：泵殼有較寬敞的水路，搭配雙通道不阻塞葉輪與更大水路之渦流葉輪，確保不阻塞。
- 一般用：廢水處理。

》技術特徵

- 背向拉出設計，利於拆卸及組裝，不必移動管路維修較容易。
- 軸承以機油潤滑，品質穩定，故障率低，可連續長期使用。
- 標準旋轉方向：馬達側視之，為順時針旋轉。

》配件

- 相對法蘭。
- 聯軸器。
- 密閉式安全護罩1件。
- 底座。
- 三相馬達，電壓：208~480V，頻率60/50Hz
過載保護器由使用者自行安裝在電控箱。

》Application

- Design to pump slurries and sludge, especially for abrasive particles, large solids, and fibrous materials in water suspension. Suited to waste water treatment, pulp and paper industries.
- Low Energy Consumption:
Vortex impeller and two channel no-clog impellers with special hydraulic design, the vortex impeller is clear of casing anything expelled through the pump discharge, two channel impellers can handle big soft solids in waste water with higher efficiencies.
- Wear Resistant:
The two channel impeller has harden replaceable wear ring in the casing inlet to renewable performance, and the pump casing has generous wall thicknesses to against premature wear and provided long-term reliable performance.
- Clog-less :.
The vortex impeller induce swirling flow, the clog-less is the solids passage not through vane channels, the two channel impeller has large channel to pass large solids without clogging.
- General Industries.
Waste water treatment, pulp and paper industries.

》Features

- Back pull-Out design to eliminate the need to remove casing from piping, and easy to maintenance the rotor assembly.
- The bearing lubricated by oil has steady quality in running, long mean time between failures, especial for a continuous operation conditions.
- Rotation direction is clock's wise from motor side.

》Accessories

- Butt joint flange 1 Set.
- Coupling 1 Set and Coupling guard
- Base plate
- Three-phase motor: 208~480V
60/50Hz: overload protection to be provided by user and installed in the control panel.



》構造說明

● 泵殼：

中心出口，使配管時不易扭曲泵殼，管路可獲得完整支撐，具背向拉出設計，並有耐磨蝕的鑄件壁厚與平滑之內部輪廓，以延長壽命。

● 葉輪：

- 一. 渦流葉輪 (Vortex impellers): 適用於任何類型的污染液體，特別能處理長條形與大型固體之抽送。
- 二. 雙通道不阻塞葉輪 (Two channel impellers): 為封閉式葉輪，寬敞的流道可通過相當大之固體，也適用於乾淨的液體。

● 磨損環：

用於雙通道葉輪，用來保護泵殼入口不被葉輪磨損，可以定期更換以確保泵浦效率。

● 軸與軸套：

最完善之設計以獲得最大之負荷量與最小之扭曲。填料接觸部分套以軸套並與葉輪鍵相互固定。

● 軸承箱：

箱內容納潤滑油，另可加裝冷卻銅管以控制軸承溫度，並裝有油位尺 (亦有自動加油杯供選擇)，以檢視油量。

》Construction

● CASING:

Designed with a back pull out structure to make easily maintenance and cost-effective servicing, to remove the rotor assembly without disturbing the piping, and center line discharge casing has generous wall thicknesses to keep stiffness to against the nozzles loading from pipe work.

● IMPELLER:

Vortex impellers are used for all types of waste water, and the induced swirling by impeller has the advantage to handle large size solids and long strip materials. Closed type two channel impellers have large flow channel area can pass large soft solids, and has good efficiencies also be using for clean liquids pumping..

● WEARING RING:

To seal the internal leakage between the inlet of pump casing and the inlet of two channel impeller, wearing ring protects the pump casing and renewable the pump performance, needed inspect and maintenance on schedule.

● SHAFT AND SHAFT SLEEVE:

Shaft and shaft sleeve shall be in good diameter tolerance and surface finish to get right fitting, and over size shaft with high stiffness design to keep small run out and deflection.

The sleeve will be worn by stuff material to prevent shaft damage in the stuff box, fixed by key and the impeller nut with the shaft.

● BEARING BRACKET:

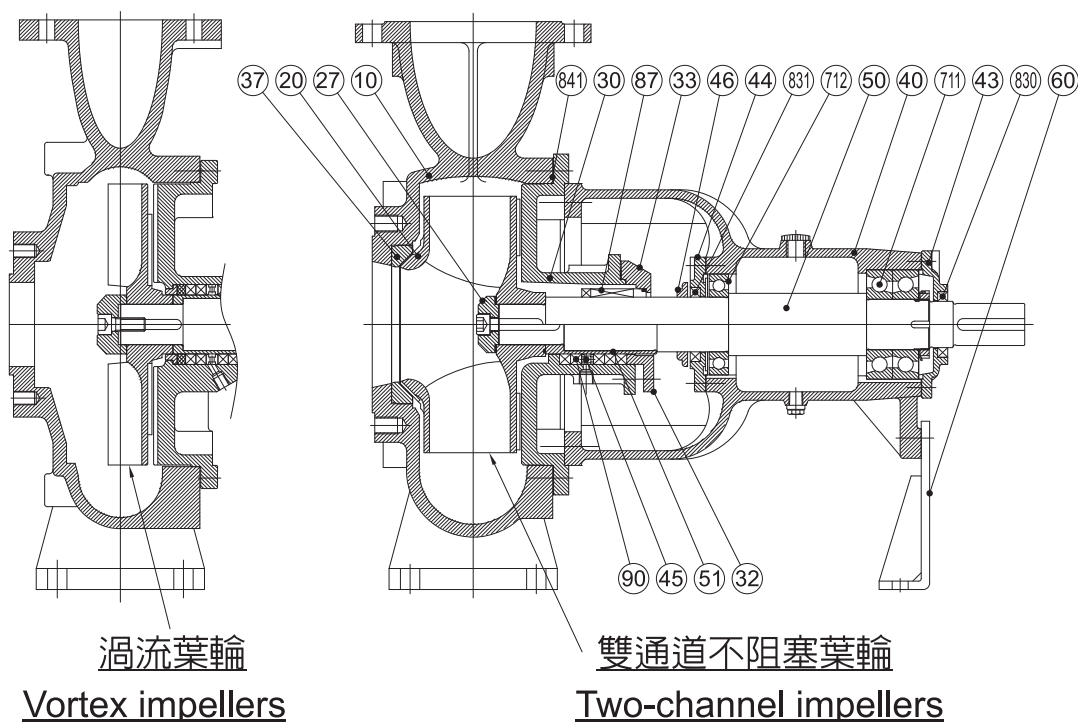
Heavy-duty designed in rigid structure with foot mounted, the duplex thrust bearings with brass cage are ideally to control the oil temperature, oil window or oil level could be used to monitor, oil cup is optional.



》產品構造(Construction)

構造圖(一)

Construction 1



PART NO	零件名稱	PART NAME
10	泵 殼	Casing
20	葉 輪	Impeller
27	葉輪墊塊	Impeller washer
30	填 料 函	Stuffing box
32	填 料 蓋	Gland
33	軸封壓蓋	Mech.seal cover
37	磨 損 環	Wear ring
40	軸 承 箱	Bearing frame
43	M側軸承蓋	Bearing cover
44	P側軸承蓋	Bearing cover
45	水 封 環	Lantern ring
46	擋 水 環	Water slinger
50	軸 心	Pump shaft
51	軸 套	Shaft sleeve
60	支 腳	Foot
711	軸 承	Radial bearing
712	軸 承	Radial bearing
830	油 封	Oil seal
831	油 封	Oil seal
841	墊 片	Gasket
87	機械軸封	Mechanical seal
90	填 料	Gland packing

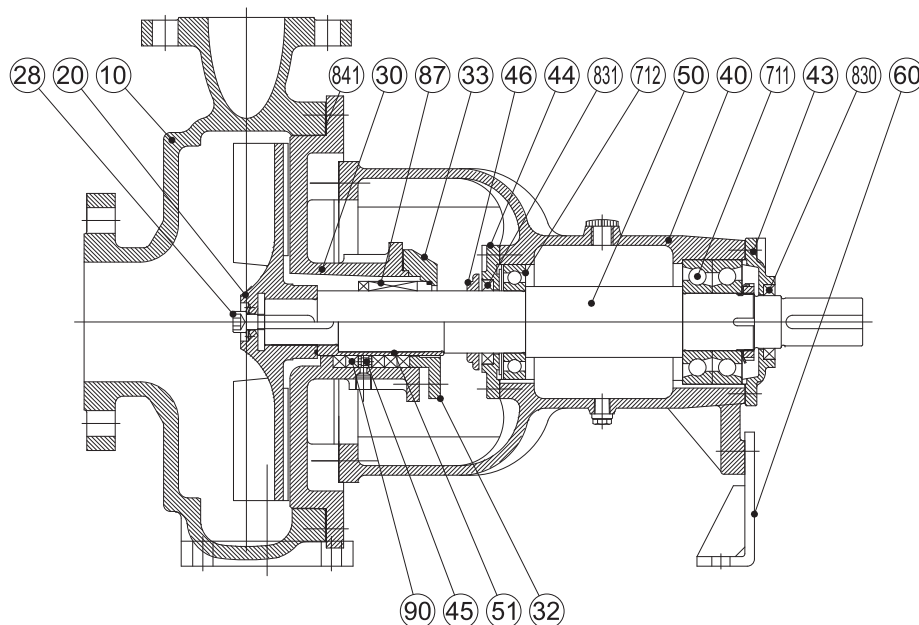
主要部份材質表 Material of main parts				
Part name		A	B	C
泵殼	Casing	FC250	SCS13	SCS14
磨損盤	Wear ring	FC250	SCS13	SCS14
葉輪	Impeller	SCS13	SCS13	SCS14
軸心	Pump shaft	SUS410	SUS304	SUS316
軸套	Shaft sleeve	SUS304	SUS304	SUS316
填料函	Stuffing box	FC250	SCS13	SCS14
軸承箱	Bearing frame	FC250		



》產品構造(Construction)

構造圖VORTEX IMPELLERS (二)

Construction 2



PART NO	零件名稱	PART NAME
10	泵 殼	Casing
20	葉 輪	Impeller
28	葉輪螺栓	Impeller screw
30	填 料 函	Stuffing box
32	填 料 蓋	Gland
33	軸封壓蓋	Mech.seal cover
40	軸 承 箱	Bearing frame
43	M側軸承蓋	Bearing cover
44	P側軸承蓋	Bearing cover
45	水 封 環	Lantern ring
46	擋 水 環	Water slinger
50	軸 心	Pump shaft
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830	油 封	Oil seal
831	油 封	Oil seal
841	墊 片	Gasket
87	機械軸封	Mechanical seal
90	填 料	Gland packing

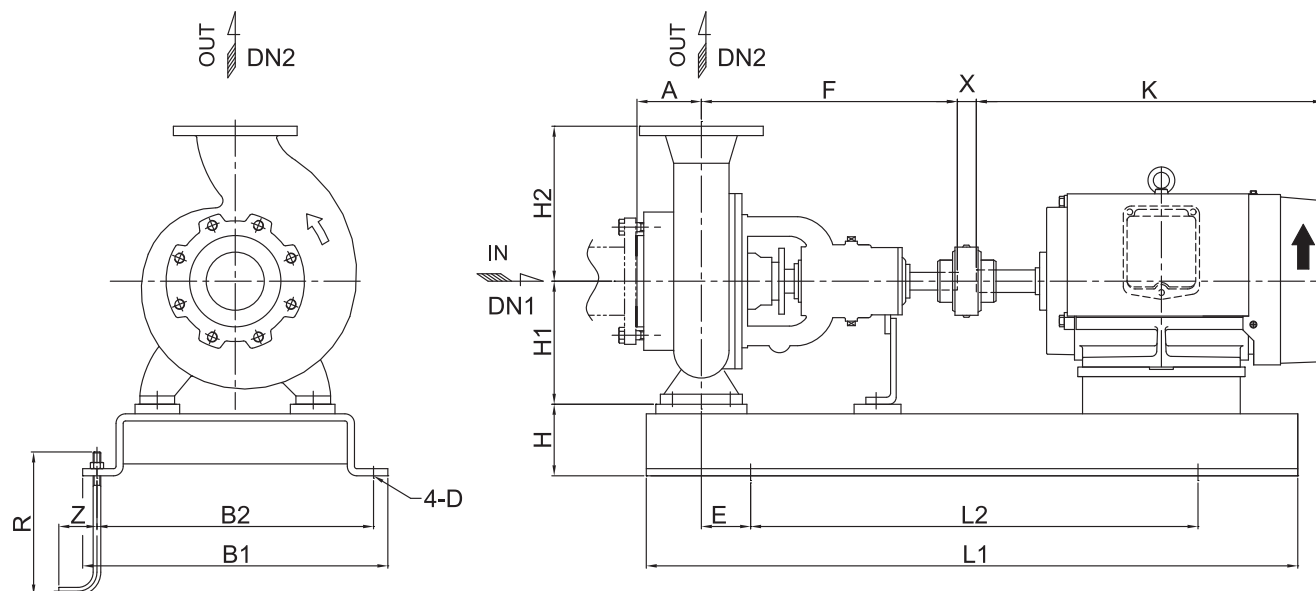
主要部份材質表		Material of main parts		
Part name		A	B	C
泵殼	Casing	FC250	SCS13	SCS14
葉輪	Impeller	SCS13	SCS13	SCS14
軸心	Pump Shaft	SUS410	SUS304	SUS316
軸套	Shaft sleeve	SUS304	SUS304	SUS316
填料函	Stuffing box	FC250	SCS13	SCS14
軸承箱	Bearing frame	FC250		

零件的互換性決定於軸與軸承系統, F80型,F100型,F130型,F160型...等, 這些軸與軸承系統都可以針對客戶需求作特殊設計,以滿足製程應用之需求。

Parts interchangeable based on shaft bearing system, F80 type, F100 type, F130 type, F160 type, special designed to meet differential application is available.



》尺寸表(Standard Dimensions)



< 剖面詳見構造圖(一) refer to construction 1 >

型號(Type)	軸型式(Model)	DN1(Inlet)	DN2(Outlet)	A	F	H1	H2
80x80-200	F80	80	80	78	463	180	225
100x100-260	F100	100	100	115	570	280	310
100x100-320	F130	100	100	130	657	315	355
150x150-320	F130	150	150	120	656	315	360
200x200-320	F130	200	200	135.5	680	315	410
150x150-380	F130	150	150	120	660	315	400
200x200-380	F130	200	200	140	676	315	440
200x200-480	F160	200	200	180	725	380	550

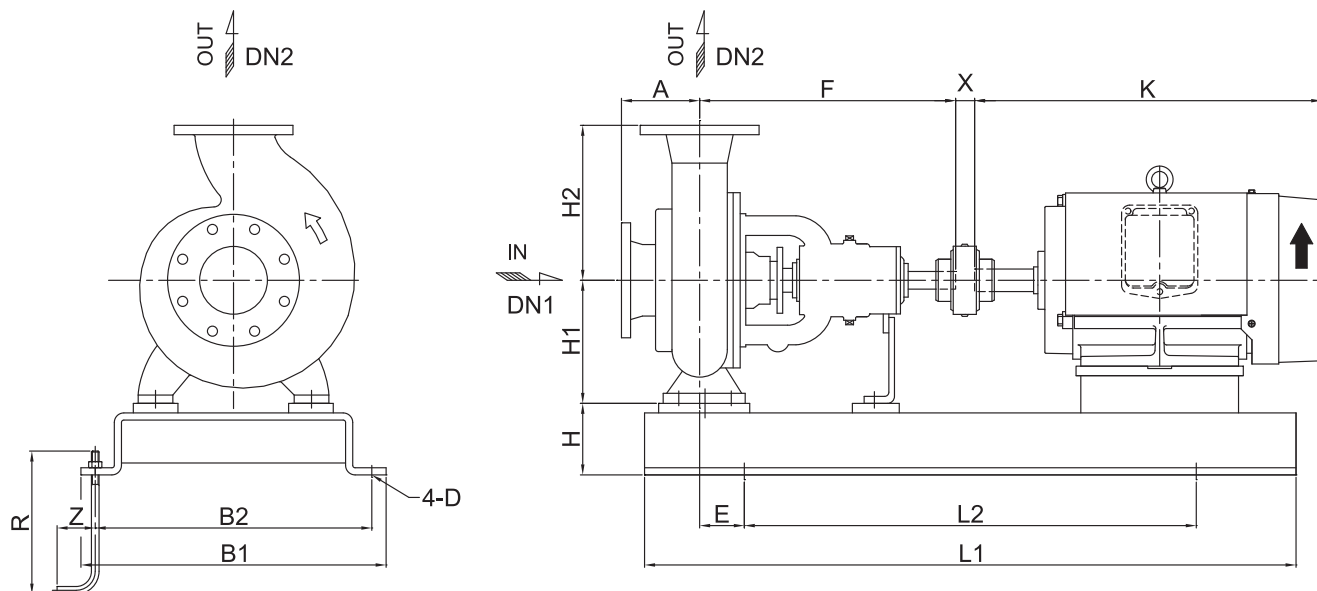
※以上尺寸僅供參考，正確尺寸依承認圖為基準。

單位(UNIT):mm

※ The above-mentioned size are only for reference, the correct size, in accordance with acknowledging pursuing as basis.



》尺寸表(Standard Dimensions)



<剖面詳見構造圖(二) refer to construction 2 >

型號(Type)	軸型式(Model)	DN1(Inlet)	DN2(Outlet)	A	F	H1	H2
80x50-200	F100	80	50	125	543	180	200
80x50-250	F100	80	50	125	543	180	225
100x80-200	F100	100	80	160	543	180	225
100x80-280	F100	100	80	190	549	210	280
125x80-380	F130	125	80	177	636	255	318
150x100-250	F130	150	100	180	652	225	280
150x100-315	F130	150	100	180	659	250	315
200x150-400	F160	200	150	200	690	315	400
200x200-400	F160	200	200	200	700	355	450

※以上尺寸僅供參考，正確尺寸依承認圖為基準。

單位(UNIT):mm

※ The above-mentioned size are only for reference, the correct size, in accordance with acknowledging pursuing as basis.

註: 一.小於40hp的泵浦底座是由厚鋼板成型製作，40hp(含)以上使用槽型鋼製成底座。

Under 40hp the base plate be fabricated by thick steel Sheet metal,

Same as or more than 40 hp, Trough sectional steel be used to make the base plate.

二.底座的尺寸(B1,B2,D,H,E,L1,L2,X,K,Z,R)等是由馬達框號,聯軸器型號,與底座的製造方法等參數而決定,訂購前請與我們聯繫讓我們提供更詳細正確的資訊。

(Base plate relative dimension (B1,B2,D,H,E,L1,L2,X,K,Z,R) depends on frame of motor, fabrication method and coupling type , please contact us to get more detail information before order.)



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Clog-less Pumps



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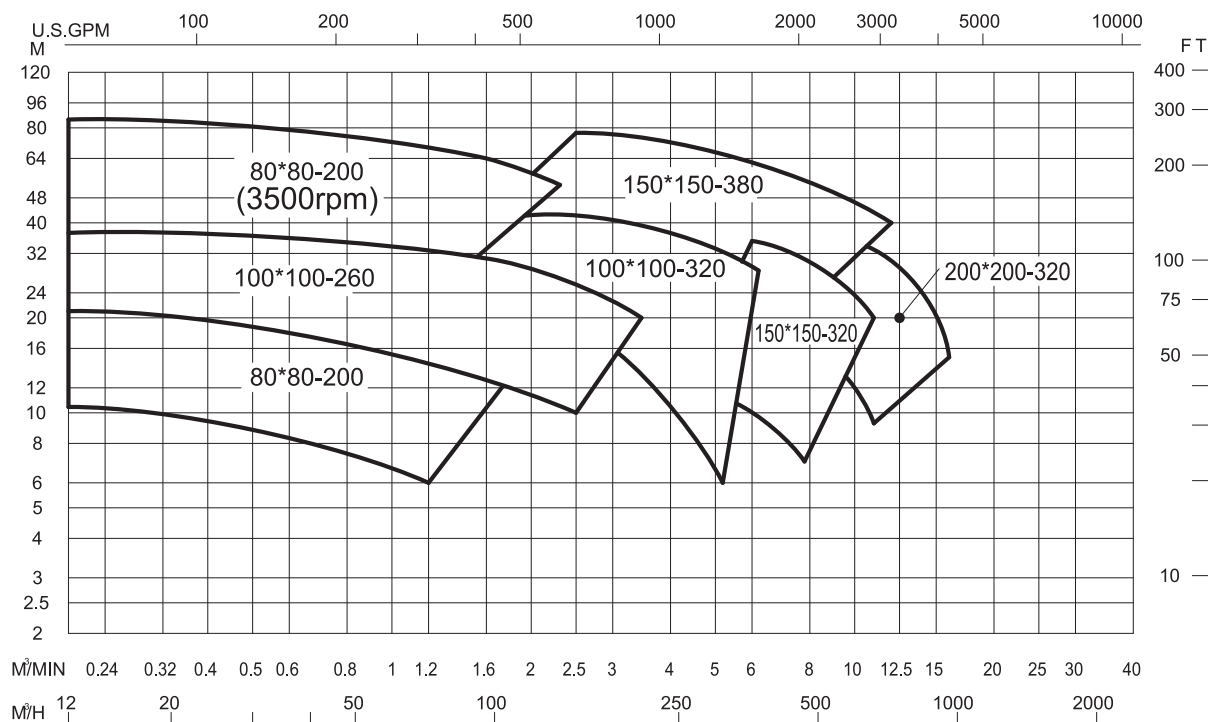
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PERFORMANCE RANGES

性能選擇表

Impeller Type: **Two-Channel**

1750r.p.m (60HZ)



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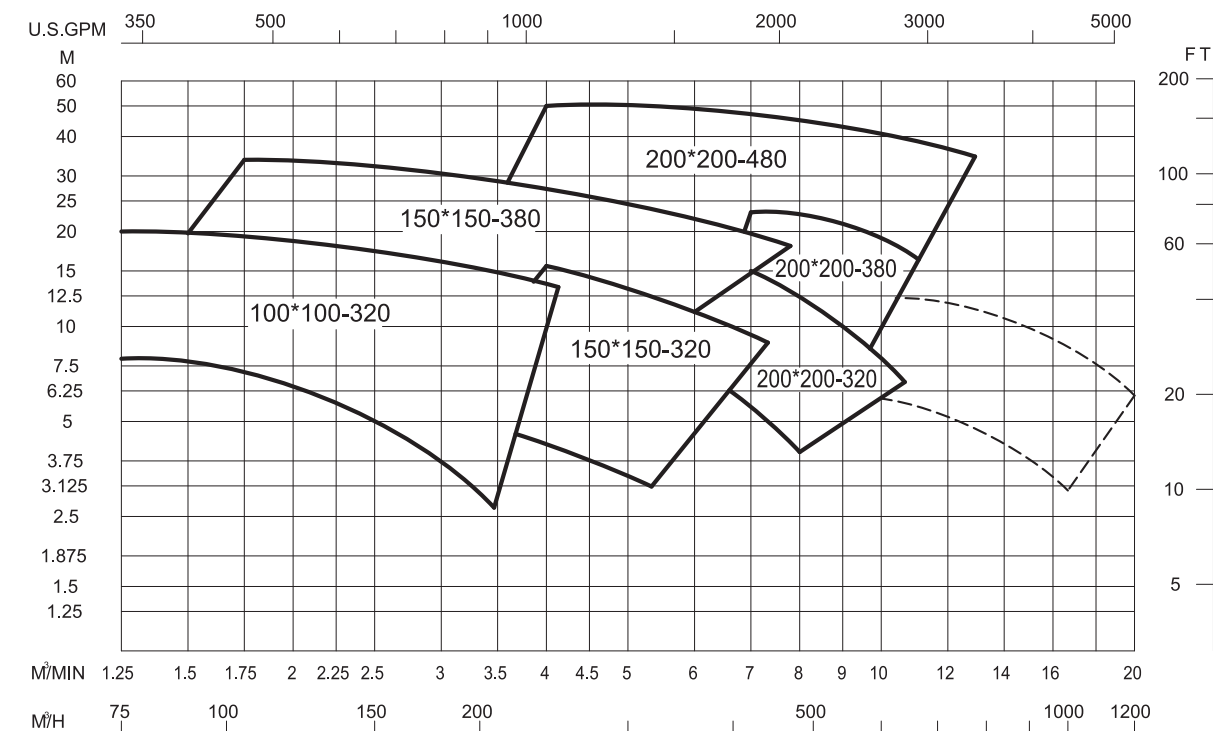
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PERFORMANCE RANGES

性能選擇表

Impeller Type: **Two-Channel**

1180r.p.m (60HZ)





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不堵塞泵 WFB

Clog-less Pumps



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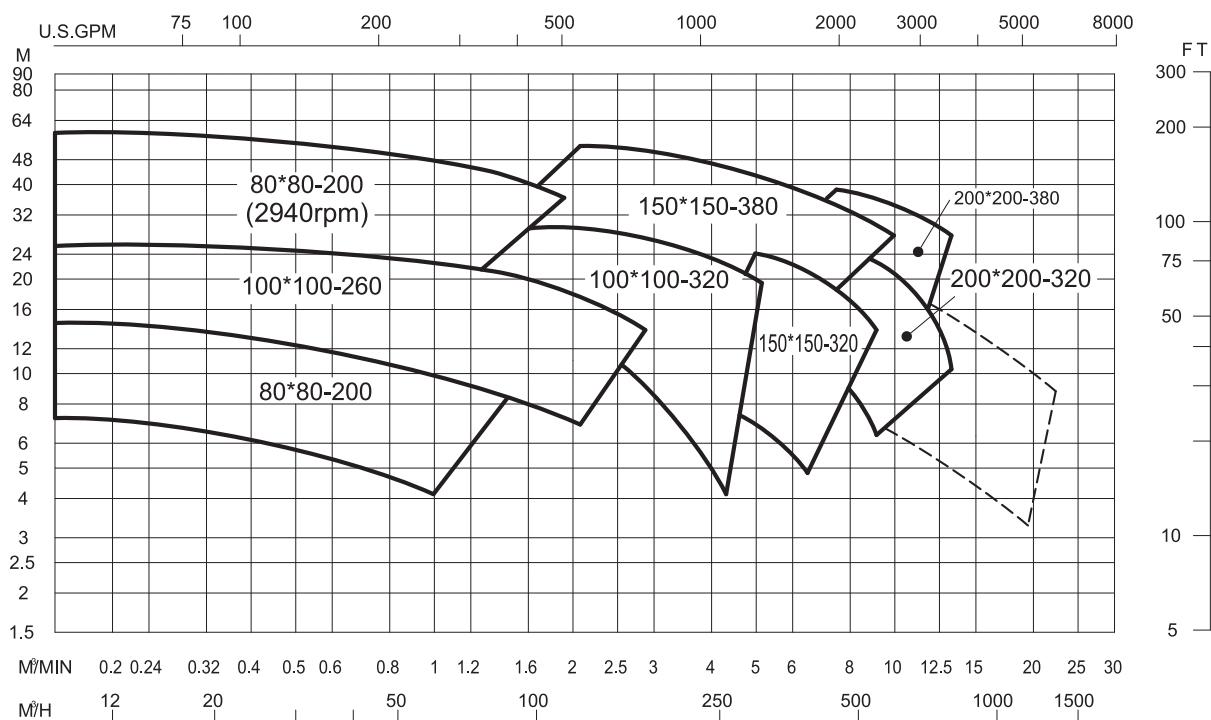
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PERFORMANCE RANGES

性能選擇表

Impeller Type: **Two-Channel**

1450r.p.m (50HZ)



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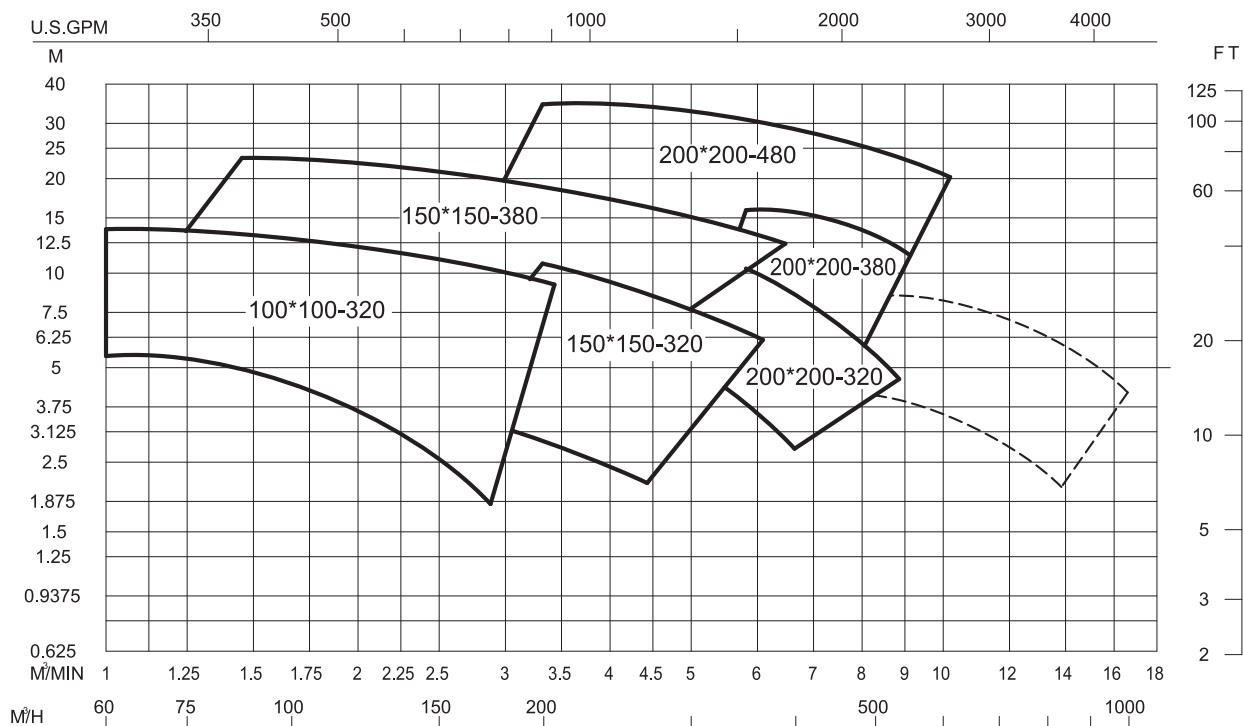
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PERFORMANCE RANGES

性能選擇表

Impeller Type: **Two-Channel**

980r.p.m (50HZ)





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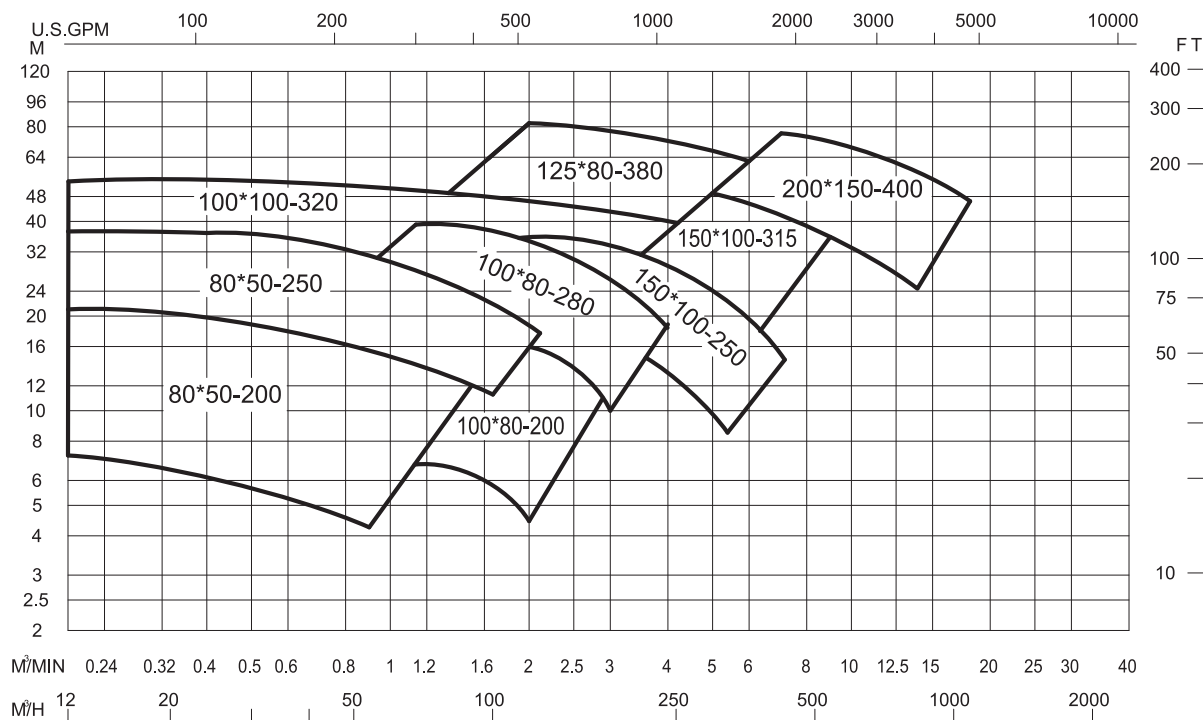
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PERFORMANCE RANGES

性能選擇表

Impeller Type: **Vortex**

1750r.p.m (60HZ)



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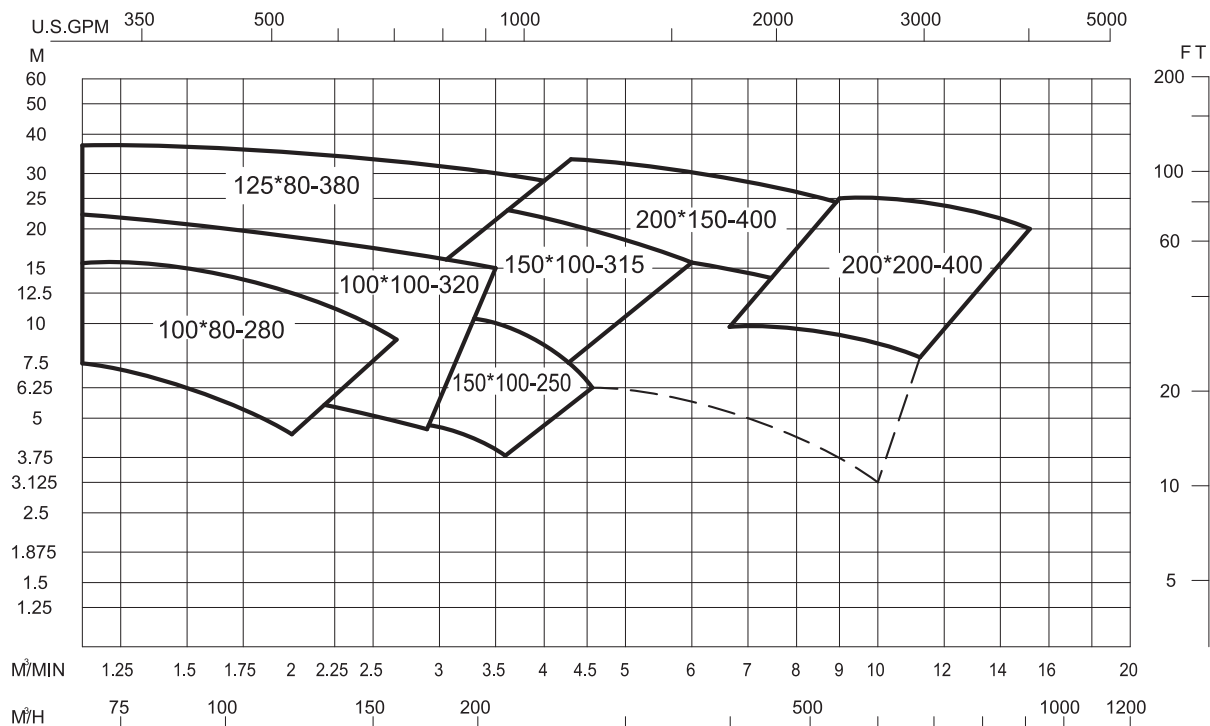
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PERFORMANCE RANGES

性能選擇表

Impeller Type: **Vortex**

1180r.p.m (60HZ)





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不堵塞泵 WFB

Clog-less Pumps



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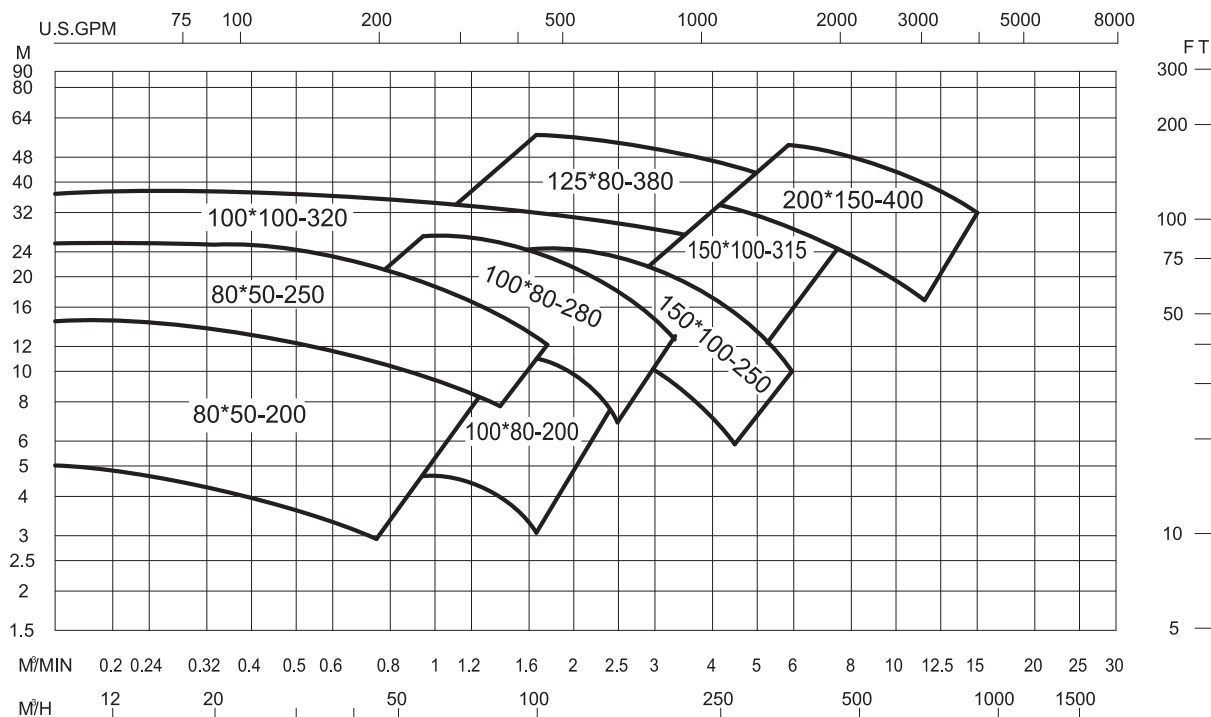
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PERFORMANCE RANGES

性能選擇表

Impeller Type: **Vortex**

1450r.p.m (50HZ)



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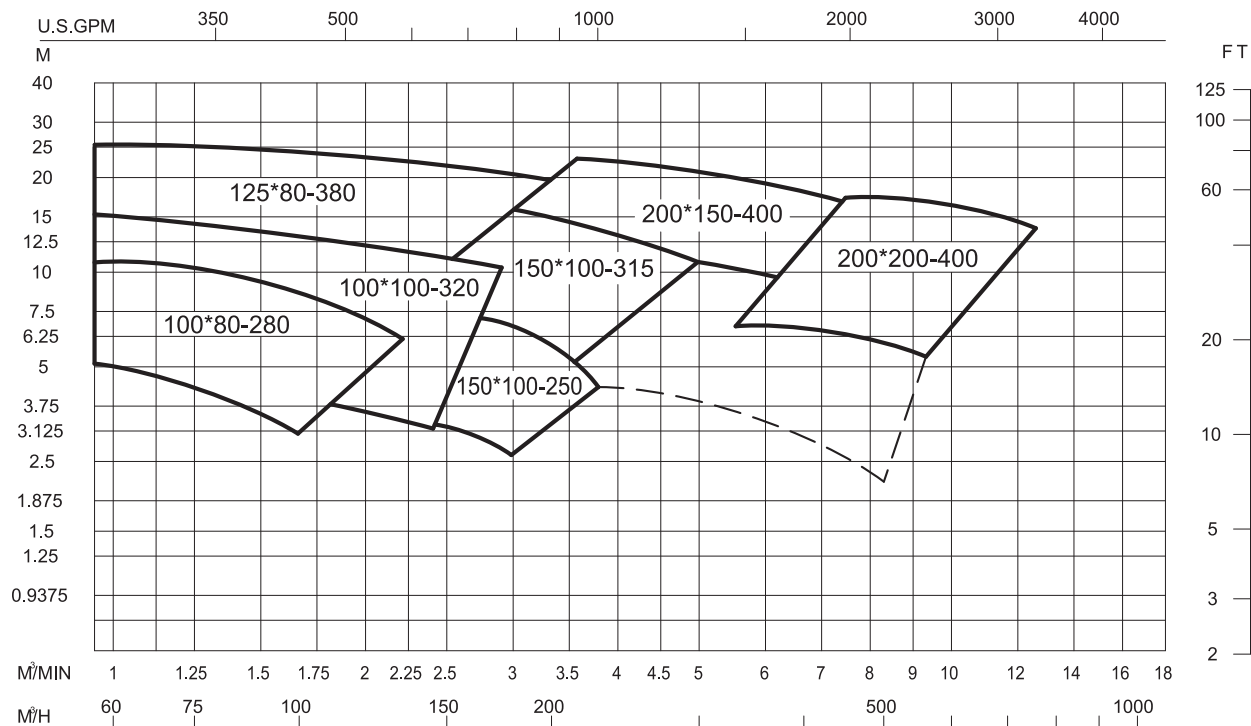
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PERFORMANCE RANGES

性能選擇表

Impeller Type: **Vortex**

980r.p.m (50HZ)





》如蒙洽詢請指示下列各項

In sending your enquiry or order, please inform us with the following Informations in detail:

1. 出水量(Capacity): _____ m³/min, _____ US.GPM or _____ IMP. GPM .
2. 總揚程(Total head): _____ m or _____ feet
3. 液體(Liquid): _____
4. 液體溫度(Temperature of liquid): _____ °C or _____ °F
5. 紙漿濃度(Pulp consistency): _____ %
6. 比重(Specific gravity): _____
7. 酸鹼度(P.H.): _____
8. 運轉溫度下之蒸氣壓力(Vapor pressure at operating temperature):
_____ kg/cm², or _____ PSIA
9. 可用之淨有效吸入揚程(NPSH available): _____ m or _____ feet
10. 泵浦迴轉數(Pump speed): _____ rpm
11. 驅動馬達出力(Driven motor output): _____ KW or _____ HP
12. 電源特性(Electric characteristics):
_____ Phase _____ Cycle _____ Volts



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