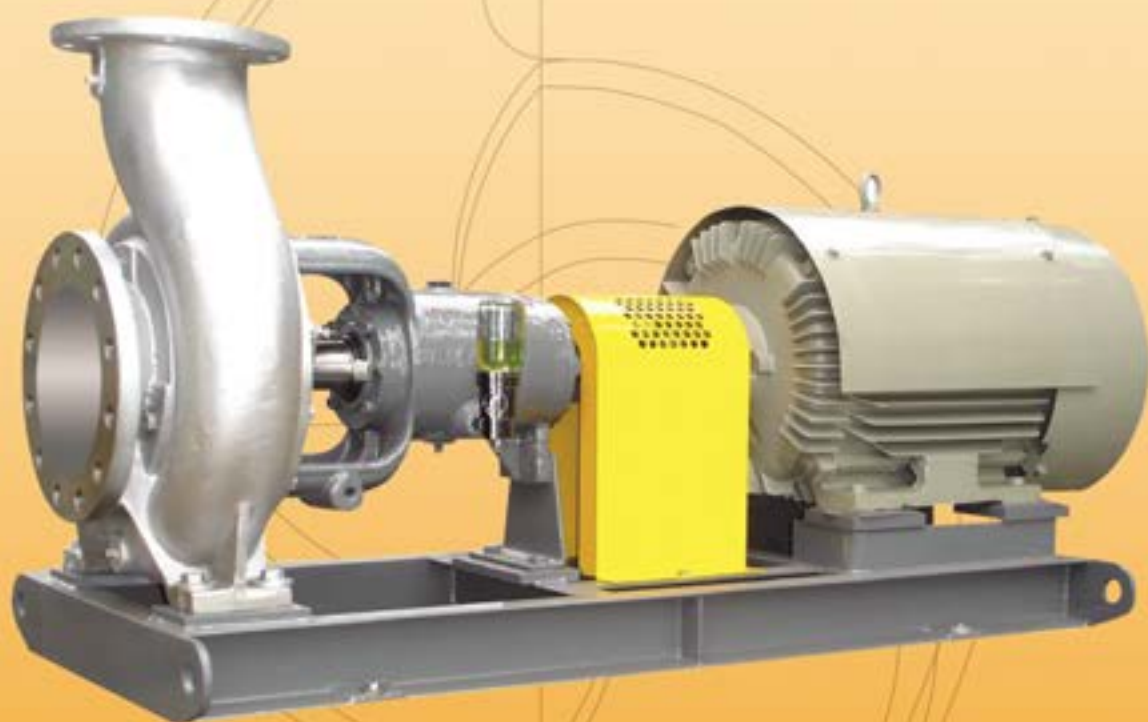


WSP 紙漿泵/製程泵

Paper Stock (Pulp) Pumps/Process Pumps



- 單級端吸離心式泵浦
- 口徑: $\varnothing 65 \sim \varnothing 450\text{mm}$ ($2\frac{1}{2}'' \sim 18''$)
- 流量範圍 $0.4\text{m}^3/\text{min} \sim 80\text{m}^3/\text{min}$
- 揚程範圍 $5\text{m} \sim 120\text{m}$
- 壓力範圍 $20\text{kg}/\text{cm}^2$
- 溫度範圍 232°C
- Single stage end suction centrifugal pump
- Port range $\varnothing 25 \sim \varnothing 450\text{mm}$ ($2\frac{1}{2}'' \sim 18''$)
- Capacity range $0.4\text{m}^3/\text{min} \sim 80\text{m}^3/\text{min}$
- Heads range $5\text{m} \sim 120\text{m}$
- Working pressures $20\text{kg}/\text{cm}^2$
- Temperatures up to 232°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。



萬事興實業有限公司
ALL STAR PUMP ENTERPRISE CO.,LTD.



》用途

- 造紙與造漿用：
紙漿之抽送可達5%~7%之濃度。
黑液之抽送可達68%之固體含量。
- 化學製程用：
高鹼性藥液輸送。
- 石油化工用：
製程中各種石化液體輸送。
- 礦業用：泥漿，礦漿之輸送。
- 食品工業用：水果漿之輸送。
- 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。
- 中心出口設計符合ISO2858要求，配管架設容易，減少管路力量與力矩施加在進出口法蘭與泵殼上。
- 低NPSHr：葉輪入口面積大NPSHR特別低，不易堵塞。
- 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

- Pulp and Paper Industries:
Maximum consistency of pulp up to 5% could be pumped.
Maximum particles content of black liquid up to 68% could be pumped.
- Chemical processes:
Alkaline chemical liquid transferred.
Thin acid chemical liquid transferred.
- Petrochemical industry:
Process liquids transferred.
- Mining industry
Low consistency mud transferred.
- Food Industries:
Fruit juice, battery liquid transferred.
- General Industries.
Waste water treatment.

》Design Features

- Back pull-Out design with capability to remove rotor assembly without to dismantle the pipe lines at the suction or discharge of pump casing.
- The bearing lubricated by oil has steady quality in running, long mean time between failures, suitable for a continuous operation in long time.
- The in-line designed for inlet and outlet, compliance with ISO 2858, pipeline can be easily fixed to reduce the forces and the moments added to pump nozzles and casing.
- Low NPSHr design: bigger inlet eye area of impeller to improve low NPSHa inlet conditions and no trouble from clogging also.
- Rotation direction is clock's wise from motor side.

》Accessories

- Butt joint flange 1 Set.
- Coupling 1 Set
- 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：

泵殼垂直分割且具背向拉出設計，中心出口使得配管容易，管路可獲得完整的支撐，減少管路負荷施加在出入口法蘭與泵殼上。

● 葉輪：

全開放及半開放斜流葉輪設計可供選擇，巧妙兼顧揚程與流量的設計以取得高效率性能。低NPSHr設計並在葉輪背面設有背葉以減少填料函之壓力，使固體顆粒不易進入填料函內。

● 磨損盤：

磨損盤的外型曲線與葉輪外型相一致，使葉片尖端間隙減少以降低洩漏損失，是用來保護泵殼不被葉輪磨損，並容易更換之零件。

● 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。

● 磨損盤：

磨損盤的外型曲線與葉輪外型相一致，使葉片尖端間隙減少以降低洩漏損失，是用來保護泵殼不被葉輪磨損，並容易更換之零件。

》Construction elucidate

● CASING:

Vertical split with back pull-out design, the nozzles are in-line at center, to reduce pipe loading applying on nozzles and pump casing, easy pipe layout also.

● IMPELLER:

Open and semi open type impeller could be chosen, with mixed flow features perfectly balance the statically head rise and the dynamically capacity to get high efficiency and good performance, low-NPSHr design with back vane to reduce the stuffing box pressure and prevent particle to enter it.

● SIDE PLATE:

Side plate has the same contour with impeller to reduce the internal leakage between the impeller and casing to control the tip gap of impeller, employed to prevent casing from wearing and easy to maintenance.

● SHAFT AND SHAFT SLEEVE

Shaft sleeve shall be turned and ground to exact dimension with right fitting, high stiffness shaft carry all imposed load and prevent distortion. The sleeve will be worn by stuff material of stuff box to prevent shaft damage, fixed by key and the impeller nut.

● BEARING BRACKET:

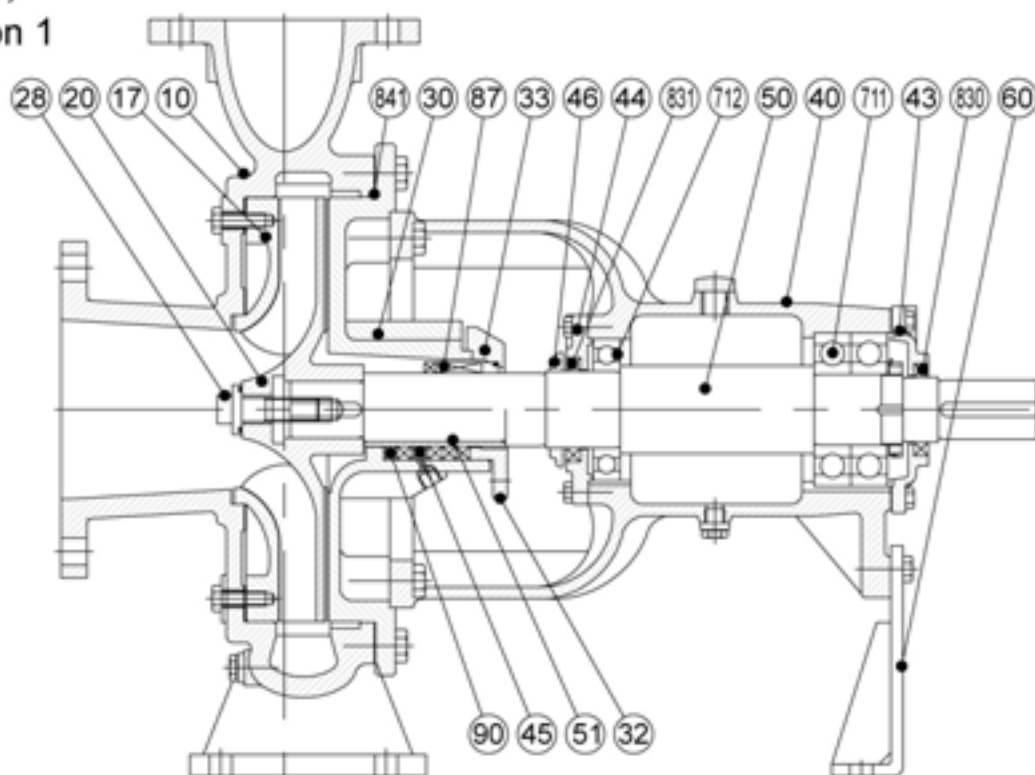
Heavy-duty designed in brief structure with a foot, bronze tube could be added to control the temperature of bearing, oil window or oil level could be used to monitor, oil cup is optional.



》產品構造(Construction)

構造圖(一)

Construction 1



PART NO	零件名稱	PART NAME
10	泵殼	Casing
17	磨損盤	Side plate
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
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

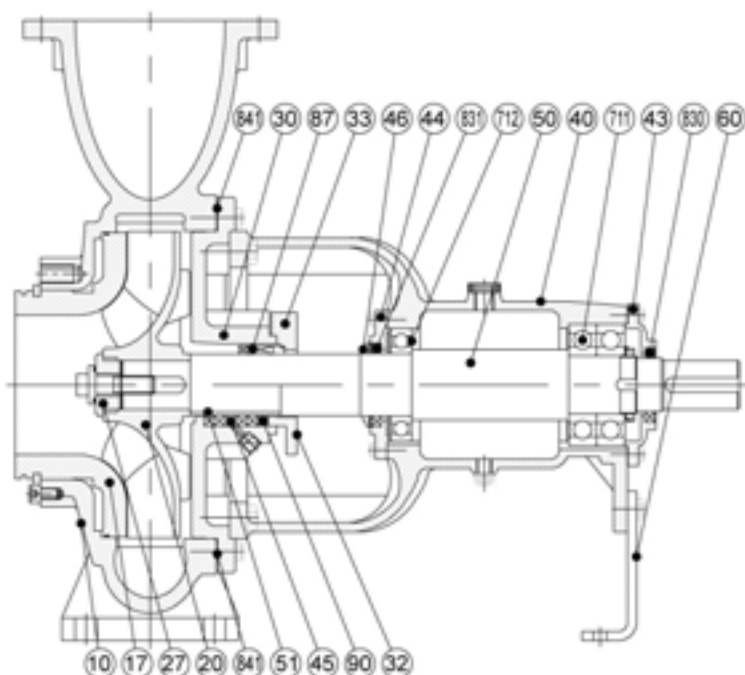
主要部份材質表 Material of main parts

Part name		A	B	C
泵殼	Casing	FC250	SCS13	SCS14
磨損盤	Side plate	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(二)
Construction 2



PART NO	零件名稱	PART NAME
10	泵殼	Casing
17	磨損盤	Side plate
20	葉輪	Impeller
27	葉輪墊塊	Impeller chock
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
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	Side plate	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，F100型，F130型，F160型，F180型，F215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, F100 type, F130 type, F160 type, F180 type and F215 type, special designed to meet differential application is available.



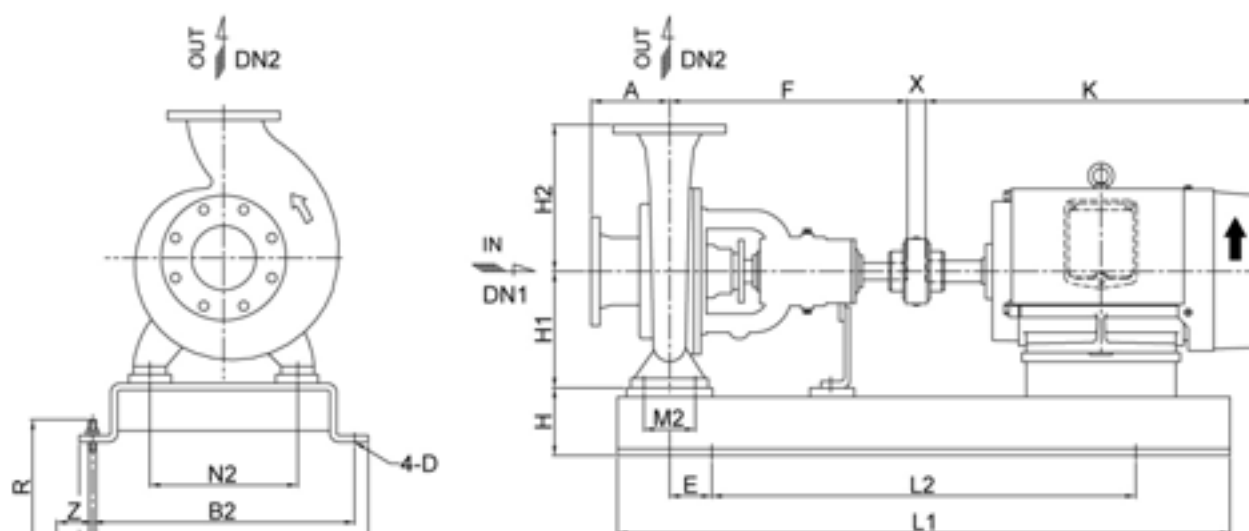
萬事興

ALL STAR PUMP

紙漿泵/製程泵 WSP

WSP Paper Stock (Pulp) Pumps/Process Pumps

》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	M2	N2
100×65-210	F80	100	65	100	445	180	225	95	250
100×80-280	F100	100	80	190	548	210	280	100	210
100×80-300	F100	100	80	185	548	230	300	80	240
125×100-280	F100	125	100	190	548	210	280	100	210
150×100-300	F100	150	100	122	550	236	341	90	345
200×150-300	F100	200	150	125	564	252	413	90	375
125×80-460	F130	125	80	170	610	315	400	165	450
150×100-350	F130	150	100	262	616	280	390	140	290
150×100-360	F130	150	100	189	636	310	330	140	380
150×100-36N	F130	150	100	185	636	310	360	150	380
150×100-370	F130	150	100	190	634	310	360	150	380
125×100-400	F130	125	100	140	615	280	355	150	400
150×100-460	F130	150	100	185	644	350	440	150	380
200×150-300	F130	200	150	125	640	252	413	90	375
200×150-350	F130	200	150	260	624	270	400	140	290
200×150-360	F130	200	150	187	637	310	410	150	380
150×100-460	F160	150	100	185	678	350	440	150	380
200×150-400	F160	200	150	130	663	311	464	126	400
250×250-320	F160	250	250	247	680	400	527	150	450
200×150-500	F180	200	150	200	864	315	500	400	640
250×200-360	F180	250	200	214	872	370	480	180	420
250×200-400	F180	250	200	288	860	350	480	180	360
250×200-430	F180	250	200	180	872	355	500	170	580
250×200-460	F180	250	200	207	872	400	530	180	480
250×200-500	F180	250	200	180	900	400	560	190	500
300×250-430	F180	300	250	200	880	450	550	170	680
300×300-400	F180	300	300	270	850	400	626	430	640
350×300-400	F180	350	300	270	870	400	625	430	640
300×250-570	F215	300	250	252	918	510	690	320	660

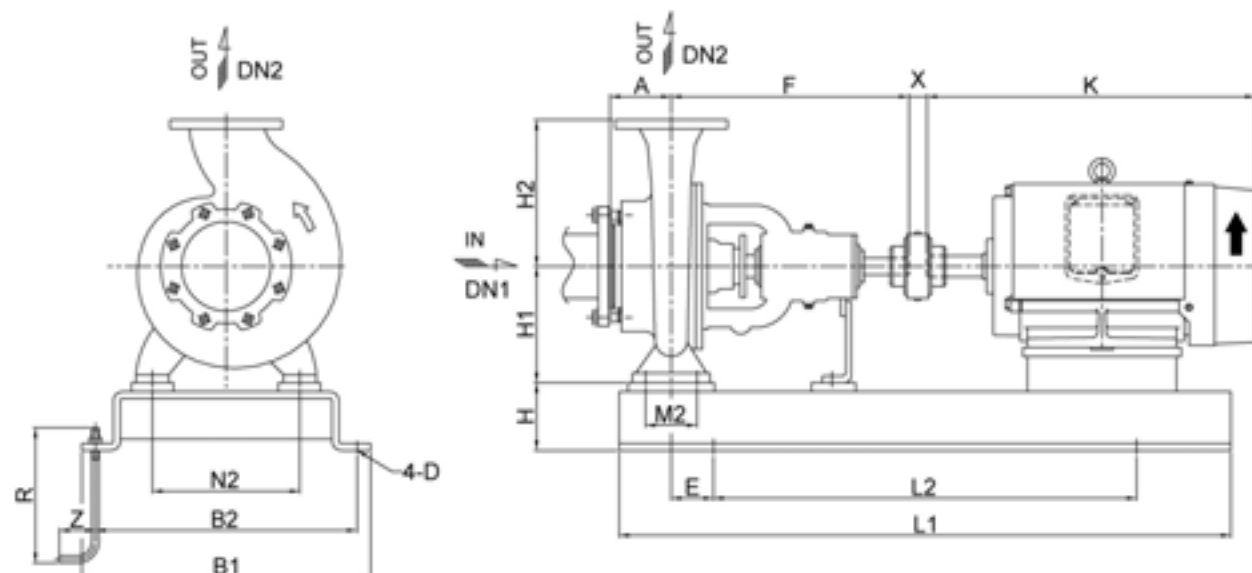
※以上尺寸僅供參考，正確尺寸依承認圖為基準。

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	M2	N2
150×80-260	F100	150	80	150	537	200	280	120	280
150×80-320	F100	150	80	150	526	225	315	120	280
150×150-260	F100	150	150	143	552	250	315	120	315
150×150-320	F130	150	150	149	634	280	400	150	450
200×200-320	F160	200	200	149	660	315	450	150	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.)



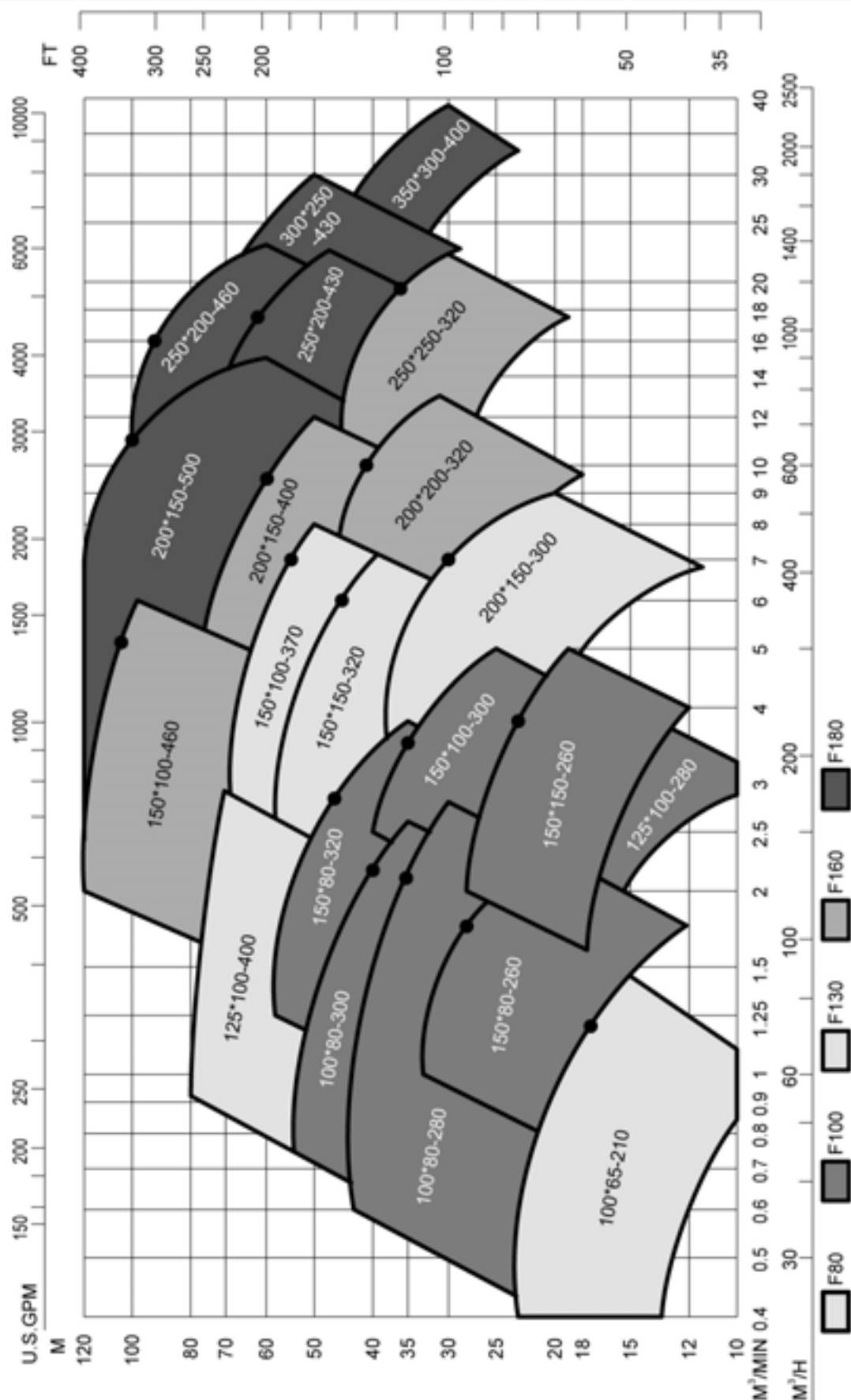
萬事興
ALL STAR PUMP

紙漿泵/製程泵 WSP

WSP Paper Stock (Pulp) Pumps/Process Pumps

ALL STAR PUMP ENTERPRISE CO., LTD. MODEL: WSP 60HZ:1760R.P.M

性能選擇表 PERFORMANCE RANGES





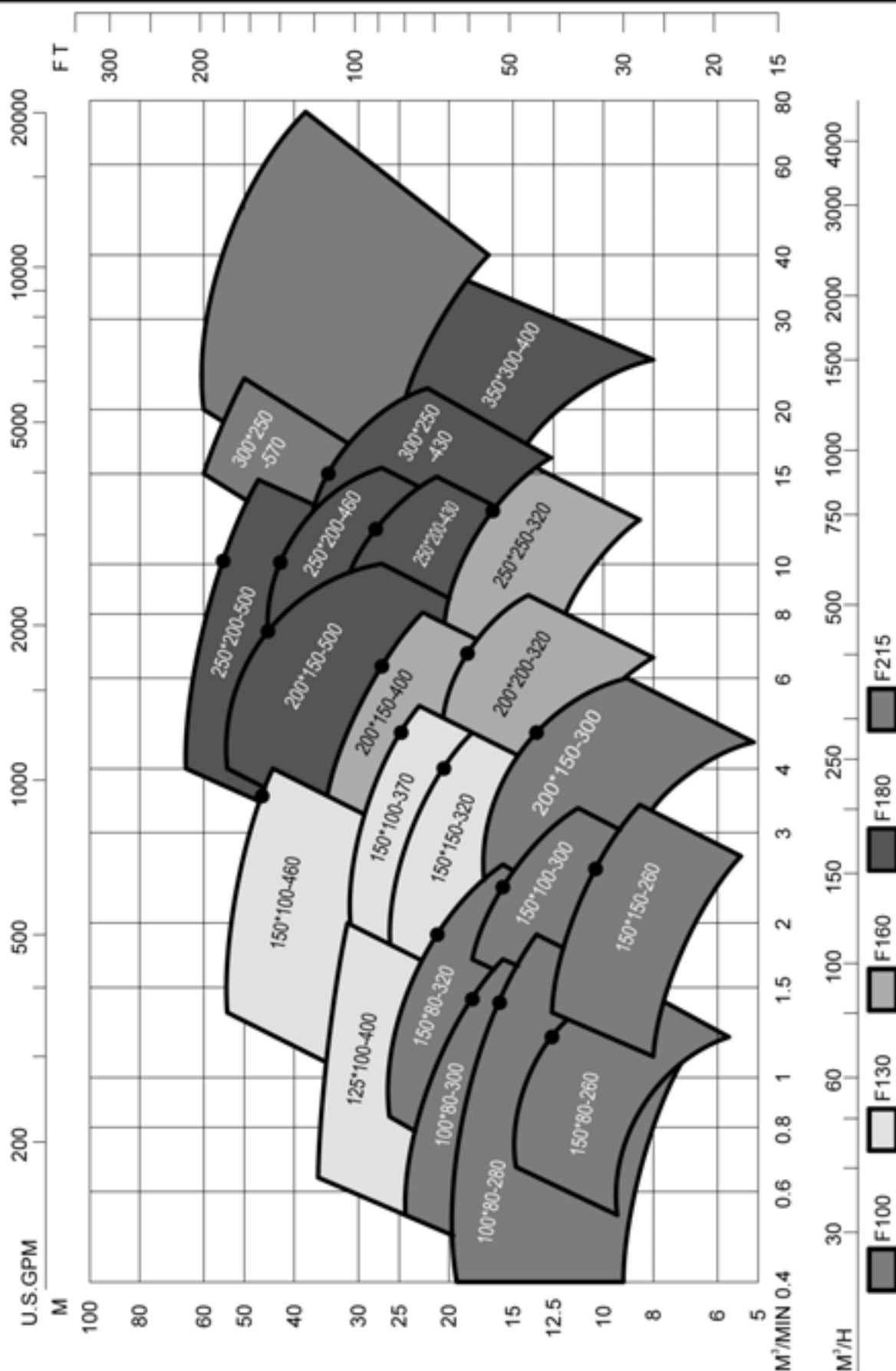
萬事興
ALL STAR PUMP

紙漿泵/製程泵 WSP

WSP Paper Stock (Pulp) Pumps/Process Pumps

ALL STAR PUMP ENTERPRISE CO., LTD. MODEL: WSP 60HZ:1170R.P.M

性能選擇表 PERFORMANCE RANGES

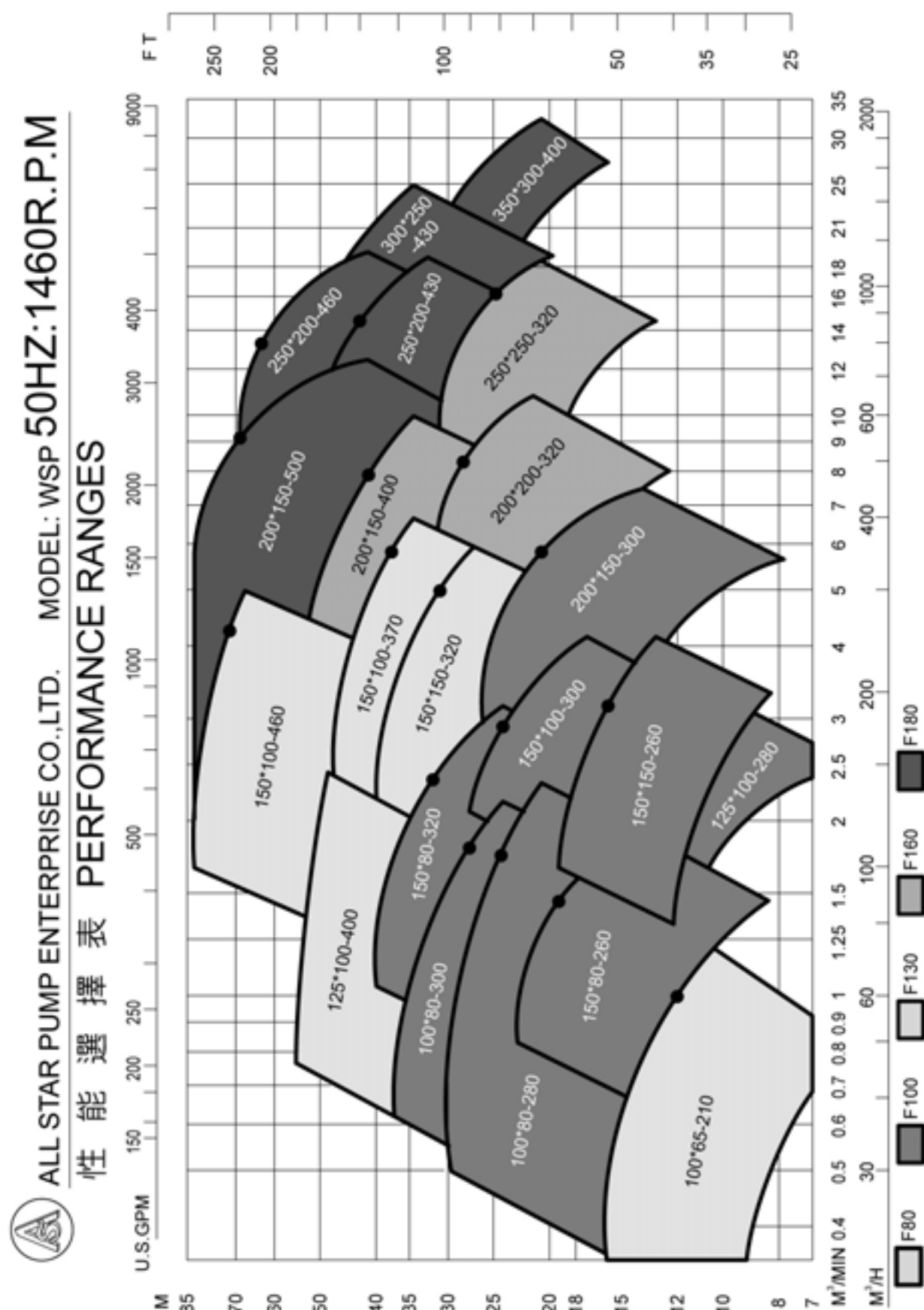




萬事興
ALL STAR PUMP

紙漿泵/製程泵 WSP

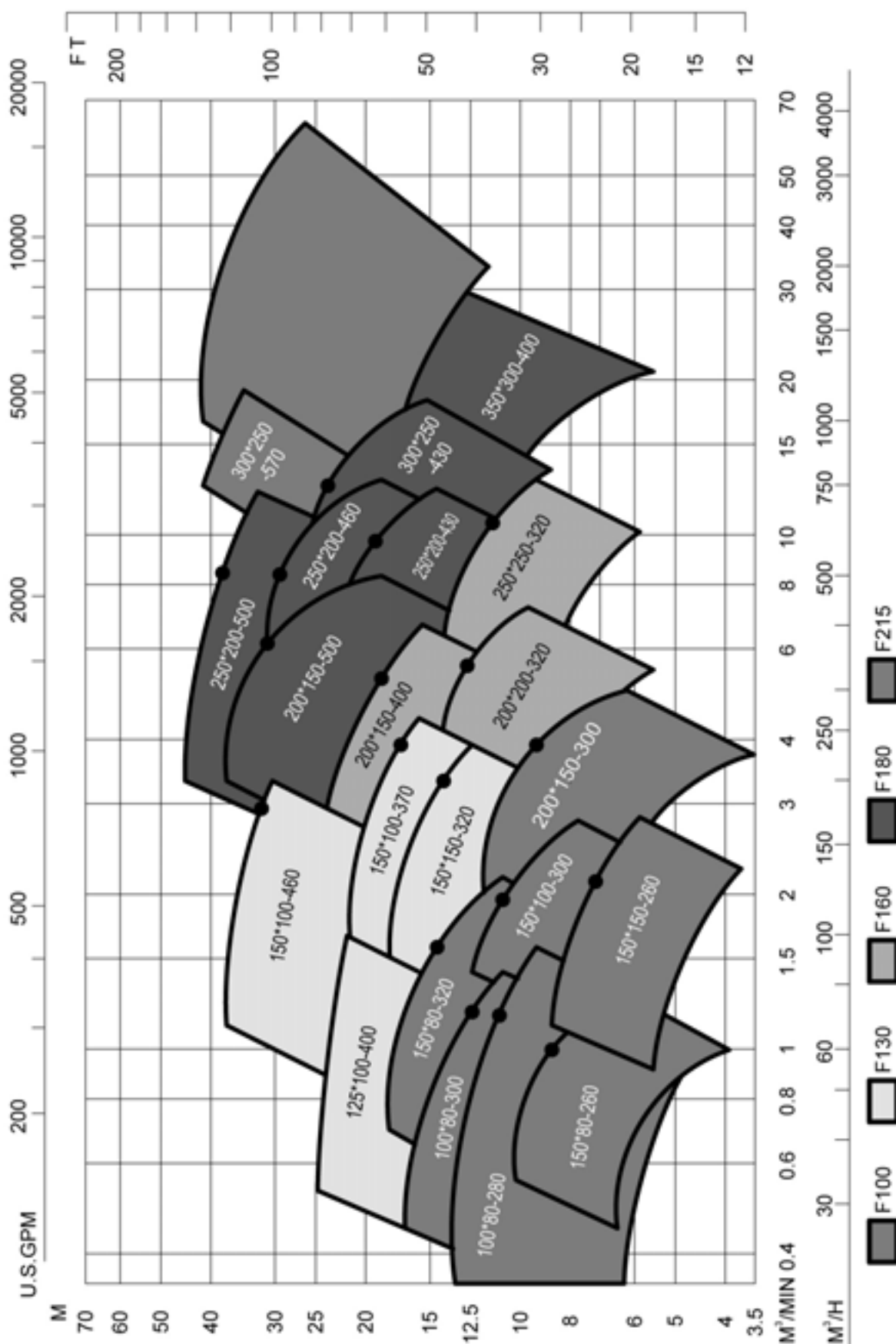
WSP Paper Stock (Pulp) Pumps/Process Pumps





ALL STAR PUMP ENTERPRISE CO., LTD. MODEL: WSP 50HZ:980R.P.M

性能選擇表 PERFORMANCE RANGES





》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



萬事興實業有限公司
ALL STAR PUMP ENTERPRISE CO.,LTD.

嘉義市港坪里育人路165巷41弄14號 電話：05-2359597 傳真：05-2358969

No.14 Alley 41, Lane 165, Yu Zen Road, Gun-Pingli, Chia-Yi City, Taiwan.R.O.C.

TEL:886-5-2359597 FAX:886-5-2358969

<http://www.aspump.com.tw> E-mail:starpump@ms26.hinet.net