

LM·LMI·LMN

立式多段不銹鋼管道泵浦

VERTICAL MULTISTAGE CENTRIFUGAL IN-LINE PUMPS

泵浦 曝氣系統 廢水處理機械

TAF水泵實驗室認證合格廠
品質管理系統ISO 9001



綠色・安全・永續經營

川源股份有限公司

GSD INDUSTRIAL CO., LTD.

簡介 INTRODUCTION

▶LM系列為直立式多段泵浦，採用IN-LINE (出入口位於同一水平面上)設計，標準配置為法蘭式，便於管路中安裝使用。葉輪、泵腔室與壓力室使用不銹鋼材質，泵軸與電機軸採剛性直接聯結，並配置匣式機械軸封，機種齊全，可依不同使用場所選用與配置。

▶LM、LMI、LMN可分別適用於輸送不同場合或特性的液體，適用範圍廣，分別說明如下：

▶LM/LMI

▶適用無腐蝕性的液體

▶適用於冷水或熱水輸送、循環用水或加壓給水等場合。

LMN

適用於弱酸性的液體

適用於工業製程液體

運用前請先告知本公司擬使用的液體條件，如密度、凝固點、黏性、壓力、溫度及是否有防爆需求等，以利做為評估泵浦適用性之重要參考因素。

▶The LM, LMI and LMN pumps are vertical multistage pumps with in-line design, and flange connection. Stage construction with stainless steel impellers, chambers and pressure casing. pump stub shaft and motor shaft of the IEC-standards motor are directly close coupled. All pumps are equipped with a cartridge type mechanical seal for easy maintenance.

▶LM, LMI and LMN series are respectively utilized to transfer liquid of different places and characteristics. Ranges of usage are wide and respectively stated as follows:

▶LM/LMI

▶Utilized for non-corrosive liquid.

▶Utilized for transportation of cold or hot water, recirculating water, and pressure boosting water supplying.

▶LMN

▶Utilized for acidulous liquid.

▶Utilized for liquid of industrial processing.

▶Before selecting it, please provide the expected conditions of liquid for usage, such as the density, the solidifying point, the stickiness, the pressure, the temperature, and requirements of explosion-proof, which are taken as important reference to estimate applicability of pumps.

用途 APPLICATIONS

▶加壓供水

大樓、旅館、綜合住宅區的加壓供水

加壓供水站與供水點的供水

工業用水的加壓給水

▶輕工業

清洗系統用水、洗車設備

消防系統

加工用水系統

機械工裝 (冷卻系統)

▶加熱，流通系統與空調系統

鍋爐用水、加熱、熱交換

冷凍系統、空調冷卻水系統

溫度控制系統

▶農田水利灌溉

溫室、自動加壓灌溉系統

區域灌溉

▶水處理

軟水處理與去礦化處理

逆滲透系統、蒸餾系統

過濾系統、超過濾系統

▶Pressure boosting and water supply

Pressure boosting in buildings, hotels, residential complexes

Pressure booster stations, supply of water networks

Pressure boosting for industrial water supply

▶Light industry

Washing and cleaning systems

Car washing facilities

Firefighting systems

Process water systems

Machine tools (cooling systems)

▶Heating, ventilation and air-conditioning

Boilers/Induction heating/Heat exchangers

Refrigerators/Cooling towers and systems

Temperature control systems

▶Irrigation and agriculture

Greenhouses/Pressure boosting sprinkler irrigation

Field irrigation

▶Water treatment

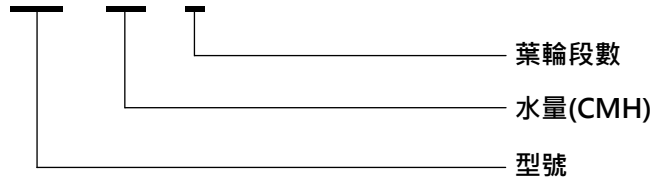
Water softeners and de-mineralization

Reverse Osmosis systems/Distillation systems

Filtration/Ultra-filtration systems

型號說明 TYPE DESCRIPTION

LM - 10 - 5



NUMBER OF STAGES

CAPACITY(CMH)

PUMP TYPE

電機 MOTOR

- ▶鼠籠式設計，22kW以下採鋁製外殼，全封閉風扇冷卻(TEFC)，二極標準電機。

▶防護等級：IP55；絕緣等級：F級

▶電機效率值參考正常高效電機

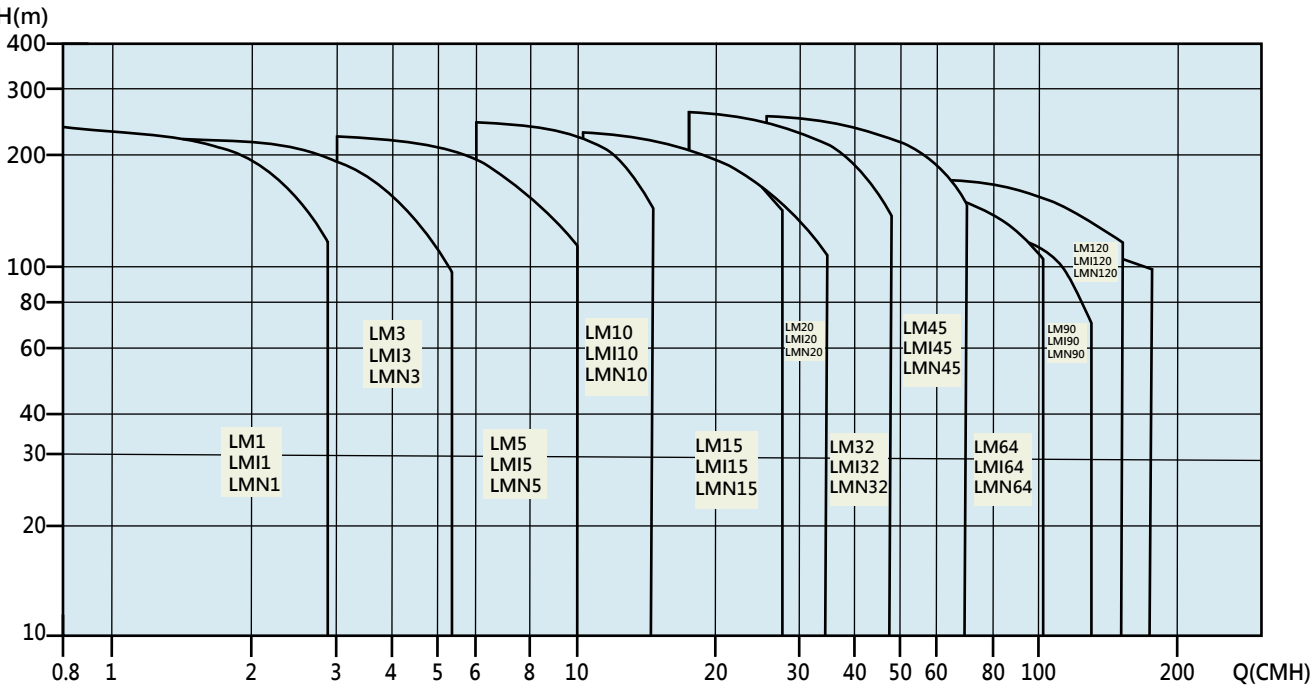
▶環境溫度最高不高於+50度
- ▶Squirrel cage design, alumnum casing in below to 22kW, totally enclosed, fan-cooled, 2-pole standard motor.

▶Enclosure class：IP55,Insulation class：F

▶High efficiency motor.

▶Ambient temperature：Max.+50°C

性能曲線圖 PERFORMANCE CURVE



最大操作與進口壓力 MAXIMUM OPERRRATING & INLET PRESSURE

60Hz

型號	段數	最大操作壓力	段數	最大進口壓力	型號	段數	最大操作壓力	段數	最大進口壓力
1	2~27	25bar	2~25	10bar	3	2~25	25bar	2~15	10bar
			27	15bar				17~25	15bar
5	2~24	25bar	2~9	10bar	10	1~10	16bar	1~5	8bar
			10~24	15bar		12~17	25bar	6~17	10bar
15	1~8	16bar	1~2	8bar	20	1~7	16bar	1	8bar
	9~12	25bar	3~12	10bar		8~10	25bar	2~10	10bar
32	(1-1)~5	16bar	(1-1)~2	4bar	45	(1-1)~4	16bar	(1-1)~1	4bar
	(6-2)~	30bar	(3-2)~6	10bar		(5-2)~7	30bar	(2-2)~3	10bar
	(10-2)		(7-2)~(10-2)	15bar				(4-2)~7	15bar
64	(1-1)~3	16bar	(1-1)	4bar	90	(1-1)~3	16bar	(1-1)~(2-2)	10bar
	(4-2)~	30bar	1~(2-1)	10bar		(4-2)	30bar	(2-1)~	15bar
	(5-2)		2~(5-2)	15bar				(4-2)	
120	1-(5-2)	30bar	1	10bar	150	(1-1)-(4-2)	30bar	(1-1)	
			(2-2)-(3-1)	15bar				1-2	15bar
			3-(5-2)	20bar				(3-2)-(4-2)	20bar

產品資料 PRODUCT DATA

範圍	1	3	5	10	15	20	32	45	64	90	120	150
60Hz												
額定流量(m³/h) Nominal flow	1.2	3.6	6	12	18	24	38	54	77	108	140	180
流量範圍(m³/h) Flow range	0.8-2.9	1.5-5.4	3-10	6-15.5	10.5-28	12.5-35	18-48	26-70	36-102	54-146	60-160	75-180
最大壓力(bar) Max. pressure	23.5	23.3	23	24.5	23.5	20.5	27	26	17.8	15.9	18.5	15.3
液體溫度(°C) Fluid temperature	-15 to +120											
電機功率(Kw) Motor power	0.37-3.0	0.37-4.0	0.55-7.5	0.75-11	1.5-18.5	2.2-18.5	2.2-30	5.5-45	7.5-45	11-45	18.5-75	18.5-75
電機												
主要連接方式3(V/Hz) (可允許的電壓範圍±10%) Mains connection (Permissible voltage tolerance ±10%)	0.37-1.1 kW 220-255/380-440 V 60 Hz 1.5-7.5 kW 220-277/380-480 V 60 Hz From 11 kW 220/380/440 V 60 Hz											
絕緣等級	F											
防護等級	IP 55											
環境溫度	50°C											
管連接方式												
法蘭式 (LM/LMI/LMN適用) (Flange, for LM, LMI&LMN)	DN 25/ DN 32	DN 25/ DN 32	DN 25/ DN 32	DN 40	DN 50	DN 50	DN 65	DN80	DN100	DN100	DN125	DN125
溝槽式-連接 (LMI/LMN適用) (Victaiaic-connections, for LMI&LMN)	R 1 1/4	R 1 1/4	R 1 1/4	R 2	R 2	R 2	N/A	N/A	N/A	N/A	N/A	N/A
機械軸封												
SiC/SiC	Standard											
密封												
EPDM	Standard											
Viton												

*法蘭標準:參考尺寸圖 Please reference the demenisions for standard of flange

軸封說明 MECHANICAL SEAL INTRODUITION

標準卡匣式機封使用碳化矽/碳化矽/三元乙丙橡膠或氟橡膠，根據應用種類不同，兩種材質適合用於密封端與彈性端，卡匣式機封可以在數分鐘內不依靠特殊工具從泵浦中取出，

Standard cartridge type mechanical seal made of silicon carbides/ silicon carbide/ EPDM or Viton.

Base on the type of applications, alternative materials are available for the seal and the elastomers.

The cartridge type mechanical sea; can be replaced in minutes without special tools and without dismantling the pump.



軸封材質 MECHANICAL SEAL MATERIALS

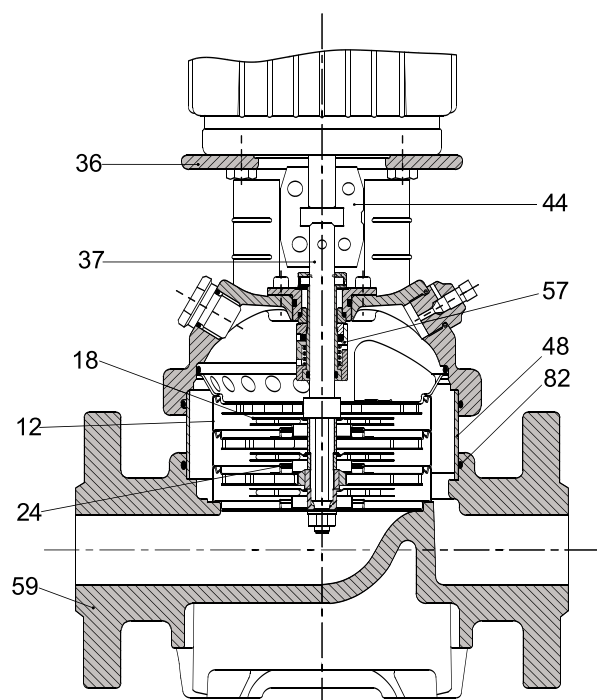
Q : Silicon carbide	E : EPDM
U : Tungsten carbide	V : Viton
B : Carbon	

軸封類型 MECHANICAL SEAL TYPES

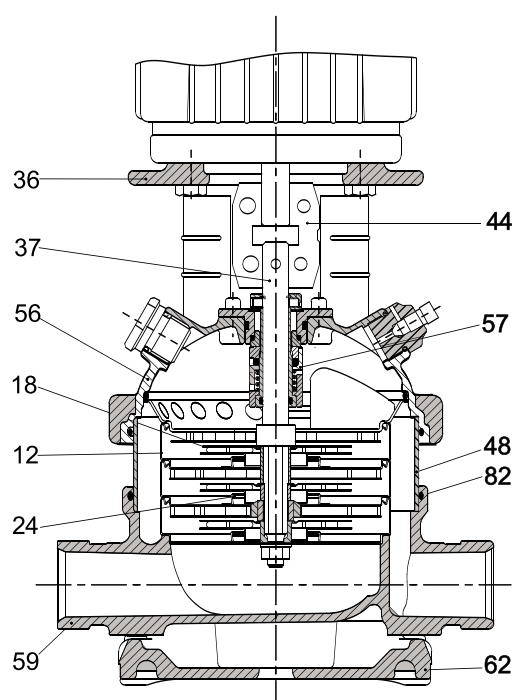
Seal Type	1/3/5/10/15/20 32/45/64/90	120/150	
		0.5-60HP	75-100HP
Mechanical Seals			
S: O-ring seal Cartridge type	●	●	
B: Rubber bellows seal Cartridge type			●
QQ	●	●	●
UU	Optional	Optional	Optional
QB	Optional	Optional	Optional
UB	Optional	Optional	Optional
Seals			
E	●	●	●
V	●	●	●

標準結構圖 CONSTRUCTION

LM 1,3,5,10,15,20



LMI LMN 1,3,5,10,15,20

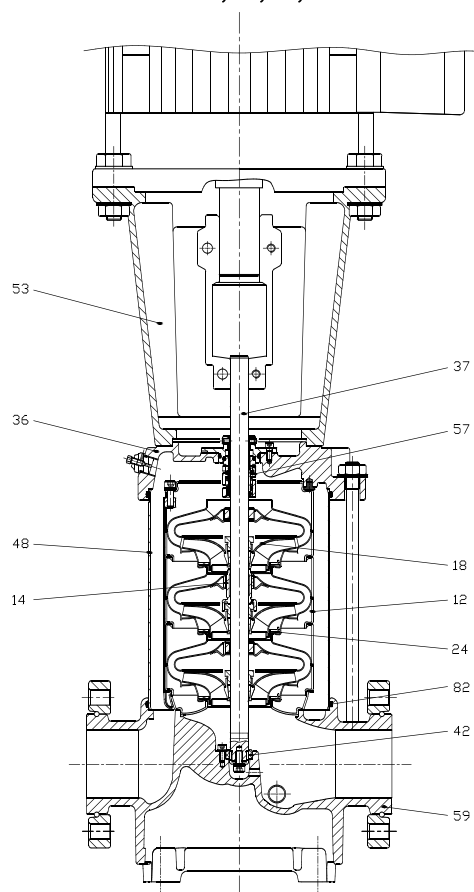


標準材質表 MATERIALS

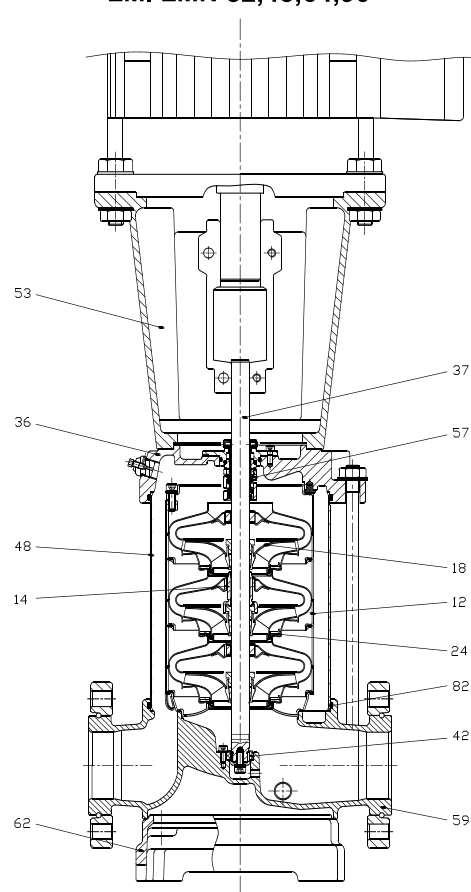
NO.	名稱NAME		材質 MATERIAL	LM 1/3/5/10/15/20		LMI 1/3/5/10/15/20		LMN 1/3/5/10/15/20	
				Standard		Standard		Standard	
				CNS	USA	CNS	USA	CNS	USA
12	內腔室	Chamber	Stainless steel	SUS304	AISI304	SUS304	AISI304	SUS316	AISI316
18	葉輪	Impeller	Stainless steel	SUS304	AISI304	SUS304	AISI304	SUS316	AISI316
24	導水環	Neck ring	PTFE						
36	泵浦架	Pump head	Cast Iron	FC 150	ASTM25B	FCD 500	ASTM 65-45-12	FCD 500	ASTM 65-45-12
37	主軸	Shaft	Stainless steel	SUS431	AISI431	SUS431	AISI431	SUS316	AISI316
44	聯軸器	Coupling	Fe-Cu-C	SMF 4040	MPIF FC0525	SMF 4040	MPIF FC0525	SMF 4040	MPIF FC0525
48	外桶	Outer Sleeve	Stainless steel	SUS304	AISI304	SUS304	AISI304	SUS316	AISI316
56	泵浦上蓋	Pump head cover	Stainless steel	N/A		SUS304	AISI304	SUS316	AISI316
57	機械軸封	Mechanical seal	Cartridge type						
59	泵浦本體	Pump casting	Cast Iron	FC 150	ASTM25B	N/A			
			Stainless steel	N/A		SUS304	AISI304	SUS316	AISI316
62	基礎座	Base plate	Cast Iron	N/A		FC 150	ASTM25B	FC 150	ASTM25B
82	O型環	O-ring for outer sleeve	EPDM						

標準結構圖 CONSTRUCTION

LM 32,45,64,90



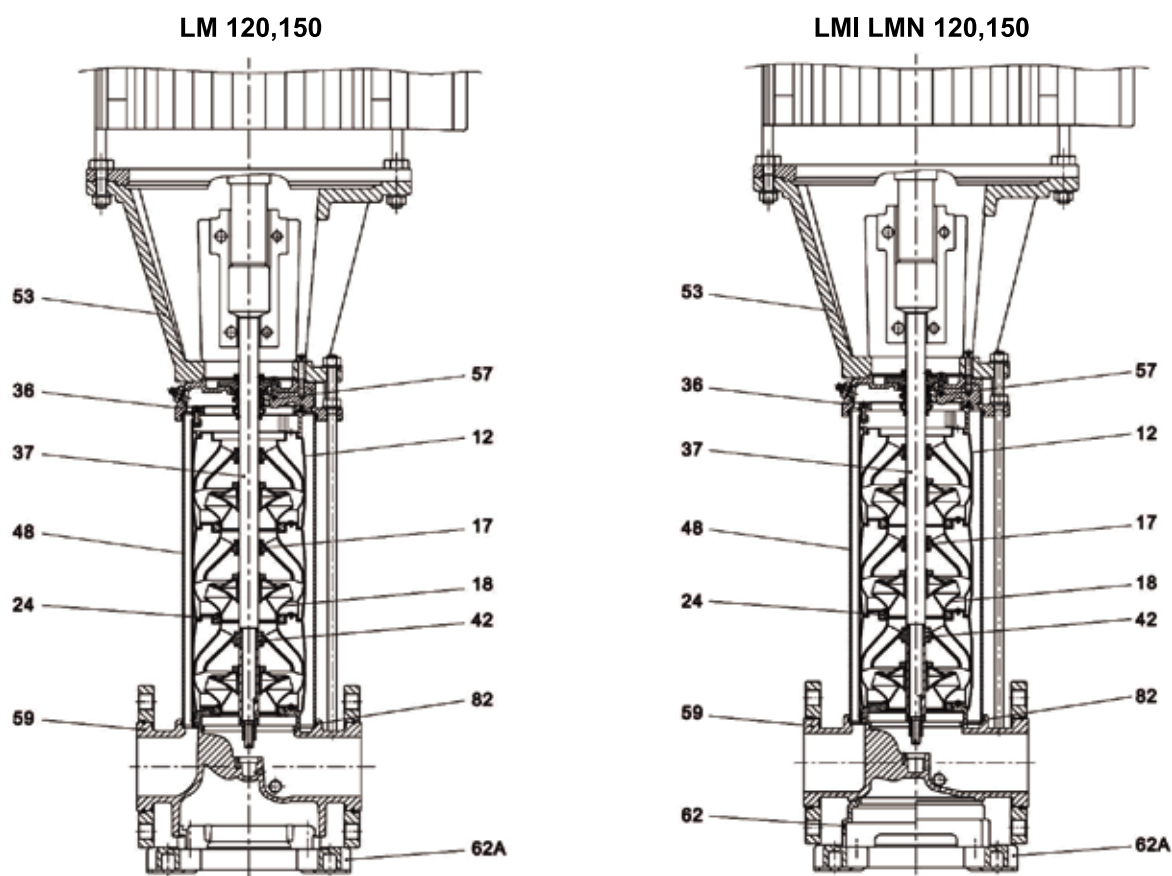
LMI LMN 32,45,64,90



標準材質表 MATERIALS

NO.	名稱NAME		材質 MATERIAL	LM 32/45/64/90		LMI 32/45/64/90		LMN 32/45/64/90	
				Standard		Standard		Standard	
				CNS	USA	CNS	USA	CNS	USA
12	內腔室	Chamber	Stainless steel	SUS304	AISI304	SUS304	AISI304	SUS316	AISI316
14	軸襯	Bearing ring		Bronze				POB+Graphic+PTFE	
18	葉輪	Impeller	Stainless steel	SUS304	AISI304	SUS304	AISI304	SUS316	AISI316
24	導水環	Neck ring	Carbon Fiber +POB+PTFE						
36	泵浦架	Pump head	Cast Iron	FC 150	ASTM25B	N/A			
			Stainless steel	N/A		SUS304	AISI304	SUS316	AISI316
37	主軸	Shaft	Stainless steel	SUS431	AISI431	SUS431	AISI431	SUS316	AISI316
42	底部軸承環	Bottom bearing ring	Tungsten Carbide/Tungsten Carbide						
48	外桶	Outer Sleeve	Stainless steel	SUS304	AISI304	SUS304	AISI304	SUS316	AISI316
53	馬達托架	Motor Bracket	Cast Iron	FC 200	ASTM35B	FC 200	ASTM35B	FC 200	ASTM35B
57	機械軸封	Mechanical seal	Cartridge type						
59	泵浦本體	Pump casting	Cast Iron	FC 150	ASTM25B	N/A			
			Stainless steel	N/A		SUS304	AISI304	SUS316	AISI316
62	基礎座	Base plate	Cast Iron	N/A		FC 200	ASTM35B	FC 200	ASTM35B
82	O型環	O-ring for outer sleeve	EPDM						

標準結構圖 CONSTRUCTION



標準材質表 MATERIALS

NO.	名稱NAME		材質 MATERIAL	LM 120/150		LMI 120/150		LMN 120/150	
				Standard		Standard		Standard	
				CNS	USA	CNS	USA	CNS	USA
12	內腔室	Chamber	Stainless steel	SUS304	AISI304	SUS304	AISI304	SUS316	AISI316
17	軸襯	Bearing ring	PTFE						
18	葉輪	Impeller	Stainless steel	SUS304	AISI304	SUS304	AISI304	SUS316	AISI316
24	導水環	Neck ring	PTFE						
36	泵浦架	Pump head	Cast Iron	FC 200	ASTM35B	N/A			
			Stainless steel	N/A		SUS304	AISI304	SUS316	AISI316
37	主軸	Shaft	Stainless steel	SUS431	AISI431	SUS431	AISI431	SUS316	AISI316
42	底部軸承環	Bottom bearing ring	SIC/SIC						
48	外桶	Outer sleeve	Stainless steel	SUS304	AISI304	SUS304	AISI304	SUS316	AISI316
53	馬達托架 15HP~60HP	Motor bracket 15HP~60HP	Cast Iron	FC 200	ASTM35B	FC 200	ASTM35B	FC 200	ASTM35B
	馬達托架 75HP~100HP	Motor bracket 75HP~100HP	Cast Iron	FCD500	ASTM 65-45-12	FCD500	ASTM 65-45-12	FCD500	ASTM 65-45-12
57	機械軸封	Mechanical seal	Cartridge type						
59	泵浦本體	Pump casting	Cast Iron	FC 200	ASTM35B	N/A			
			Stainless steel	N/A		SUS304	AISI304	SUS316	AISI316
62	基礎座	Base plate	Cast Iron	N/A		FCD500	ASTM 65-45-12	FCD500	ASTM 65-45-12
62A			Cast Iron	FCD500	ASTM 65-45-12	FCD500	ASTM 65-45-12	FCD500	ASTM 65-45-12
82	O型環	O-ring for outer sleeve	EPDM						



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GSD INDUSTRIAL CO., LTD.

Changeable Market 以卓越的行動力
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滿足市場快速變化 Action

LM/LMI/LMN-202105

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