

Sales And Service Points To Be Distributed In China

全国销售、服务网点分布



● 大连帝国屏蔽电泵有限公司

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TEIKOKU CANNED MOTOR PUMP



大连帝国屏蔽电泵有限公司
Dalian Teikoku Canned Motor Pump Co.,Ltd.



Brief introduction of company

公司简介

大连帝国屏蔽电泵有限公司（以下简称“大连帝国”）是日本株式会社帝国电机制作所在中国的独资企业。帝国电机集团，总部位于日本，成立于1939年，是世界上最大的屏蔽电泵生产集团，先后在日本、美国、中国建立三大生产基地，销售网络遍布全球。

大连帝国于1994年9月19日在大连旅顺口区合资成立，成为中国第一家国际性屏蔽电泵专业制造公司，开启了中国屏蔽电泵行业新时代。2001年9月，大连帝国与时俱进由合资转为独资，成为帝国电机集团全资子公司。现投资总额9200万元人民币，在大连三涧堡工业科技园区拥有占地面积4万平方米，充满现代气息的花园式工厂，在中国大陆及台湾地区拥有24个营业所和4个售后维修网点，年销售额超过4亿元。

大连帝国完全采用帝国电机制作所先进的技术、设备、工艺、检测手段和管理方式，现已发展成为中国屏蔽电泵行业的领军企业。产品遍布全国二十九个省、市、自治区，部分产品远销国外。大连帝国的屏蔽电泵产品设计先进，高效节能，具有完全无泄漏的优点，成功地解决了流体输送中的跑、冒、滴、漏的问题，已成为环保工程中不可替代的产品，广泛用于石化、化工、制冷、空调、高铁、航天、核电、船舶等领域。

大连帝国获得了核级屏蔽电泵设计、制造许可证，并向国内民用核电站及中国国内卫星发射基地提供屏蔽电泵产品。为在中国成功运行的包括“神舟”号宇宙飞船的卫星发射做出了贡献。大连帝国于2000年5月获得国内同行业首个ISO9001质量管理体系认证，2001年3月部分产品获得CE认证，2003年12月获得ISO14001环境管理体系认证，2013年8月获得CRCC铁路产品认证，2014年5月获得CCS中国船级社质量管理体系认证。

大连帝国是国家认定的高新技术企业，目前拥有各种专利50余项，每年投入大量资金研发新产品，现已研发成功国内首创的满足API685国际标准的最大功率560kW、2极无水冷电机的超大型屏蔽电泵、超低温高速LNG屏蔽电泵以及屏蔽电泵全项智能监控仪TMG等高新技术产品60余项。大连帝国即将开启屏蔽电泵的全智能化时代，让设备运行更安全，让客户使用更安心！

作为全球最大的屏蔽电泵制造基地，大连帝国将一如既往地以“维护全球生态平衡”为发展理念，以“企业发展与自然资源、生态环境和谐共存”为己任，用全方位的服务保护全球生态环境，做地球的安全卫士！

Dalian Teikoku canned motor pump Co., Ltd. (abbreviated as "Dalian Teikoku" below) is solely funded company in China by Teikoku Electric Mfg. Co., Ltd. Teikoku Group, headquartered in Japan, was founded in 1939. It is the global biggest canned motor pump (abbreviated as CMP below) manufacturing group and established three major production bases in Japan, America and China and distributed sale network throughout the world.

Dalian Teikoku was established by joint venture in Lvshunkou district, Dalian on 19th September, 1994, became the first international CMP manufacturer in China and opened the new era of Chinese CMP industry. Dalian Teikoku advanced with the times to be turned from JV into solely-owned company as a subsidiary company of Teikoku group in September, 2001. It possesses modern garden plant of occupied area of 40000 sqm with current total investment of RMB 92,000,000. It has 24 business offices and 4 after sale service points in China and Taiwan with annual sales of RMB 400 million.

Dalian Teikoku fully adopts the advanced technology, equipments, processes, detection methods and management modes of Teikoku Electric Mfg. Co., Ltd. Now it has developed into the leading enterprise of Chinese CMP industry. Its products are spread around 29 provinces, cities and autonomous regions around the country and sold overseas. Dalian Teikoku products are advanced in design, high-efficiency and energy saving. It has complete leakage-free advantage and successfully solves the problems of running, emission, dripping and leaking during fluid transportation. It has become irreplaceable product in environmental projects and widely used in petrochemical, chemical, refrigeration, air conditioning, high speed rail, aerospace, nuclear power, ship and so on.

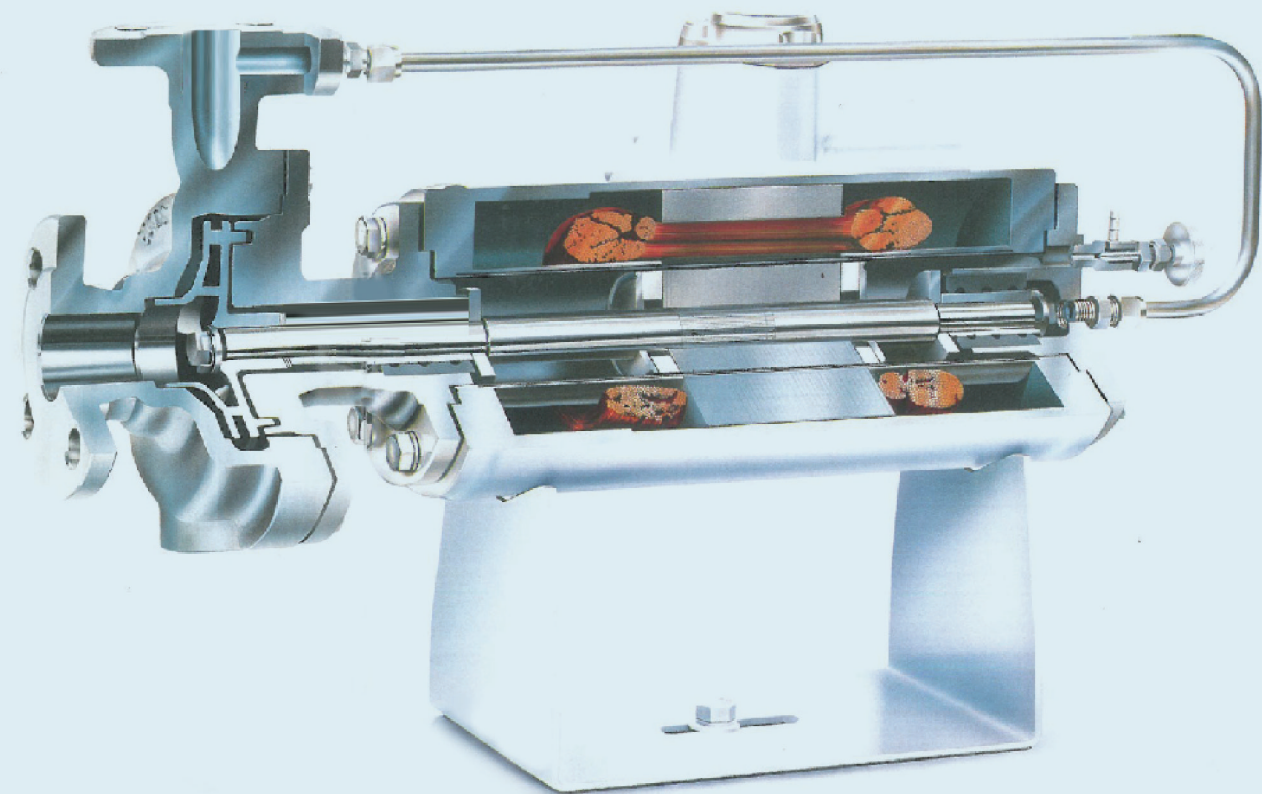
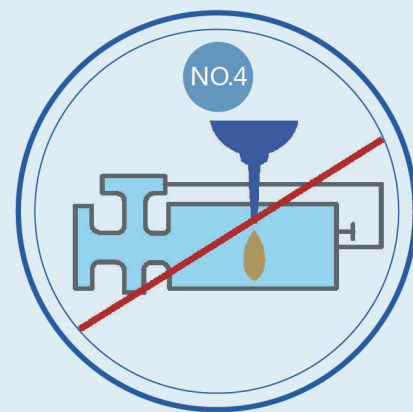
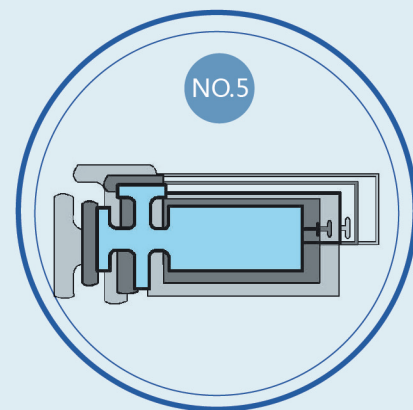
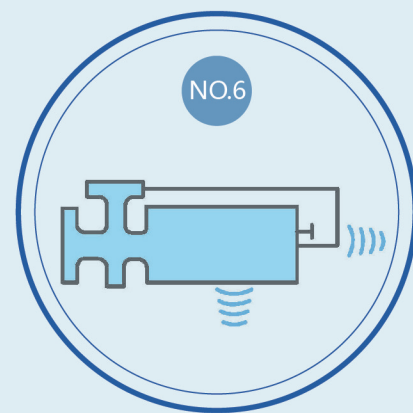
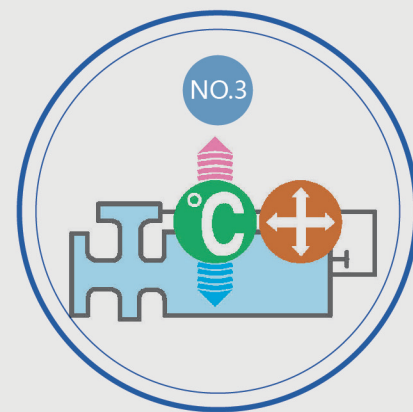
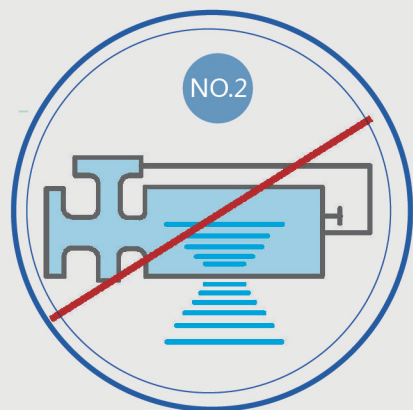
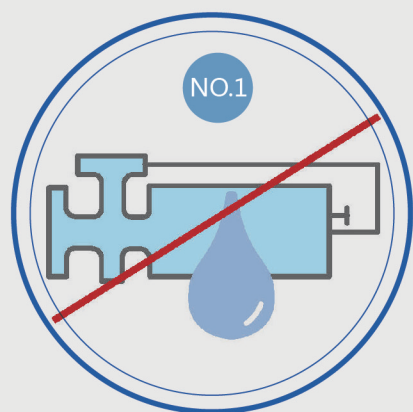
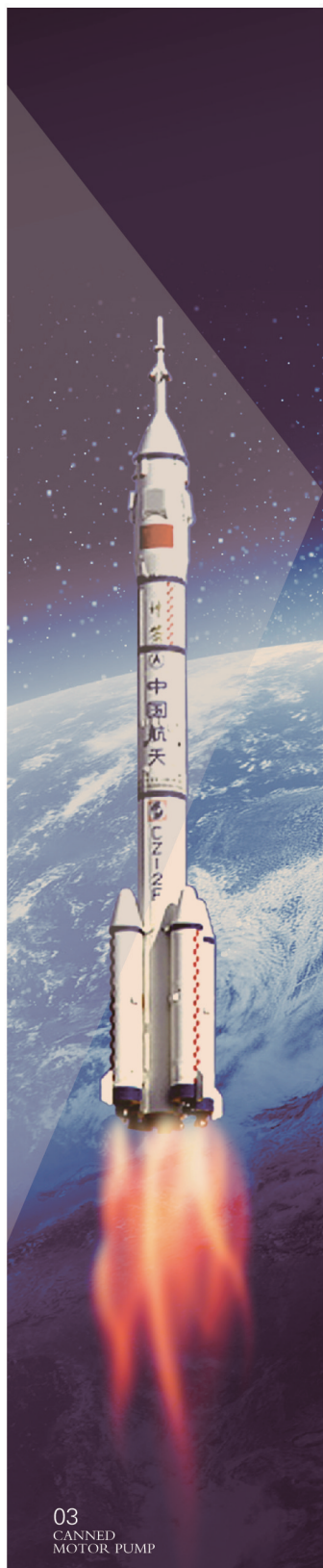
Dalian Teikoku has obtained nuclear class CMP design and manufacturing license and provided the products of CMP to domestic civil nuclear power stations and Chinese domestic satellite launching base and made contribution to successful launching of satellites in China including "Shenzhou" spaceship. Dalian Teikoku obtained the first ISO9001 quality management system certificate in the same industry in May 2000, CE certificate for part of products in March 2001, ISO14001 environment management system certificate in December 2003, CRCC railway products certificate in August 2013 and CCS China classification society quality management system certificate in May 2014.

Dalian Teikoku is national identified high-tech enterprise and currently has more than 50 items of patents and invested lots of capital in new product R&D annually. Now it has successfully developed more than 60 items of high-tech products including domestic initiated super large CMP following API685 standard with Max. Power 560 kW, 2-polar and water cooling free motor, super low temperature high speed LNG CMP and all-item intelligence monitor TMG for CMP. Dalian Teikoku will open the intelligent era of CMP and make equipment running safer and customer more relieved. As the global biggest CMP manufacturing base, Dalian Teikoku will always take "maintain global ecological balance" as development philosophy and "harmonious co-existence of corporate development, natural resource and ecological environment" as its own duty, and protect global ecological environment as the earth defender with all-around service.



屏蔽电泵 的特点

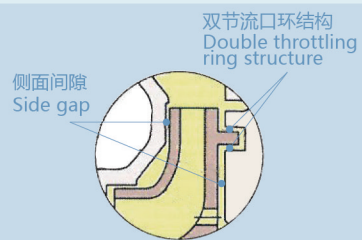
CANNED MOTOR PUMP
FEATURE



- NO.1 由于输送液不会泄漏到外面，因而适用于●对人体有害液体●容易爆炸和可燃性液体●贵重液体●腐蚀性液体。
Because transported liquid cannot be leaked outward, it can be applicable for liquid harmful to human body, explosive liquid, inflammable liquid, expensive liquid and corrosive liquid.
- NO.2 由于不能吸入外部气体，故适用于●真空系统运行●与外部气体接触能变质的液体等。
Because it cannot take in outside gas, it can be applicable for the operation in vacuum system and liquid that spoils at the contact of outside gas.
- NO.3 由于无轴封，故可用于●系统压力较高●高熔点液体●高温液体●低温液体。
Because there is no shaft seal, it can be applicable for high pressure system, high melting point liquid, high temperature liquid and low temperature liquid.
- NO.4 由于不需要润滑油，故●不会污染输送液，并避免了注油麻烦。
Because there is no need for lubricant, it cannot pollute transported liquid and it avoids the trouble of oil filling.
- NO.5 由于电机和泵为同轴一体，故●体积小，重量轻，不占场地●容易拆卸检查。
Because motor and pump body are on the same shaft and integrated as a whole, canned motor pump size has the advantage of small size and light weight and less area occupation and easy dismantlement for examination.
- NO.6 电机因无冷却风扇，故●运转噪音小。
Because motor has no cooling fan, it operates with low noise.

屏蔽电泵 结构优势

CANNED MOTOR PUMP
STRUCTURAL ADVANTAGE



•因为泵的出口设在中间，所以配管的设计、施工比较简便，机械性能、热性能均稳定。

Because pump discharge is set at central, its piping design and construction are convenient, and its mechanical performance and thermal performance are all stable.

•将侧面的间隙控制在必要的最小限度，减少了圆盘摩擦损失。

•通过采用双节流口环结构，在保证不接触所需间隙的同时，减少泄漏量，提高了容积效率。

•改善了流体力学的相关性能，提高了泵的综合效率。

Side gap is controlled within necessary Min. limit, and round disc friction loss is reduced.

Through adoption of double throttling ring structure, leakage amount is reduced and volume efficiency is improved while guaranteeing not contacting with required gap.

Improve the relevant performance of hydromechanics and comprehensive efficiency of pump.

•标准型号安装了诱导轮，即使吸入条件苛刻也能够应对。（可选项）

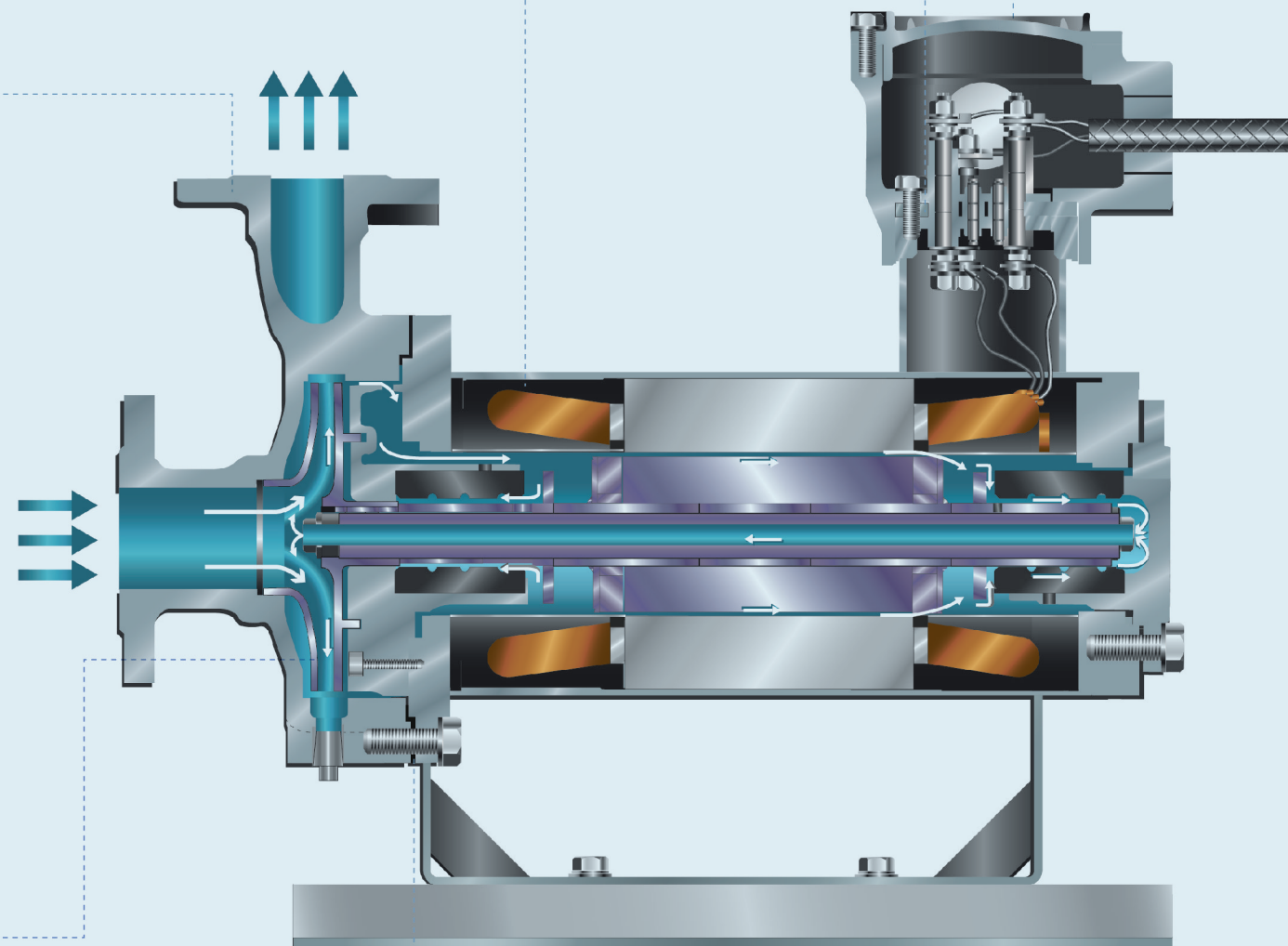
If standard type pump installs inducer, it can deal with harsh suction condition. (Option)

•为了防止发生绝缘下降、生锈等现象，对其进行了加热干燥和封氮处理，可靠性得到大幅提高。

Reliability is raised largely through drying by its heating and nitrogen sealing to prevent of occurrence of insulation drop and rust generation and so on .

•采用新型接线架，可根据用户要求采用不同耐压强度的接线架，并且采用了防雨型接线盒，在室外使用时不会产生浸水现象。

Adopt new type terminal bracket and adopt different pressure intensity terminal bracket according to customers' requirement and adopt rain proof terminal box. There is no occurrence of water soaking when using outdoors.



泵的其他部分

•采用BPO（后开门式）方式，不需要拆卸配管就可以对泵进行拆机检查，维护简便。

Other parts of pump adopt BPO(open-at-back style) form, it has no need to dismantle piping in case of pump disassembly for examination, and maintenance is easy.

•电机经过专用设计软件进行优化设计，性能指标达到业内最高。

Motor realizes optimization design with special design software, and performance indices reach the highest within this industry.



TMG屏蔽电泵全项智能监控仪 Teikoku Multi-function Guarder

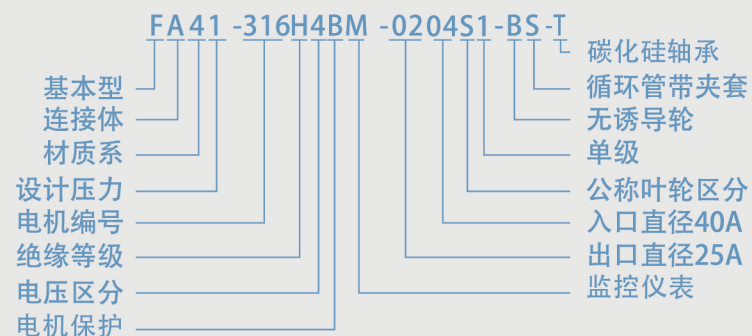
- 1、轴承径向磨损监测及自动保护
Monitoring of radial wear of bearing and automatic protection
- 2、轴承轴向磨损监测及自动保护
Monitoring of axial wear of bearing and automatic protection
- 3、温度监测及自动保护
Temperature monitoring and automatic protection
- 4、压力监测及自动保护
Pressure monitoring and automatic protection
- 5、电机转向监测及自动保护
Rotation direction monitoring of motor and automatic protection
- 6、电机缺相监测及自动保护
Monitoring of motor phase failure and automatic protection
- 7、运行状态记录红外线输出
Recording of running status and output of infrared ray

屏蔽电泵 型式表示

CANNED MOTOR PUMP
MODEL IDENTIFICATION



型式示例 MODEL IDENTIFICATION



1 机型

- F 基本型
- R 逆循环型
- P 内部增压型
- B 高温分离型
- G 自吸型
- K 高融点用
- D 泥浆密封型
- S 注液式气封型泥浆用
- X 封液式气封型泥浆用
- E LPG 地上用
- Z 特殊

1 TYPES

- F BASIC
- R REVERSE CIRCULATION
- P INTERNAL PRESSURIZING
- B HIGH TEMP-INSULATION
- G SELF-PRIMING
- K FULL-STEAM-JACKET
- D SLURRY SEAL
- S GAS-SEALED SLURRY
- X GAS-SEALED SLURRY
- E LPG ON-GROUND
- Z SPECIAL EXECUTION

2 连接体

2 ADAPTER

		有 YES	无 NO
卧式	HORIZONTAL	A	无表示*
立式电机上	VERTICAL MOTOR-TOP	V	W
立式泵上	VERTICAL PUMP-TOP	P	Q

注：连接体后加 "E" 表示立式无支架，
"T" 表示低温泵。

3 主要材质区分

- 2 ZG系
- 4 SUS304系 (OCr19Ni9)
- 5 SUS304L系 (OCr19Ni11)
- 6 SUS316系 (OCr17Ni12Mo2)
- 7 SUS316L系 (OCr17Ni14Mo2)
- 9 特殊

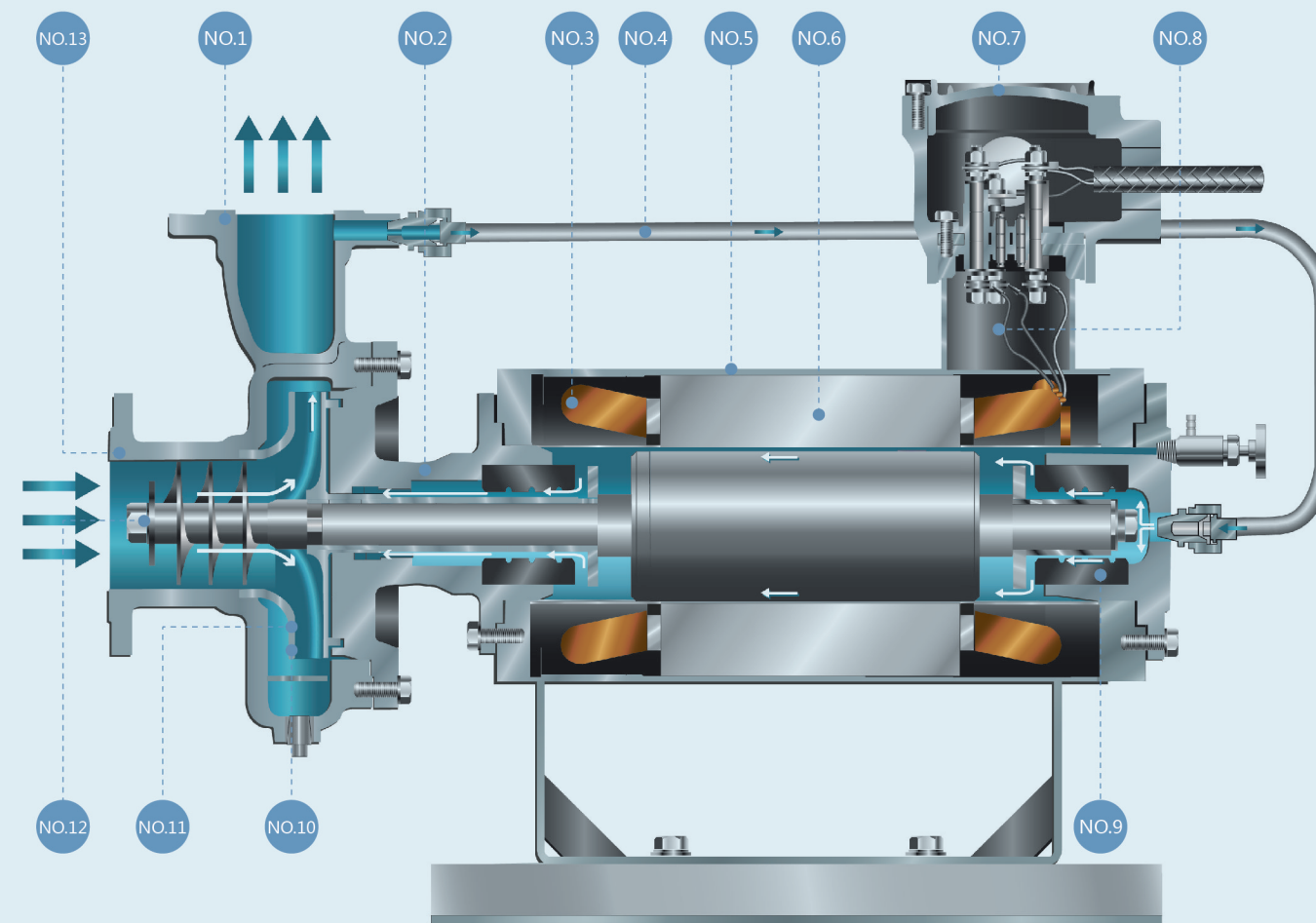
3 MATERIALS

- 2 ZG230-450
- 4 SS#304
- 5 SS#304L
- 6 SS#316
- 7 SS#316L
- 9 SPECIAL

4 设计压力区分

- 1 10~90kgf/cm² (1~9MPa)

以上
or over



NO.1 出口直径: 15A-450A discharge diameter 15A-450A

NO.2 连接体: adapter

NO.3 绝缘等级: H级/C级/特C级等 insulation class H class/C class/super C class and so on

NO.4 循环管: 标准管/带夹套等 standard circulation pipe/circulation pipe with jacket and so on

NO.5 电机编号: 010-2910: motor frame number 010-2910

NO.6 电压区分: 220V/380V等 voltage division 220V/380V and so on

NO.7 监控仪表 monitoring meter

NO.8 电机保护装置 motor ingress protection device

NO.9 轴承: 石墨/超硬/碳化硅 graphite bearing/anti-friction bearing/SiC bearing

NO.10 公称叶轮区分: 80mm-540mm nominal impeller 80mm-540mm

NO.11 单级 single stage

NO.12 诱导轮 inducer

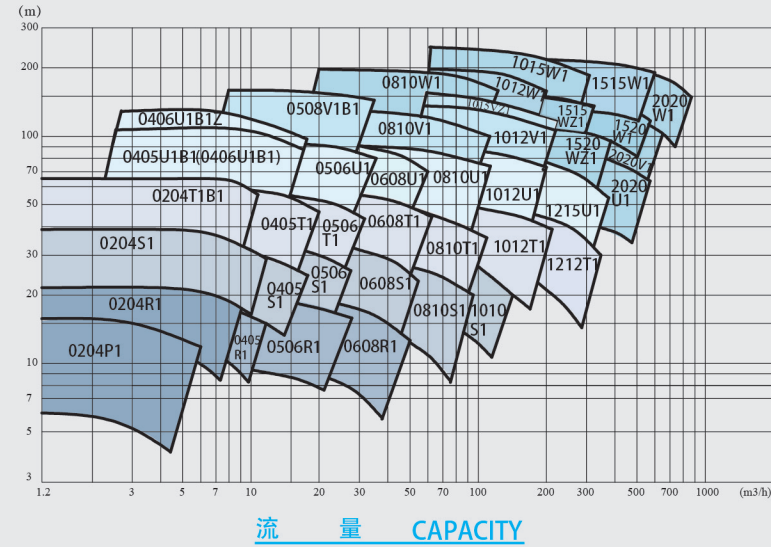
NO.13 入口直径: 25A-450A suction diameter 25A-450A

屏蔽电泵 型谱图

CANNED MOTOR PUMP
PERFORMANCE CURVE

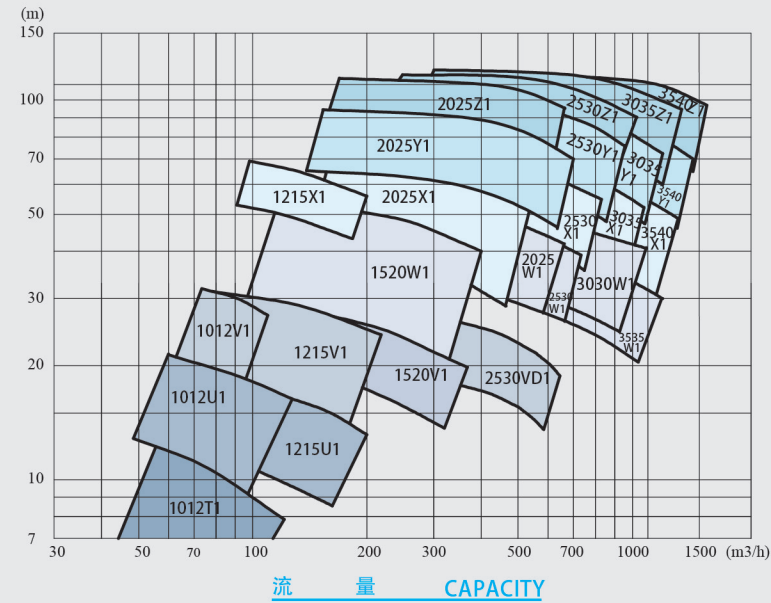
全扬程
TOTAL HEAD

单级泵型谱图 (2极电机) —2900rpm 50Hz
single stage pump performance curve(2 pole motor)



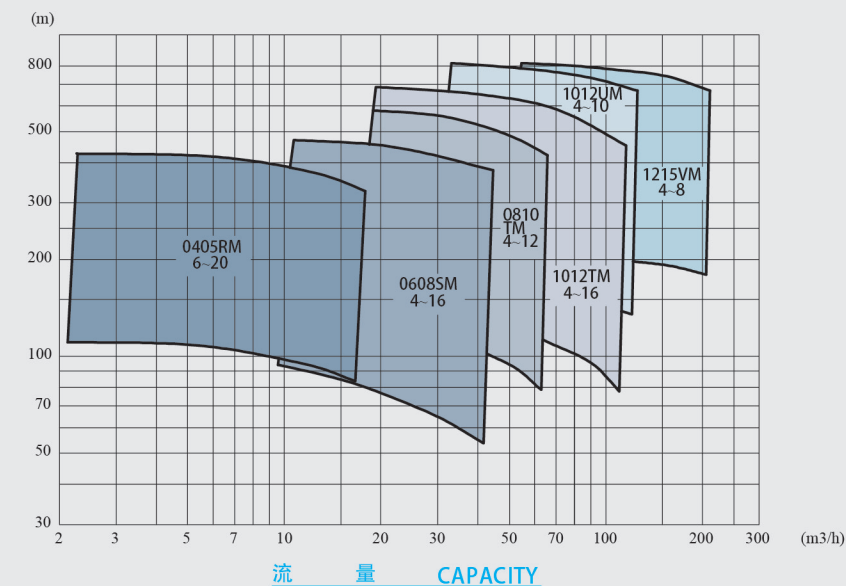
单级泵型谱图 (4极电机) —1450rpm 50Hz
single stage pump performance curve(4 pole motor)

全扬程
TOTAL HEAD



多级泵型谱图 (2极电机) —2900rpm 50Hz
multi-stage pump performance curve (2 pole motor)

全扬程
TOTAL HEAD



介质分类

MEDIUM CLASSIFICATION

酸

盐酸、硫酸、硝酸、磷酸、氯酸、氢氟酸、氢氰酸、氢碘酸、氢溴酸、铬酸、醋酸、脂肪酸、二氯乙酸、二邻苯二甲酸、马来酸、丙酸、甘碳四烯酸、甲酸、乳酸、氟酸、硬脂酸、酒石酸、硼酸、硝基苯酸、维生素C、葡萄糖酸、柠檬酸、丙烯酸、冰醋酸、二氧化硫
Hydrochloric acid, Sulphuric acid, Nitric acid, Phosphoric acid, Chloric acid, Hydrofluoric acid, Hydrocyanic acid, Hydriodic acid, Hydrobromic acid, Chromic acid, Ethylic acid, Aliphatic acid, Dichloroacetic acid, Phthalic acid, Maleic acid, Propionic acid, Arachidonic acid, Formic acid, Fluoric acid, Lactic acid, Stearic acid, Dihydroxysuccinic acid, Boric acid, Nitrobenzene acid, Vitamin C, Gluconic acid, Citric acid, Acrylic acid, Acetic acid, Sulfur dioxide

碱

氢氧化镁、氢氧化钾、氢氧化锰、氢氧化铜、氢氧化铝、氢氧化镧、苛性钠
Magnesium hydrate, Potassium hydroxide, Manganese hydroxide, Cupric hydroxide, Aluminium hydroxide, Hydroxide lanthanum, Caustic soda

盐

明矾、食盐、纯碱、小苏打、硫酸钾、葡萄糖酸钙、钠盐
Alums, Common salt, Soda ash, Bicarb, Glazier's salt, Calcium gluconate, Sodium salt

酯

牛油、油脂、亚硝酸二甲酯、乳酸乙酯、邻苯二甲酸、二丁酯、聚丙烯酯、氯甲酸甲酯
Beef tallow, Grease, Nitrous acid dimethyl, Ethyl lactate, Phthalic acid, Dibutyl phthalate, Polypropionate, Methyl chloroformate

酚

三氯苯酚、甲氨基苯酚、苯酚、甲氨基苯酚、甲酚、叔丁基苯酚、双酚A
Trichlorophenol, P-methylaminophenol, Phenol, P-methylaminophenol, Methyl hydroxybenzene, Tert-butyl phenol, Bisphenol A

烃

甲烷、丙烷、氟利昂、甲苯、二甲苯、烯烃、二烯烃、环氧乙烷、环氧氯丙烷、异丁烯、硝基苯、氯苯
Methane, Propane, Freon, Methylbenzene, Dimethylbenzen, Alkene, Alkadiene, Epoxyethane, Epichlorohydrin, Isobutene, Nitrobenzene, Chlorobenzene

醇

甲醇、乙醇、乙二醇、丁醇、二甘醇、三甘醇、丙醇、丙醇、苯甲醇
Carbinol, Ethanol, Ethylene glycol, Butanol, Diethylene glycol, Triethylene glycol, Allyl alcohol, Propanol ethyl carbinol, Benzil alcohol

醚

二甲醚、醇醚、异丙醚、甲基叔丁基醚、二甲基硫醚、苯甲醚、乙二醇丁醚
Dimethyl ether, Alcohol ether, Isopropyl ether, Methyl tert-butyl ether, Dimethyl sulfide, Anisole, Ethylene glycol butyl ether

醛

福尔马林、甲缩醛、乙醛、正丁醛、丙烯醛、异戊醛
Formaldehyde, Methylal, Acetaldehyde, butyraldehyde, Acrolein, Methyl butanal

油

植物油、煤油、大豆油、变压器油、矿物油、洗油、轻质油、硅油、导热油
Vegetable oil, Kerosene, Soybean oil, Transformer oil, Mineral oil, Absorber oil, Light oil, Silicone oil, Thermal conductive oil

易气化

液化气 (LPG)、液态二氧化碳、饱和烃、液氯、二甲醚
Liquefied petroleum gas, Liquid carbon dioxide, Saturated hydrocarbon, Liquefied chlorine, Dimethyl ether

易凝固

蜡、工业萘、萘油、呋喃、苯酚、多胺、硝酸熔盐、酚油、树脂、脂肪胺、液态硫磺、脲
Wax, crude naphthalene, Naphthalene oil, Piperazine, Phthalic anhydride, Polyamine, Molten nitrate salt, Phenol oil, Resin, Aliphatic amine, Liquid sulfur, Oxime

水

纯净水、污水、废水、采暖水、冷凝水、去离子水
Pure water, Sewage water, Waste water, Heating water, Condensate water, Deionized water

低温

冷冻液、冷剂、液氨、乙烯、LNG
Refrigerating fluid, Cryogen, Liquid ammonia, Ethylene, Natural gas liquid

其他

信纳水、水银、挥发油、胶乳、吡啶、胂、无水二氧化硫、无水氨、油漆、氯硅烷、三氯硅烷、光气、己内酰胺
Thinner, Mercury, Volatile oil, Cream of latex, Pyridine, Hydrazine, Anhydrous sulfur dioxide, Anhydrous ammonia, Paint, Chlorosilane, Trichlorosilane, Phosgene, Caprolactam

屏蔽电泵 实用案例

CANNED MOTOR PUMP
PRACTICAL CASE



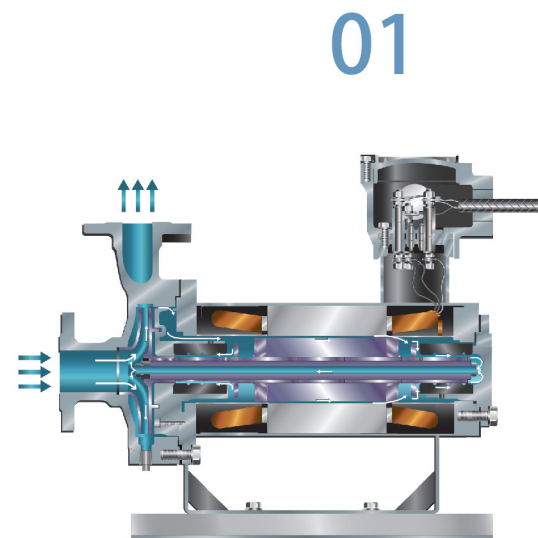
大连帝国屏蔽电泵产品广泛应用于石化、化工、制冷、空调、高铁、航天、核电、船舶等国民经济重要领域，为客户事业成功提供了可靠保障。

The products of canned motor pumps of Dalian Teikoku are widely applied in the important fields of national economy including petrochemical, chemical, refrigeration, air conditioning, high speed rail, aerospace, nuclear power and ship, and provide reliable guarantee for the success of customers' career.



屏蔽电泵 标准结构

CANNED MOTOR PUMP
BASIC VERSIONS



基本型 (F型) BASIC TYPE (F-TYPE)

用途·特长 USE-ADVANTAGES

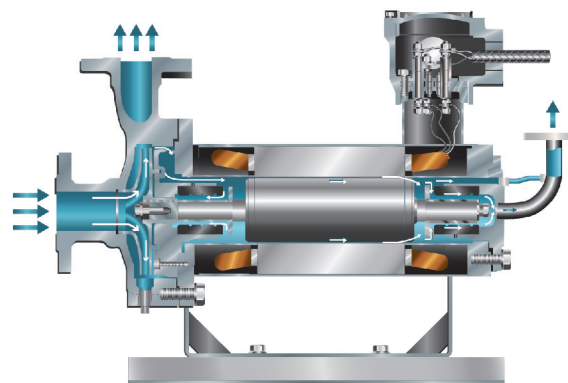
有机·无机化学品、真空系列、高压系列、其它核用放射性液体等。

Organic & inorganic chemicals, vacuum series, high pressure series, other nuclear radioactive liquid and so on.

参数 PARAMETER

流量	CAPACITY	最高1000m ³ /h	MAX
全扬程	TOTAL-HEAD	最高200m	MAX
电机功率	OUTPUT	最高560kW	MAX

02



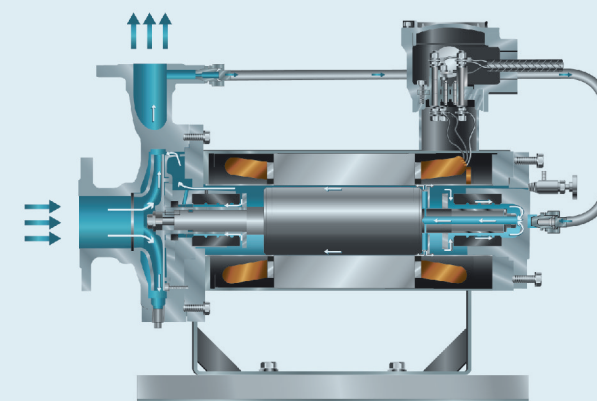
逆循环型 (R型) REVERSE CIRCULATION TYPE (R-TYPE)

用途·特长 USE-ADVANTAGES

氟利昂、液氨、液体二氧化碳等低沸点液体。
Low boiling point liquid including Freon,
liquid ammonia, liquid carbon dioxide
and so on.

参数 PARAMETER

流量	CAPACITY	最高1000m ³ /h	MAX
全扬程	TOTAL-HEAD	最高200m	MAX
电机功率	OUTPUT	最高560kW	MAX



03

内部增压型 (P型) INTERNAL PRESSURIZING TYPE (P-TYPE)

用途·特长 USE-ADVANTAGES

适合输送低沸物、高温甲醇、氯硅烷等比较容易气化的液体。
Applicable for transporting easily vaporized liquid
including low boiling point medium, high temperature
methanol, chlorosilane and so on.

参数 PARAMETER

流量	CAPACITY	最高1000m ³ /h	MAX
全扬程	TOTAL-HEAD	最高200m	MAX
电机功率	OUTPUT	最高560kW	MAX

04

高温分离型 (B型) HIGH-TEMPERATURE-INSUL ATION TYPE (B-TYPE)

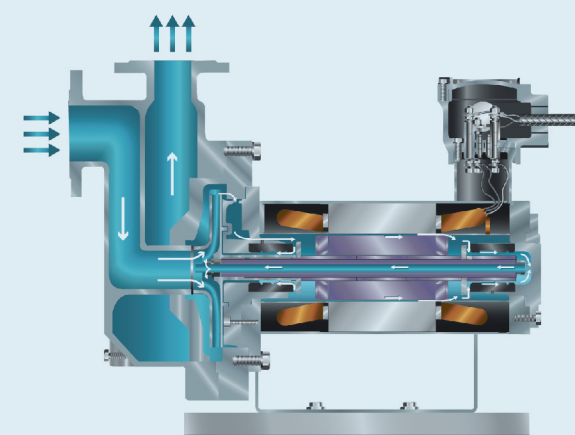
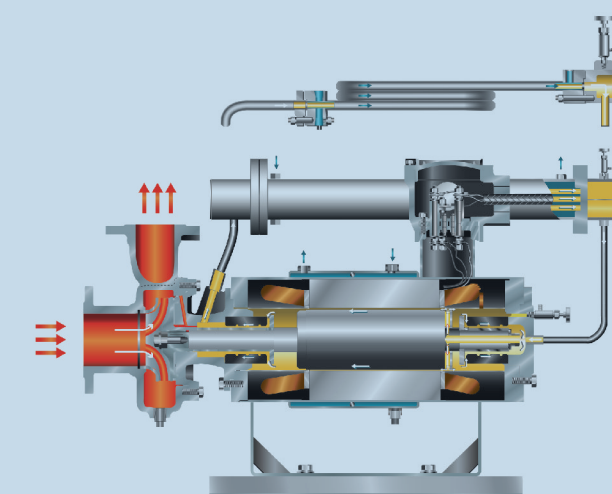
用途·特长 USE-ADVANTAGES

热油、热水、其它高温液体。

Hot oil, hot water and other high temperature liquid.

参数 PARAMETER

流量	CAPACITY	最高1000m ³ /h	MAX
全扬程	TOTAL-HEAD	最高200m	MAX
电机功率	OUTPUT	最高560kW	MAX
温度	TEMP	最高450℃	MAX



05

自吸型 (G型) SELF-PRIMING TYPE (G-TYPE)

用途·特长 USE-ADVANTAGES

适用于从地下容器中抽提非易气化的有机·无机化学品。
Applicable for non-volatile organic & inorganic chemical
extracted from underground vessel.

参数 PARAMETER

流量	CAPACITY	最高100m ³ /h	MAX
全扬程	TOTAL-HEAD	最高100m	MAX
电机功率	OUTPUT	最高45kW	MAX

屏蔽电泵 标准结构

CANNED MOTOR PUMP
BASIC VERSIONS

高熔点液用内部循环型 (K-S型) FULL-STEAM-JACKET TYPE (K-S TYPE)

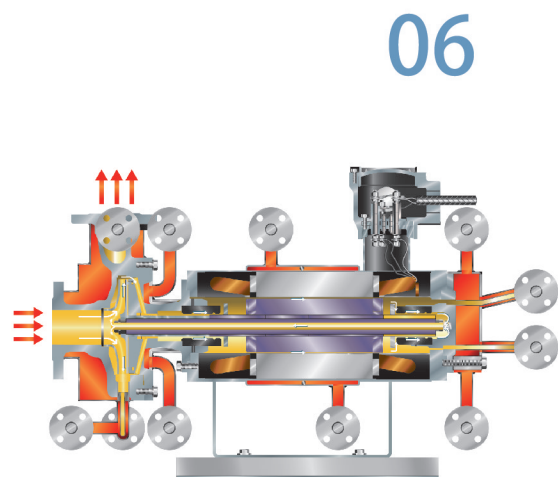
用途·特长 USE-ADVANTAGES

无水邻苯二甲酸、无水马来酸、石炭酸、脂肪酸、萘等高熔点液体。

High melting point liquid including phthalic anhydride, maleic acid, carbolic acid, fatty acid, naphthalene and so on.

参数 PARAMETER

流量	CAPACITY	最高380m ³ /h	MAX
全扬程	TOTAL-HEAD	最高160m	MAX
电机功率	OUTPUT	最高110kW	MAX



06

07

高温液用超耐热型 (F-X型) Super Heat-resistant temperature type used for handling fluids with high temperature (F-X-type)

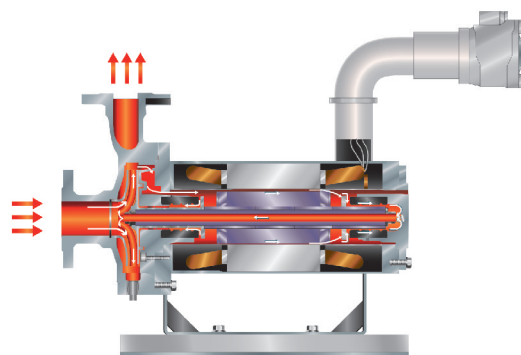
用途·特长 USE-ADVANTAGES

热油、热水、其它高温液体、无水冷却。

Hot oil, hot water and other high temperature liquid and no water cooling.

参数 PARAMETER

流量	CAPACITY	最高380m ³ /h	MAX
全扬程	TOTAL-HEAD	最高160m	MAX
电机功率	OUTPUT	最高90kW	MAX
温度	TEMP	最高380°C	MAX



08

泥浆密封型 (D型) SLURRY SEAL TYPE (D-TYPE)

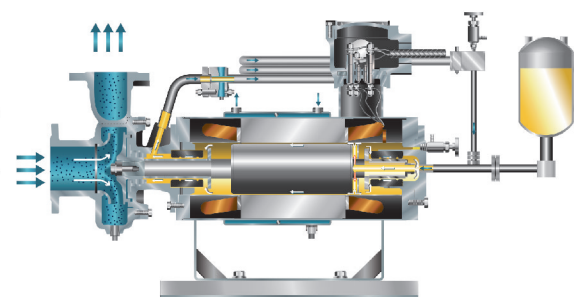
用途·特长 USE-ADVANTAGES

催化剂、含少量小型结晶颗粒等化学处理液。

Catalyst, chemical treating liquid containing little small crystal particles.

参数 PARAMETER

流量	CAPACITY	最高600m ³ /h	MAX
全扬程	TOTAL-HEAD	最高180m	MAX
电机功率	OUTPUT	最高220kW	MAX



09

泥浆用气封型 (X、S型) GAS-SEALED TYPE (X,S-TYPE)

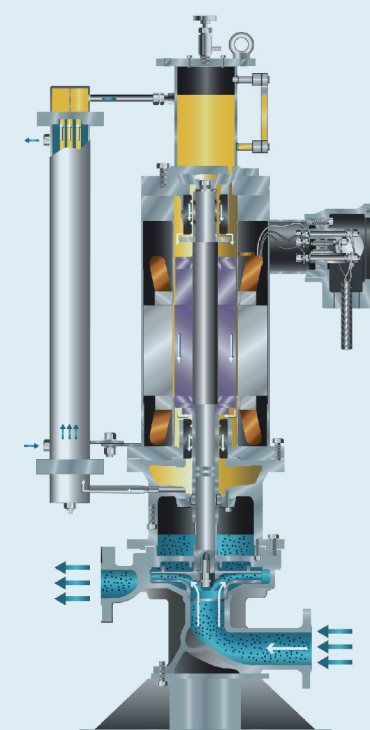
用途·特长 USE-ADVANTAGES

适用于输送混入大量泥浆液体，还有外部注液的S型。

This type of pump can handle fluid with much slurry. S-type with external flushing is available.

参数 PARAMETER

流量	CAPACITY	最高200m ³ /h	MAX
全扬程	TOTAL-HEAD	最高85m	MAX
电机功率	OUTPUT	最高120kW	MAX
泥浆浓度	SLURRY DENSITY	最高30wt%	MAX



10

多级型 (F-M型/R-M型) MULTI-STAGE TYPE (F-M TYPE/R-M TYPE)

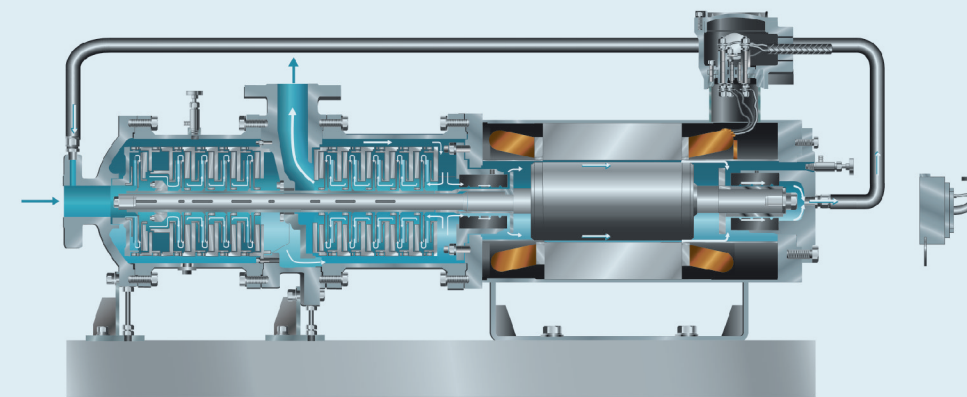
用途·特长 USE-ADVANTAGES

纯水、热水、有机·无机化学品；真空系列、高压系列、其他核用放射性液体等。

Pure water, hot water, organic & inorganic chemicals; vacuum series, high pressure series, other nuclear radioactive liquid and so on.

参数 PARAMETER

流量	CAPACITY	最高240m ³ /h	MAX
全扬程	TOTAL-HEAD	最高780m	MAX
电机功率	OUTPUT	最高220kW	MAX



屏蔽电泵 电机规格

CANNED MOTOR PUMP
MOTOR SPECIFICATION



标准屏蔽电机规格

STANDARD CANNED MOTOR SPECIFICATIONS

2极 • 2- POLE 380V 50Hz

电机编号 MOTOR FRAME NO.	额定功率 RATED OUTPUT (kW)	额定电压 RATED VOLTAGE (V)	50Hz	
			额定电流 I _e (A)	起动电流 I _q (A)
119	0.75	380	2.5	11
	1.1	380	3.2	11
215	1.1	380	3.5	16
	1.5	380	4	16
216	1.1	380	4.4	24
	1.5	380	5	24
	2.2	380	5.8	24
217	3	380	8	27
315	3.7	380	9.5	37
316	3.7	380	11	56
	5.5	380	14	56
317	6.6	380	17	58
415	7.5	380	17	71
416	7.5	380	18	101
	11	380	24	101
417	15	380	35	130
516	15	380	35	151
	18.5	380	41	151
518	22	380	50	200
	26	380	58	200
615	30	380	64	225
616	30	380	64	251
	37	380	78	251
617	45	380	95	315
715	55	380	113	422
716	55	380	116	656
	65	380	132	656
	75	380	152	656
717	90	380	184	873
	110	380	221	873
815	120	380	273	884
	132	380	297	884
816	132	380	270	970
	145	380	330	970
	160	380	357	970
817	160	380	387	1670
	180	380	408	1670
	200	380	430	1670
	220	380	470	1670

其它电压、频率可按客户现场要求订制

Other voltages and frequency can be customized according to customers' onsite requirements

4极 • 4- POLE 380V 50Hz

电机编号 MOTOR FRAME NO.	额定功率 RATED OUTPUT (kW)	额定电压 RATED VOLTAGE (V)	50Hz	
			额定电流 I _e (A)	起动电流 I _q (A)
326	1.5	380	8.4	41
	2.2	380	9	41
	3.7	380	11	41
426	5.5	380	17	75
	7.5	380	20	75
526	11	380	29	124
	15	380	37	124
626	18.5	380	45	190
	22	380	51	190
726	30	380	75	297
	37	380	92	297
728	45	380	110	490
	55	380	130	490
825	65	380	147	475
	75	380	173	475
826	75	380	182	610
	90	380	216	610
829	110	380	270	1250
	132	380	310	1250
	145	380	345	1187
2922	180	380	380	1740
	200	380	420	1740
	220	380	450	1740
2925	260	380	540	2235
	280	380	580	2235

大型泵屏蔽电机规格

CANNED MOTOR SPECIFICATION OF HEAVY DUTY PUMP

2极 • 2- POLE 380V 50Hz

电机编号 MOTOR FRAME NO.	额定功率 RATED OUTPUT (kW)	额定电压 RATED VOLTAGE (V)	50Hz	
			额定电流 I _e (A)	起动电流 I _q (A)
2912	180	380	420	2426
	220	380	510	2426
	250	380	570	2426
2917	280	380	610	3893
	315	380	690	3893
	330	380	720	3893
2919	370	380	840	4698
	400	380	910	4698
	430	380	970	4698

备注：电机无水冷却设计

Remark: Motors adopt water cooling free design.

屏蔽电泵 标准材质

CANNED MOTOR PUMP
STANDARD MATERIAL



名称 NAME	材质系 MATERIALS	SUS304系 (4)	SUS316系 (6)
泵体 CASING		SCS13	SCS14
连接体 前轴承座 ADAPTER F.B.HOUSING		SCS13	SCS14
叶轮 IMPELLER		SCS13	SCS14
后轴承座 R.B.HOUSING		SCS13	SCS14
电机法兰 MOTOR FLANGE		SS304	SS316
定子屏蔽套 STATOR CAN	210、310以下 OR LOWER SIZE	SUS316L 316LSS	SUS316L 316LSS
	410 510	SUS316L 316LSS	SUS316L 316LSS
	610	HASTELLOYC	HASTELLOYC
	620、710以上 OR LARGER SIZE	HASTELLOYC	HASTELLOYC
定子屏蔽套 STATOR CAN B型、X、Y电机	520、610以下 OR LOWER SIZE	HASTELLOYC	HASTELLOYC
	620、710以上 OR LARGER SIZE	HASTELLOYC	HASTELLOYC
转子屏蔽套 ROTOR CAN	210、310以下 OR LOWER SIZE	SUS316L	SUS316L
	320、410以上 OR LARGER SIZE	SUS316L	SUS316L
轴承 BEARING		石墨浸渍树脂、四氟、SiC、超硬 CARBON GRAPHITE, PTFE, SiC, Anti-Friction	
轴套、推力盘 SHAFT SLEEVE THRUST COLLAR		SUS304+司太立合金、SiC、超硬 SUS304+Stellite, SiC, SUS304+WC	SUS316+司太立合金、SiC、超硬 SUS316+Stellite, SiC, SUS316+WC
其他接液部 OTHER WETTED PARTS		SS#304	SS#316L或SS#316
非接液部 NON - WETTED PARTS		HT250、Q235等 CAST IRON etc	
特殊介质用材质 SPECIAL MEDIUM USED MATERIAL		哈C、哈B、316Ti等 hastelloy C, hastelloy B, 316Ti etc	

SCS13/14采用SS#304/316系铸件，SUS304/316采用SS#304/316系型材

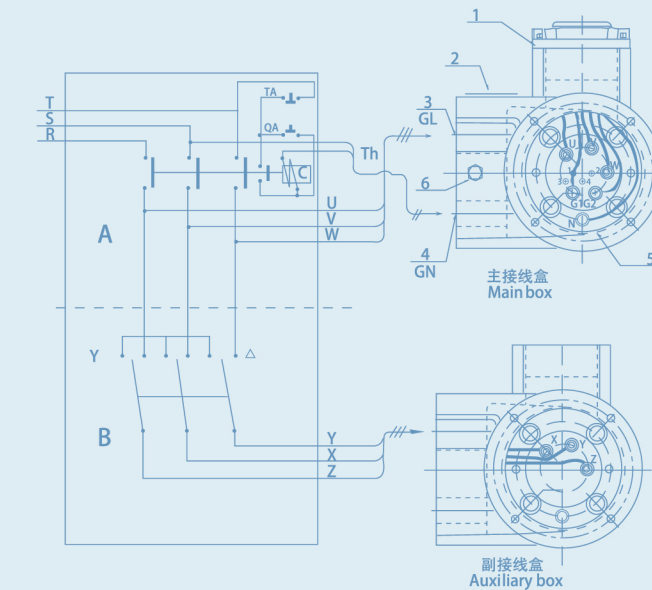
SCS 13/14 adopts SS#304/316 series of casting piece, and SUS304/316 adopts SS#304/316 series of profile material.

其他材质，可按客户现场要求订制

Other materials can be customized according to customers' onsite requirement.

屏蔽电泵常用电气接线 CANNED MOTOR PUMP NORMAL ELECTRIC CONNECTION

机座号	尺寸	L	N	外出线口尺寸	外热保护侧尺寸	外出线电缆外径 (mm)	外热保护电缆 外径(mm)
110~416	1"	3/4"	喇叭口	喇叭口	12~20	8~14	
417~516	1 1/2"	3/4"	喇叭口	喇叭口	17~30	8~14	
518~610	2"	1"	喇叭口	喇叭口	25~38	12~20	
716 (单接线盒)	2"	3/4"	喇叭口	喇叭口	25~38	8~14	
717 (单接线盒)	3"	3/4"	喇叭口	喇叭口	33~56	8~14	
716、717 (双接线盒)	2"	1"	喇叭口	喇叭口	25~38	12~20	
810、820	3"	3/4"	喇叭口	喇叭口	33~56	8~14	



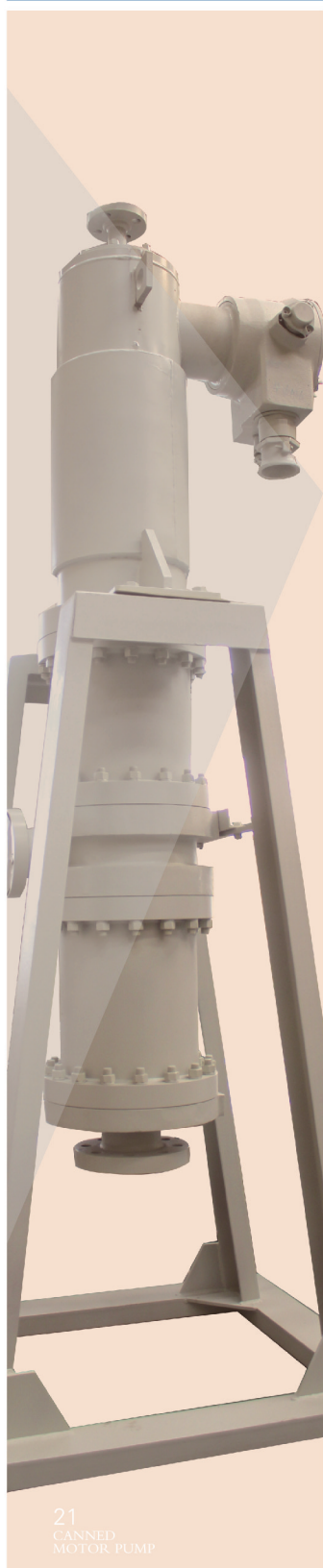
注： R.S.T 接空气开关；
To breaker.
Note: A. 全压启动；
Full-voltage starting.
A+B. 星-角启动；
Star-delta starting.
QA. 启动按钮；
Start button.
TA. 停止按钮；
Stop button.
C. 接触器；
Contactor.

Th. 接热保护器
Connect with bimetallic thermostat
110-416 接 1.2
417-516 接 1.3
417-516 connect with 1.3
518及以上接 1.4

1. TMG表 (或TRG表)
TMG meter (or TRG meter)
2. 铭牌；
Name plate.
3. 电源侧；
Source side.
4. 保护侧；
Protection side.
5. 内接地端子；
Internal earth terminal.
6. 外接地端子；
External earth terminal.

屏蔽电泵 监控装置

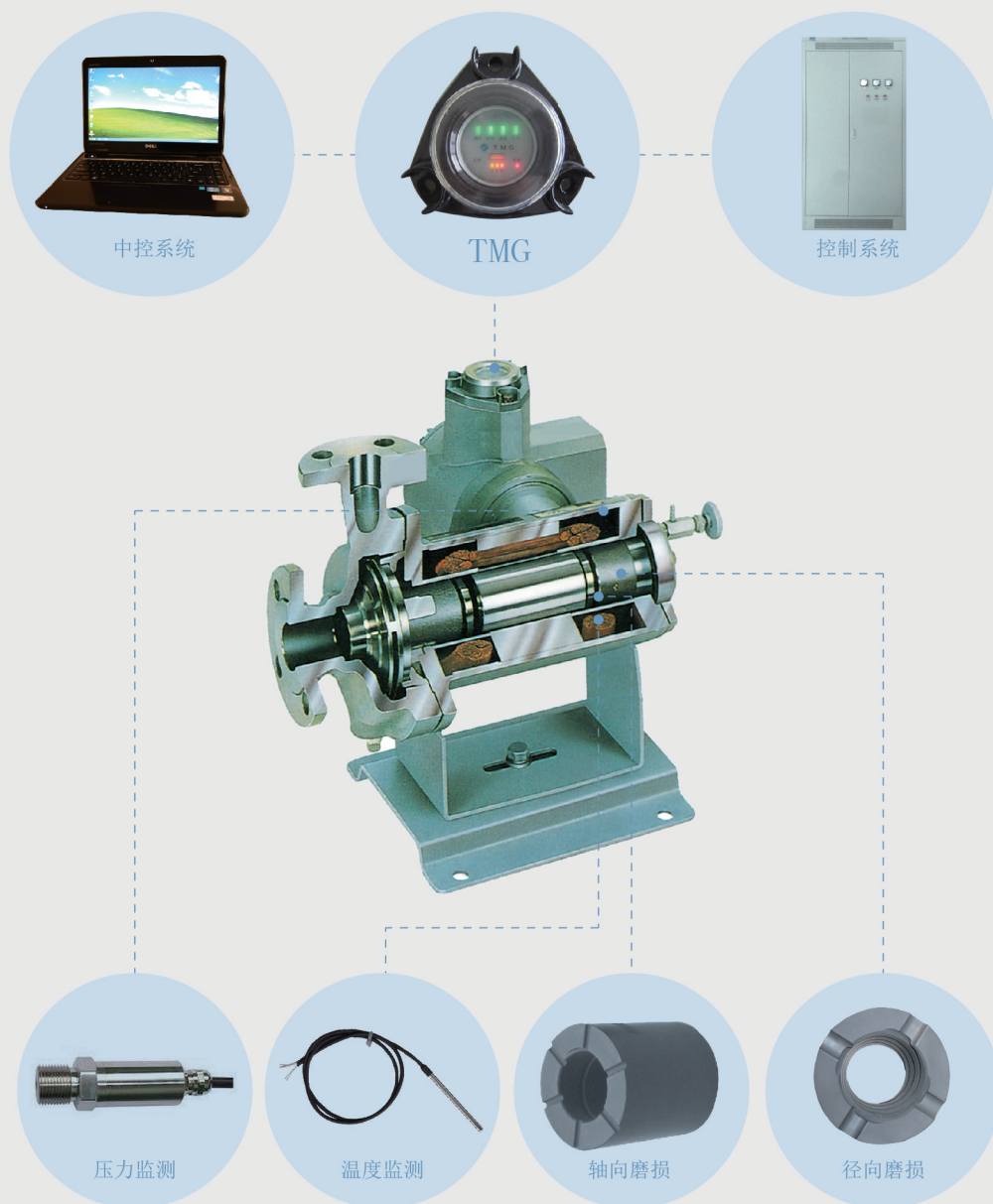
MONITORING DEVICE OF
CANNED MOTOR PUMP



01

TMG屏蔽电泵全项智能监控仪 Teikoku Multi-function Guarder

我公司自主研发的TMG屏蔽电泵全项智能监控仪，实现了屏蔽电泵轴承的轴向磨损、径向磨损监测；绕组温度、定子腔压力监测；屏蔽电机的正反转状态、缺相监测；以及自动保护等多种功能。实现了屏蔽泵电机的全方位参数监测、显示与反馈控制，同时具有运行参数长期记录保存备查功能。TMG, namely all-item intelligent monitoring meter our company has developed on its own realizes many kinds of functions such as the detection of bearing axial wear, bearing radial wear, winding temperature, stator chamber pressure, canned motor rotation direction, phase failure, automatic protection and so on. It realizes all-around parameter monitoring, display and feedback control while possessing the function of long term record saving for search.



02

TRG 屏蔽电泵转动监控仪 Teikoku Rotator Guarder

用于监测轴承径向磨损，屏蔽电泵的正反转、缺相、转子断条等工作状态，供现场监测使用，另外，可配用远传TRG表、TRG变送器使用。

It is used for monitoring the working status including bear' s radial wear, canned motor pump' rotation direction, phase failure, broken bar of rotor and so on and applicable for onsite monitoring. In addition, it can be configured with remote TRG and TRG transmitter for usage.

03

液位开关 Level switch

安装于屏蔽电泵的入口或出口的管道上，屏蔽电泵出现断液时，液位开关会输出保护动作信号，信号类型为常闭干式触点信号，保护动作时常闭变为常开。

Installed on suction pipeline or discharge pipeline of canned motor pump, and when liquid flow is broken for canned motor pump, level switch will give out protection action signal, and signal type is normally close dry style contact signal, normally close contact becomes normally open when protection action takes place.

04

压力变送器(二级防护) Pressure transmitter (Secondary Containment)

安装在电机壳体上，对电机定子腔压力进行监测，输出4~20mA DC电信号，屏蔽套发生泄漏时，压力会产生突变。

Installed on motor shell and monitor the pressure of motor stator chamber with output signal of 4~20mADC, when shielding can is leaking, pressure will produce sudden change.

05

温度监测器 Temperature monitor

采用pt100或热电偶，并可以选配温度变送器，主要有：

- A. 介质温度监测：安装于屏蔽电泵的入口管路上，防止电机入口液温及最高表面温度超过允许的限值；
- B. 定子绕组温度监测：安装于电机定子腔内，监测电机绕组温度；
- C. 轴承温度监测：安装于屏蔽电泵的后端盖上，监测后轴承腔介质温度。

Adopt pt100 or thermocouple and furnished with temperature transmitter in option, mainly include:

- A. Medium temperature monitoring: installed on the suction pipeline of canned motor pump to prevent motor inlet liquid temperature and Max surface temperature from surpassing allowable limit value;
- B. Stator winding temperature monitoring: installed in motor stator chamber to monitor stator winding temperature;
- C. Bearing temperature monitoring: installed on R.B. housing of canned motor pump to monitor medium temperature in rear bearing chamber;