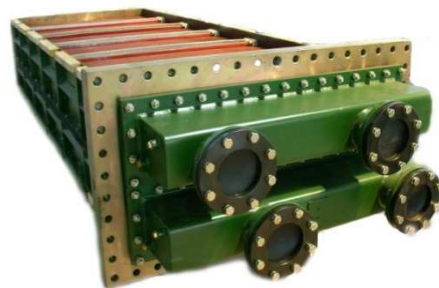




热交换产品

Heat Exchangers



公司简介 Company introduction

奕鸽实业的热交换器品牌-朗森成立于 2001 年 2 月，是一家专门从事热交换器、压力容器设计、制造、销售的专业化公司，主要产品有气体冷却器、油水冷却器、蒸发器、冷凝器、加热器、压力容器、热能回收装置、海水淡化装置等多个系列产品，广泛应用于船舶、电力、冶金、石化、铁路、工程机械、医药食品、环保等行业。公司在上海和湖北有生产工厂。

朗森拥有热交换器领域资深的技术和研发人员，充分了解并掌握热交换器的前沿技术。公司与国内知名的研究所及高校深入合作，不断地研究开发性能优越的换热元件及产品，以满足不同客户的性能及品质要求。

公司已通过 ISO9001 质量体系认证、ASME 认证、压力容器设计及制造许可证、CCS 工厂型式认可。产品出厂可提供外检 DNV-GL、LR、BV、ABS、NK 等国际船级社证书，也可提供欧洲 PED 产品认证以及军检证书。

朗森公司拥有二百多台套先进的生产设备,完善的检测手段和严格的质保体系，我们将秉承“客户至上，服务第一”的宗旨，以质量创信誉，以专业化，规模化的现代管理模式为广大顾客提供优质的产品和满意的服务。

Eascoo's heat exchanger brand: LANGSEN is a professional designer and manufacturer of various of heat exchangers and pressure vessel. The main products are air coolers, oil coolers, evaporator, condenser, heater, pressure vessels and sea water desalination device etc. Which are widely used in marine, power, metallurgy, petrochemical, locomotive, engineering machinery, medicine & food industry, environmental protection industry. There are two production facilities in China: one in Shanghai and one in Hubei Province.

Langsen has the most professional technical people for heat exchangers and master the most advanced heat transfer technology in the world. LANGSEN has cooperated with Chinese famous research institute and university to develop different tube fin pattern with the wind tunnel thermal test device to meet the growing demand of customers.

LANGSEN has got ISO9001 quality system approval, ASME certificate, D1/D2 pressure vessel design and manufacturing approval, CCS type approval. It can provide the certificates of international classification societies such as DNV-GL、LR、BV、ABS、NK. As well, the Europe PED certificate and Chinese JB certificate.

LANGSEN has more than 200 sets of advanced production equipment for heat exchangers, perfect test methods and strict quality assurance system. Our slogan is "Customer first, Service best". We would like to serve customers worldwide with our best product and service.



上海工厂/Shanghai Factory



湖北工厂/Hubei Factory

先进的设备 Advanced equipment



LVD-HD 数控折弯机
CNC bending machine



YSD 数控剪板机
CNC plate shearing machine



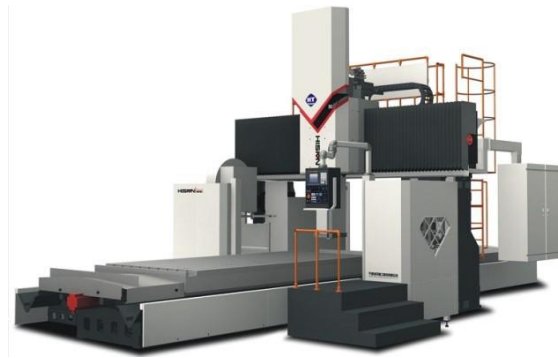
大型卧式车床
horizontal lathe



数控压力机 Large
CNC press machine



立式埋弧自动焊机
submerged arc welding machine



龙门加工中心 Vertical
Gantry Machining center

先进的设备 Advanced equipment



CNC 加工中心
CNC machining center



高速冲片机
High speed punching machine



大厚度卷板机
Thick plate rolling machine



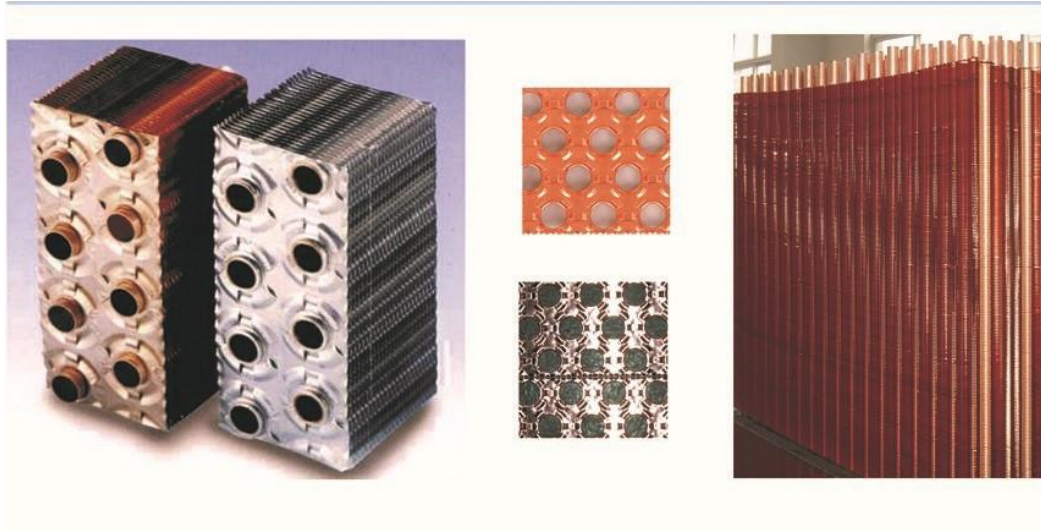
立式胀管机
Vertical tube expanding machine



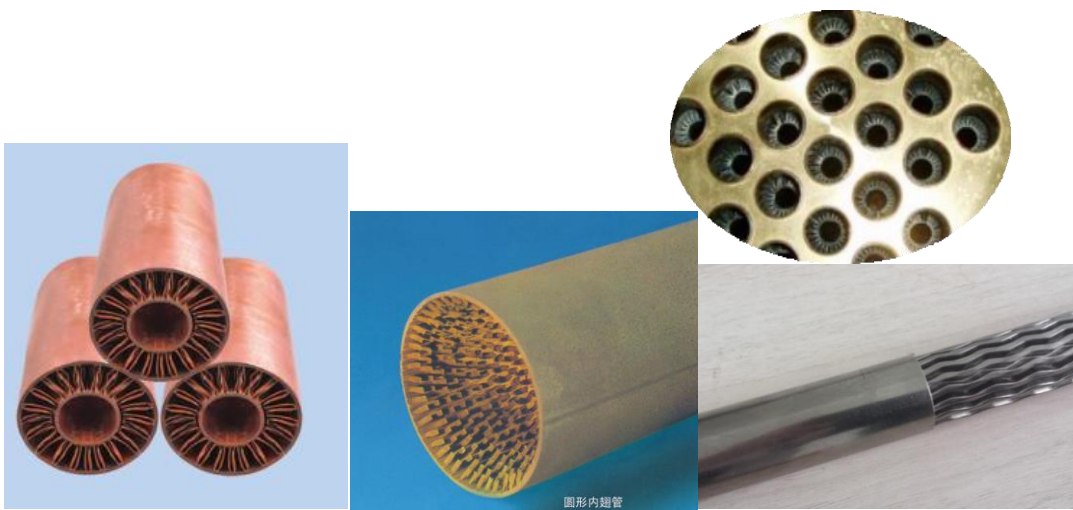
卧式胀管机
Transverse tube expanding machine



数控胀管控制仪
CNC tube expander



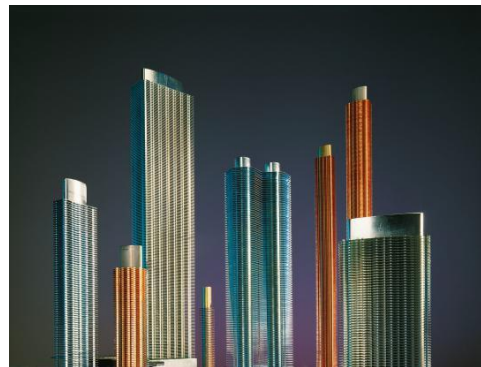
高效紧凑式翅片管换热元件
High efficiency compact tube fin pattern



高效内翅片管 Inner finned tube



双金属高肋管 Bimetallic finned tube

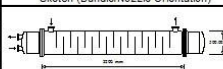


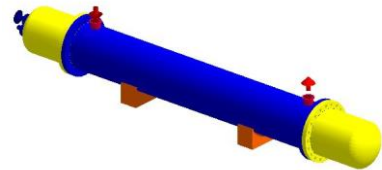
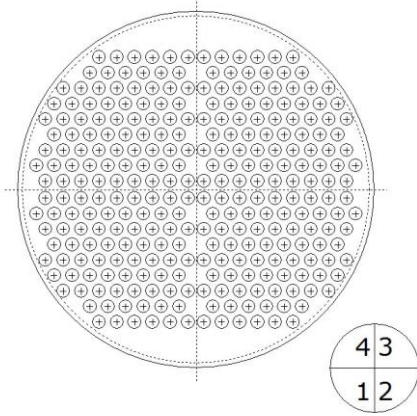
各种高效翅片管 Various of finned tubes

领先的技术 Leading technology

卓越的设计能力

Excellent design ability

HTRI		HEAT EXCHANGER SPECIFICATION SHEET				Page 1					
						322 Units					
Customer	Job No.		Reference No.								
Address	Proposal No.		Date								
Plant Location	Date		2012/3/1		Rev						
Service of Unit	Item No.		1 Parallel 1 Series								
Size	500.000 x 3200.00 mm		Type	BEM							
Surf/Unit (Gross/Eff)	54.25 / 52.55 m ²		Shell/Unit	1							
		Surf/Shell (Gross/Eff)	54.25 / 52.55 m ²								
PERFORMANCE OF ONE UNIT											
Fluid Allocation		Shell Side		Tube Side							
Fluid Name											
Fluid Quantity, Total	kg/s	10.7600		18.2458							
Vapor (In/Out)											
Liquid		10.7600	10.7600	18.2458	18.2458						
Steam											
Water				18.2458	18.2458						
Noncondensables											
Temperature (In/Out)	C	62.48	48.00	33.00	37.00						
Specific Gravity		0.8682	0.8773	0.9952	0.9938						
Viscosity	Pa-s	0.0231	0.0447	7.49e-4	6.91e-4						
Molecular Weight, Vapor											
Molecular Weight, Noncondensables											
Specific Heat	J/kg-C	1990.5	1923.8	4179.3	4178.8						
Thermal Conductivity	W/m-K	0.1264	0.1274	0.6194	0.6249						
Latent Heat	kJ/kg										
Inlet Pressure	bar										
Velocity	m/s		0.58		1.46						
Pressure Drop, Allow/Calc	bar		0.486			0.377					
Fouling Resistance (min)	m ² -KW	0.000170		0.000344							
Heat Exchanged kW	305.	MTD (Corrected)		19.1 C							
Transfer Rate, Service	303.54 W/m ² -K	Clean	421.60 W/m ² -K	Actual	335.79 W/m ² -K						
CONSTRUCTION OF ONE SHELL				Sketch (Bundle/Nozzle Orientation)							
Design/Test Pressure	barG	10.342 /	10.342 /								
Design Temperature	C										
No Passes per Shell		1	4								
Corrosion Allowance	mm										
Connections	In mm	1 @ 102.261	1 @ 102.261								
Size & Rating	Out mm	1 @ 102.261	1 @ 102.261								
	Intermediate	@	@								
Tube No.	284	OD	19.000 mm	Thk(Avg)	2.000 mm	Length	3200. mm	Pitch	25.000 mm	Layout	30
Tube Type	Plain		Material		CARBON STEEL						
Shell	ID	500.000 mm	OD	mm	Shell Cover						
Channel or Bonnet			Channel Cover								
Tubesheet-Stationary			Tubesheet-Floating								
Floating Head Cover			Impingement Plate		None						
Baffles-Cross	Type	SINGLE-SEG.		%Cut (Diam)	25.3	Spacing(c/c)	160.000	Inlet	270.005 mm		
Baffles-Long			Seal Type								
Supports-Tube			U-Bend		Type						
Bypass Seal Arrangement			Tube-Tubesheet Joint								
Expansion Joint			Type								
Rho-V2-Inlet Nozzle	1977.90	kg/m-s ²	Bundle Entrance	264.08	Bundle Exit	261.31	kg/m-s ²				
Gaskets-Shell Side			Tube Side								
-Floating Head											
Code Requirements					TEMA Class						
Weight/Shell	1838.68	Filled with Water	2559.56	Bundle	934.82	kg					
Remarks:											



可靠的性能试验验证

Reliable test facilities



性能测试系统 Performance test device

广泛的应用 Wide application

- 船舶，柴油机行业 Shipbuilding and diesel engine



增压空冷器 Charge air cooler



壳管式滑油冷却器 Shell tube oil cooler



挖泥船舷外冷却器 Box cooler



柴油发电机组缸套水散热器 Radiator of diesel GENSETS



广泛的应用 Wide application

□ 工程机械，压缩机行业 Construction machine & compressor



标准离心机后冷器
AC of standard centrifugal compressor



特殊氮气冷却器
N2 cooler with special design of shell



内置式高效气体冷却器
Built in high efficiency air cooler



内翅片管冷却器
Inner finned tube air cooler



翅片管油冷器
Finned tube oil cooler



双联可切换式油冷器
Switchable double oil cooler

广泛的应用 Wide application

工程机械，压缩机行业
Construction machine & Compressor



离心压缩机冷却器成套设计与制造 Package design and manuf. of coolers with housing



大型空分压缩机级间冷却器及管束

Inter cooler and bundle of turbo compressor for air separation

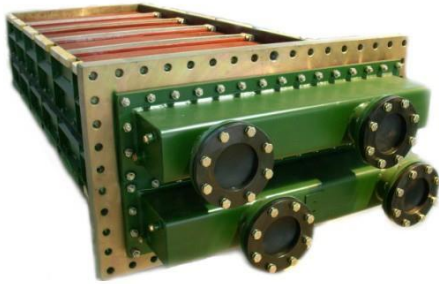


大型空分压缩机后冷却器

After cooler of turbo compressor for air separation

广泛的应用 Wide application

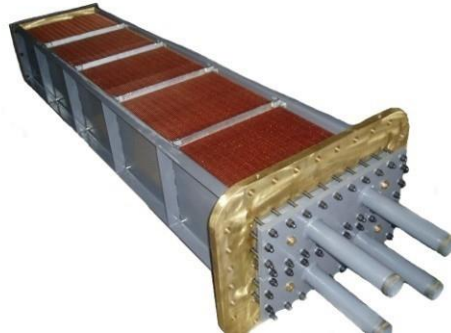
电力行业
Power station



电机氢冷器 Hydrogen cooler



电机空冷器 Air cooler



汽轮机励磁机空冷器
Air cooler for steam t



滑油冷却器 Lub. Oil cooler



背包式电机空冷器 Package design of air cooler with housing

广泛的应用 Wide application

冶金，石化行业

Metallurgy and Petro Chemical Industry



乏气冷凝器

Exhaust gas condenser of power plant



钢厂煤气中冷器/Coat gas cooler of steel plant



工艺流体空冷器 Industry fluid air cooler



大型空冷器

Large scale air cooler



广泛的应用 Wide application

热量回收与环保行业

WHR and environmental protection industry



压缩机级间热量回收装置
WHR device of IR compressor



垃圾焚烧电站冷却器
Cooler for incineration plant



食品厂余热回收装置 WHR for food industry



医药行业发酵装置冷凝器
for medicine industry

电厂空气加热器 Condenser
Air heater for power plant

我们的客户 Our customers

