



**江苏润邦新材料集团有限公司**  
**JIANGSU RUNBANG CLAD METAL MATERIAL CO., LTD**

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**Jiangsu Runbang Clad Metal Material Co., Ltd**

江苏润邦新材料集团有限公司

Address: No. 3, Linhe South Road, Xingdian Street, Pukou District, Nanjing City,  
Jiangsu Province, 211803, P. R. China

地址：江苏省南京市浦口区星甸街道林河南路3号

邮编：211803



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# 江苏润邦新材料集团有限公司

## JIANGSU RUNBANG CLAD METAL MATERIAL CO., LTD

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## 1. Company Profile

**Jiangsu Runbang Clad Metal Material Co., Ltd**, established in 2003 year, consisted from Nanjing Runbang Clad Metal Materials CO., Ltd and Runbang Explosive Processing Research Institute. It is in Nanjing, the capital of ten dynasties in Chinese history. The company is the high and new technology enterprise, specialized in the development and manufacturing of clad metal materials. With the total registered capital of RMB 50 Million, registered in Nanjing Pukou District, occupies a floor area of 60,000Sq.m. The company has 3 big explosive bases in southern of Anhui province for producing and experiment. It is suit of producing all kinds of big sizes cladding metal materials, the capacity more than 50,000 Tons/Year and reliable products are based on the first company in domestic industry with three technologies of cladding method by explosion cladding / roll-bonding / explosion with rolling, over 100 combinations of material claddings options.

With the perfect modernizing workshop, as well as advanced produce technology and detecting equipment, obtained ISO-9001 Quality Assurance System Certificates and PED Certificates been issued by LR, ISO-14001、ISO-45001 ESH System Certificate been issued by TUV, China National Weapons & Military Supplies Quality System Certificate, China Nuclear Management System Certificate, and also passed the safe registered certificate of exploding clad metal plate issued by Chinese Standardized Committee of the Boiler and Pressure Vessel.

The company has always focused on attracting talent and technology communion, and set up core team of technology and strategy management around with 3 doctors, been approved to establish "Jiangsu Province Enterprise Academician Workstation", "Jiangsu Province Hard-brittle Metallic Composite Materials Engineering Research Center", "Nanjing Enterprise Technology Center". The company has undertaken National Torch Program Project, Jiangsu Provincial Science and Technology Achievements Transformation Project, Nanjing Science and Technology Program Project, and other more than 20 scientific and technological innovation projects. The company has been awarded by relevant authority the title as "Nanjing high and new technology enterprise ", "Jiangsu high and new technology enterprise ", the product gains honorary titles such as "Nanjing high and new technology product", " Jiangsu high and new technology product " respectively. Three Nation Invention Patents are gained about clad metal materials, drafted one Industry Standard DL/T 1590-2016 (Titanium Clad Metal Used In Coal-fired Power Plant Chimney) for China Power Industry, and owns more than 40 national patents of proprietary intellectual property rights, the company has become a key enterprise and main force of manufacturing research and development in Functional Clad Metal Materials such as Alloy Tool Steel-Steel, Big Area and Thickness Cooper-Steel and Precious Metal Clad Materials. The technology of explosive boding is in the leading level in China.

The company has two big separated field explosive bases, with the completed manufacturing facilities, the company owns automatic plasma cutting machines, beveling machines, automatic welding platforms, submerged arc welding machines, KUKA 9 Axis robot welding, auto polishing machines, heat treatment furnaces, oil press machines, 3-roll leveling machines, 7-roll leveling machines, 11-roll leveling machines, automatic shot blasting machines and etc., more than 100 sets advanced equipment. Available maximum width can be up to 4 meters with maximum length 14 meters for clad plates. This company's product lines all series of Clad Plates, Clad Tube Sheets, Clad Heads, extension products of complete size metallic composites in material of Stainless Steel-Steel, Copper-Steel, Aluminum-Steel, Titanium-Steel, Nickel Base Alloy-Steel, Zirconium-Steel, Tantalum-Steel, Toll Steel-Steel and so on.

Based on existing market in petroleum and petrochemical, metallurgy, electric power, papermaking, shipbuilding, sea water desalination etc., the company is also emphatically involving in production and sales of

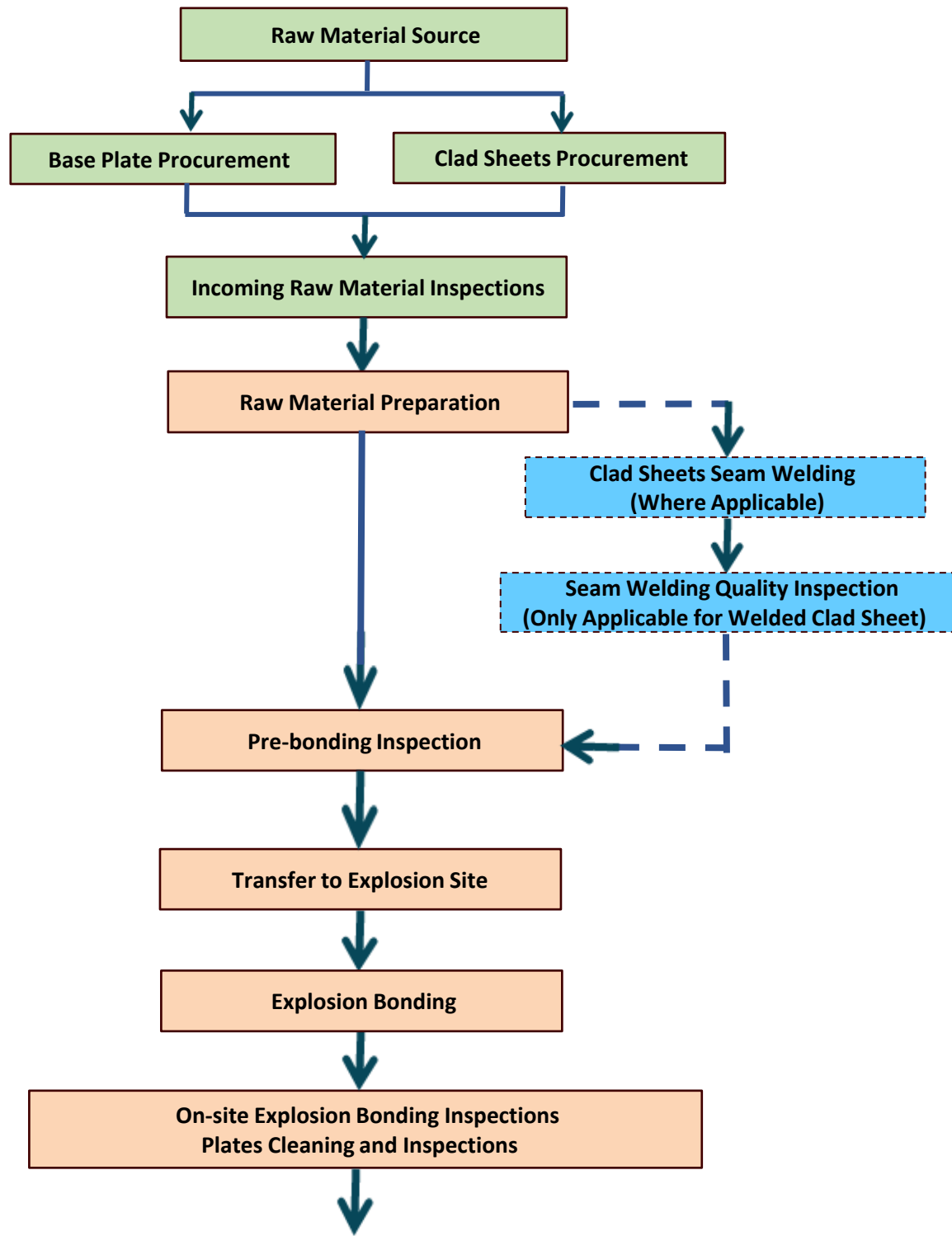


# 江苏润邦新材料集团有限公司 Jiangsu Runbang Clad Metal Material Co.,Ltd

地址:江苏省南京市浦口区星甸街道林河南路3号 邮编: 211803  
 Add: No. 3, Linhe South Road, Xingdian Street, Pukou District, Nanjing City, Jiangsu Province, 211803, P. R. China  
 电话TEL: 0086-25-58263888 传真FAX: 0086-25-58264266

## CLAD PLATE MANUFACTURE PROCESS FLOW CHART - EXPLOSION BONDING

- 1
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- 4
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**Base Plate:**  
Carbon Steel  
Stainless Steel and etc.

**Cladder Plate:**  
Stainless Steel  
Titanium Alloy Steel  
Monel/Hastelloy/Inconel Steel  
Copper Alloy and etc.

**Shot Blasting and Polishing**

**Auto TIG Welding**

**Surface Condition**  
Flatness  
Marking

**Explosion Bonding**

**Marking**  
Ground conditions

**Appearance check**  
UT test



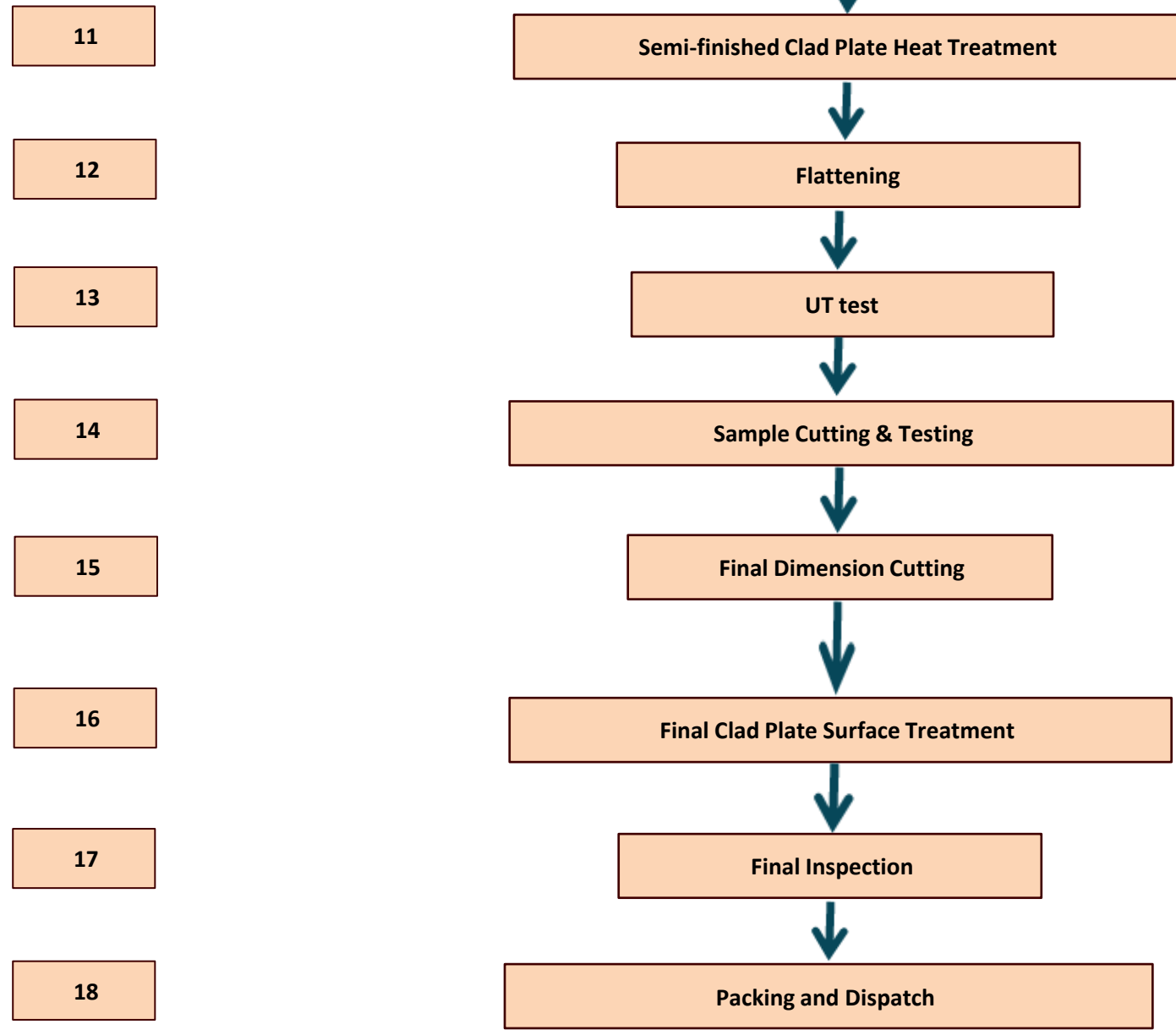


# 江苏润邦新材料集团有限公司 Jiangsu Runbang Clad Metal Material Co.,Ltd

地址:江苏省南京市浦口区星甸街道林河南路3号 邮编: 211803  
 Add: No. 3, Linhe South Road, Xingdian Street, Pukou District, Nanjing City, Jiangsu Province, 211803, P. R. China  
 电话TEL: 0086-25-58263888 传真FAX: 0086-25-58264266

## CLAD PLATE MANUFACTURE PROCESS FLOW CHART - EXPLOSION BONDING

... Continued ...



Heat treatment of Annealing/Stress Relieving

Flattening

100% coverage UT test

Sampling

Plasma Cutting

Pickling/Polishing

Dimension check:  
width/length  
Thickness-E376  
Surface Condition

Shipment



# 江苏润邦新材料集团有限公司

## JIANGSU RUNBANG CLAD METAL MATERIAL CO., LTD

burgeoning industry as nuclear power products. The company owns self-import & export rights, besides of domestic market, most of products have been exported to world-wide including USA, India, Oman, Vietnam, Laos, Korea, South Africa, Morocco, Brazil, Czech, Finland, Spain, Italy, the European Union, the Middle East and other countries and regions. With consecutive improvement of annual sales, this company has set a good brand image in market of India and Europe, and this company is also the first approved Chinese supplier for clad metal plates in General Electric Company (GE).

“Strict comply, keep promise” is our consistent principle, “Meet customer demand, exceed customer expectation” is our eternal purpose. With advanced equipment and techniques, first-class production and testing equipment, modern management system, well trained employees’ team, high proportions of professional technologists, perfect after-sales service, we sincerely welcome customer from all over the world to visit our company for a sight appraisal, and we confident that Jiangsu Runbang Clad Metal Materials Co., Ltd will continue to provide customer with the high-quality products and the full-after-sale service.

## 2. Available products

Type	Product	Cladding Material	Specification	Manufacturing Method	Size Range
Titanium	Clad Plate	ASME SB265 Gr.1, Gr.2,	ASTM B898 JIS G 3603	Explosion / Hot Rolling / Explosion + Hot Rolling	L<15000mm, W<5000mm
	Clad Head	Gr.3, Gr.4, Gr.5, Gr.7, Gr.9, Gr.11, Gr.12, Gr.16 and etc.	NB/T 47002.3 GB/T 8546 GB/T 8547 DL/T 1590	Hot forming / Cold forming	φ<6000mm
	Clad Tube Sheet			Explosion bonding	φ<4000mm
Stainless Steel & Duplex Stainless Steel	Clad Plate	ASME SA240 410S, 304/304L, 316/316L,	ASME SA264 JIS G 3601	Explosion / Hot Rolling / Explosion + Hot Rolling	L<15000mm, W<5000mm
	Clad Head	310/310S, 321, 347,317/317L, S31803, S32205, S32750, S32760 and etc.	NB/T47002.1 YB/T4282	Hot forming / Cold forming	φ<6000mm
	Clad Tube Sheet			Explosion bonding	φ<4000mm
Nickel Alloy	Clad Plate	UNS N02200, UNS N02201, UNS N04400,	ASME SA265 JIS G 3602	Explosion / Hot Rolling / Explosion + Hot Rolling	L<15000mm, W<5000mm
	Clad Head	UNS N06600, UNS N06625, UNS N08825, UNS N08800, UNS N08810, UNS 10276 and etc.	NB/T 47002.2	Hot forming / Cold forming	φ<6000mm
	Clad Tube Sheet			Explosion bonding	φ<4000mm
Note: For other materials (such as Aluminum, Copper, Zirconium, Tantalum and etc.), please call for details					

## 3. Detailed Production Process Flow Chart

Detailed Production Process Flow Chart is attached.

4. Certificates

Business License

统一社会信用代码 91320111754139586P (1/1)

统一社会信用代码 “国家企业信用信息公示系统” 备案，许可、监管信息。



编号 320111000202006110135



# 营业执照

(副本)

注册日期 2003年11月11日

营业期限 2003年11月11日至\*\*\*\*\*

登记机关 2020年06月11日

**名称** 江苏润邦新材料集团有限公司

**类型** 有限责任公司(自然人投资或控股)

**法定代表人** 史和生

**经营范围** 金属复合材料及机械设备的开发、生产、销售，自营和代理各类商品及技术的进出口业务（国家限定企业经营或禁止进出口的商品和技术除外）。（依法须经批准的项目，经相关部门批准后方可开展经营活动）

**注册资本** 5000万元整

**成立日期** 2003年11月11日

**营业期限** 2003年11月11日至\*\*\*\*\*

**住所** 南京市浦口区星甸街道林河南路3号

登记机关



2020年06月11日

市场主体应当于每年1月1日至6月30日通过国家企业信用信息公示系统报送公示年度报告。

国家市场监督管理总局监制

国家企业信用信息公示系统网址：<http://www.gsxt.gov.cn>

<https://www.gsxt.gov.cn>

ISO -9001: 2015 –LR certificate

## Certificate of Approval

This is to certify that the Management System of:

## Jiangsu Runbang Clad Metal Material Co., Ltd.

No. 3, Linhe Southern Road, Xingdian Street, Pukou District, Nanjing City, Jiangsu Province 210000,  
China

Unified Social Credit Code: 91320111754139586P

has been approved by LRQA to the following standards:

ISO 9001:2015

GB/T 19001-2016



Rhett Wang - Area Operations Manager, Greater China

Issued by: Lloyd's Register Quality Assurance (Shanghai) Co., Ltd.

for and on behalf of: Lloyd's Register Quality Assurance Limited

Current issue date: 5 July 2019  
Expiry date: 2 July 2022  
Certificate identity number: 10203528Original approval(s):  
ISO 9001 – 3 July 2016

Approval number(s): ISO 9001 – 0065895

The scope of this approval is applicable to:  
Manufacture of explosive welding metal cladding plates.

001

The certificate can be checked for validity on CMAA website ([www.cmaa.gov.cn/](http://www.cmaa.gov.cn/)) 20 working days after the date of issuance. This approval is subject to surveillance assessment carried out in accordance with the LRQA assessment and certification procedures.

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Issued by: Lloyd's Register Quality Assurance (Shanghai) Co., Ltd., Room 2018, Ocean Tower, No. 350 Yixian Avenue Road, Shanghai, 200001 for and on behalf of: Lloyd's Register Quality Assurance Limited, 1 Trinity Park, Bickenhill Lane, Birmingham B37 7ES, United Kingdom.

Page 1 of 1



ISO -14001: 2015 –TUV certificate



# CERTIFICATE

The Certification Body  
of TÜV SÜD Asia Pacific TÜV SÜD Group

certifies that

**Jiangsu Runbang Metal Clad Material Co., Ltd.**

No.3 South Linhe Road, Xingdian Industrial Park, Pu Kou District  
Nanjing, Jiangsu Province, P. R. China  
Post Code: 211803

has established and applies  
an Environmental Management System for

**Manufacture and Sales of Metal Cladding Plates.**

An audit was performed, Report No. 7482219054.

Proof has been furnished that the requirements according to

**ISO 14001:2015**

are fulfilled. The certificate is valid from **2019-09-10** until **2022-09-09**.

Certificate Registration No.: TUV104 03 4244

2019-09-10



Certification Body  
of TÜV SÜD Asia Pacific  
TÜV SÜD Group



Accreditation by the Joint Accreditation System  
of Australia and New Zealand, JAS-ANZ,  
[www.jas-anz.org/register](http://www.jas-anz.org/register)

ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ CERTIFIKAT ◆ CERTIFICADO ◆ CERTIFICAT

ISO -45001: 2018 –TUV certificate



# CERTIFICATE

The Certification Body  
of TÜV SÜD Asia Pacific TÜV SÜD Group

certifies that

**Jiangsu Runbang Metal Clad Material Co., Ltd.**

No.3 South Linhe Road, Xingdian Industrial Park, Pu Kou District  
Nanjing, Jiangsu Province, P. R. China

Post Code: 211803

has established and applies  
an Occupational Health and Safety Management System for

**Manufacture and Sales of Metal Cladding Plates.**

An audit was performed, Report No. 7482219054.

Proof has been furnished that the requirements according to

**ISO 45001:2018**

are fulfilled. The certificate is valid from **2019-09-10** until **2022-09-09**.

Certificate Registration No.: TUV106 03 4244

2019-09-10



Certification Body  
of TÜV SÜD Asia Pacific  
TÜV SÜD Group



Accreditation by the Joint Accreditation System  
of Australia and New Zealand, JAS  
www.jas.asn.au

ZERTIFIKAT ♦ CERTIFICATE ♦ 認證證書 ♦ СЕРТИФИКАТ ♦ CERTIFICADO ♦ CERTIFICAT

TUV SUD TUV SUD TUV SUD TUV SUD TUV SUD TUV SUD TUV SUD TUV SUD TUV SUD TUV SUD

PED of Pressure Equipment Directive 2014/68/EU-LR certificate**EU CERTIFICATE OF QUALITY SYSTEM APPROVAL****In accordance with the requirements of the Pressure Equipment****Directive 2014/68/EU**

This is to certify that the Quality Management System of:

**Jiangsu Runbang Clad Metal Material Co., Ltd.**  
**No. 3, Linhe South Road, Xingdian Street, Pukou District,**  
**Nanjing City, Jiangsu Province 210000,**  
**People's Republic of China**  
Unified Social Credit Code: 91320111754139586P

has been assessed against the requirements of Annex I, Paragraph 4.3 of the Pressure Equipment Directive 2014/68/EU and EN 764-5: 2014, Article 4.2, and conforms to the requirements for the products shown below:

**Manufacture of explosive welding metal cladding plates in accordance with Annex I paragraph 4.3 of the Pressure Equipment Directive.**  
(see attached schedule)

Approval is subject to the continued maintenance of the quality system in accordance with the requirements of the above Directive and EN 764-5: 2014, Article 4.2, and the on-going surveillance. Products are as detailed on the attached schedule.

Certificate No: 0343/PEDM/BJG6038116/A  
Original Approval: 3 July 2016  
Current Certificate: 31 December 2020  
Certificate Expiry: 2 July 2022  
LR NL Notified Body Number 0343



Alfred Yao on behalf of Lloyd's Register Nederland B.V.

*This certificate transfers LRV Ltd. (UK Notified Body 0038) Certificate No BJG6038116/A issued on 3 July 2016 which is now under the responsibility of EU Notified Body No. 0343 (LRNL).*

Lloyd's Register Nederland B.V. (Reg. no. 34047946) is a private limited company registered in the Netherlands with registered office at K.P. Van Der Mandelilaan 41 A, 3062MB Rotterdam. A subsidiary of Lloyd's Register Group Limited.

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LRNLBVECOMPED/Annex 14-3/Handwritten/November-2020/Rev 0





### CERTIFICATE OF QUALITY SYSTEM APPROVAL CERTIFICATE 0343/PEDM/BJG6038116/A SCHEDULE

In accordance with the requirements of the Pressure Equipment  
 Directive 2014/68/EU

Jiangsu Runbang Clad Metal Material Co., Ltd.  
 No. 3, Linhe South Road, Xingdian Street, Pukou District,  
 Nanjing City, Jiangsu Province 210000,  
 People's Republic of China

**Products:** Metal cladding plates in the size range of maximum width 3000 mm and 12-450 mm in wall thickness.

**Material Grades and Standards:**

Clad plate standards	Base metal standards	Grades	Cladding metal standards	Grades
ASME SA263 /ASTM A263	ASME SA516/ ASTM A516	Gr.60, Gr.70	ASME SA240	410, 410S.
	ASME SA182/ ASTM A182	LF2		
	ASME SA266/ ASTM A266	Gr.1, Gr.2, Gr.3		
	ASME SA387/ ASTM A387	Gr.22		
ASME SA264 /ASTM A264	ASME SA516/ ASTM A516	Gr.60, Gr.70	ASME SA240	304(S30408), 304L(S30403), 316(S31600), 316L(S31603), 317(S31700), 317L(S31703), 310S(S31008),310MoLN(S31050), 347(S34700),2205(S32205)S31803
	ASME SA350/ ASTM A350	LF2		
	ASME SA266/ ASTM A266	Gr.1, Gr.2, Gr.3		
	ASME SA387/ ASTM A387	Gr.22		
ASME B898	ASME SA516/ ASTM A516	Gr.60, Gr.70	ASME SB265	Gr.1, Gr.2, Gr.12
	ASME SA350/ ASTM A350	LF2		
	ASME SA266/ ASTM A266	Gr.1, Gr.2, Gr.3		
	ASME SA387/ ASTM A387	Gr.2, Gr.11		
ASME B432	ASME SA516/ ASTM A516	Gr.60, Gr.70	ASME SB171	C71500, C70600

Remark: Welding repair process was excluded from PED material certification scope.

Schedule Issue: 01  
 Date of Schedule Issue: 31 December 2020  
 LR NL Notified Body Number 0343



Alfred Yao on behalf of Lloyd's Register Nederland B.V.



Registration Certificate of Explosive Clad Plate for Pressure Vessel (China)  
For Titanium Steel / Steel Clad Plate

正本

全国锅炉压力容器标准化技术委员会

编号: BF-C03-2018

## 压力容器用爆炸复合钢板产品安全注册

江苏润邦新材料集团有限公司

经审查, 你单位生产的以下单元和对应牌号的钛—钢复合板符合 NB/T 47002.3-2009 《压力容器用爆炸焊接复合板 第3部分: 钛-钢复合板》标准的要求, 准予安全注册。

单元	覆材		基材	
	标准	牌号	标准	牌号
(BF) C1	GB/T 3621	TA1 TA2	GB/T 713	Q245R,Q345R

制造地址: 南京市浦口区星甸工业园

颁发机构

全国锅炉压力容器标准化技术委员会

注册专用章

颁发日期: 2018年06月05日

有效期至: 2023年06月04日

Registration Certificate of Explosive Clad Plate for Pressure Vessel (China)

For Nickel Steel / Steel Clad Plate

正本

全国锅炉压力容器标准化技术委员会

编号: BF-B05(H2)-2018

## 压力容器用爆炸复合钢板产品安全注册

江苏润邦新材料集团有限公司

经审查, 你单位生产的以下单元和对应牌号的镍-钢复合板符合 NB/T 47002.2-2009 《压力容器用爆炸焊接复合板 第2部分: 镍-钢复合板》标准的要求, 准予安全注册。

单元	覆材		基材	
	依据标准	牌号	依据标准	牌号
(BF) B1	NB/T 47046	N7 NCu30(N04400) NS3304(N10276)	GB/T 713	Q245R, Q345R

制造地址: 南京市浦口区星甸工业园

颁发机构

全国锅炉压力容器标准化技术委员会



发证日期: 2018年02月27日

有效期至: 2023年02月26日



**Registration Certificate of Explosive Clad Plate for Pressure Vessel (China)**  
**For Stainless Steel / Steel Clad Plate**

**正本**

全国锅炉压力容器标准化技术委员会      编号：BF-A09 (H2) -2018

### 压力容器用爆炸复合钢板产品安全注册

江苏润邦新材料集团有限公司

经审查，你单位生产的以下单元和对应牌号的不锈钢—钢复合板符合 NB/T 47002.1-2009 《压力容器用爆炸焊接复合板 第1部分：不锈钢-钢复合板》标准的要求，准予安全注册。

单元	覆材		基材	
	标准	牌号	标准	牌号
(BF) A1	GB/T 24511	S11306 S11348 S30408	GB/T 713	Q245R,Q345R
(BF) A2		S30403 S32168 S31608 S31603	GB/T 713	15CrMoR

制造地址：南京市浦口区星甸工业园

颁发机构

全国锅炉压力容器标准化技术委员会



注册专用章

颁发日期：2018年02月27日

有效期至：2023年02月26日

## 5. Dun & Bradstreet reports



### DUNS Registered™ Supplier Capability Evaluation (Manufacturing)

Jiangsu Runbang Clad Metal Material Co., Ltd.  
D-U-N-S®: 52-696-1988



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# 江苏润邦新材料集团有限公司

## JIANGSU RUNBANG CLAD METAL MATERIAL CO., LTD

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### **6. Reference List for the previous project**

Since our company was established, we have supplied many related chemical projects with highly quality products, and main reference list is attached.

### **7. Products Catalogue**

Detailed Products Catalogue is attached.



江苏润邦新材料集团有限公司  
Jiangsu Runbang Clad Metal Material Co.,Ltd

地址:江苏省南京市浦口区星甸街道林河南路3号 邮编: 211803  
Add: No. 3, Linhe South Road, Xingdian Street, Pukou District, Nanjing City, Jiangsu Province, 211803, P. R. China  
电话TEL: 0086-25-58263888 传真FAX: 0086-25-58264266

复合板主要业绩 Major Client & Reference for Clad Metal Plates

Sr. No. 序号	Client/EPC (客户/工程公司)	End User 最终用户	Project (项目名称)	Site Location (项目地点)	Year of Supply (年份)	Quantity of Clad Plates for the Order (Tons) (总吨位)	Item Descriptions/Technical Parameters, Wall Thickness (产品描述/技术参数、厚度范围)			
							Item Descriptions (产品描述)	Material (材质)	Clad Plate Wall Thickness (mm) (复合板厚度)	Technical Parameters (技术参数)
1	GE Power India Ltd (GE)	National Thermal Power Corporation Limited (NTPC)	NTPC FGD Meja Project-2X660MW WET Flue Gas Desulphurization System Package	印度 India	2019-2020	770	Hastelloy C276+CS Clad Plates	ASTM B575 UNS10276+ ISO 2062 E250, Grade BR/ ASTM A36/ ASME SA36	2+7, 2+9, 2+11, 2+15, 2+17	ASME SA 265, ASTM B575, ASTM A36
2	GE Power India Ltd (GE)	National Thermal Power Corporation Limited (NTPC)	NTPC FGD Unchahar Project-1X500MW WET Flue Gas Desulphurization System Package	印度 India	2019-2020	210	Hastelloy C276+CS Clad Plates	ASTM B575 UNS10276+ ISO 2062 E250, Grade BR/ ASTM A36/ ASME SA36	2+7, 2+11, 2+15, 2+17	ASME SA 265, ASTM B575, ASTM A36
3	GE Power India Ltd (GE)	National Thermal Power Corporation Limited (NTPC)	NTPC FGD Solapur Project-2X660MW WET Flue Gas Desulphurization System Package	印度 India	2019-2020	800	Hastelloy C276+CS Clad Plates	ASTM B575 UNS10276+ ISO 2062 E250, Grade BR/ ASTM A36/ ASME SA36	2+7, 2+9, 2+11, 2+15, 2+17	ASME SA 265, ASTM B575, ASTM A36
4	GE Power India Ltd (GE)	National Thermal Power Corporation Limited (NTPC)	NTPC FGD Tanda Project-2X660MW WET Flue Gas Desulphurization System Package	印度 India	2019-2020	760	Hastelloy C276+CS Clad Plates	ASTM B575 UNS10276+ ISO 2062 E250, Grade BR/ ASTM A36/ ASME SA36	2+7, 2+9, 2+11, 2+15, 2+17	ASME SA 265, ASTM B575, ASTM A36
5	GE Power India Ltd (GE)	National Thermal Power Corporation Limited (NTPC)	NTPC FGD Sipat Project-3X660MW WET Flue Gas Desulphurization System Package	印度 India	2019-2021	750	Hastelloy C276+CS Clad Plates	ASTM B575 UNS10276+ ISO 2062 E250, Grade BR/ ASTM A36/ ASME SA36	2+7, 2+9, 2+11, 2+15, 2+17	ASME SA 265, ASTM B575, ASTM A36
6	GE Power India Ltd (GE)	National Thermal Power Corporation Limited (NTPC)	NTPC FGD Simhadri Project-4X500MW WET Flue Gas Desulphurization System Package-StageI&II	印度 India	2019-2021	1,000	Hastelloy C276+CS Clad Plates	ASTM B575 UNS10276+ ISO 2062 E250, Grade BR/ ASTM A36/ ASME SA36	2+7, 2+9, 2+11, 2+15, 2+17	ASME SA 265, ASTM B575, ASTM A36
7	GE Power India Ltd (GE)	National Thermal Power Corporation Limited (NTPC)	NTPC FGD Unchahar Project-5X210MW WET Flue Gas Desulphurization System Package	印度 India	2020-2021	600	Hastelloy C276+CS Clad Plates	ASTM B575 UNS10276+ ISO 2062 E250, Grade BR/ ASTM A36/ ASME SA36	2+7, 2+9, 2+13, 2+19	ASME SA 265, ASTM B575, ASTM A36
8	GE Power India Ltd (GE)	National Thermal Power Corporation Limited (NTPC)	NTPC FGD Sipat Project-3X660MW WET Flue Gas Desulphurization System Package	印度 India	2020-2021	105	Titanium+CS Clad Plates	ASTM B265 Gr.2+ASTM A36	2+7	ASTM B898, ASTM B265, ASTM A516
9	GE Power India Ltd (GE)	National Thermal Power Corporation Limited (NTPC)	NTPC FGD Simhadri Project-4X500MW WET Flue Gas Desulphurization System Package-StageI&II	印度 India	2020-2021	115	Titanium+CS Clad Plates	ASTM B265 Gr.2+ASTM A36	2+7	ASTM B898, ASTM B265, ASTM A516
10	Tata Projects Limited	NTPC Tamilnadu Energy Co. Ltd.	Flue Gas Desulphurisation Vallur-100047 Thermal Power Station (3x500MW)	印度 India	2020-2021	636	Hastelloy C276+CS Clad Plates	ASTM B575 UNS10276+ ISO 2062 E250, Grade BR/ ASTM A36/ ASME SA36	2+7, 2+10, 2+12, 2+14, 2+16, 2+18, 2+20, 2+32	ASME SA 265, ASTM B575, ASTM A36
11	Tata Projects Limited	NTPC Tamilnadu Energy Co. Ltd.	Flue Gas Desulphurisation Talcher-100048 STPS, Stage I & II (2x500MW+4x500MW)	印度 India	2020-2021	955	Hastelloy C276+CS Clad Plates	ASTM B575 UNS10276+ ISO 2062 E250, Grade BR/ ASTM A36/ ASME SA36	2+7, 2+10, 2+12, 2+14, 2+16, 2+18, 2+20, 2+32	ASME SA 265, ASTM B575, ASTM A36
12	Ferrofab FZE	Abu Dhabi National Oil Company (ADNOC)	HABSHAN-5 DE-BOTTLENECKING FOR ASSOCIATED GAS - EPC WORK ( CECC & TechnipFMC)	阿联酋 UAE	2020	500	Inconel 825+CS Clad Plates	ASTM B424 UNS N08825+SA 516 Gr. 70(NACE+HIC)	3.2+48, 3.2+56, 3.2+64, 3.2+70, 3.2+82, 4+16, 4+22, 4+56, 4+60, 4+68 & 4+76	ASME SA265, ASTM B424, ASME SA516
13	Mitsubishi Hitachi Power Systems India Pvt.ltd (MHPS)	National Thermal Power Corporation Limited (NTPC)	NTPC FGD 4x500 MW NTPC Rihand STPP, Stage-II & III, India	印度 India	2019-2020	1,100	Hastelloy C276+CS Clad Plates	ASTM B575 UNS10276+ ISO 2062 E250, Grade BR/ ASTM A36/ ASME SA36	2+8, 2+10, 2+12, 2+14	ASME SA 265, ASTM B575, ASTM A36
14	Mitsubishi Hitachi Power Systems India Pvt.ltd (MHPS)	National Thermal Power Corporation Limited (NTPC)	NTPC FGD 2x600 MW NTPC Mouda STPP, Stage-II & III, India	印度 India	2019-2020	690	Hastelloy C276+CS Clad Plates	ASTM B575 UNS10276+ ISO 2062 E250, Grade BR/ ASTM A36/ ASME SA36	2+10, 2+12, 2+14, 2+16, 2+18	ASME SA 265, ASTM B575, ASTM A36
15	Mitsubishi Power India Private Limited	National Thermal Power Corporation Limited (NTPC)	NTPC FGD 4x500 MW NTPC Rihand STPP, Stage-II & III, India	印度 India	2020-2021	100	Titanium+CS Clad Plates	ASTM B265 Gr.2+ASTM A36	2+7	ASTM B898, ASTM B265, ASTM A516
16	Mitsubishi Power India Private Limited	National Thermal Power Corporation Limited (NTPC)	NTPC FGD 2x600 MW NTPC Mouda STPP, Stage-II & III, India	印度 India	2020-2021	130	Titanium+CS Clad Plates	ASTM B265 Gr.2+ASTM A36	2+7	ASTM B898, ASTM B265, ASTM A516
17	Mitsubishi Power India Private Limited	National Thermal Power Corporation Limited (NTPC)	NTPC Farakka STPP Stage I, II & III (3x200 MW + 2x500 MW + 1x500 MW), FGD Package, India	印度 India	2020-2021	1,284	Hastelloy C276+CS Clad Plates	ASTM B575 UNS10276+ ISO 2062 E250, Grade BR/ ASTM A36/ ASME SA36	2+8, 2+10, 2+12, 2+14, 2+16, 2+18	ASME SA 265, ASTM B575, ASTM A36
18	Buhlmann Group	RAIZEN	BP/Shell AESA Refineria Buenos Aires Project	巴西 Brazil	2020	100	Stainless Steel+CS Clad Plates	S5316L+SA 516-60	3+15.9, 3+19.1, 3+22.2	ASME SA264
19	Wood Industries Public Co.,Ltd (WOOD)	Petroleos Del Peru Petroperu Sa (Petroperu)	Talara Refinery Modernization Project (PMRT)	西班牙 Spain	2019	30	Titanium+CS Clad Plates	ASTM B265 Gr.1+SA516.Gr.70N	5+88	ASTM B898, ASME SA 265, ASTM B575, ASTM A516
20	Bharat Heavy Electricals Ltd-Heavy Plates and Vessels Plant (BHEL-HPVP)	Hindustan Petroleum Corporation Limited (HPCL)	SRU Block (EPCC-7 Package) Visakh Refinery Modernisation Project HPCL Contract No. 18000129-OQ-46009 / Petrofac Job No. JI-2040HPCL	印度 India	2019	150	Stainless Steel+CS Clad Plates	S5316L+SA 516 Gr. 60(NACE+HIC)	3+14 & 3+17	ASME SA264, ASME SA516, ASME SA240
21	Bharat Heavy Electricals Ltd-Heavy Plates and Vessels Plant (BHEL-HPVP)	BHEL-HPVP	BHEL-HPVP Visakhapatnam Project	印度 India	2020	30	Stainless Steel+CS Clad Plates	S5304L+SA 516 Gr. 70	3+12 & 3+32	ASME SA264, ASME SA516, ASME SA240
22	Bharat Heavy Electricals Ltd (BHEL)	National Thermal Power Corporation Limited (NTPC)	NTPC-Power Plant Chimney Flue Liner-Ramagundam 2*660MW	印度 India	2018	950	Titanium+CS Clad Plates	ASTM B265 Gr.2+SA516.Gr.70	2+10 & 2+16	ASTM B898, ASTM B265, ASTM A516
23	Bharat Heavy Electricals Ltd (BHEL)	National Thermal Power Corporation Limited (NTPC)	NTPC-Power Plant Chimney Flue Liner-Rourkela 2*300MW	印度 India	2018	520	Titanium+CS Clad Plates	ASTM B265 Gr.2+SA516.Gr.70	2+10 & 2+16	ASTM B898, ASTM B265, ASTM A516



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复合板主要业绩 Major Client & Reference for Clad Metal Plates

Sr. No. 序号	Client/EPC (客户/工程公司)	End User 最终用户	Project (项目名称)	Site Location (项目地点)	Year of Supply (年份)	Quantity of Clad Plates for the Order (Tons) (总吨位)	Item Descriptions/Technical Parameters, Wall Thickness (产品描述/技术参数、厚度范围)			
							Item Descriptions (产品描述)	Material (材质)	Clad Plate Wall Thickness (mm) (复合板厚度)	Technical Parameters (技术参数)
24	Bharat Heavy Electricals Ltd (BHEL)	National Thermal Power Corporation Limited (NTPC)	NTPC-Power Plant Chimney Flue Liner-	印度 India	2018	80	Titanium+CS Clad Plates	ASTM B265 Gr.2+SA516.Gr.70	2+10 & 2+16	ASTM B898, ASTM B265, ASTM A516
25	Bharat Heavy Electricals Ltd (BHEL)	National Thermal Power Corporation Limited (NTPC)	NTPC-Power Plant Chimney Flue Liner-Haridwar FGD	印度 India	2018-2019	1,536	Titanium+CS Clad Plates	ASTM B265 Gr.2+SA516.Gr.70	2+10 & 2+16	ASTM B898, ASTM B265, ASTM A516
26	Bharat Heavy Electricals Ltd (BHEL)	National Thermal Power Corporation Limited (NTPC)	NTPC-Power Plant Chimney Flue Liner-Patratu 3*800MW	印度 India	2020	1,900	Titanium+CS Clad Plates	ASTM B265 Gr.2+SA516.Gr.70	2+8 & 2+12	ASTM B898, ASTM B265, ASTM A516
27	Bharat Heavy Electricals Ltd (BHEL)	National Thermal Power Corporation Limited (NTPC)	NTPC-Power Plant Chimney Flue Liner-Ranipet FGD	印度 India	2020-2021	1,337	Hastelloy C276+CS Clad Plates	ASTM B575 UNS10276+ ISO 2062 E250, Grade BR/ ASTM A36/ ASME SA36	2+7, 2+8, 2+12	ASME SA 265, ASTM B575, ISO 2062
28	Bharat Heavy Electricals Ltd (BHEL)	National Thermal Power Corporation Limited (NTPC)	NTPC-Power Plant Chimney Flue Liner-Haridwar FGD	印度 India	2020-2021	495	Titanium+CS Clad Plates	ASTM B265 Gr.2+SA516.Gr.70	2+8 & 2+12	ASTM B898, ASTM B265, ASTM A516
29	ISGEC Heavy Engineering LTD	Larsen & Toubro (L & T)	FS0004 2x660MW FGD Project THDC KHURJA	印度 India	2020-2021	460	Hastelloy C276+CS Clad Plates	ASTM B575 UNS10276 + ASTM A36	2+12, 2+14, 2+16, 2+18 & 2+20	ASME SA 265, ASTM B575, ASTM A36
30	ISGEC Heavy Engineering LTD	National Thermal Power Corporation Limited (NTPC)	NTPC-Power Plant Chimney Flue Liner-Kudgi 3*800MW	印度 India	2019-2020	450	Hastelloy C276+CS Clad Plates	ASTM B575 UNS10276+ ISO 2062 E250, Grade BR/ ASTM A36/ ASME SA36	2+8, 2+10, 2+12, 2+14 & 2+16	ASME SA 265, ASTM B575, ASTM A36
31	ISGEC Heavy Engineering LTD	National Thermal Power Corporation Limited (NTPC)	NTPC-Power Plant Chimney Flue Liner-Gadarwara 2*800MW	印度 India	2019-2020	350	Hastelloy C276+CS Clad Plates	ASTM B575 UNS10276+ ISO 2062 E250, Grade BR/ ASTM A36/ ASME SA36	2+8, 2+10, 2+12, 2+14 & 2+16	ASME SA 265, ASTM B575, ASTM A36
32	ISGEC Heavy Engineering LTD	National Thermal Power Corporation Limited (NTPC)	NTPC-Power Plant Chimney Flue Liner-Kudgi 3*800MW-DUCT	印度 India	2019-2020	80	Titanium+CS Clad Plates	ASTM B265 Gr.2+SA516.Gr.70	2+8	ASTM B898, ASTM B265, ASTM A516
33	ISGEC Heavy Engineering LTD	National Thermal Power Corporation Limited (NTPC)	NTPC-Power Plant Chimney Flue Liner-Gadarwara 2*800MW-DUCT	印度 India	2019-2020	60	Titanium+CS Clad Plates	ASTM B265 Gr.2+SA516.Gr.70	2+8	ASTM B898, ASTM B265, ASTM A516
34	ISGEC TITAN Metal Fabricators Pvt. Ltd	ISGEC TITAN Metal Fabricators Pvt. Ltd	Isgec Titan Metal Fabricators Pvt. Ltd. Yamuna Nagar-135001 (Haryana),India Project	印度 India	2021	3	Titanium+CS Clad Plates	ASME SB 265 GR 12+ASME SA 105N	5+26, 5+31 & 5+50	ASTM B898, ASTM B265, ASTM A105
35	ISGEC TITAN Metal Fabricators Pvt. Ltd	ISGEC TITAN Metal Fabricators Pvt. Ltd	Isgec Titan Metal Fabricators Pvt. Ltd. Yamuna Nagar-135001 (Haryana),India Project	印度 India	2021	9	Titanium+LTCS Clad Plates	ASME SB 265 GR 12+ASME SA350 LF2 Cl.1	10+50, 10+58 & 10+68	ASTM B898, ASME SB265, ASME SA350 LF2
36	Larsen & Toubro Heavy Engineering (L & T)	Larsen & Toubro Heavy Engineering (L & T)	FGD (Flue Gas Desulphurization) Package	印度 India	2018	200	Titanium+CS Clad Plates	ASTM B265 Gr. 2+ASTM A36	3+62, 4+38	IS 2062/ A36, ASTM A265, ASTM B265, ASTM B898
37	Larsen & Toubro Heavy Engineering (L & T)	Sohar Industrial Port Company (SIPC)	Works: 39 SIPC Farabi Oman	阿曼 Oman	2017	150	Stainless steel+CS Clad Plates	SA240M TP304L+SA387 GR.11 CL.2	4+38 & 3+62	ASTM B898, ASME SA240M, ASME SA387
38	THERMAX LIMITED	THERMAX LIMITED	COOLING & HEATING DIVISION	印度 India	2016-2017	500	Titanium+CS Clad Tube Sheets	ASTM B265 Gr.2+SA 516 Gr. 70	3+50, 4+50	ASTM B898, ASTM B265, ASME SA263, ASME SA516
39	天津国际现代设备有限公司 Tianjin International Modern Equipment CO.,Ltd (TIMEC)	特诺恩-洛伊 TENOVA-LOI	特诺恩锅炉 TENOVA-LOI Boiler Project	意大利 Italy	2017-2018	38	Copper+CS Clad Plates	TU1+Q245R	10+25	ASTM B432
40	BUTTING	山东太阳纸业 Shandong Sun Holdings Group	山东太阳纸业老挝项目 Forest-Pulp-Paper Integration Project	老挝 Laos	2017	800	Stainless Steel+CS Clad Plates	304L+SA516 GR70	3+12, 3+14, 3+16 & 3+18	ASME SA264, ASME SA516, ASME SA240
41	大岷集团有限公司 Mountop Group CO., Ltd	越南和发格精钢铁股份有限公司 Hoa Phat Dung Quat Steel Joint Stock Company	越南钢厂烟肉 Hoa Phat Dung Quat Steel Plant Chimney	越南 Vietnam	2018-2019	124	Titanium+CS Clad Plates	TA2+Q235B	1.5+10, 1.5+12 & 1.5+14	ASTM B898, ASTM B265
42	山东省显通安装有限公司 Shandong Xiantong Installation CO., Ltd	山东太阳纸业 Shandong Sun Holdings Group	山东太阳纸业老挝项目 Forest-Pulp-Paper Integration Project	老挝 Laos	2018	560	Stainless Steel+CS Clad Plates	304L+Q235B	2+6, 2+8, 2+10, 2+12, 2+14, 2+16, 2+18, 2+20 & 2+24	ASME SA264
43	上海电力建设工程公司 Shanghai Power Civil Construction Company	菲律宾GNPD电厂 GNPower Ltd. Co. (GNPower)	菲律宾GNPD电厂项目 GNPower Dinginon Power Station(GNPD)	菲律宾 Philippines	2018	226	Stainless Steel+CS Clad Plates	304+Q345B	4+12	ASME SA264
44	HG Construction CO.,Ltd	台湾正隆纸业 Cheng Loong Corporation (CLC)	台湾正隆纸业越南项目 CLC Vietnam Project	越南 Vietnam	2017	453	Stainless Steel+CS Clad Plates	304+Q235B & 304+Q345R	2+8, 2+10, 2+12, 2+16 & 2+20	ASME SA264
45	曙齐实业(上海)有限公司 Shu Qi Industrial (Shanghai) CO., Ltd	山东太阳纸业 Shandong Sun Holdings Group	太阳纸业海外项目纸浆塔 Forest-Pulp-Paper Integration Project	老挝 Laos	2017	162	Stainless Steel+CS Clad Plates	304L+Q235B	2+6, 2+8, 2+10, 2+12, 2+14, 2+16, 2+18 & 2+20	ASME SA264
46	山东显通安装有限公司 Shandong Xiantong Installation CO., Ltd	山东太阳纸业 Shandong Sun Holdings Group	山东太阳纸业老挝项目 Forest-Pulp-Paper Integration Project	老挝 Laos	2017	830	Stainless Steel+CS Clad Plates	304L+Q235B	2+10, 2+12, 2+14, 2+18, 2+20, 2+24 & 2+30	ASME SA264
47	上海申焯新材料技术有限公司 CSM-TECH CO.,Ltd	芬兰安德里茨有限公司 ANDRITZ Oy in Finland	北欧芬兰造纸厂自备热电厂 Andritz Finland Paper Mill Self-heating Thermal Equipment Project	芬兰 Finland	2015	320	Titanium+CS Clad Plates	SA265 GR1+P355NL.2	3+12 & 3+20	ASTM B898, ASTM B265
48	上海申焯新材料技术有限公司 CSM-TECH CO.,Ltd	Isotherm Technologies Inc.	Isotherm Project	美国 U.S.A	2019	2	Titanium+CS Clad Tube Sheets & Titanium+CS Clad Plates	ASME SB265 Gr. 1+SA516.Gr.70	6.35+31.75	ASTM B898, ASME SB265, ASME SA516
49	上海申焯新材料技术有限公司 CSM-TECH CO.,Ltd	Isotherm Technologies Inc.	Isotherm Project	美国 U.S.A	2018	5	Titanium+CS Clad Tube Sheets & Titanium+CS Clad Plates	ASME SB265 Gr. 1+SA516.Gr.70	6.35+31.75	ASTM B898, ASME SB265, ASME SA516



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复合板主要业绩 Major Client & Reference for Clad Metal Plates

Sr. No. 序号	Client/EPC (客户/工程公司)	End User 最终用户	Project (项目名称)	Site Location (项目地点)	Year of Supply (年份)	Quantity of Clad Plates for the Order (Tons) (总吨位)	Item Descriptions/Technical Parameters, Wall Thickness (产品描述/技术参数、厚度范围)			
							Item Descriptions (产品描述)	Material (材质)	Clad Plate Wall Thickness (mm) (复合板厚度)	Technical Parameters (技术参数)
50	上海申焯新材料技术有限公司 CSM-TECH CO.,Ltd	Isotherm Technologies Inc.	Isotherm Project	美国 U.S.A	2018	4	Titanium+CS Clad Tube Sheets	ASME SB265 Gr. 1+SA516.Gr.70	6.35+31.75	ASTM B898, ASME SB265, ASME SA516
51	上海申焯新材料技术有限公司 CSM-TECH CO.,Ltd	Isotherm Technologies Inc.	Isotherm Project	美国 U.S.A	2017	2	Titanium+CS Clad Tube Sheets	ASME SB265 Gr. 1+SA516.Gr.70	6.35+31.75	ASTM B898, ASME SB265, ASME SA516
52	上海申焯新材料技术有限公司 CSM-TECH CO.,Ltd	经销商 Distributor	经销商 Distributor	出口 Exported	2017	30	Inconel+CS Clad Plates, Inconel+AS Clad Plates, Copper+CS Clad Plates, Stainless Steel+CS Clad Plates, Inconel+CS Clad Tube Sheets & Copper+CS Clad Tube Sheets	ASTM B443 UNS N06625+A516 Gr.70, ASTM B443 UNS N06625+ASTM 387 Gr.11, ASTM B171 C71500+A516 Gr.70, ASTM A240 TP316L+ASTM 387 Gr.11	3+10, 3+13, 3+22, 3+23, 3+25, 3+30, 4+10 & 4+30	ASME SA265, ASTM B443, ASME SA516
53	上海申焯新材料技术有限公司 CSM-TECH CO.,Ltd	经销商 Distributor	经销商 Distributor	西班牙 Spain	2017	10	Titanium+CS Clad Tube Sheets & Copper+CS Clad Tube Sheets	ASME SB265 Gr. 1+SA516.Gr.70 & ASME SB171 C70600+SA516.Gr.70	4+40, 10+40, 4+45, 10+50, 10+60	ASTM B898, ASME SB265, ASME SB171, ASME SA516
54	上海申焯新材料技术有限公司 CSM-TECH CO.,Ltd	经销商 Distributor	经销商 Distributor	捷克 CZECH	2018	20	Stainless Steel+AS Clad Head	ASTM A240 316L+EN10028-2 P265GH	2.5+18	ASME SA264, ASME SA240, EN10028-2
55	上海申焯新材料技术有限公司 CSM-TECH CO.,Ltd	经销商 Distributor	经销商 Distributor	摩洛哥 Morocco	2018	9	Titanium+CS Clad Tube Sheets	ASME SB265 Gr. 2+SA516.Gr.70	10+80	ASTM B898, ASME SB265, ASME SA516
56	上海申焯新材料技术有限公司 CSM-TECH CO.,Ltd	TEMA india	TEMA Project	印度 India	2018	10	Titanium+CS+Titanium Clad Tube Sheets	ASME SB265 Gr. 1+SA516.Gr.70+ SB265 Gr. 12	2+50+6	ASTM B898, ASME SB265, ASME SA516
57	上海申焯新材料技术有限公司 CSM-TECH CO.,Ltd	Alfa Laval India LTD	Alfa Laval Project	印度 India	2015	11	Titanium+CS Clad Tube Sheets	ASME SB265 Gr. 12+SB265 Gr. 1+SA516.Gr.70	6+2+50	ASTM B898, ASME SB265, ASME SA516
58	上海申焯新材料技术有限公司 CSM-TECH CO.,Ltd	Alfa Laval India LTD	Alfa Laval Project	印度 India	2016-2018	19	Titanium+CS Clad Tube Sheets	ASME ASME SB265 Gr. 12+SB265 Gr. 1+SA516.Gr.70 & ASME SB265 Gr. 2+SA516.Gr.70	6+2+50	ASTM B898, ASME SB265, ASME SA516
59	上海申焯新材料技术有限公司 CSM-TECH CO.,Ltd	经销商 Distributor	经销商 Distributor	巴西 Brazil	2017	2	Titanium+CS Clad Tube Sheets	ASTM B265 Gr. 7+A516.Gr.70	10+40	ASTM B898, ASTM B265, ASTM A516
60	上海申焯新材料技术有限公司 CSM-TECH CO.,Ltd	Petrobras	Muller Metais Industria E Com. LTDA Fabricator Project	巴西 Brazil	2016	53	Alloy Steel U Tube & Tube Sheet	ASTM A213 T5, ASTM A182 F12 CL 2	19.05X2.108AWX6096 & 1625x250	ASTM A213, ASTM A182
61	上海申焯新材料技术有限公司 CSM-TECH CO.,Ltd	Equipromex. S.A.DE C.V	Equipromex Project	欧洲 Europe	2015	10	Duplex Stainless Steel+CS Clad Tube Sheets	ASTM A240 S31803 + SA516 Gr.70	3.175+60	ASME SA264, ASME SA240, ASME SA516
62	上海申焯新材料技术有限公司 CSM-TECH CO.,Ltd	Allia	Allia Project	欧洲 Europe	2015	270	Stainless Steel+CS Clad Plates	ASME SA240 304L+EN10028-2 P355GH	3+70	ASME SA264, ASME SA240, EN10028-2
63	上海申焯新材料技术有限公司 CSM-TECH CO.,Ltd	Sasol	Sasol Project	南非 South Africa	2013	10	Stainless Steel Clad Tube Sheet	A182 F316L	1300x55, 1600x66	ASTM A182
64	上海申焯新材料技术有限公司 CSM-TECH CO.,Ltd	Mittal Group	Mittal Project	欧洲 Europe	2012	16	Titanium+CS Clad Tube Sheets	ASTM B265 Gr.2+SA516.Gr.70	6+80	ASTM B898, ASTM B265, ASTM A516
65	扬州广瑞 Yangzhou Guangri Electric Equipment Manufacturing Co., Ltd	扬州广瑞 Yangzhou Guangri Electric Equipment Manufacturing Co., Ltd	扬州广瑞项目 Yangzhou Guangri Project	中国 China	2015-2017	10	Tantalum+Titanium+SS Clad Plates	Ta1+TA1+304	3+2+20	
66	常州震丹化工设备有限公司 Changzhou Zhengdan Chemical Equipments Co.,Ltd	常州震丹化工设备有限公司 Changzhou Zhengdan Chemical Equipments Co.,Ltd	常州震丹项目 Changzhou Zhengdan Project	中国 China	2014	8	Hastelloy C276+CS Clad Plates	C276+Q345R	3+18, 4+18	ASME SA 265, ASTM B575
67	烟台国邦化工机械科技有限公司 Yantai Guobang Chemical Machine Technology Co., Ltd	烟台国邦化工机械科技有限公司 Yantai Guobang Chemical Machine Technology Co., Ltd	烟台国邦项目 Yantai Guobang Project	中国 China	2014	2	Hastelloy C276+CS Clad Tube Sheets	C276+Q345R	6+25	ASME SA 265, ASTM B575
68	常熟山崎化工设备有限公司 Changshu Yamazaki Petrochemical Equipment Co.,Ltd	常熟山崎化工设备有限公司 Changshu Yamazaki Petrochemical Equipment Co.,Ltd	常熟山崎项目 Yamazaki Project	中国 China	2014	2	Hastelloy C276+SS Clad Tube Sheets	C276+304	6+25	ASME SA 265, ASTM B575
69	江苏黄海农药化工有限公司 Jiangsu Huanghai Pesticide Chemical Industry Co.,Ltd	江苏黄海农药化工有限公司 Jiangsu Huanghai Pesticide Chemical Industry Co.,Ltd	江苏黄海农药项目 Jiangsu Huanghai Pesticide Chemical Project	中国 China	2014	2	Hastelloy C276+SS Clad Tube Sheets	C276+S321	5+30	ASME SA 265, ASTM B575
70	浙江诚信医化设备有限公司 Zhejiang Chengxin Pharm& Chem Equipment Co.,Ltd	浙江诚信医化设备有限公司 Zhejiang Chengxin Pharm& Chem Equipment Co.,Ltd	浙江诚信项目 Zhejiang Chengxin Project	中国 China	2015	2	Hastelloy C276+CS Clad Plates	C276+Q345R	3+12	ASME SA 265, ASTM B575
71	江苏江风泵业有限公司 Jiangsu Jiangfeng Pump Co.,Ltd	江苏江风泵业有限公司 Jiangsu Jiangfeng Pump Co.,Ltd	江苏江风泵业项目 Jiangsu Jiangfeng Pump Project	中国 China	2015	6	Hastelloy C276+CS Clad Plates	C276+Q235B	2+10	ASME SA 265, ASTM B575





## 江苏润邦新材料集团有限公司 Jiangsu Runbang Clad Metal Material Co.,Ltd

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### 复合板主要业绩 Major Client & Reference for Clad Metal Plates

Sr. No. 序号	Client/EPC (客户/工程公司)	End User 最终用户	Project (项目名称)	Site Location (项目地点)	Year of Supply (年份)	Quantity of Clad Plates for the Order (Tons) (总吨位)	Item Descriptions/Technical Parameters, Wall Thickness (产品描述/技术参数、厚度范围)			
							Item Descriptions (产品描述)	Material (材质)	Clad Plate Wall Thickness (mm) (复合板厚度)	Technical Parameters (技术参数)
72	浙江金福隆化工设备有限公司 Zhejiang Jinfulong Chemical Equipments Co.,Ltd.	浙江金福隆化工设备有限公司 Zhejiang Jinfulong Chemical Equipments Co.,Ltd.	浙江金福隆项目 Zhejiang Jinfulong Project	中国 China	2016	2	Hastelloy C276+CS Clad Plates & Hastelloy C276+CS Clad Tube Sheets	C276+Q345R	3+10	ASME SA 265, ASTM B575
73	盛尼克能源环保技术(重庆)有限公司 Sunic Energy & Environment Technologies (Chongqing) Co.,Ltd	盛尼克能源环保技术(重庆)有限公司 Sunic Energy & Environment Technologies (Chongqing) Co.,Ltd	盛尼克项目 Sunic Project	中国 China	2016	14	Hastelloy C276+CS Clad Plates	C276+Q345R	2+8	ASME SA 265, ASTM B575
74	托普工业(江苏)有限公司 TopIndustry(Jiangsu) Co.,Ltd.	托普工业(江苏)有限公司 TopIndustry(Jiangsu) Co.,Ltd.	托普项目 Top Project	中国 China	2016	6	Hastelloy C276+CS Clad Plates & Hastelloy C276+CS Clad Tube Sheets	C276+Q345R	4+8, 4+14	ASME SA 265, ASTM B575
75	无锡汇创金属材料有限公司 Wuxi Huichuang Material Co.,Ltd	无锡汇创金属材料有限公司 Wuxi Huichuang Material Co.,Ltd	无锡汇创项目 Wuxi Huichuang Project	中国 China	2016	2	Hastelloy C276+SS Clad Tube Sheets	C276+304	3+10	ASME SA 265, ASTM B575
76	常州奥凯干燥设备有限公司 Changzhou Aokai Drying Equipment Co.,Ltd	常州奥凯干燥设备有限公司 Changzhou Aokai Drying Equipment Co.,Ltd	奥凯项目 Aokai Project	中国 China	2017	4	Hastelloy C276+CS Clad Plates	C276+Q235B	3+12	ASME SA 265, ASTM B575
77	江苏沙家浜医药化工装备股份有限公司 Jiangsu Shajiabang Pharmaceutical Chemical Equipment Co., Ltd (SJB)	江苏沙家浜医药化工装备股份有限公司 Jiangsu Shajiabang Pharmaceutical Chemical Equipment Co., Ltd (SJB)	沙家浜医药化工装备 SIB Project	中国 China	2018	3	Hastelloy C276+SS Clad Tube Sheets	C276+S30408	3+14, 3+18, 3+20	ASME SA 265, ASTM B575
78	江苏沙家浜医药化工装备股份有限公司 Jiangsu Shajiabang Pharmaceutical Chemical Equipment Co., Ltd (SJB)	江苏沙家浜医药化工装备股份有限公司 Jiangsu Shajiabang Pharmaceutical Chemical Equipment Co., Ltd (SJB)	沙家浜医药化工装备 SIB Project	中国 China	2018	92	Stainless Steel+CS Clad Plates	S31603+Q345R	3+12	ASME SA264
79	中国铝业集团有限公司 Aluminum Corporation of China Limited (CHALCO)	中国核工业集团有限公司 China National Nuclear Corporation (CNNC)	甘肃秦山核电站项目 Gansu Qinshan Nuclear Power Plant Project	中国 China	2017	300	Titanium+CS Clad Plates	TA2+Q235B	1.2+10 & 1.2+12	ASTM B898, ASTM B265
80	四川科华石油化工设备工程有限公司 Sichuan Kehua Petro-chemical Equipment & Engineering CO. Ltd	新疆特变电工集团有限公司 TEBA Ltd	新疆特变电工储罐 Teba Storage Tank	中国 China	2017	124	Titanium+CS Clad Plates	S31008+Q345R	2+10	ASTM B898, ASTM B265
81	山东阳光天润化工设备有限公司 Shandong Sunshine Tianrun Chemical Equipment CO., LTD	阳光盛华集团 Sunshine Shenhua Group	山东阳光焦化 Coke Plant Project	中国 China	2015-2016	150	Stainless Steel+CS Clad Plates	316L+Q235B	2.5+7.5, 2.5+9.5 & 2.5+13.5	ASME SA264
82	安徽天涛钢铁有限公司 Anhui Tiantao Iron & Steel Co., Ltd	中国能源建设集团有限公司 China Energy Engineering Group Co., Ltd (CEEC)	中能建贵州六盘水项目 CEEC Guizhou Liupanshui Colliery Construction Project	中国 China	2016	310	Stainless Steel+CS Clad Plates	06Cr18Ni11Ti+Q345B	3+10	ASME SA264
83	山西铎亿节能环保科技股份有限公司 Shanxi Duoyihe Energy Conservation and Environmental Protection Technology CO.,Ltd	阳光盛华集团 Sunshine Shenhua Group	山东阳光焦化 Coke Plant Project	中国 China	2016	120	Stainless Steel+CS Clad Plates	316L+Q235B	2+8, 2+10 & 2+14	ASME SA264
84	江苏恒茂机械制造有限公司 Jiangsu Hengmao Machinery Manufacturing CO., Ltd	中海石油 China National Offshore Oil Corporation (CNOOC)	惠州炼化 Huizhou Refinery Project	中国 China	2016-2017	105	Stainless Steel+CS Clad Plates	S31603+Q345R	2+8, 2+10, 2+12, 2+16 & 2+20	ASME SA264
85	萍乡市华星化工设备填料有限公司 Pingxiang Huaxing Chemical Equipment Filler CO., Ltd	山西焦化集团 Shanxi Coking Coal Group CO., Ltd	山西益隆焦化 Yilong Coke Plant Project	中国 China	2017	173	Stainless Steel+CS Clad Plates	316L+Q235B	2+8, 3+10, 3+14, 3+12 & 3+16	ASME SA264
86	中京建设集团有限公司 Zhongjing Construction Group CO. Ltd	山西阳光焦化集团 Shanxi Sunlight Coking Group Co., Ltd	山西阳光集团脱硫塔 Shanxi Sunlight Coking Group Desulfurization Tower Project	中国 China	2017	184	Stainless Steel+CS Clad Plates	S30408+Q245R	3+17, 3+15, 3+13, 2+14, 3+11, 3+9 & 2+6	ASME SA264
87	扬州庆松化工设备有限公司 Yangzhou Qingsong Chemical Equipment CO., Ltd	浙江华友钴业股份有限公司 Zhejiang Huayou Cobalt Co., Ltd	浙江华友钴业污水处理设备 Zhejiang huayou cobalt heavy metal sewage treatment project	中国 China	2017	480	Stainless Steel+CS Clad Plates	S31603+Q345R	2+10	ASME SA264
88	中钢集团天澄环保科技股份有限公司 Sinosteel Tiancheng Environmental Protection Science Technology CO., Ltd	宁夏宝塔石化集团 Ningxia Baota Petrochemical Group Co. Ltd	宁夏宝塔石化项目 Ningxia Baota Petrochemical Group Project	中国 China	2017	173	Stainless Steel+CS Clad Plates	316L+Q235B	3+8, 3+18, 3+16, 3+14, 3+12, 3+10 & 3+8	ASME SA264
89	山东联盟化工股份有限公司 Shandong Lianmeng chemical industry CO., Ltd	山东联盟化工股份有限公司 Shandong Lianmeng Chemical Group CO., Ltd	联盟化工脱硫塔 Lianmeng Chemical Desulfurization Tower Project	中国 China	2017-2018	170	Stainless Steel+CS Clad Plates	S32205+Q235	2+6, 2+8, 3+10, 3+8 & 3+10	ASME SA264
90	China National ChemicalEngineering No. 16 Construction Co., Ltd. (CNCEC No. 16) 中国化学工程第十六建设有限公司	Xinjiang Tianye (Group) Co., Ltd 新疆天业(集团)有限公司	新疆天业储罐 Xinjiang Tianye Storage Tank Project	中国 China	2018	486	Stainless Steel+CS Clad Plates	S30408+Q245R	2+6, 2+8, 2+10, 2+12, 2+14 & 2+18	ASME SA264
91	扬州通扬化工设备有限公司 Yangzhou Tongyang Chemical Equipment CO. Ltd	攀枝花钢铁(集团)公司 Panzhihua Iron & Steel (Group) CO., Ltd	攀枝花钢铁脱硫塔 Panzhihua Iron & Steel Desulfurization Tower Project	中国 China	2018	179	Stainless Steel+CS Clad Plates	S30408+Q345R	2+8, 2+10, 2+12, 2+16, 2+20 & 2+28	ASME SA264
92	China National ChemicalEngineering No. 13 Construction Co., Ltd. (CNCEC No. 13) 中国化学工程第十六建设有限公司	Xinjiang Tianye (Group) Co., Ltd 新疆天业(集团)有限公司	新疆天业储罐 Xinjiang Tianye Storage Tank Project	中国 China	2018	560	Stainless Steel+CS Clad Plates	S30408+Q245R & S30403+Q245R	2+6, 2+8, 2+10, 2+12, 2+14 & 2+16	ASME SA264
93	江苏迈克化工机械有限公司 Jiang Su Mike Chemical Machinery Co., Ltd	阳光盛华集团 Sunshine Shenhua Group	山东阳光焦化 Coke Plant Project	中国 China	2018	230	Stainless Steel+CS Clad Plates	S31603+Q345R	3+10, 3+12, 3+14 & 3+16	ASME SA264



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复合板主要业绩 Major Client & Reference for Clad Metal Plates

Sr. No. 序号	Client/EPC (客户/工程公司)	End User 最终用户	Project (项目名称)	Site Location (项目地点)	Year of Supply (年份)	Quantity of Clad Plates for the Order (Tons) (总吨位)	Item Descriptions/Technical Parameters, Wall Thickness (产品描述/技术参数、厚度范围)			
							Item Descriptions (产品描述)	Material (材质)	Clad Plate Wall Thickness (mm) (复合板厚度)	Technical Parameters (技术参数)
94	长兴旗滨玻璃有限公司 Changxing Kibing Glass CO., Ltd	长兴旗滨玻璃有限公司 Changxing Kibing Glass CO., Ltd	旗滨浙江2*600MW项目 Kibing Zhejiang 2*600MW Project	中国 China	2013-2014	670	Titanium+CS Clad Plates	TA2+Q235B	1.2+10, 1.2+12, 1.2+14 & 1.2+16	ASTM B898, ASTM B265
95	湖南省第三工程有限公司 Hunan No.3 Engineering CO., Ltd	株洲醴陵旗滨玻璃有限公司 Zhuzhou Liling Kibing Glass CO., Ltd	株洲醴陵旗滨玻璃有限公司 Kibing Glass Factory Relocation Chimney Project	中国 China	2014	287.1	Titanium+CS Clad Plates	TA2+Q235B	1.2+8	ASTM B898, ASTM B265
96	江苏天目建设集团有限公司 Jiangsu Tianmu Construction Group CO., Ltd	天津第一热电厂 Tianjin no.1 Thermal Power Plant	天津热电厂 Tianjin Power Plant Chimney Project	中国 China	2016	62.2	Titanium+CS Clad Plates	TA2+Q235B	1.2+8, 1.2+12 & 1.2+14	ASTM B898, ASTM B265
97	北京清新环境技术股份有限公司(徐州分公司) Beijing SPC Environment Protection Tech Company limited (Xuzhou Branch)	徐矿集团 Xuzhou Coal Mining Group	徐州贾汪电厂2*600MW项目 Xuzhou Jiawang Power Plant 2*600MW Project	中国 China	2016	565	Titanium+CS Clad Plates	TA2+Q235B	1.2+10, 1.2+8, 1.2+14 & 1.2+16	ASTM B898, ASTM B265
98	滕州市建筑安装工程集团公司 Tengzhou Construction and Installation Engineering Corporation	王晁煤电集团 Wang Chao Coal Electricity Group	王晁热电厂2*300MW项目 Wang Chao Coal Electricity Group 2*300MW Project	中国 China	2016	90	Titanium+CS Clad Plates	TA2+Q235B	1.2+8, 1.2+12 & 1.2+16	ASTM B898, ASTM B265
99	滕州市建筑安装工程集团公司 Tengzhou Construction and Installation Engineering Corporation	山东泰山钢铁集团有限公司 Shandong Taishan Iron & Steel Group CO., Ltd	泰山钢铁烟筒新建 Taishan Iron & Steel Group New Chimney Construction Project	中国 China	2016	116.11	Titanium+CS Clad Plates	TA2+Q235B	1.2+10, 1.2+12, 1.2+14 & 1.2+16	ASTM B898, ASTM B265
100	卫辉市新凯德建材有限公司 Weiwei Xinkaid Building Materials CO., Ltd	陕西商洛发电有限公司 Shaanxi Shangluo Power Plant CO., Ltd	陕西商洛沙河子烟筒新建 Shaanxi Shangluo Power Plant Shahezi New Chimney Construction Project	中国 China	2017	831	Titanium+CS Clad Plates	TA2+Q235B	1.2+10, 1.2+12, 1.2+14 & 1.2+16	ASTM B898, ASTM B265
101	中色十二冶金建设有限公司 China Non-ferrous Metals Industry's 12th Metallurgical Construction Co., LTD	中铝国际工程股份有限公司 China Aluminum International Engineering Corporation Limited (CHALIECO)	天水秦川热电新建烟筒 Tianshui Qinchuan Thermal Power New Chimney Construction Project	中国 China	2017	215	Titanium+CS Clad Plates	TA2+Q235B	1.2+10 & 1.2+12	ASTM B898, ASTM B265
102	连云港乐普化工设备有限公司 Lianyungang Leyu Chemical Equipment CO., Ltd	青海盐湖工业集团 Qinghai Salt Lake Industry Group Co., Ltd	盐湖集团炼化项目 Qinghai Salt Lake Industry Group Refining Project	中国 China	2017	120	Titanium+CS Clad Plates	TA2+Q345R	4+16 & 4+30	ASTM B898, ASTM B265
103	林森建设集团有限公司 Linsen Construction Group CO., Ltd	唐山阳光集团 Tangshan Sunshine Group	唐山阳光集团烟筒 Tangshan Sunshine Group New Chimney Construction Project	中国 China	2017	61	Titanium+CS Clad Plates	TA2+Q345R	1.2+6 & 1.2+8	ASTM B898, ASTM B265
104	江苏宏顺高空工程有限公司 Jiangsu Hongshun High Altitude Engineering CO., Ltd	浙江浙能电力股份有限公司 Zhejiang Zheneng Electric Power CO., Ltd	浙江热电厂改造 Zhejiang Thermal Power New Chimney Construction Project	中国 China	2018	170	Titanium+CS Clad Plates	TA2+Q235B	1.2+10 & 1.2+16	ASTM B898, ASTM B265
105	启东神农机械有限公司 Qidong Shennong Machinery CO., Ltd	浙江新和成 Zhejiang New Harmony Union Corporation CO., Ltd (NHU)	新和成项目 NHU Project	中国 China	2018	20	Titanium+SS Clad Plates	TA2+S31603	4+25, 4+30, 4+35 & 4+35	ASTM B898, ASTM B265
106	滕州市建筑安装工程集团有限公司 Tengzhou Construction & Installation Engineering Group CO., Ltd	菏泽润鑫热力有限公司 Heze Runxin Thermal Power CO., Ltd.	菏泽润鑫热力热电联产项目 Heze Runxin Thermal Power Cogeneration Project	中国 China	2018	126	Titanium+CS Clad Plates	TA2+Q235B	1.2+10, 1.2+12, 1.2+14 & 1.2+16	ASTM B898, ASTM B265
107	常州震丹化工设备有限公司 Changzhou Zhendan Chemical Equipment CO., Ltd	常州震丹化工设备有限公司 Changzhou zhendan chemical equipment CO., Ltd	经销商 Distributor	中国 China	2015	140	Titanium+CS Clad Plates	TA2+Q345R	3+10 & 3+12	ASTM B898, ASTM B265
108	靖江神驹压力容器制造有限公司 Jingjiang Shenju Pressure Vessel manufacturing CO., Ltd	靖江神驹压力容器制造有限公司 Jingjiang shenju pressure vessel manufacturing CO., Ltd	经销商 Distributor	中国 China	2015	130	Titanium+CS Clad Plates	TA2+Q345R	3+12	ASTM B898, ASTM B265
109	广州市腾实贸易有限公司	经销商 Distributor	经销商 Distributor	中国 China	2016	120	Stainless Steel+CS Clad Plates	304+Q235B	3+9	ASME SA264
110	重庆旗能电铝有限公司 Chongqing Energy Banner CO., Ltd	重庆旗能电铝有限公司 Chongqing Energy Banner CO., Ltd	重庆旗能电铝电厂项目 Chongqing Energy Banner Power plant DABANDING II 2*660MW project	中国 China	2012	782.4	Titanium+CS Clad Plates	TA2+Q235B	1.2+10, 1.2+12, 1.2+14 & 1.2+16	ASTM B898, ASTM B265
111	河南第一火电建设公司 Hean No.1 Thermal Power Construction Company	金辉集团 Radiance Group	金辉集团新疆电厂2*600MW项目 Radiance Group Xinjiang Power Plant 2*600MW Project	中国 China	2012	600	Titanium+CS Clad Plates	TA2+Q235B	1.2+10, 1.2+12, 1.2+14 & 1.2+16	ASTM B898, ASTM B265
112	河南四建股份有限公司 Hennan the No.4 Construction Joint-stock Company	山西古交发电厂 Shanxi Gujiao Power Plant	古交二期2x660MW(CFB)热电项目 Gujiao second phase of 2x660MW(CFB) thermal power Project	中国 China	2016	528.9	Titanium+CS Clad Plates	TA2+Q235B	1.2+8, 1.2+10, 1.2+12, 1.2+14 & 1.2+16	ASTM B898, ASTM B265
113	安徽山鹰纸业股份有限公司 Anhui Shanying Paper CO. Ltd	山鹰国际 Shanying international	安徽山鹰造纸厂2*200MW项目 Anhui Shanying Paper Mill 2*200MW Project	中国 China	2016	124	Titanium+CS Clad Plates	TA2+Q235B	1.2+6, 1.2+8 & 1.2+12	ASTM B898, ASTM B265
114	本溪钢铁(集团)第二建筑工程有限公司 Benxi Steel Group Corporation No.2 Construction Engineering CO. Ltd	本溪钢铁集团 Benxi Steel Group Corporation	本溪钢铁项目 Benxi Steel Project	中国 China	2016	171	Titanium+CS Clad Plates	TA2+Q235B	1.2+6, 1.2+8 & 1.2+12	ASTM B898, ASTM B265
115	兰州长征机械有限公司 Lanzhou Changzheng Machinery CO. Ltd	宁夏电力投资集团有限公司 Ningxia Power Investment Corporation	西夏热电厂2*600MW项目 Xixia Thermal Poer Plant 2*600MW Project	中国 China	2016	871	Titanium+CS Clad Plates	TA2+Q235B	1.2+10, 1.2+12, 1.2+14 & 1.2+16	ASTM B898, ASTM B265



江苏润邦新材料集团有限公司  
Jiangsu Runbang Clad Metal Material Co.,Ltd

地址:江苏省南京市浦口区星甸街道林河南路3号 邮编: 211803  
Address: No. 3, Linhe South Road, Xingdian Street, Pukou District, Nanjing City, Jiangsu Province, 211803, P. R. China  
电话TEL: 0086-25-58263888 传真FAX: 0086-25-58264266

复合板主要业绩 Major Client & Reference for Clad Metal Plates

Sr. No. 序号	Client/EPC (客户/工程公司)	End User 最终用户	Project (项目名称)	Site Location (项目地点)	Year of Supply (年份)	Quantity of Clad Plates for the Order (Tons) (总吨位)	Item Descriptions/Technical Parameters, Wall Thickness (产品描述/技术参数、厚度范围)			
							Item Descriptions (产品描述)	Material (材质)	Clad Plate Wall Thickness (mm) (复合板厚度)	Technical Parameters (技术参数)
116	湖南丰天科技有限公司 Hunan Yutian Technology CO., Ltd	湖南军信环保集团 Hunan Junxin Environmental Protection Group Co. Ltd.	湖南省垃圾处理厂项目 Hunan Trash Treatment Plant Project	中国 China	2016	1,020	Titanium+CS Clad Plates	TA2+Q345B	1.2+12, 1.2+14, 1.2+16, 1.2+18, 1.2+20 & 1.2+22	ASTM B898, ASTM B265
117	江苏大汉建设实业集团有限责任公司 Jiangsu Dahan Construction Industrial Group CO., Ltd	江苏大汉建设实业集团有限责任公司 Jiangsu Dahan Construction Industrial Group CO., Ltd	经销商 Distributor	中国 China	2017	105	Titanium+CS Clad Plates	TA2+Q235B	1.2+10, 1.2+12, 1.2+14, 1.2+16 & 1.2+18	ASTM B898, ASTM B265
118	力耀金属构件(南通)有限公司 Liyao Metal Components (Nantong) CO., Ltd	中天科技集团如东电气建设有限公司 ZTT Group Rudong Electric Construction CO. Ltd	中天科技集团如东电建项目 ZTT Group Rudong Electric Construction Project	中国 China	2017	279	Titanium+CS Clad Plates	TA2+Q235B	1.2+12, 1.2+14, 1.2+16 & 1.2+20	ASTM B898, ASTM B265
119	西安越登晟工贸有限公司 Xi'an Yue Deng Sheng Industry and Trade CO., Ltd	中国华能集团有限公司 China Huaneng Group Co., Ltd (CHNG)	狮泉河电厂2*250MW项目 Shiquanhe Power Plant 2*250MW Project	中国 China	2017	67.3	Titanium+CS Clad Plates	TA2+Q235B	1.2+12 & 1.2+14	ASTM B898, ASTM B265
120	天水市第一建筑工程公司 Tianshui No.1 Construction Co.,LTD	中国核工业集团有限公司 China National Nuclear Corporation (CNNC)	甘肃秦山核电站项目 Gansu Qinshan Nuclear Power Plant Project	中国 China	2017	76.8	Titanium+CS Clad Plates	TA2+Q235B	1.2+10 & 1.2+12	ASTM B898, ASTM B265
121	南通曙光机电工程有限公司 Nantong Shuguang Expansion Joint (chemical machinery) Manufacturing CO.,Ltd	南通曙光机电工程有限公司 Nantong Shuguang Expansion Joint (chemical machinery) Manufacturing CO.,Ltd	南通曙光机电工程项目 Nantong Shuguang Expansion Joint Project	中国 China	2017	170	Stainless Steel+CS Clad Plates	S31603+Q345R	3+12, 3+14 & 3+16	ASME SA264
122	浙江新安化工集团股份有限公司 Zhejiang Wynca Chemical Group Co.,Ltd	浙江新安化工集团股份有限公司 Zhejiang Wynca Chemical Group Co.,Ltd	浙江新安化工项目 Wynca Chemical Project	中国 China	2017	76	Stainless Steel+CS Clad Plates	S322053+Q345R	3+16	ASME SA264
123	江苏迈克化工机械有限公司 Jiangsu Mike Chemical Machinery CO., Ltd	江苏迈克化工机械有限公司 Jiangsu Mike Chemical Machinery CO., Ltd	经销商 Distributor	中国 China	2017-2018	48	Inconel+CS Clad Plates	Ni6+Q345R	4+14	ASME SA265
124	苏州乔发环保科技股份有限公司 Suzhou JoyFa Environmental Technology Corp	苏州乔发环保科技股份有限公司 Suzhou JoyFa Environmental Technology Corp	苏州乔发环境项目 Suzhou JoyFa Project	中国 China	2017-2018	84	Stainless Steel+CS Clad Plates	S22053+Q235B	2.3+8, 2.3+10 & 2.3+12	ASME SA264
125	张家港保税区鑫昌鸿金属制品有限公司 Zhangjiagang Free Trade Zone Xinchanghong Metal Products CO., Ltd	张家港保税区鑫昌鸿金属制品有限公司 Zhangjiagang Free Trade Zone Xinchanghong Metal Products CO., Ltd	经销商 Distributor	中国 China	2018	100	Stainless Steel+CS Clad Plates	S30408+Q245R	3+8, 3+10 & 3+12	ASME SA264
126	新乡市昊利达化工机械有限公司 Xinxiang Haolida Chemical Machine Co., Ltd	新乡市昊利达化工机械有限公司 Xinxiang Haolida Chemical Machine Co., Ltd	昊利达压机 Haolida Chemical Machine Project	中国 China	2018	92	Stainless Steel+CS Clad Plates	S30408+Q345R	3+14	ASME SA264
127	丹阳同泰化工机械有限公司 Danyang Tongtai Chemical Machinery CO., Ltd	丹阳同泰化工机械有限公司 Danyang Tongtai Chemical Machinery CO., Ltd	同泰压机 Tongtai Chemical Machinery Project	中国 China	2018	102	Stainless Steel+AS Clad Plates	S30403+15GrMoR	4+40, 4+50, 4+60 & 4+76	ASME SA264
128	无锡恒凯化工装备科技有限公司 Wuxi Hengkai Chemical Equipment Technology co. LTD	无锡恒凯化工装备科技有限公司 Wuxi Hengkai Chemical Equipment Technology co. LTD	经销商 Distributor	中国 China	2018-2019	50	Titanium+CS Clad Plates	TA2+Q345R	2+10, 3+10 & 3+12	ASTM B898, ASTM B265
129	赛得利(中国)纤维有限公司 Sateri (China) Fiber CO., Ltd	赛得利九江西电厂 SCN PI-Power Plant	赛得利九江西电厂一期项目 SCN PI-Power Plant Phase I Project	中国 China	2018-2019	424	Titanium+CS Clad Plates	TA2+Q235B	1.2+10, 1.2+12 & 1.2+14	ASTM B898, ASTM B265
130	北京龙源环保工程有限公司 Beijing Longyuan Environmental Engineering CO., Ltd	逸盛大化石化有限公司 Yisheng Dahua Petrochemical Co., Ltd	逸盛大化3*350t/h循环流化床热媒炉海水脱硫系统项目 Yisheng Dahua Seawater desulfurization system for 3*350t/h circulating fluidized bed boiler project	中国 China	2018-2019	430	Titanium+CS Clad Plates	TA2+Q345R	1.2+14, 1.2+16, 1.2+20, 1.2+22 & 1.2+24	ASTM B898, ASTM B265
131	兴润建设集团有限公司 Xingrun construction group CO., Ltd	元宝山发电有限责任公司 Yuanbaoshan Power Generation CO.,Ltd	元宝山电厂3号机组(600MW)烟筒防腐改造工程项目 Yuanbaoshan Power Pant 3*600MW No.3 Generating Unit	中国 China	2019	500	Titanium+CS Clad Plates	TA2+Q345R	1.2+10, 1.2+12, 1.2+14, 1.2+16 & 1.2+18	ASTM B898, ASTM B265





## CLAD METAL

Manufacture and Supply  
for Global Customers

为全世界客户制造提供复合材料

<http://www.runbang.com.cn>

### 江苏润邦新材料集团有限公司

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# C 公司简介

## Company Profile

江苏润邦新材料集团有限公司成立于2003年，由原南京润邦复合材料有限公司和南京润邦爆炸加工研究所组成，位于中国的十朝古都-南京市。是专业从事研发、生产金属复合材料的高新技术企业。公司注册资金5000万元人民币，注册地址南京市浦口区，占地面积达6万平方米。公司在安徽山区还建有四处爆炸焊接试验、生产基地，具备了年产3万吨各类大幅面金属复合板的生产能力。国内首家率先掌握3种复合工艺，包括爆炸复合、真空叠轧复合、爆炸+轧制复合，产品超过百种材料复合的高性能功能金属材料制造研发。

公司拥有完善的现代化厂房，以及先进的生产技术和检测设备，获得了由LR认证的ISO-9001质量体系认证、PED认证，以及由TUV认证的ISO-14001、ISO-45001环境、职业健康安全体系证书，并且通过了武器装备体系认证、中核管理体系认证以及由全国锅炉压力容器标准化委员会签发的压力容器用复合板安全注册认证。

公司注重吸引人才和技术交流，以三位博士为核心组建了技术和战略管理团队，并获准成立了“江苏省企业院士工作站”、“江苏省硬脆金属复合材料工程技术研究中心”、“南京市企业技术中心”；先后承担了国家火炬计划项目、省科技成果转化项目、南京市科技计划项目等科技创新项目20余项。被有关部门授予“南京市高新技术企业”、“江苏省高新技术企业”等荣誉称号，产品分别获得“南京市高新技术产品”、“江苏省高新技术产品”等荣誉称号。公司先后获得3项金属复合材料国家发明专利，牵头制定电力行业烟筒用钛钢复合板行业标准1项，拥有自主知识产权的国家专利40余项，成为我国同行业中，在生产、研发功能性金属复合材料加工工具/钢、大面积大厚度钢/钢、贵金属复合材料方面的骨干企业和主力军，其爆炸复合技术在国内处于领先地位。

公司拥有2个独立的大型野外爆炸场地，生产设备齐全，目前拥有数控等离子切割机、刨边机、大型自动焊接平台、埋弧焊机、库卡9轴焊接机器人、全自动抛光机、台车式热处理炉、油压机、三辊矫平机、七辊矫平机、十一辊矫平机、自动抛丸机等先进设备共计100多台/套。可加工成品复合板最大宽度4米，长度可至15米。公司主要产品为：以不锈钢-钢，铜-钢、铝-钢、钛-钢、镍-钢、锆-钢、钽-钢、工具钢-钢等各种材质的复合板、复合管板、复合封头、金属复合延伸产品的制造加工，产品规格国内最齐全。

公司在立足现有石油化工、冶金、电力、造纸、医药、船舶、海水淡化等行业的主要销售外，还着重切入核级产品等新兴行业的生产与销售。拥有自营进出口权，除国内市场外，产品还大量出口到美国、印度、阿曼、越南、老挝、韩国、南非、摩洛哥、巴西、捷克、芬兰、西班牙、意大利、等欧盟国家和中东地区。产品在印度以及欧洲地区口碑良好并销售年年增长，而且成为了通用电气公司国内金属复合板的唯一批准供应商。

“严格履约、信守诺言”是我公司加持的原则，“满足客户要求，超出客户期待”是我公司永恒不变的宗旨。先进的生产工艺，一流的生产检测设备，现代化的管理模式，高素质的员工队伍，高比例的技术人员，完善的售后服务，江苏润邦新材料集团有限公司热忱欢迎国内外用户来我公司考察、指导、洽谈业务，公司全体员工将竭诚为您提供最优质的服务。

Jiangsu Runbang Clad Metal Material Co., Ltd, established in 2003 year, consisted from Nanjing Runbang Clad Metal Materials CO., Ltd and Runbang Explosive Processing Research Institute. It is in Nanjing city, the capital of ten dynasties in Chinese history. The company is the high and new technology enterprise, specialized in the development and manufacturing of clad metal materials. With the total registered capital of RMB 50 Million, registered in Nanjing Pukou District, occupies a floor area of 60,000Sq. The company has 2 big explosive bases in southern of Anhui province for producing and experiment. It is suit of producing all kinds of big sizes cladding metal materials, the capacity more than 30,000 Tons/-Year and reliable products are based on the first company in domestic industry with three technologies of cladding method by explosion cladding / roll-bonding / explosion with rolling, over 100 combinations of material claddings options.

With the perfect modernizing workshop, as well as advanced produce technology and detecting equipment, obtained ISO-9001 Quality Assurance System Certificates and PED Certificates issued by LR, ISO-14001、ISO-45001 ESH System Certificate issued by TUV,China National Weapons & Military Supplies Quality System Certificate, China Nuclear Management System Certificate, and also passed the safe registered certificate of exploding clad metal plate issued by Chinese Standardized Committee of the Boiler and Pressure Vessel.

The company has always focused on attracting talent and technology communion, and set up core team of technology and strategy management around with 3 doctors, been approved to establish "Jiangsu Province Enterprise Academician Workstation", "Jiangsu Province Hard-brittle Metallic Composite Materials Engineering Research Center", "Nanjing Enterprise Technology Center". The company has undertaken National Torch Program Project, Jiangsu Provincial Science and Technology Achievements Transformation Project, Nanjing Science and Technology Program Project, and other more than 20 scientific and technological innovation projects. The company has been awarded by relevant authority the title as "Nanjing high and new technology enterprise", "Jiangsu high and new technology enterprise", the product gains honorary titles such as "Nanjing high and new technology product", "Jiangsu high and new technology product" respectively. Three Nation Invention Patents are gained about clad metal materials, drafted one Industry Standard DL/T 1590-2016 (Titanium Clad Metal Used In Coal-fired Power Plant Chimney) for China Power Industry, and owns more than 40 national patents of proprietary intellectual property rights, the company has become a key enterprise and main force of manufacturing research and development in Functional Clad Metal Materials such as Alloy Tool Steel-Steel, Big Area and Thickness Cooper-Steel and Precious Metal Clad Materials. The technology of explosive bonding is in the leading level in China.

The company has two big separated field explosive bases, with the completed manufacturing facilities, the company owns automatic plasma cutting machines, beveling machines, automatic welding platforms, submerged arc welding machines, KUKA 9 Axis robot welding, auto polishing machines, heat treatment furnaces, oil press machines, 3-roll leveling machines, 7-roll leveling machines, 11-roll leveling machines, automatic shot blasting machines and etc., more than 100 sets advanced equipment. Available maximum width can be up to 4 meters with maximum length 14 meters for clad plates. This company's product lines all series of Clad Plates, Clad Tube Sheets, Clad Heads, extension products of complete size metallic composites in material of Stainless Steel-Steel, Copper-Steel, Aluminum-Steel, Titanium-Steel, Nickel Base Alloy-Steel, Zirconium-Steel, Tantalum-Steel, Toll Steel-Steel and so on.

Based on existing market in petroleum and petrochemical, metallurgy, electric power, papermaking, shipbuilding, sea water desalination etc., the company is also emphatically involving in production and sales of burgeoning industry as nuclear power products. The company owns self-import & export rights, besides of domestic market, most of products have been exported to world-wide including USA, India, Oman, Vietnam, Laos, Korea, South Africa, Morocco, Brazil, Czech, Finland, Spain, Italy, the European Union, the Middle East and other countries and regions. With consecutive improvement of annual sales, this company has set a good brand image in market of India and Europe, and this company is also the unique approved Chinese supplier for clad metal plates in General Electric Company (GE).

"Strict comply, keep promise" is our consistent principle, "Meet customer demand, exceed customer expectation" is our eternal purpose. With advanced equipment and techniques, first-class production and testing equipment, modern management system, well trained employees team, high proportions of professional technologists, perfect after-sales service, we sincerely welcome customer from all over the world to visit our company for a sight appraisal, and we confident that Jiangsu Runbang Clad Metal Materials Co., Ltd will continue to provide customer with the high quality products and the full-after-sale service.



# 企业资质

Qualification of Runbang

## ISO三体系认证

ISO9001, ISO14001 & ISO 45001 System Certification



## 压力设备指令证书

PED Certification



## 武器装备质量体系认证

Weapons & Military Supplier Certificate



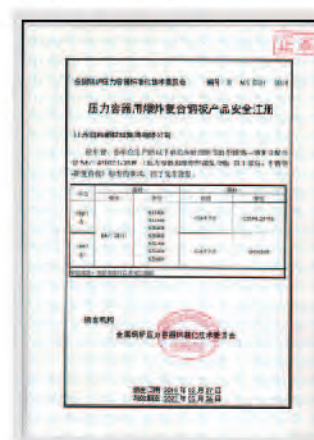
## 中核供应商证书

CNNC Approval Certificate



## 压力容器用爆炸钢板注册

Registration Certificate of Explosive Clad Plate for Pressure Vessel



## 企业荣誉

Enterprise Honors



## 公司拥有二十多项专利

The company has more than 20 patents





# M 主要客户

## Main References

公司产品广泛应用于石油化工、电厂、核电、造船、海水淡化、造纸、冶金、制药、机械等行业。润邦产品不仅供应国内市场，还出口到美国、印度、阿曼、越南、老挝、韩国、南非、摩洛哥、巴西、捷克、芬兰、西班牙、意大利、欧盟、中东等国家和地区。

The company product widely applies in the petrochemical, power plant, nuclear power, shipbuilding, sea water desalination, papermaking, metallurgy, pharmaceutical, machinery industries etc. Runbang products not only supply the domestic market, also export to USA, India, Oman, Vietnam, Laos, Korea, South Africa, Morocco, Brazil, Czech, Finland, Spain, Italy, the European Union, the Middle East and other countries and regions.



# R 团队实力

## Runbang Team Strength



☆ Prof. Shi Hesheng ☆  
史和生教授

Executive Chairmen of Runbang Group  
润邦集团董事长  
Professor-Nanjing University of Science and Technology  
南京理工大学教授  
PHD of NUST  
南京理工大学博士  
Founder of Runbang Group  
润邦集团创始人



☆ Prof. Feng Shuyu ☆  
冯叔瑜教授

Academician-China National Academy of Engineering  
中国工程院院士  
Leading experts and scientist of explosion engineering national wide  
国内爆炸工程领域的开拓者和领军人物



☆ Prof. Cai Qinwu ☆  
蔡庆伍教授

Professor-University of Science & Technology Beijing  
北京科技大学教授  
Dean-Faculty of Material USTB  
北京科技大学材料系主任



☆ Prof. Xie zhenjia ☆  
谢振家教授

Professor-University of Science & Technology Beijing  
北京科技大学教授  
PHD of Material Science of McMaster University  
加拿大麦克斯特大学材料科学博士



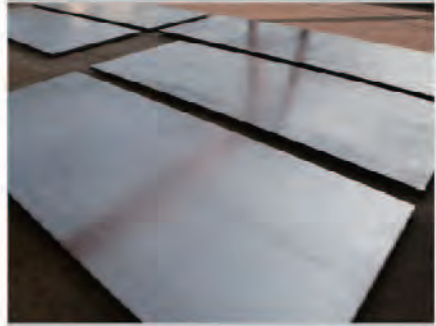
☆ Prof. Shi Changgen ☆  
史长根教授

Professor-Nanjing University of Science and Technology  
南京理工大学教授  
Founder of Runbang Group  
润邦集团创始人

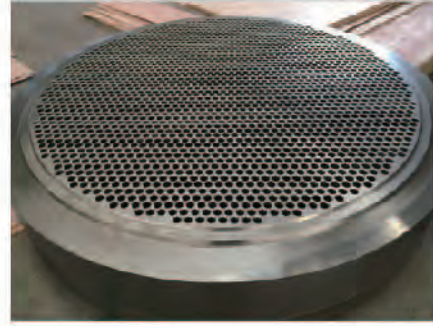


# P 产品范围

Product Introduction



Clad Plate  
复合板



Clad Tube Sheet  
复合管板



Clad Head  
复合封头

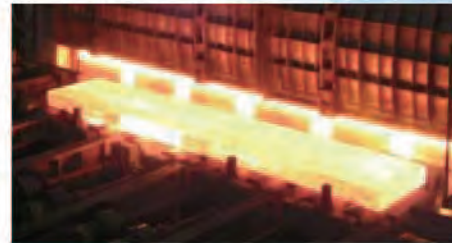
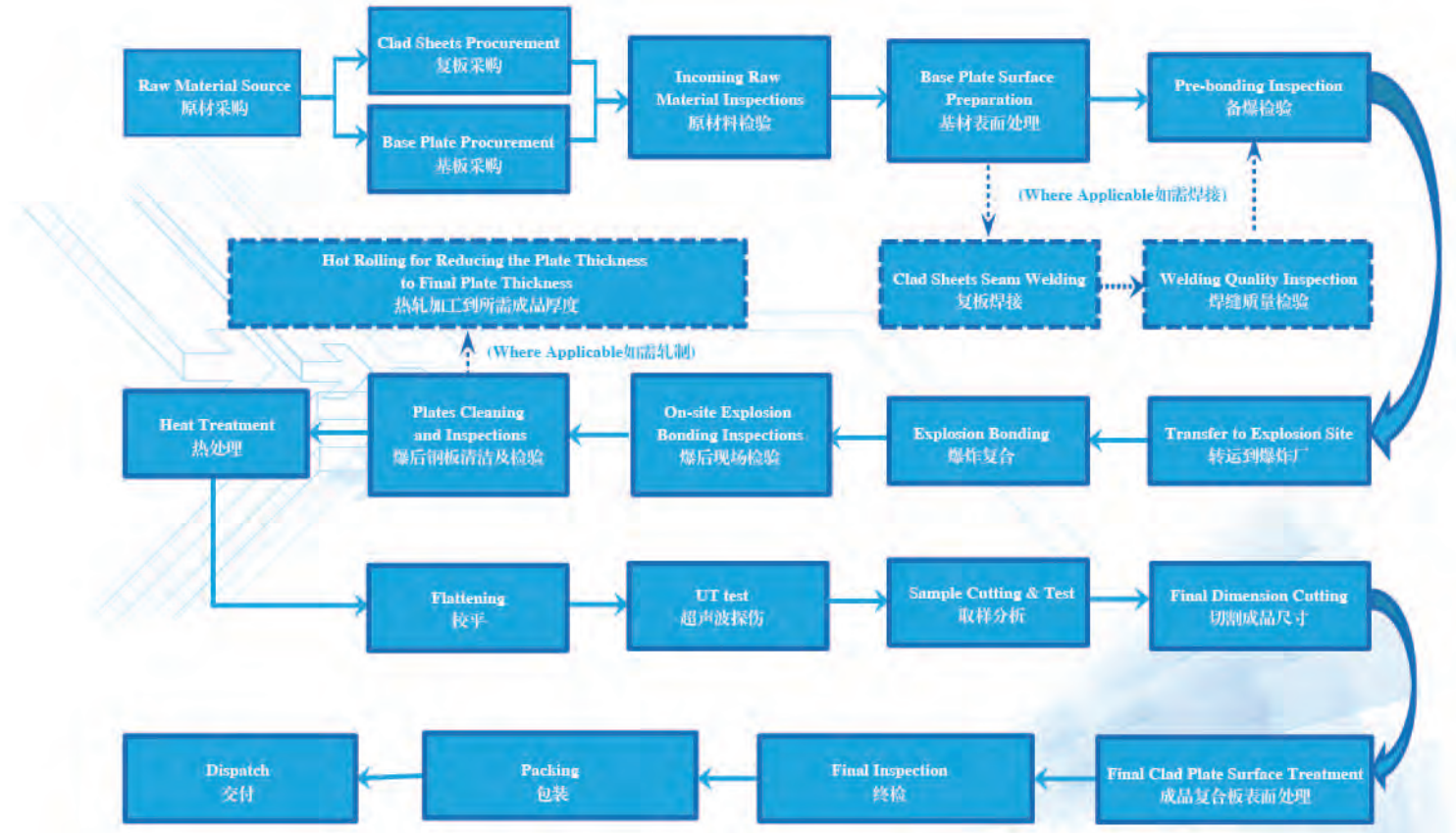
Type 钢种	Product 产品	Cladding Material 复层材质	Specification 技术规范	Manufacturing Method 制造方法	Size Range 尺寸范围
Titanium 钛材	Clad Plate 复合板	Gr.1, Gr.2, Gr.3, Gr.4, Gr.5, Gr.7, Gr.9, Gr.11, Gr.12, Gr.16 and etc.	ASTM B898	Explosion / Hot Rolling / Explosion + Rolling 爆炸/热轧/爆炸+轧制	L<15,000mm W<4,000mm
	Clad Head 复合封头			Hot Forming /Cold Forming 热成型/冷成型	φ<4,000mm
	Clad Tube Sheet 复合管板			Machining 机加工	φ<4,000mm
Stainless Steel & Duplex Stainless Steel 不锈钢、双相钢	Clad Plate 复合板	410S, 304/304L, 316/316L, 310/310S, 321, 347,317/317L, S31803, S32205, S32750, S32760 and etc.	ASTMA264	Explosion / Hot Rolling / Explosion + Rolling 爆炸/热轧/爆炸+轧制	L<15,000mm W<4,000mm
	Clad Head 复合封头			Hot Forming /Cold Forming 热成型/冷成型	φ<4,000mm
	Clad Tube Sheet 复合管板			Machining 机加工	φ<4,000mm
Nickel Alloy 镍基合金	Clad Plate 复合板	UNS N02200, UNS N02201, UNS N04400, UNS N06600, UNS N06625, UNS N08825, UNS N08800, UNS N08810, UNS 10276 and etc.	ASTMA265	Explosion / Hot Rolling / Explosion + Rolling 爆炸/热轧/爆炸+轧制	L<15,000mm W<4,000mm
	Clad Head 复合封头			Hot Forming /Cold Forming 热成型/冷成型	φ<4,000mm
	Clad Tube Sheet 复合管板			Machining 机加工	φ<4,000mm

•••Other materials: Aluminum, Copper, Zirconium, Tantalum and etc.\*\*\* 其它材质: 铝、铜、锆、钽等

Capacity: 30,000 Metric Tons / Year 产能: 3万吨/年

# P 工艺流程

Process Flowchart





## K 核心优势 Key Advantages

- More than 20 years' experience of cladding material manufacture.  
拥有20多年专业从事复合材料生产的丰富经验。
- Three technologies of cladding method by explosion/roll-bonding/explosion with rolling.  
同时掌握爆炸复合、轧制复合、爆炸+轧制复合三种核心工艺
- Huge production capacity with flexible delivery.  
灵活高效的生产及交付能力。
- Over 100 combinations of material claddings options  
超过百种不同类别的金属层复合选择。

## P 生产设备 Production Facilities

两个大型自主的爆炸焊接试验基地 / 2 big owner explosive bonding sites

生产能力: 200吨/天 / Capacity: 200tons/day



数控等离子切割平台 / Automatic Plasma Cutting  
工作尺寸 / Working size: 5mm-80mm\*4000mm\*15000mm



自动抛光机 / Auto Polishing Machine  
工作尺寸 / Working size: 8000mm\*20000m



KUKA 9轴自动焊接机器人 / KUKA 9 Axis robot welding  
工作尺寸 / Working size: 5M\*15M



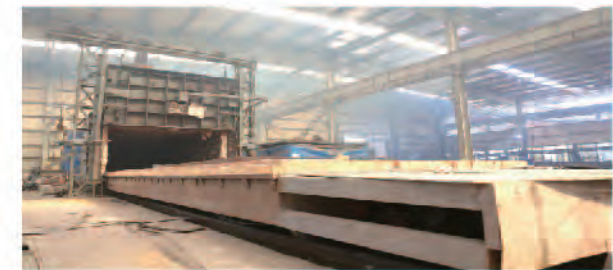
TIG自动拼焊平台 / Automated Welding Platform  
工作尺寸 / Working size: 2mm-14mm\*4000mm\*12000mm



埋弧焊机 / Submerged arc welding machine  
工作尺寸 / Working size 4000mm\*4000mm



热处理炉 / Heat treatment Furnace  
工作尺寸 / Working size: 3000mm\*15000mm



铣边机 / Beveling machine  
工作尺寸 / Working size: 10000mm



管板油压机 / Oil press machine  
工作尺寸 / Working size  $\Phi$  2300mm\*100mm



3辊矫直机 / 3-roll leveling machine  
工作尺寸 / Working size: 80mm\*3300mm\*L



9辊矫直机 / 9-roll leveling machine  
工作尺寸 / Working size: 20mm\*3000mm\*L



11辊矫直机 / 11-roll leveling machine  
工作尺寸 / Working size: 2mm-14mm\*2300mm\*L



压力组对机 Package Assembly Machine (oil press)  
工作尺寸 / Working size: 2600mm\*4500mm





# I 检试设备

## Inspection & Testing Facilities

拉伸试验机器 / Tensile testing machine



弯曲试验机器 / Bend testing machine



冲击试验机器 / Impact Testing machine



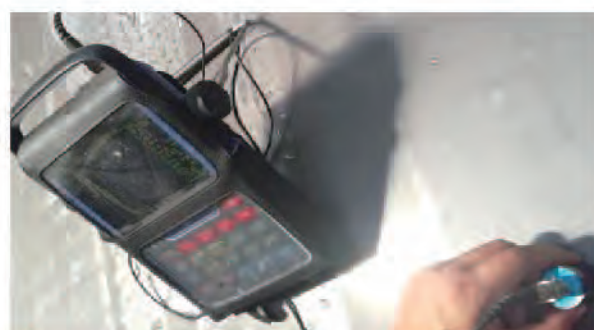
便携式光谱分析仪 / PMI machine



超声波测厚 / Ultrasonic thickness measurement



超声波探伤器 / Ultrasonic flaw detection



# A 产品应用

## Application

公司采用爆炸、轧制以及爆炸+轧制三种复合焊接工艺，运用超声波无损检测技术 (UT)，确保覆层100%结合及内在质量，产品外观美观、综合性能优异、性价比高。产品广泛应用在电厂力、石油化工、造纸、制药、造船海水淡化、冶金等行业中。

Runbang adopts explosion/roll-bonding/explosion with rolling technologies, and uses ultrasonic non-destructive testing (UT) to ensure 100% layer combination and inner quality. Our products have good appearance, excellent comprehensive performance and high quality & reasonable price, are widely used in Electric Power, Oil and Gas, Papermaking, Pharmacy, Ship-buliding, Seawater-desalination, Metallurgy.

### 1 电力

#### Electric Power



哈氏合金C276+A36复合板-GE/NTPC烟气脱硫吸收塔项目  
Supplied Hastelloy C276+A36 Clad Plates to GE for NTPC Flue Gas Desulfurization (FGD)



钛合金B265 Gr.2+A516 Gr.70复合板-BHEL/NTPC火力发电厂  
Supplied Titanium B265 Gr.2+A516 Gr.70 Clad Plates to BHEL for NTPC Coal-fired Power Plant



哈氏合金C276+A36复合板-ISGEC/NTPC烟气脱硫吸收塔排出管道  
Supplied Hastelloy C276+A36 Clad Plates to ISGEC for NTPC FGD Absorber Outlet Duct



钛合金TA1 +Q235B复合板-中能建设电厂  
Supplied Titanium B265 TA1 +Q235B Clad Plates for CEEC Power Plant Funnel Shell



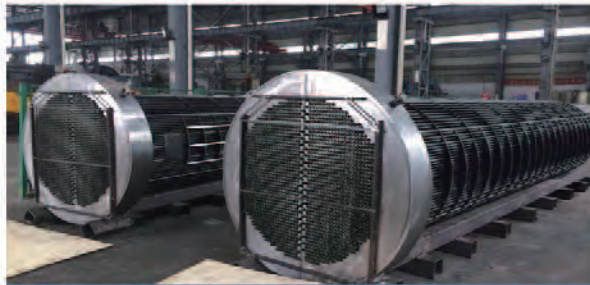
钛合金TA2 +Q345B复合板-北京龙源环保工程有限公司  
Supplied Titanium TA2+Q345B Clad Plates to Longyuan Environmental for Power Plant



钛合金TA2 +Q235B复合板-北京清新能源/徐矿电厂烟囱改造  
Supplied Titanium TA2 +Q235B Clad Plates to Beijing SPC for Power Plant



## 2 石油化工 Oil and Gas



不锈钢A182 F12+ A213 T5 U型管复合管板-Petrobras  
Supplied A213 T5 U Tube + A182 F12 SS Clad Tube Sheets for Petrobras



钛合金B265 Gr.2+A516 Gr.70复合管板- Wood 炼油厂  
Supplied Titanium B265 Gr.2+A516 Gr.70 Clad Plates to Wood for Refinery Modernization



不锈钢SS316L+SA 516 Gr. 60(NACE+HIC)复合板-BHEL-HPVP / 总包Petrofac  
Supplied SS316L+SA 516 Gr. 60(NACE+HIC) Clad Plate for BHEL-HPVP to EPC Petrofac



不锈钢SA240M TP304L+SA387 GR.11 CL2复合管板- L & T/SIPC Farabi阿曼  
Supplied Stainless steel SA240M TP304L+SA387 GR.11 CL2 Clad Plates to L & T for SIPC Farabi Oman



3层钛合金+碳钢+钛合金SB265 Gr. 1+A516 Gr.70 +SB265 Gr. 12 复合板-Alfa Laval  
Supplied 3 layers as Titanium+CS+Titanium Clad Plates for Alfa Laval



不锈钢SS316L复合管板- Sasol  
Supplied Stainless Steel SS316L Clad Tube Sheets for Sasol Project

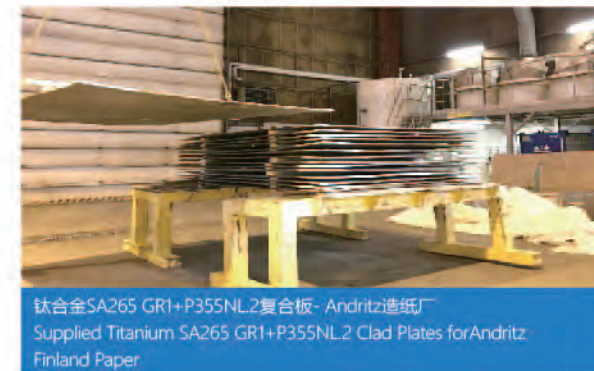
## 3 造纸 Papermaking



不锈钢SUS304+Q345R复合板-正隆纸浆储罐  
Supplied SS SUS304+Q345R Clad Plates for CHEN LOONG Paper & Pulp Storage Tank



不锈钢SUS304+Q245R复合板-太阳造纸纸浆塔  
Supplied Stainless Steel Clad Plates S31603+Q245R for Sun Paper, Paper & Pulp Tanks



钛合金SA265 GR1+P355NL2复合板- Andritz造纸厂  
Supplied Titanium SA265 GR1+P355NL2 Clad Plates forAndritz Finland Paper



不锈钢304L+SA516 Gr.70复合板- BUTTING老挝造纸厂纸浆塔  
Supplied SS Clad Plates 304L+SA516 Gr.70 to BUTTING for Laos Paper & Pulp Tanks



钛合金TA2+Q235B复合板-林浆纸一体化工程  
Supplied Titanium TA2+Q235B Clad Plates for Forest-Pulp-Paper Integration Project



不锈钢304+Q345R- CLC越南造纸厂纸浆塔  
Supplied SS Clad Plates 304+Q345R to CLC for Vietnam Paper Mill