

福建福欣特殊鋼有限公司

FUJIAN FUXIN SPECIAL STEEL CO., LTD.

中国福建省漳州台商投资区龙池工业园龙池大道1号

No.1 Longchi Blvd, Longchi Industrial Area,

Zhangzhou Taiwanese Investment Zone,

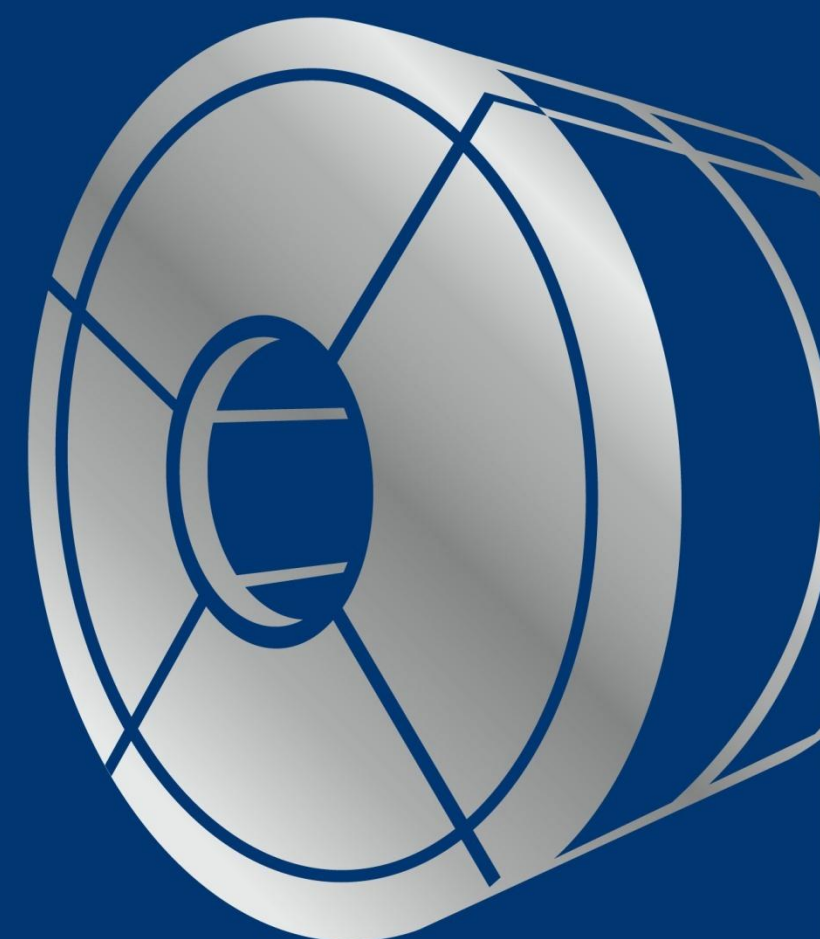
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FUJIAN
FUXIN
SPECIAL STEEL

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FUJIAN FUXIN SPECIAL STEEL CO., LTD.



勤勞樸實
止於至善
永續經營
奉獻社會

王少康

- Diligence, perseverance, frugality and trustworthiness.
- Aiming for the best.
- Sustainable operation.
- Contribution for the society.



INTRODUCTION OF FUXIN

福欣简介

福建福欣特殊钢有限公司为台湾台塑企业投资建设之一贯作业不锈钢厂，包括不锈钢冶炼、连铸、热轧、退火酸洗及冷轧…等项目。

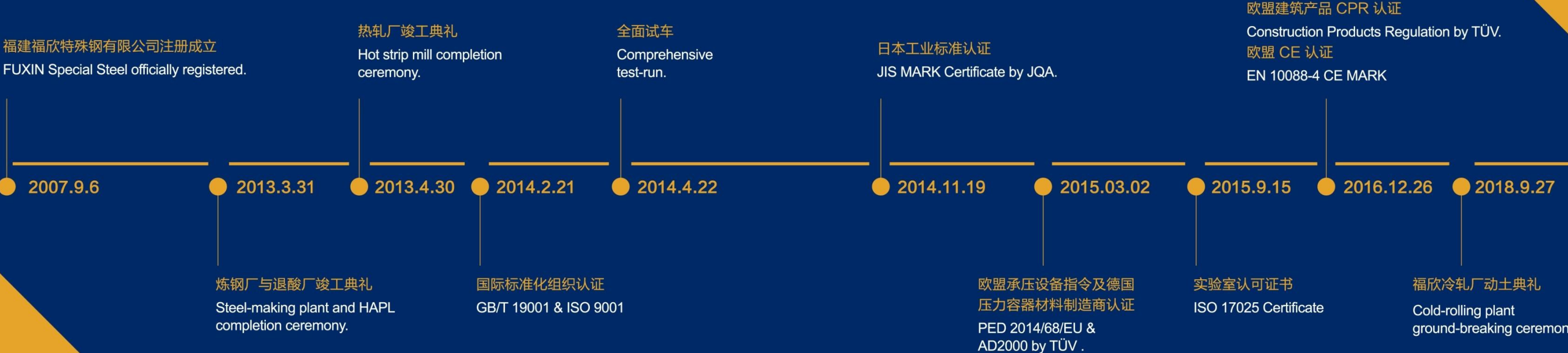
福欣与日本JFE钢铁株式会社签署技术合作协议，并致力生产超纯铁素体、高氮控氮奥氏体、超级奥氏体耐蚀不锈钢。

FUXIN, invested by Taiwan Formosa Plastics Group, is an integrated stainless-steel plant. It includes steel-making plant, hot-rolling plant, annealing and pickling line (HAPL), and cold-rolling plant.

FUXIN signs the technical license agreement with JFE Steel Corporation, and has been dedicated to developing super-ferrite, high-nitrogen/nitrogen-controlled austenite, and super corrosion-resistant austenite.

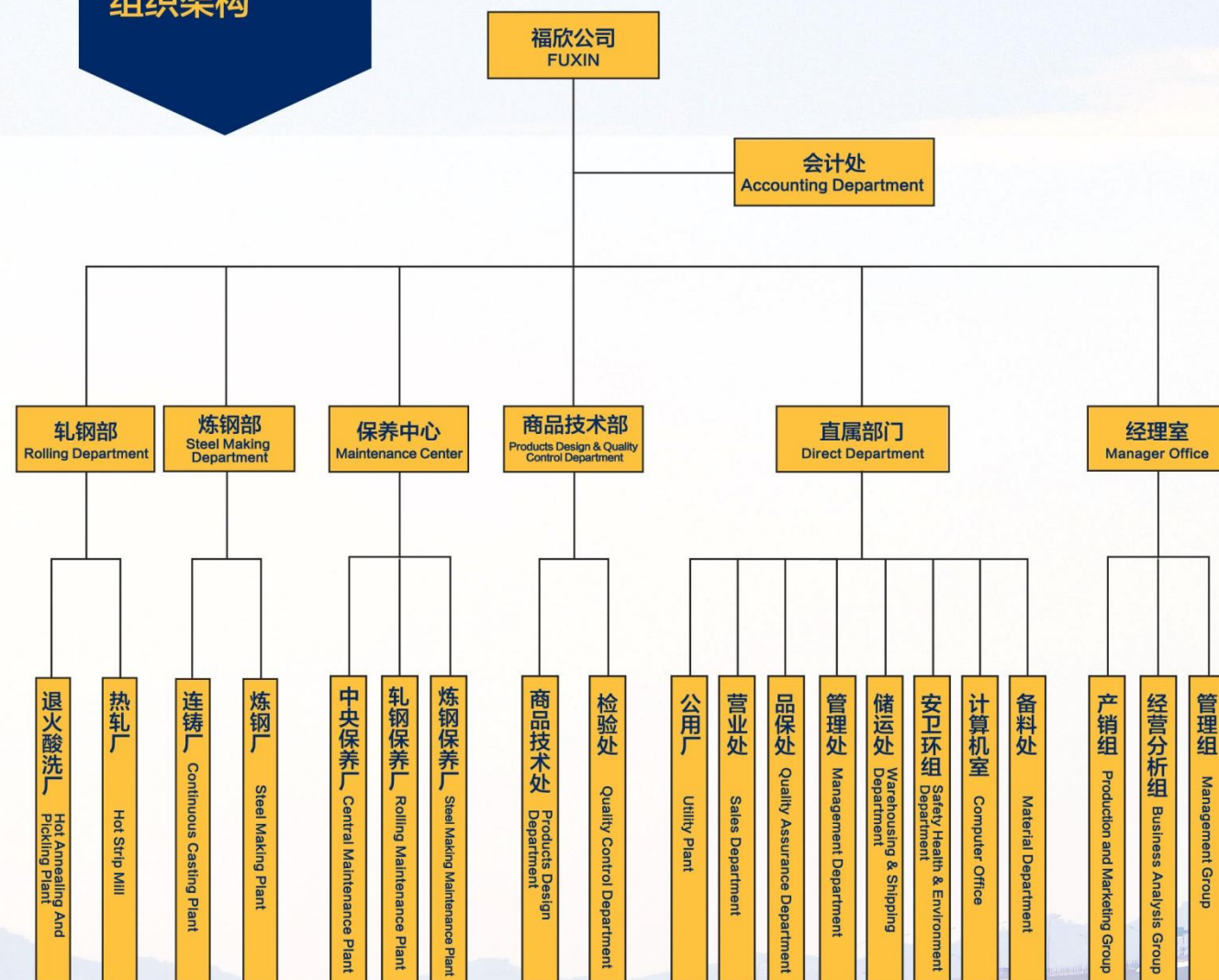


CORPORATE HISTORY
公司沿革



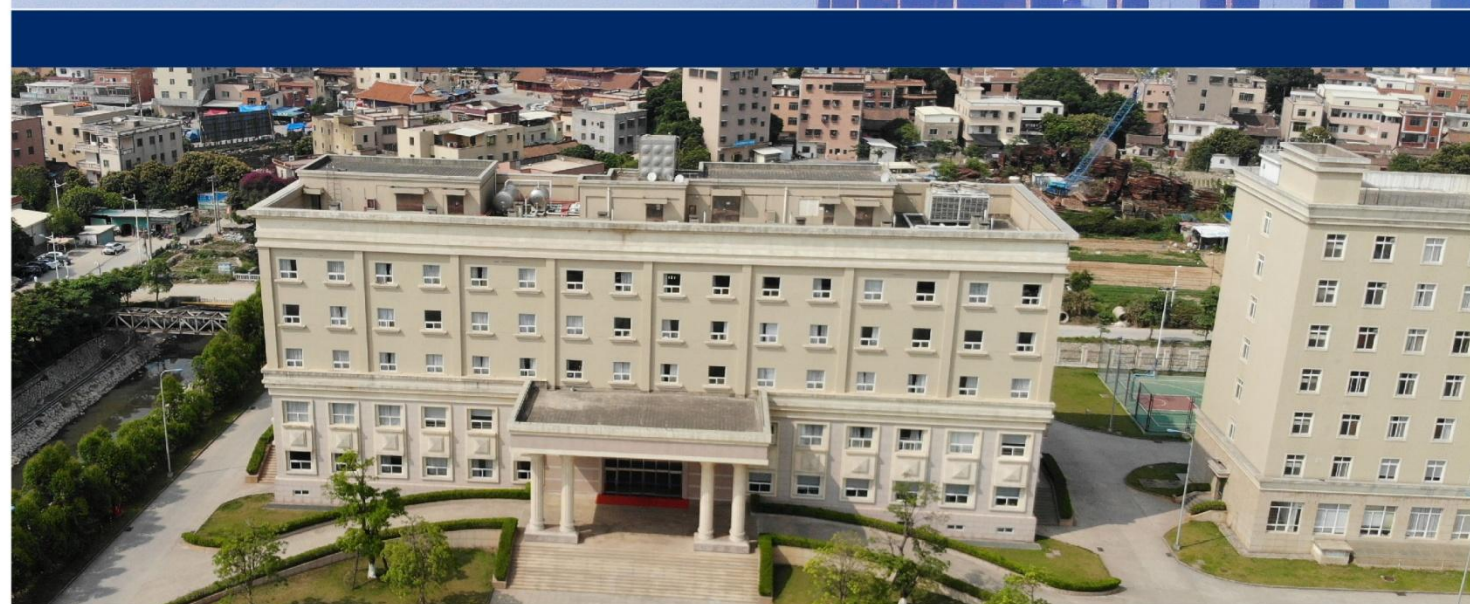
ORGANIZATION STRUCTURE

组织架构



GEOGRAPHICAL POSITION

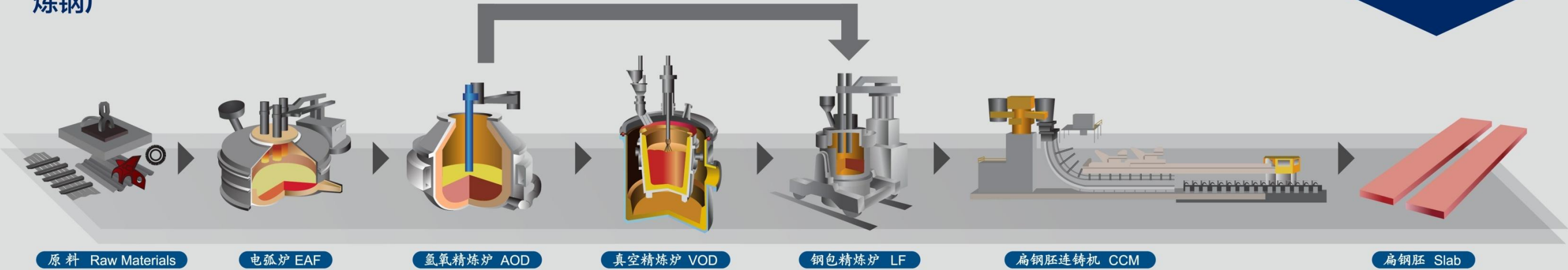
地理位置



福欣位于中国福建省漳州台商投资区龙池工业园，紧邻九龙江及厦门海沧港，码头可容纳20万吨级货轮，物流十分便利。

FUXIN locates in the Longchi Industrial Area, Zhangzhou Taiwanese Investment Zone, Fujian Province, China. And it is adjacent to Jiu-Long River and Haicang port, Xiamen. The piers could accommodate 200 thousand-ton vessels, which makes logistics and transportation really convenient.

Steel Making Plant 炼钢厂



Capacity 产能-720 thousand-ton/year (72万吨/年)



EAF 电弧炉
SMS-Siemag (Germany)
160MT per charge 吨/炉



AOD 氩氧精炼炉
SMS-Siemag (Germany)
180MT per charge 吨/炉



VOD 真空精炼炉
SMS-Siemag (Germany)
180MT per charge 吨/炉



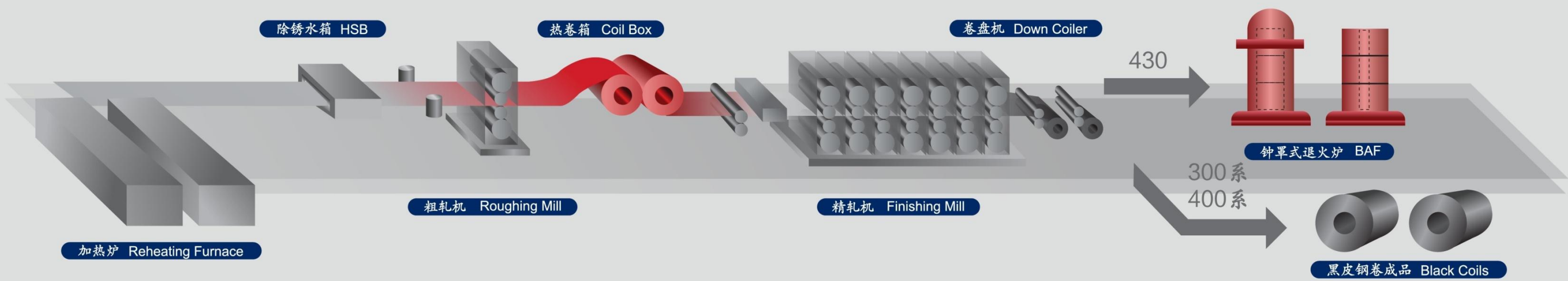
LF 钢包精炼炉
SMS-Siemag (Germany)
180MT per charge 吨/炉



CCM 连铸
SMS-Siemag (Germany)

Hot Strip Mill 热轧厂

INTRODUCTION
OF PROCESS
FLOW
产线介绍



Capacity 产能-1.5 million-ton/year (150万吨/年)



Reheating Furnace 加热炉
CISDI(China)
Thickness(厚度): 200mm&220mm



Roughing Mill 粗轧机
Mitsubishi-Hitachi (Japan)
Thickness(厚度): 23mm~36mm



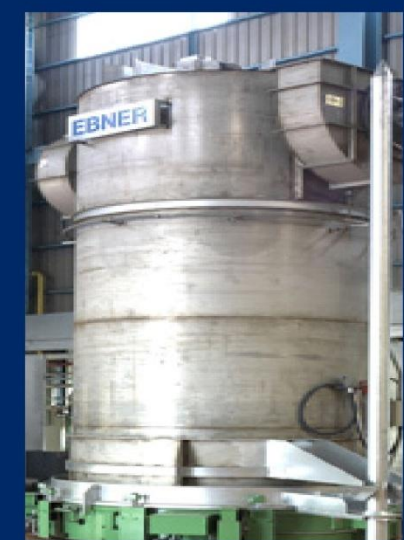
Coil Box 热卷箱
Mitsubishi-Hitachi (Japan)



Finishing Mill 精轧机
Mitsubishi-Hitachi (Japan)
Thickness(厚度):2mm~16mm



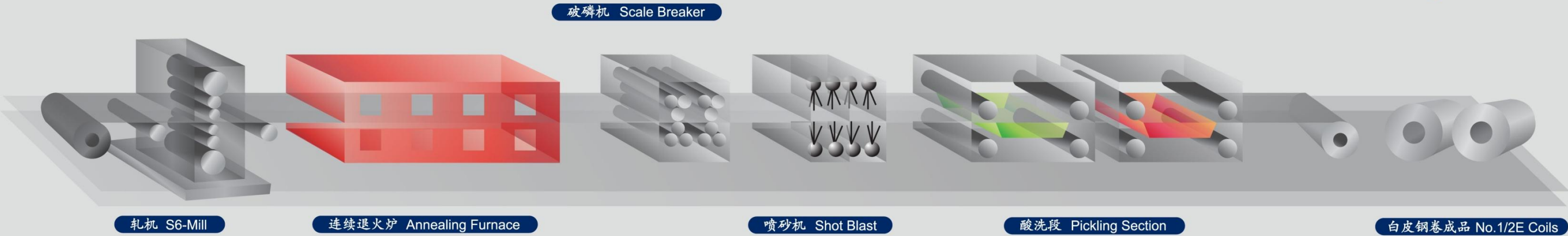
Down Coiler 卷取机
Mitsubishi-Hitachi (Japan)
Thickness(厚度):2mm~16mm



BAF 罩式炉
EBNER(Austria)
BAOXIN(China)
20,000MT/Month 吨/月

Hot Annealing And Pickling Plant

退酸厂



Capacity 产能-720 thousand-ton/year (72万吨/年)



In line mill 2E在线轧机
Sungwig /Andritz (Austria)
Reduction(压下率):30%



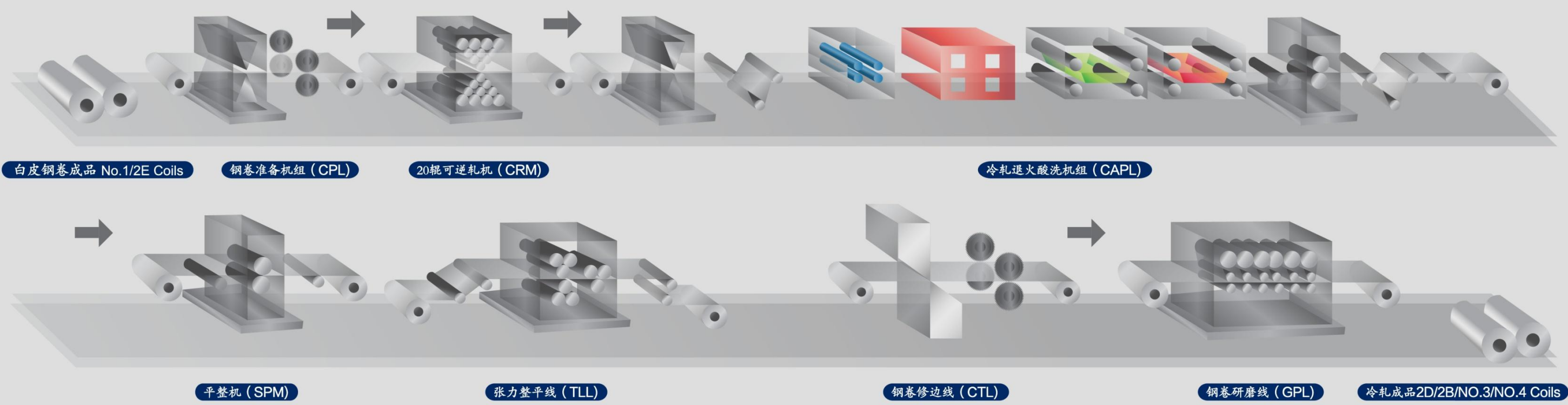
Annealing Furnace 退火炉
Thermtec /Andritz (Austria)
Thickness(厚度):1.4mm~10mm



Pickling line 酸洗线
Ruthner /Andritz (Austria)
Thickness(厚度):1.4mm~10mm

Cold Rolling Plant
冷轧厂

INTRODUCTION
OF PROCESS
FLOW
产线介绍



Capacity 产能-300 thousand-ton/year(30万吨/年)
To be completed in 2020 预计2020年完工

设备 Equipment	数量 Qty.	供应商 Supplier	规格 Specifications (MM)
钢卷准备机组 Coil Preparation Line	2	FSMT	Thickness(厚度): 1.0~8.0±10% Width (宽度): 800~1,350
20辊可逆轧机 Cold-rolling Mill	3	Fives	Input Thickness(入料厚度): 1.0~8.0±10% Output Thickness(出料厚度): 0.2~3.0±10% Width(宽度): 800~1,350
冷轧退火酸洗机组 Annealing & Pickling Line	1	Andritz	Thickness(厚度): 0.2~3.0±10% Width (宽度): 800~1,350
钢卷研磨抛机组 Grinding & Polishing Line	1	NKC	Thickness(厚度): 0.3~5.0±10% Width (宽度): 800~1,350
平整机组 Skin Pass Mill	1	Andritz	Thickness(厚度): 0.2~3.0±10% Width (宽度): 800~1,350
张力平整机组 Tension Leveling Line	1	Andritz	
钢卷修边机组 Coil Trimming Line	1	SMS	

Products (产品表面): 2B/2D
Thickness (厚度): 0.2~3.0mm
Width (宽度): 800~1,350mm
Steel Grade (钢种):
200 series(200系)
300 series(300系)
400 series(400系)
Super-ferritie (超纯铁素体)

CHEMICAL COMPOSITIONS 化学成分

类别 Types		标准 S.	牌号 Grades	化学成分% Chemical compositions											抗拉(T.S.)≥	屈服 (Y.S.)≥	伸长率E.%	HBW	HRB	HV	弯曲 (B.A.)	晶间腐蚀 (I.C.)
				C≤	Si≤	Mn≤	P≤	S≤	Cr	Ni	Mo	Cu	N≤	其他元素 Others	T.S	0.2%	1.0%	≥	≤	≤	≤	
奥氏体 Austenitic	201	A	S20100	0.15	1.00	5.50-7.50	0.060	0.030	16.0-18.0	3.5-5.5			0.25		515	260		40	217	95		
	301	A	S30100	0.15	1.00	2.00	0.045	0.030	16.0-18.0	6.0-8-0			0.10		515	205		40	217	95		
		J	SUS301	0.15	1.00	2.00	0.045	0.030	16.0-18.0	6.0-8-0					520	205		40	207	95	218	
	301L	A	S30103	0.03	1.00	2.00	0.045	0.030	16.0-18.0	6.0-8-0			0.20		550	220		45	241	100		
		J	SUS301L	0.03	1.00	2.00	0.045	0.030	16.0-18.0	6.0-8-0			0.20		550	215		45	207	95	218	
	304	A	S30400	0.07	0.75	2.00	0.045	0.030	17.5-19.5	8.0-10.5			0.10		515	205		40	243	92		
		J	SUS304	0.08	1.00	2.00	0.045	0.030	18.00-20.00	8.00-10.50					520	205		40	187	90	200	
		EN	X5CrNi18-10(1.4301)	0.07	1.00	2.00	0.045	0.015	17.5-19.5	8.0-10.5			0.10		550-750	220	235	43				Y
	304L	A	S30403	0.03	0.75	2.00	0.045	0.030	17.5-19.5	8.0-12.0			0.10		485	170		40	201	92		
		J	SUS304L	0.03	1.00	2.00	0.045	0.030	18.00-20.00	9.00-13.00					480	175		40	187	90	200	
		EN	X2CrNi18-9(1.4307)	0.03	1.00	2.00	0.045	0.015	17.5-19.5	8.0-10.5			0.10		520-700	200	240	45				Y
	309S	A	S30908	0.08	0.75	2.00	0.045	0.030	22.0-24.0	12.0-15.0					515	205		40	217	95		
	310S	J	SUS310S	0.08	1.50	2.00	0.045	0.030	24.0-26.0	19.00-22.00					520	205		40	187	90	200	
	316	A	S31600	0.08	0.75	2.00	0.045	0.030	16.0-18.0	10.0-14.0	2.00-3.00		0.10		515	205		40	217	95		
		J	SUS316	0.08	1.00	2.00	0.045	0.030	16.00-18.00	10.00-14.00	2.00-3.00				520	205		40	187	90	200	
		EN	X5CrNiMo17-12-2(1.4401)	0.07	1.00	2.00	0.045	0.015	16.5-18.5	10.0-13.0	2.00-2.50		0.10		550-700	240	255	40				Y
	316L	A	S31603	0.03	0.75	2.00	0.045	0.030	16.0-18.0	10.0-14.0	2.00-3.00		0.10		485	170		40	217	95		
		J	SUS316L	0.03	1.00	2.00	0.045	0.030	16.00-18.00	12.00-15.00	2.00-3.00				480	175		40	187	90	200	
		GB/T	022Cr17Ni12Mo2(31603)	0.03	0.75	2.00	0.045	0.030	16.00-18.00	10.00-14.00	2.00-3.00		0.10		485	170		40	217	95	220	
		GB	022Cr17Ni12Mo2(31603)	0.03	0.75	2.00	0.035	0.020	16.00-18.00	10.00-14.00	2.00-3.00		0.10		490	180	260	40	217	95	220	
	317L	EN	X2CrNiMo17-12-2(1.4404)	0.03	1.00	2.00	0.045	0.015	16.5-18.5	10.0-13.0	2.00-2.50		0.10		550-700	240	255	40				Y
		A	S31703	0.03	0.75	2.00	0.045	0.030	18.0-20.0	11.0-15.0	3.0-4.0		0.10		515	205		40	217	95		
	321	A	S32100	0.08	0.75	2.00	0.045	0.030	17.0-19.0	9.0-12.0			0.10	Ti 5(C+N)~0.70	515	205		40	217	95		
		J	SUS321	0.08	1.00	2.00	0.045	0.030	17.00-19.00	9.00-13.00				Ti≥5C	520	205		40	187	90	200	
		GB/T	06Cr18Ni11Ti(S32168)	0.08	0.75	2.00	0.045	0.030	17.00-19.00	9.00-12.00		0.10		Ti≥5C	515	205		40	217	95	220	
		GB	06Cr18Ni11Ti(S32168)	0.08	0.75	2.00	0.035	0.020	17.00-19.00	9.00-12.00				Ti≥5C	520	205	250	40	217	95	220	
		EN	X6CrNiTi18-10(1.4541)	0.08	1.00	2.00	0.045	0.015	17.0-19.0	9.0-12.0				Ti:5C~0.70	520-720	200	240	40				Y
	1.4828	EN	X15CrNiSi20-12(1.4828)	0.20	1.50-2.50	2.00	0.045	0.015	19.0-21.0	11.0-13.0			0.11									
铁素体 Ferritic	430	A	S43000	0.12	1.00	1.00	0.040	0.030	16.0-18.0	0.75					450	205		22	183	89		▲180°
		J	SUS430	0.12	0.75	1.00	0.040	0.030	16.00-18.00	0.60					420	205		22	183	88	200	▲180°
		EN	X6Cr17(1.4016)	0.08	1.00	1.00	0.040	0.015	16.0-18.0						450-600	240	260	18				Y
	430J1L	J	SUS430J1L	0.025	1.00	1.00	0.040	0.030	16.00-20.00	0.60		0.30-0.80	0.025	Ti&Nb&Zr组合: 8*(C+N)~0.80	390	205		22	192	90	200	▲180°
	439	A	S43932	0.030	1.00	1.00	0.040	0.030	17.0-19.0	0.50			0.030	Ti+Nb: 0.2+4*(C+N)~0.75;Al 0.15	415	205		22	183	89		▲180°
		EN	X3CrTi17(1.4510)	0.050	1.00	1.00	0.040	0.015	16.0-18.0					Ti: [4x(C+N) + 0.15]~0.80	420-600	270		20				Y
	430LX	J	SUS430LX	0.03	0.75	1.00	0.040	0.030	16.00-19.00	0.60				Ti或Nb: 0.10-1.00	360	175		22	183	88	200	▲180°
	436	J	SUS436L	0.025	1.00	1.00	0.040	0.030	16.00-19.00		0.75-1.50		0.025	Ti&Nb&Zr组合: 8x(C%+N%)~0.80	410	245		20	217	96	230	▲180°
	443	J	SUS443J1	0.025	1.00	1.00	0.040	0.030	20.00-23.00	0.60		0.30-0.80	0.025	Ti&Nb&Zr组合: 8*(C+N)~0.80	390	205		22	192	90	200	▲180°
	444	A	S44400	0.025	1.00	1.00	0.04	0.03	17.5-19.5	1.0	1.75-2.50		0.035	(Ti+Cb)[0.20+4(C+N)]~0.80	415	275		20	271	96		▲180°
		J	SUS444	0.025	1.00	1.00	0.04	0.03	17.0-20.0		1.75-2.50		0.025	Ti&Nb&Zr组合: 8x(C%+N%)~0.80	410	245		20	217	96	230	▲180°
	445(430MA)	EN	X2CrMoTi18-2(1.4521)	0.025	1.00	1.00	0.04	0.015	17.0-20.0		1.80-2.50		0.03	Ti: [4x(C+N) +0.15]~0.80	420-640	300	320	20				Y
		A	S44500	0.020	1.00	1.00	0.040	0.012	19.0-21.0	0.60		0.30-0.60	0.03	Nb: 10*(C+N)~0.80	427	205		22		83		▲180°
	409L	A	S40910	0.03	1.00	1.00	0.040	0.020	10.5-11.70	0.50			0.03	Ti: 6(C+N)~0.50; Nb: 0.17	380	170		20	179	88		▲180°
		J	SUH409L	0.03	1.00	1.00	0.040	0.030	10.50-11.75	0.60				Ti: 6C~0.75	360	175		25	162	80	175	▲180°
		EN	X2CrTi12(1.4512)	0.03	1.00	1.00	0.040	0.015	10.5-12.5					Ti: 6(C+N)~0.65	380-560	210	220	25				
	409Ni	A	S40975	0.03	1.00	1.00	0.040	0.030	10.5-11.7	0.5-1.0			0.03	Ti: 6×(C+N)~0.75	415	275		20	197	92		▲180°
	441	A	S43940	0.03	1.00	1.00	0.040	0.015	17.5-18.5					Ti: 0.1-0.6; Nb≥3*C+0.3	430	250		18	180	88		
		EN	X2CrTiNb18(1.4509)	0.03	1.00	1.00	0.040	0.015	17.5-18.5					Ti: 0.1-0.6; Nb:(3*C+0.3)~1.0	430-630	230	250	18				
	410L	J	SUS410L	0.03	1.00	1.00	0.040	0.030	11.00-13.50	0.60					360	195		22	183	88	200	▲180°
马氏体 Martensitic	410S	A	S41008	0.08	1.00	1.00	0.040	0.030	11.5-13.5	0.60					415	205		22	183	89		▲180°
	420	J	SUS410S	0.08	1.00	1.00	0.040	0.030	11.50-13.50	0.60					410	205		20	183	88	210	▲180°
		A	S42035	0.08	1.00	1.00	0.045	0.030	13.5-15.5	1.0-2.5	0.2-1.2			Ti: 0.30-0.50	550	380		16	180	88		
		GB/T	30Cr13(S42030)	0.26-0.35	1.00	1.00	0.040	0.030	12.00-14.00	0.60					540	225		18	235	99	247	
	420J1	J	SUS420J1	0.16-0.25	1.00	1.00	0.040	0.030	12.00-14.00	0.60					520	225		18	223	97	234	
双相钢 Duplex	420J2	J	SUS420J2	0.26-0.40	1.00	1.00	0.040	0.030	12.0-14.00	0.60					540	225		18	235	99	247	
	2205	A	S32205	0.03	1.00	2.00	0.030	0.020	22.0-23.0	4.5-6.5	3.0-3.5		0.14-0.2		655	450		25	293			

PACKING AND LABEL

产品包装及标签

分类 Classification	热轧不锈钢卷 Hot-rolled			冷轧不锈钢卷 Cold-rolled
	Black	No.1	2E	2B/2D
内径(mm) Inner Diameter	762	610		508/610
外径(mm) Outer Diameter	1,950	1,850		2,100

标签
Label

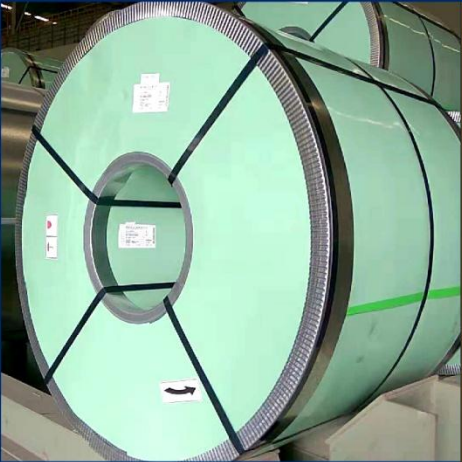
福建福欣特殊鋼有限公司 FUJIAN FUXIN SPECIAL STEEL CO., LTD.			
品名 PRODUCT			等级 GRADE
钢卷号 COIL NO.			表面 FINISH
标准 STANDARD			边缘 EDGE
牌号 TYPE			合同号 CONTRACT NO.
尺寸 SIZE			炉号 HEAT NO.
毛重(t) CR. WT.		净重(t) NET WT.	日期 DATE

QUALITY ASSURANCE

质量认证



裸包装
Simple



塑料包装
Plastic



纸包装
Paper



铁包装
Iron



TOLERANCES
OF PRODUCTS
产品尺寸公差



热轧黑皮 Hot-rolling (Black)			
厚度(mm) Thickness	宽度Width(mm)		
	1,000	4ft.	5ft.
2.00≤T<2.80	±0.07	±0.08	±0.09
2.80≤T<3.15	±0.07	±0.09	±0.10
3.15≤T<4.00	±0.08	±0.10	±0.11
4.00≤T<5.00	±0.10	±0.11	±0.13
5.00≤T<6.00	±0.12	±0.14	±0.14
6.00≤T<8.00	±0.14	±0.16	±0.17
8.00≤T<10.00	±0.16	±0.16	±0.20
10.00≤T<16.00	±0.18	±0.18	±0.21

热轧白皮 Hot-rolling (No.1)			
厚度(mm) Thickness	宽度Width(mm)		
	1,000	4ft.	5ft.
2.00≤T<2.30	±0.05	±0.06	±0.07
2.30≤T<3.15	±0.06	±0.07	±0.08
3.15≤T<4.00	±0.07	±0.08	±0.09
4.00≤T<5.00	±0.08	±0.09	±0.10
5.00≤T<6.00	±0.10	±0.10	±0.10
6.00≤T<8.00	±0.12	±0.12	±0.12
8.00≤T<10.00	±0.14	±0.14	±0.14

热轧白皮 Hot-rolling (2E)			
厚度(mm) Thickness	宽度Width(mm)		
	1,000	4ft.	5ft.
1.40≤T<2.00	±0.04	±0.05	±0.06
2.00≤T<2.30	±0.05	±0.06	±0.07
2.30≤T<3.15	±0.06	±0.07	±0.08
3.15≤T<4.00	±0.07	±0.08	±0.09
4.00≤T<5.00	±0.08	±0.09	±0.10
5.00≤T<5.50	±0.10	±0.10	±0.10

宽度公差 Width Tolerances	
厚度 Thickness(mm)	宽度 Width(mm)
毛边 Mill Edge	+20 , -0
切边 Slit Edge	+1 , -0

AVAILABLE
SIZE
接单规范



热轧黑皮 Hot-rolling (Black)		
厚度(mm) Thickness	2.0-16.0	3.0-16.0
宽度(mm) Width	1,000-1,250	1,000-1,250-1,524

热轧白皮 Hot-rolling (No.1)		
厚度(mm) Thickness	2.0-10.0	3.0-10.0
宽度(mm) Width	1,000-1,250	1,000-1,250-1,524

热轧白皮 Hot-rolling (2E)		
厚度(mm) Thickness	1.33-5.50	1.50-5.50
宽度(mm) Width	1,000-1,250	1,000-1,250-1,524

本产品手册仅供参考，订货时，可产制钢种规格请再确认详细状况
The product manual is only for reference, please confirm details of available grades and dimension when ordering.

产业 Industry	钢种 Grade	用途 Application
建筑材料 Architecture& Construction	443J1 446	电梯、屋顶、幕墙 Elevator, Roof, Wall
汽车 Automotive	409L 430J1L 436L 439 441 445	汽车排气系统(排气管、法兰、 消音器)、车用饰条 Exhaust system(exhaust pipe, flange, muffler), decoration strip
耐久消费品 Consumer Durables	430J1L 430LX 444 445J2	洗衣机、厨具、太阳能热水器、 空调 Washing machines, Kitchen ware, Solar water heater, Air conditioner

超纯铁素体在全球不锈钢消费市场中持续成长，以下为
福欣主要超纯铁素体的相关应用：

Super ferritic stainless steel has been continuously
growing in global stainless steel consumption in
recent past .

可生产钢种 Steel Grades	日标 JIS	美标 ASTM	欧标 EN
409L	O	O	O
409Ni	--	O	--
410L	O	--	--
410S	--	O	--
420J1	O	--	--
420J2	--	--	--
430J1L	--	O	--
430LX	O	--	--
430MA	--	O	--
436L	--	O	O
439	--	O	O
441	--	O	O
443	O	O	--
444	O	O	O
445	--	O	--



**BUSINESS
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