

卷板剪切线系列 COIL LINE PROCESSING

分条线 | 落料线 | 摆剪线 | 横切线 | 机器人排刀

Slitting Line | Blanking Line | Oscillating Shearing Line | Cut to Length Line | Robot Setup System



江苏亚威机床股份有限公司

江苏亚威机床股份有限公司(简称亚威股份、股票代码002559)是国内知名的高端装备及智能制造解决 方案供应商。创建于1956年,位于江苏省扬州市,2011年在深交所中小板上市,为汽车、交通、航空、钣 金、电力电气、电梯、家电等各大行业的知名企业提供金属成形机床、激光加工设备、工业机器人、自动化 生产线、工厂管理软件及面向多行业的智能车间/智能工厂解决方案。公司总资产45亿元,净资产18亿元, 占地面积50万㎡,现有员工1.900多人,规模效益在中国金属成形机床行业稳居前三,在国内建有60个集销 售、服务于一体的办事处,在国外60多个国家设有销售代理机构。

卷板事业部经过30多年的发展,已经形成几大类产品协调发展的良好局面:

- -分条线---刀座+十字换刀臂+机器人排刀
- -横切线---摆剪、飞剪、移动剪
- -落料线---钢板落料、钢铝复合落料,激光落料

聚焦产品智能升级,打造高端卷材加工设备供应商!

Jiangsu Yawei Machine Tool Co., Ltd.

Jiangsu Yawei Machine Tool Co., Ltd. (Abbreviated as Yawei, stock code 002559) is a well-known supplier of high-end equipment and intelligent manufacturing solutions. Founded in 1956, it is located in Yangzhou City, Jiangsu Province. In 2011, it was listed on the SME Board of Shenzhen Stock Exchange market, Yawei provides sheet metal forming machines, laser processing equipment, industrial robots, automatic production lines, factory management software, and intelligent workshops for well-known companies in the automotive, transportation, aviation, sheet metal, power and electrical, elevators, and home appliances industries. At present, the company has total assets of 4.5 billion, net assets of 1.8 billion, covers an area of 500,000m², more than 1,900 employees, 60 domestic sales and service offices, andsales agent network in more than 60 countries.

After nearly 30 years of development, the Coil Business Division has formed a good situation of coordinated development of several major products:

- -Slitting line slitter + cross-type blade changing arm + robot setup
- -Cut to length line oscillating shear, flying shear, moving shear
- -Blanking line Steel plate blanking, steel-aluminum composite blanking and laser blanking

Focus on intelligent product upgrades and build a high-end coil processing equipment supplier!



CONTENTS





技术创新能力 Technological innovation ability

亚威始终坚持技术领先的发展策略,不断加大研发投入和研发人才队伍 建设力度。近年来研发投入占营业收入比重保持在7%左右,在行业内处于领 先水平。现已拥有国家级博士后科研工作站、江苏省级技术中心、江苏省金属 板材智能装备重点实验室,在意大利、南京等地设立了研发分支机构,高素质 研发人才加速集聚。

Yawei always adheres to the technology-leading development strategy, constantly increasing the R&D investment and R&D talent team building. In recent years, the proportion of R&D investment in operating income has remained at around 7%,

which is at the leading level in the industry. At present, Yawei has a National Post-Doctoral Research Center, a Jiangsu Provincial Technology Center, and Jiangsu Key Laboratory of Sheet Metal Intelligent Equipment, and has set up R&D branches in Suzhou, Wuxi, and Nanjing, and other places to accelerate.

精密制造优势 Precision manufacturing advantage

精良的装备、专业化制造,为亚威高新产品的规模化增长和品质保证提供了强有力的保障,亚威现有四个专业产品安装调试车间和一个智能精密加工车间,拥有数控五轴联动加工中心、数控龙门加工中心、超大型数控镗铣床等关键设备300余台。

Sophisticated equipment and specialized manufacturing provide a strong guarantee for large-scale growth and quality assurance of Yawei's high-tech products. Now Yawei has four professional assembling and testing workshops and one precise manufacturing workshop, and has more than 300 sets of key equipment, such as CNC 5-axis machining center, CNC gantry machining center, CNC boring and milling machining center.



营销服务优势 Marketing service advantage



在国内建有60个集销售、服务于一体的办事处,在国外60多个国家建有销售代理机构

Established more than 60 sales and service offices in China, and sales agencies in more than 60 foreign countries



分条线

SLITTING LINE



型号 Model	1250型	1650型	1850型	2150型		
原始卷料 Processing material	冷轧板、镀锌板、彩涂板、不锈钢板等 Cold-rolled steel coil, Galvanized coil, Color-coated coil, Stainless steel coil, etc.					
材料厚度 Processing sheet thickness	0.15mm-1.0mm					
材料宽度 Processing sheet width	1250mm (MAX)	1650mm (MAX)	1850mm (MAX)	2150mm (MAX)		
抗拉强度 δ_b		1200Mp	a (Max)			
屈服强度 δ。	1000Mpa (Max)					
卷料重量 Coil weight permitted	20T (MAX)	30T (MAX)	35T (MAX)	35T (MAX)		
宽度精度 Cutting accuracy	±0.05MM	±0.1MM	±0.1MM	±0.15MM		
机组速度 Line speed	300m/min(MAX)	200m/min(MAX)	200m/min(MAX)	200m/min(MAX)		



■ 精确的分条剪切

■ 整齐的卷取

■ 无划伤的张力控制

■ 友好的人机界面

■ Highly reliable machine performance

Accurate slitting and cutting

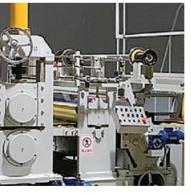
■ Tidy recoiling

■ Tension comtrol without scratch

■ Delightful man-machine interface















② 贴膜装置 Film applicating device ③ 双刀座分条 Slitting line with double slitter

④ 十字换刀臂 Cross-type blade exchanging arm

Scrap recoiler

Feeding unit

⑥ 皮带张力机 Belt tensioner ⑦ 卷取机

① 引料单元

⑤ 废边卷取机

Recoiler

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分条线

SLITTING LINE



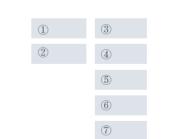
型号 Model	1650型	1850型	2000型	2200型		
原始卷料 Processing material	热轧酸洗板、热轧板等 Hot-rolled pickled coil, Hot-rolled coil, etc.					
材料厚度 Processing sheet thickness	1.0mm-6.0mm	1.0mm-6.0mm 1.0mm-6.0mm		4.0mm-16.0mm		
材料宽度 Processing sheet width	1650mm (MAX)	1850mm (MAX)	2000mm (MAX)	2200mm (MAX)		
抗拉强度 $\delta_{ ext{b}}$	1200Mpa (Max)					
屈服强度 δ。	1000Mpa (Max)					
卷料重量 Coil weight permitted	20T (MAX)	20T (MAX) 35T (MAX)		35T (MAX)		
宽度精度 Cutting accuracy	±0.15MM	±0.15MM ±0.15MM		±0.3MM		

热轧分条线

HOT ROLLED SLITTING LINE







① 机器人刀库 Robo blade library

② 十字换刀臂 Cross-type blade exchanging arm

③ 双锥头开卷机 Decoiler

④ 引料初矫 Feeding and straightener

⑤ 卷取机 Recoiler ⑥ 张力单元 Tension unit ⑦ 纵剪机 Slitter











机器人排刀

ROBOT SETUP



功能性能名称	PRCS20	PRCS30
X轴行走速度	120m/min	80m/min
速度升降	60m/min	60m/min
旋转速度	270°/s	270°/s
机器人承载	300	300
排刀效率	10-12次/天	8-10次/天
挂刀臂承载	250	250

- 高度可靠的机械性能
- 刀片、隔套的全智能管理
- 安全地垫、加密光栅保证操作的安全性
- 极高的排刀效率
- 良好的机器扩展性能
- 友好的人机界面
- Highly reliable mechanical performance
- Full intelligent management for knife and spacer
- Safety mat, encryption grating to guarantee the safety operation
- High efficiency setups
- Good extension the machine performance
- Friendly HMI

① 刀库	Blade magazine
② 换刀臂	Blade changing arm
③ 换刀臂出库	Blade changing arm move out

④ 刀具清洁 Blade cleaning ⑤ 刀具清洁 Blade cleaning

⑥ 机器人 Robot

⑦ 换刀臂排刀 Blade changing setup











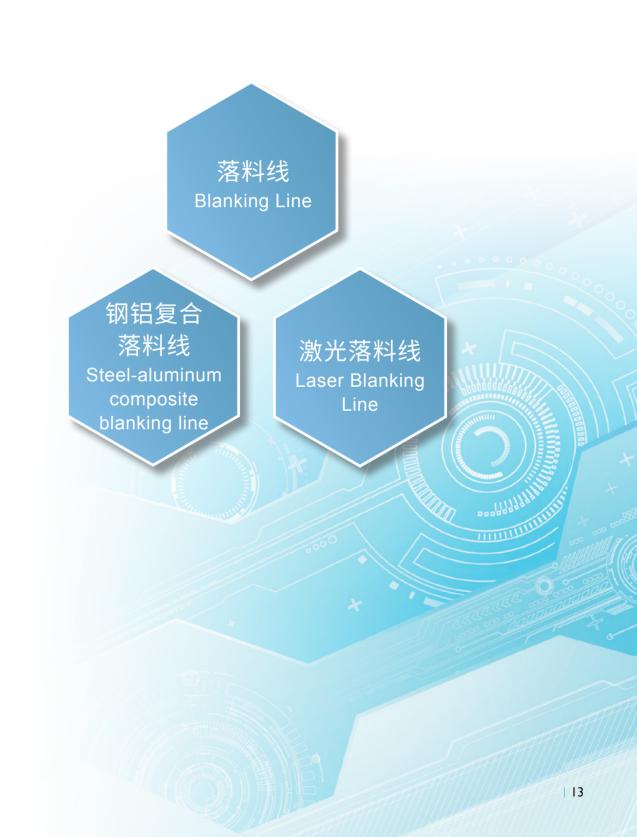












落料线

BLANKING LINE



型号 Model	1650型	1850型	2050型	2150型	
原始卷料 Processing material	冷轧板、镀锌板等 Cold-rolled steel coil, Galvanized coil, Color-coated coil, etc.				
材料厚度 Processing sheet thickness	0.5mm-3.5mm 0.5mm-3.5mm 0.5mm-3.5mm				
材料宽度 Processing sheet width	1650mm (MAX)	1850mm (MAX)	2050mm (MAX)	2150mm (MAX)	
抗拉强度 $\delta_{ ext{b}}$	1200Mpa (Max)				
屈服强度 $δ_s$		1000Mp	a (Max)		
卷料重量 Coil weight permitted	30T (MAX) 30T (MAX) 30T (MAX)			30T (MAX)	
送料精度 Feeding accuracy	±0.2mm/m				
送料速度 Feeding speed	180m/min (MAX)				
机组速度 Line speed	90m/min				



■ Highly reliable machine performance

■ High precise cut to length control

■ 准确的定长

■ 高速高精度喂料

High speed and high precision feeding

■ 有效的防划伤措施

■ Effective scratch-proof measure

■ 整齐的堆垛

■ 高效的材料利用率

■ Efficient material utilization

■ 友好的人机界面

■ Delightful man-machine interface

① 开卷机

Feeding unit

Tidy stacking

② 引料折头 ③ 夹送纠偏

Pinching and guiding

Cleaning machine

④ 压机入口

Inlet of press

Decoiler

⑤ 清洗机 ⑥ 电磁输送皮带

Electromagnetic conveying platform

⑦ 电磁堆垛机

Electromagnetic stacker

⑧ 堆垛成品

Stacked processed plates Waste discharge device

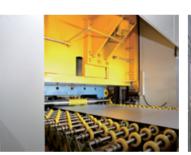
⑨ 排废装置 ⑩ 摆剪模

Oscillating shear mold





















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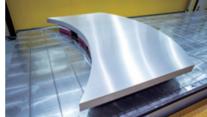
激光落料线



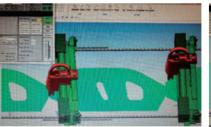


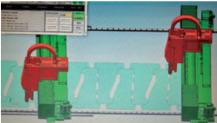












型号 Model	1650型	1850型	2150型		
原始卷料 Processing material	冷轧板、镀锌板、彩涂板、不锈钢板等 Cold-rolled steel coil, Galvanized coil, Color-coated coil, Stainless steel coil, etc.				
材料厚度 Processing sheet thickness	0.5mm-3.0mm	0.5mm-3.0mm	0.5mm-3.0mm		
材料宽度 Processing sheet width	1650mm (MAX)	1850mm (MAX)	2150mm (MAX)		
抗拉强度 δ_b	1200Mpa (Max)				
屈服强度 δ_s	1000Mpa (Max)				
卷料重量 Coil weight permitted	30T (MAX)	30T (MAX)	30T (MAX)		
机组速度 Line speed	40m/min(MAX)	40m/min(MAX)	40m/min(MAX)		

① 激光落料线

③ 干式清洗机

② 激光切割单元

⑥ 排废装置

⑦ 侧围仿真

④ 真空筛选装置 ⑧ B 柱仿真

⑤ 激光切割成品 Laser blanking line

Laser cutting unit

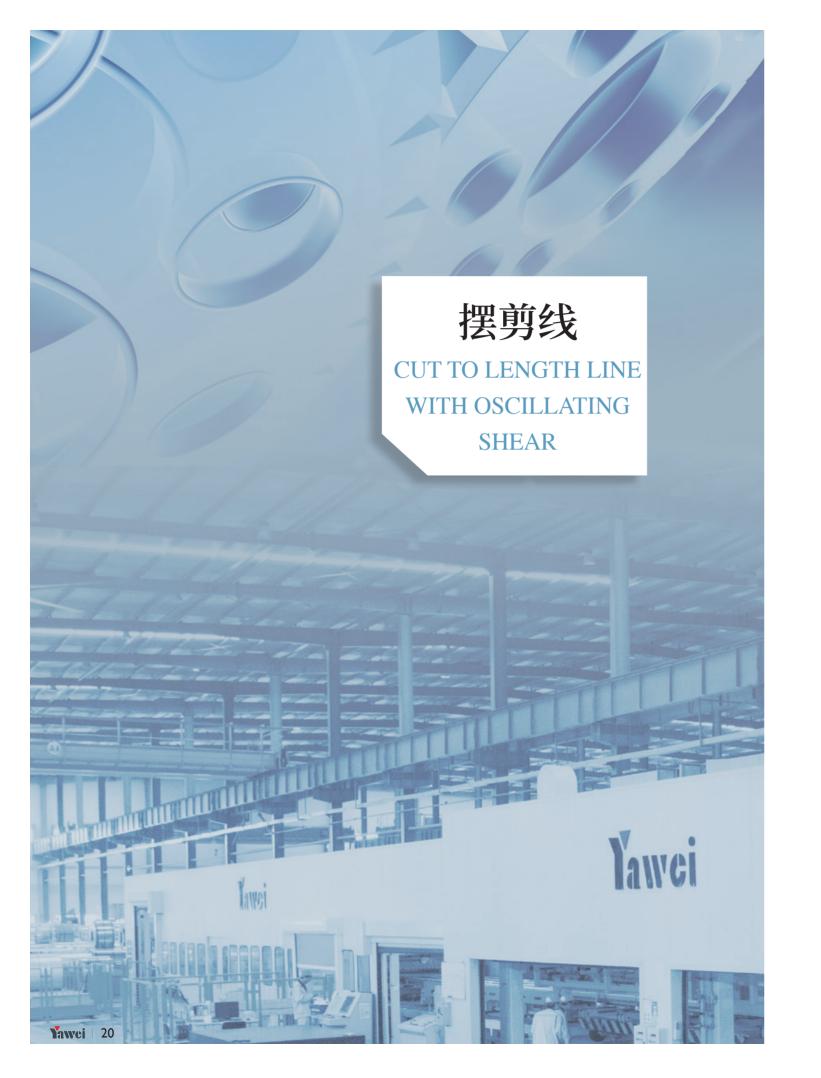
Dry cleaning machine

Laser cutting finished product

Waste discharge device Side panel simulation

B-pillar simulation Vacuum screening device

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飞摆剪 Oscillating Shear

摆剪模 Oscillating Shear Mold

停摆剪 Stop Oscillating Shear

飞摆剪

CUT TO LENGTH LINE WITH OSCILLATING SHEAR



型号 Model	1850型	2150型		
原始卷料 Processing material	冷轧板、镀锌板等 Cold-rolled steel coil, Galvanized coil, Color-coated coil, etc.			
材料厚度 Processing sheet thickness	0.5mm-3.0mm 0.5mm-3.0mm			
材料宽度 Processing sheet width	1850mm (MAX)	2150mm (MAX)		
抗拉强度 $\delta_{ ext{b}}$	1200Mpa (Max)			
屈服强度 δ _s	1000Mpa (Max)			
卷料重量 Coil weight permitted	30T (MAX)	30T(MAX)		
剪切精度 Cutting accuracy	±0.3mm/m			
角度精度 Angle accuracy	±6'			
机组速度 Line speed	70m/min			

- 高度可靠的机器性能
- 高品质的平整度
- 准确的定长
- 准确的摆动角度
- 高品质的板面质量
- 高效率的生产节奏
- 友好的人机界面

- Highly reliable machine performance
- High quality on flatness
- High precise cut to length control
- Exact oscillating angle
- Surface with high quality
- High efficiency for production
- Delightful man-machine interface















① 下动式矫直机 Straightener

② 摆剪机 Oscillating shear

③ 自动换辊 Head cutter

④ 圆弧剪 Circular shear

⑤ 防尘房 Dustproof room

⑥ 换模小车 Tool changing car

⑦ 电磁堆垛机 Electromagnetic stacker

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摆剪模

OSCILLATING SHEAR







型号 Model	
原始卷料 Processing material	冷轧板、镀锌板、彩涂板 Cold-rolled steel coil, galvanized coil, color-coated coil
材料厚度 Processing sheet thickness	0.5~3.0mm
材料宽度 Processing sheet width	1850、2050mm (客户指定宽度the customer specify the width)
剪切毛刺 Cutting burr	<厚度thickness×3%
摆动角度 Oscillating angle	±35°
摆动精度 Oscillating accuracy	±6'

停摆剪

CUT TO LENGTH LINE WITH START-STOP OSCILLATING SHEAR



Cut to length line with start-stop oscillating shear ② 停摆剪 Start-stop oscillating shear

③ 简易堆垛机 Simple stacker







型号 Model	800型	1250、1850、2050型		
原始卷料 Processing material	冷轧板、镀锌板、彩涂板 Cold-rolled steel coil, galvanized coil, color-coated coil			
材料厚度 Processing sheet thickness	0.5~3.5mm	0.5~3.5mm		
材料宽度 Processing sheet width	8000mm	1250、1850、2050mm		
剪切精度 Cutting accuracy	±0.3mm/m	±0.3mm/m		
剪切毛刺 Cutting burr	<厚度thickness×3%	<厚度thickness×3%		
摆动角度 Oscillating angle	±35°	±35°		
摆动精度 Oscillating accuracy	±6'	±6'		
送料线速度 Feeding speed	180m/min	180m/min		
机组线速度 Line speed	60m/min	190m/min		





飞剪线

CUT TO LENGTH LINE WITH ROTARY SHEAR



型号 Model	800型	800型 1250型		1850型	
原始卷料 Processing material	冷轧板、镀锌板、彩涂板、不锈钢板等 Cold-rolled steel coil, Galvanized coil, Color-coated coil, Stainless steel coil, etc.				
材料厚度 Processing sheet thickness	0.3mm-3.0mm 0.3mm-3.0mm 0.3mm-3.0mm				
材料宽度 Processing sheet width	800mm (MAX)	1250mm (MAX)	1650mm (MAX)	1850mm (MAX)	
抗拉强度 δb	1200Mpa (Max)				
屈服强度 δs		1000Mp	a (Max)		
卷料重量 Coil weight permitted	30T (MAX)	30T (MAX)	30T (MAX)	30T (MAX)	
剪切精度 Cutting accuracy	匀速±0.3mm,加减速±0.4mm				
机组速度 Line speed	70m/min 80m/min 90m/min 90m				





① 引料单元 Feeding unit ② 下动式矫直机 Straightener ③ 飞剪机 Rotary shear

④ 双工位堆垛 Double stations stacker

Belt conveyor ⑤ 输送皮带

■ 高度可靠的机器性能

- 高品质的平整度
- 准确的定长 ■ 高质量的剪切
- 高效率的生产节奏
- 友好的人机界面
- Highly reliable machine performance
- High quality on flatness
- High precise cut to length control
- High quality on cutting
- High efficiency for production
- Delightful man-machine interface









停剪线

CUT TO LENGTH LINE WITH STOP SHEAR



型号 Model	1250型	1650型	1850型	2000型	
原始卷料 Processing material	冷轧板、镀锌板、彩涂板、不锈钢板等 Cold-rolled steel coil, Galvanized coil, Color-coated coil, Stainless steel coil, etc.				
材料厚度 Processing sheet thickness	0.3mm-3.0mm 0.5mm-3.0mm 0.5mm-3.0mm 0.5mm-3.0m				
材料宽度 Processing sheet width	1250mm (MAX)	1650mm (MAX)	1850mm (MAX)	2000mm (MAX)	
抗拉强度 δb		1200Mp	a (Max)		
屈服强度 δs		1000Mp	a (Max)		
卷料重量 Coil weight permitted	20T (MAX)	20T (MAX)	20T (MAX)	20T (MAX)	
剪切精度 Cutting accuracy	±0.3mm	±0.5mm	±0.5mm	±0.5mm	
机组速度 Line speed	60m/min				









- 高度可靠的机械性能
- 高品质的平整度
- 准确的定长
- 高质量的剪切
- 整齐的堆垛
- 友好的人机界面
- 保养的方便和简单
- Highly reliable machine performance
- High quality on flatness
- High precise cut to length control
- High quality on cutting
- Perfect stacking
- Delightful man-machine interface
- Easy and simplenss maintenance

① 备料台 Material preparation table

② 下动式矫直机 Downward straightening machine

③ 剪板机 Shearing machine ④ 堆垛架 Stacking rack

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热轧停剪

CUT TO LENGTH LINE FOR HOT ROLLED COIL



型号 Model	800型	1650型	1850型	2000型	2200型
原始卷料 Processing material	热轧板、热轧酸洗板、不锈钢板等 Hot-rolled steel coil, Hot-acid-cleaning steel coil, Stainless steel coil, etc.				
材料厚度 Processing sheet thickness	1.0mm-6.0mm	1.0mm-6.0mm	3mm-12mm	5mm-20mm	8mm-25mm
材料宽度 Processing sheet width	800mm (MAX)	1650mm (MAX)	1850mm (MAX)	2000mm (MAX)	2200mm (MAX)
抗拉强度 δb	1200Mpa (Max)				
屈服强度 δs			1000Mpa (Max)		
卷料重量 Coil weight permitted	20T (MAX)	35T (MAX)	35T (MAX)	35T (MAX)	35T (MAX)
剪切精度 Cutting accuracy	±0.8mm/m	±0.8mm/m	±1.5mm/m	±1.8mm/m	±2.0mm/m
机组速度 Line speed	60m/min (MAX)	60m/min (MAX)	40m/min (MAX)	25m/min (MAX)	25m/min (MAX)

① 重型矫直机 Heavy duty straightener

② 堆垛机 Stacker

③ 龙门引料 Gantry feeding

Side trimming

⑤ 废边卷取机 Scrap recoiler

⑥ 重型堆垛机 Heavy duty stacker

⑦ 电气柜 E-cabinet











■ 高度可靠的机器性能

■ 准确的定长

■ 完全的应力消除

■ 精确的切边精度

■ 整齐的堆垛

■ 友好的人机界面

■ Highly reliable machine performance

■ High precise cut to length control

Completely eliminate stress

Accurate trimming

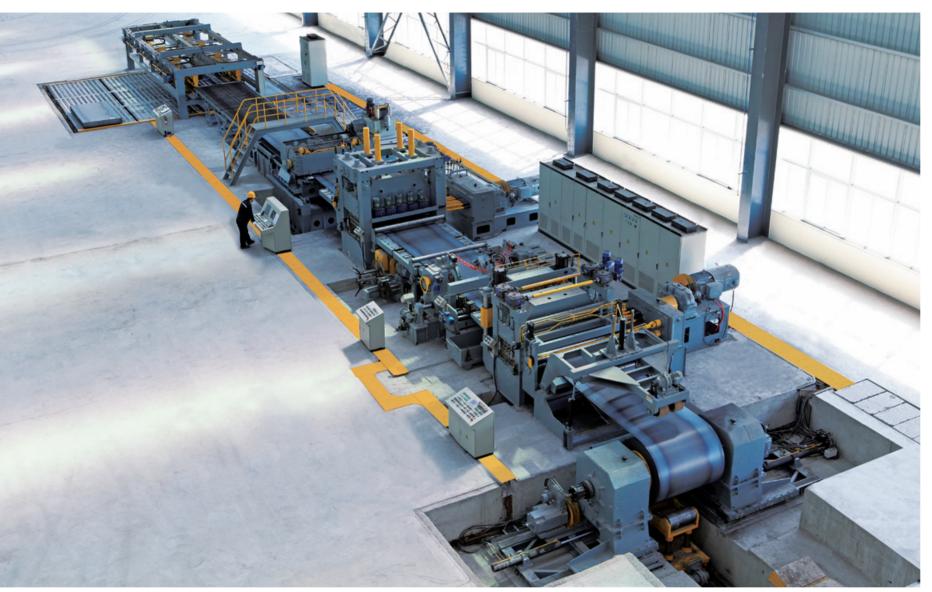
Tidy stacking

■ Delightful man-machine interface

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热轧移动剪

CUT TO LENGTH LINE WITH MOVING SHEAR FOR PROCESSING HOT ROLLED COIL



型号 Model	1650型	1850型	2000型	2200型
原始卷料 Processing material	热轧板、热轧酸洗板、不锈钢板等 Hot-rolled steel coil, Hot-acid-cleaning steel coil, Stainless steel coil, etc.			
材料厚度 Processing sheet thickness	1.0mm-6.0mm	3mm-12mm	5mm-20mm	8mm-25mm
材料宽度 Processing sheet width	1650mm (MAX)	1850mm (MAX)	2000mm (MAX)	2200mm (MAX)
抗拉强度 δb	1200Mpa (Max)			
屈服强度 δs	1000Mpa (Max)			
卷料重量 Coil weight permitted	35T (MAX)	35T (MAX)	35T (MAX)	35T (MAX)
剪切精度 Cutting accuracy	±0.8mm	±1.0mm	±1.5mm	±1.5mm
机组速度 Line speed	40m/min (MAX)	40m/min (MAX)	25m/min (MAX)	25m/min (MAX)

- 高度可靠的机器性能
- 准确的定长
- 完全的应力消除
- 精确的切边精度
- 高效的剪切效率
- 整齐的堆垛
- 友好的人机界面

① 引料装置 ⑤ 初矫机

⑥ 切边机

② 切头剪

③ 重型矫直机 ⑦ 移动剪

④ 重型堆垛机 ⑧ 移动剪

- Highly reliable machine performance
- High precise cut to length control
- Completely eliminate stress
- Accurate trimming
- Effective shear efficiency

Heavy duty stacker

- Tidy stacking
- Delightful man-machine interface

Feeding device Primary leveler Head cutter Edge trimming machine Moving shear Heavydutyleveler

Moving shear









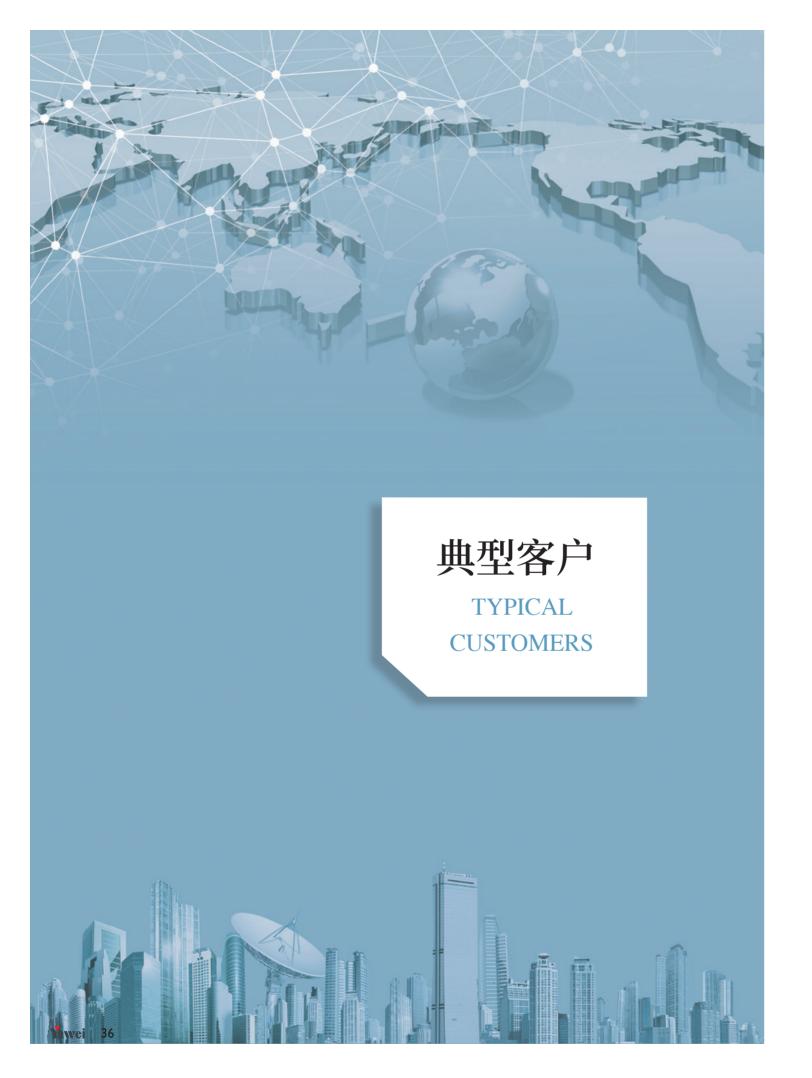








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典型客户一览

LIST OF TYPICAL CUSTOMERS



ANSTEEL

鞍钢集团

HBIS 河钢集团

M

MASTEEL 马钢集团

沙钢集团 SHAGANG GROUP

宏旺集团

东北轻合金有限责任公司



宝 山 钢 铁

南山铝业

明泰铝业

Motor

华峰

常铝股份

TISCO 太原钢铁(集团)有限公司





AUX 奥克斯









浙江华钇





SAMSUNG

YIPA

中国・伊沙拉股集团



SIEMENS

























































































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