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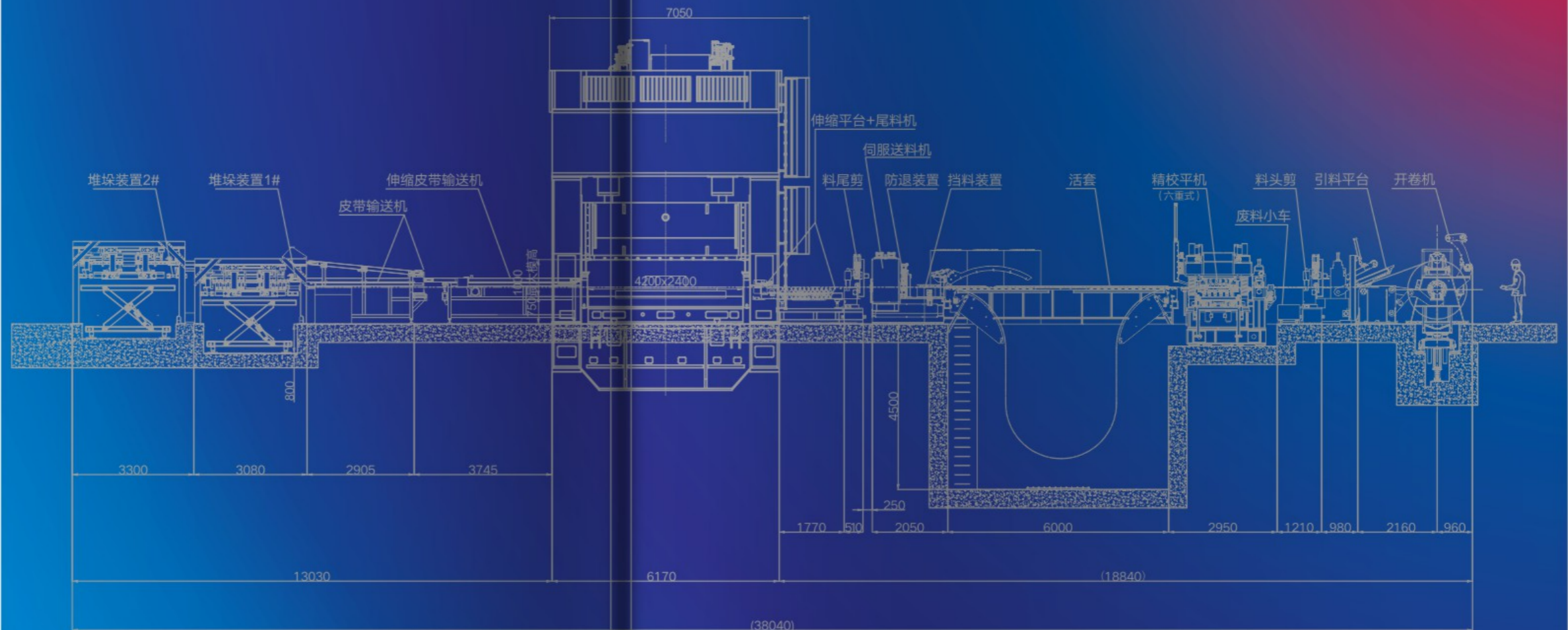
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FOCUS ON METAL PLATE

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**SINCE 2010**

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# About HAIWEI

## 关于海威



实物图片 actual image



非实物图仅供参考 not actual image just for reference



研发

海威智能是集设计、研发、生产、销售服务于一体的专业经营冲压自动化设备的生产企业，位于中国东莞。主要产品有三合一开卷整平送料线、开卷四重、六重式矫平送料线、各类分体式开卷机、整平机、送料线；用于片料上料二次元、三次元多工位传送机械手，独立传送机械手；以及各类依据客户需求而定制的各类解决方案，包括横剪线，旋转剪切线，落料线，可配合激光动态或静态切割，偏摆送料线等。海威产品广泛应用于汽车行业、家电行业及其它各类五金制品制造业。



生产

海威智能有超过70%的设备应用于汽车行业，客户包括大众、丰田、现代、吉利、特斯拉等品牌一级供应商以及宇通客车、比亚迪等主机厂等等。在汽车行业强度效率要求越来越高的环境下，海威不断提升自身研发能力，不断升级完善产品性能及结构，为客户创造价值。



销售

海威智能积极开拓国际市场，拥有自主进出口经营权，在国际汽配制造企业也有大量成功案例，包括捷克、意大利、葡萄牙、爱尔兰、西班牙、加拿大、墨西哥、南非等以及韩国、马来西亚、印尼、印度等众多东南亚市场。

海威智能本着质量第一、服务至上的原则，配备了一批高素质、国际化服务团队，充分发挥企业专业、迅速、便捷的服务特色，以诚信、创新、合作、共赢为企业宗旨，竭诚为广大用户提供更优质的产品、更完善的服务为客户创造价值。

Haiwei Intelligent is a professional manufacturer of stamping automation equipment, integrating design, research and development, production, sales and after-sales services etc., located in Dongguan, China. Main products are 3 in 1 decoiler straightener feeder, coil feed line with 4-high, 6-high leveling machine, independent decoiler, straightener, servo feeder, 2D, 3D transfer system for stamping plates, independent transfer manipulator; and various solutions customized according to customer needs, such as compact cut to length line, swing shear cut to length line, metal plate blanking line, automatic coil feed line for laser no matter static dynamic cutting, Zigzag metal circle/discs blanking line etc. Haiwei's products are widely used in the automobile industry, home appliance industry and other various hardware manufacturing industries.

More than 70% of Haiwei Smart's equipment is used in the automotive industry, and its customers include first-tier suppliers of Volkswagen, Toyota, Hyundai, Geely, Tesla and other brands, as well as OEMs such as Yutong Bus and BYD, etc. In the environment where the strength and efficiency requirements of the automobile industry are getting higher and higher, Haiwei continues to improve its own research and development capabilities, continuously upgrade and improve product performance and structure, and create value for customers.

Haiwei Intelligent actively explores the international market, has independent import and export management rights, and has a large number of successful cases in international auto parts manufacturing companies, including the Czech Republic, Italy, Portugal, Ireland, Spain, Canada, Mexico, South Africa, etc., as well as South Korea, Malaysia, Indonesia, India and many other Southeast Asian markets.

Based on the principle of quality first and service first, Haiwei Intelligent has equipped a group of high-quality and international service teams to give full play to the professional, rapid and convenient service characteristics of the enterprise, and takes integrity, innovation, cooperation and win-win as the corporate purpose, dedicated to provide customers with better products and better services to create value for customers.

# Company Culture

## 企业文化

**经营理念:**  
竭诚为广大用户提供更优质的产品、  
更完善的服务为客户创造价值。

**Business Philosophy:**  
Dedicated to provide customers with better  
quality products,  
Better services create value for customers.

**公司使命:**  
质量第一、服务至上。

**Company mission:**  
Quality first, service first.



**公司宗旨:**  
创造精品机械，持续与国际接轨

**Company Purpose:**  
Create high-quality machinery, continue to  
follow the international track

**公司愿景:**  
不断提升自身研发能力，不断升级  
完善产品性能及结构，为客户创造价值

**Company Vision:**  
Continuously improve its own research and  
development capabilities, and constantly upgrade  
Improve product performance and structure to  
create value for customers

# Industry

## 应用行业



# Enterprise Honor

## 企业荣誉



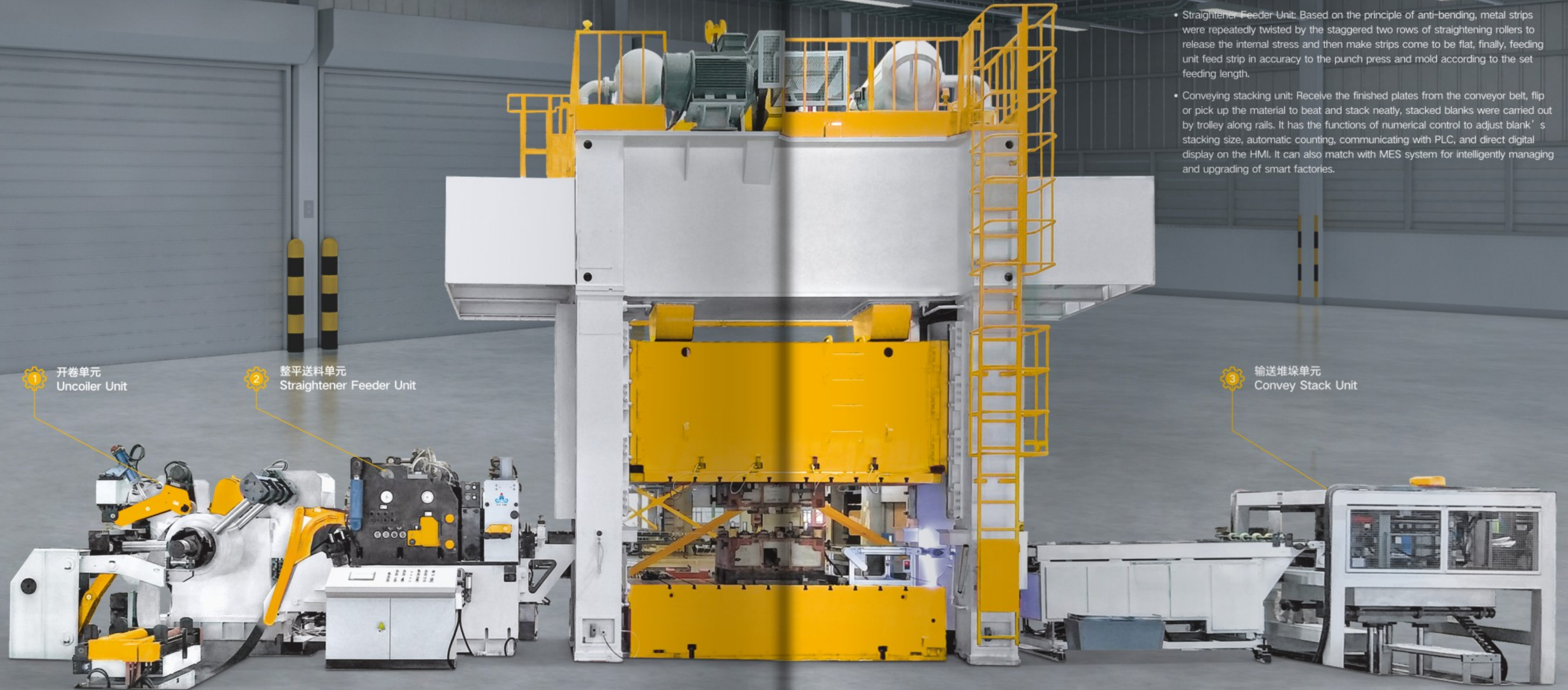
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专利证书

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# Heavy Duty Automatic Metal Coil Blanking Line

## 大型开卷落料生产线



1 开卷单元  
Uncoiler Unit

2 整平送料单元  
Straightener Feeder Unit

3 输送堆垛单元  
Convey Stack Unit

- 开卷单元：将料卷固定在支撑料卷内径的主轴扩缩部位上，配置料卷外径检测的压料跟随系统控制开卷速度，改善散料状况；通过料环控制指令让主轴间歇式转动开卷放料，从而保证开卷匀速运行。
- 整平送料单元：利用反弯曲原理通过上下交错的两排整平辊，进行反复弯曲释放材料内部应力以矫平板材，并根据设定的送料长度精准送到冲床和模具。
- 输送堆垛单元：接收来自输送带成品板材，翻转或接料机构进行拍打整齐码垛，向机组侧面出垛。具有数控调节板材尺寸，自动计数功能，与PLC通讯，在人机界面上直接数字显示。也可配MES系统进行数字化管理升级智能工厂。
- Uncoiler unit: It's used to fix coil on uncoiler's mandrel, supporting coil via inner diameter. It equips with press follow function of the motorized press arm device, it can match mandrel's speed to press arm wheel's speed automatically via press arm's angles, then it can solve coil getting loose problem. Through material loop controlling system, it can control decoiler payoff strip intermittently, so as to make spindle payoff coil smoothly and stably.
- Straightener Feeder Unit: Based on the principle of anti-bending, metal strips were repeatedly twisted by the staggered two rows of straightening rollers to release the internal stress and then make strips come to be flat, finally, feeding unit feed strip in accuracy to the punch press and mold according to the set feeding length.
- Conveying stacking unit: Receive the finished plates from the conveyor belt, flip or pick up the material to beat and stack neatly, stacked blanks were carried out by trolley along rails. It has the functions of numerical control to adjust blank's stacking size, automatic counting, communicating with PLC, and direct digital display on the HMI. It can also match with MES system for intelligently managing and upgrading of smart factories.

# Blanking Line With Multi-Station Transfer System

## 大型多工位落料生产线

- 开卷单元：将料卷固定在支撑料卷内径的主轴扩缩部位上，配置料卷外径检测的压料跟随系统控制开卷速度，改善散料状况；通过料环控制指令让主轴间歇式转动开卷放料，从而保证开卷匀速运行。
- 整平送料单元：利用反弯曲原理通过上下交错的两排整平辊，进行反复弯曲释放材料内部应力以矫平板材，并根据设定的送料长度精准送到冲床和模具。
- 三次元机械手单元：应对大型冲床设计的多轴独立伺服驱动机械手，多用于汽车五金冲压行业。
- Uncoiler unit: It's used to fix coil on uncoiler's mandrel, supporting coil via inner diameter. It equips with press follow function of the motorized press arm device, it can match mandrel's speed to press arm wheel's speed automatically via press arm's angles, then it can solve coil getting loose problem. Through material loop controlling system, it can control decoiler payoff strip intermittently, so as to make spindle payoff coil smoothly and stably.
- Straightener Feeder Unit: Based on the principle of anti-bending, metal strips were repeatedly twisted by the staggered two rows of straightening rollers to release the internal stress and then make strips come to be flat, finally, feeding unit feed strip in accuracy to the punch press and mold according to the set feeding length.
- 3D Transmission Manipulator system: It's multi-axis independent servo-driven manipulators, designed for heavy duty punching machines, mainly used in the automotive metal parts stamping industry.

1 开卷单元  
Uncoiler Unit

2 整平送料单元  
Straightener Feeder Unit

3 三次元传送机械手单元  
Transmission Manipulator Unit

# Heavy Duty Swing Shear Cut To Length Line

## 大型摆剪落料生产线

1 开卷单元  
Uncoiler Unit

2 整平送料单元  
Straightener Feeder Unit

3 剪切单元  
Cut Unit

4 输送堆垛单元  
Convey Stack Unit

- 开卷单元：将料卷固定在支撑料卷内径的主轴扩缩部位上，配置料卷外径检测的压料跟随系统控制开卷速度，改善散料状况；通过料环控制指令让主轴间歇式转动开卷放料，从而保证开卷匀速运行。
- 整平送料单元：利用反弯曲原理通过上下交错的两排整平辊，进行反复弯曲释放材料内部应力以矫平板材，并根据设定的送料长度精准送到冲床和模具。
- 剪切单元：配合整平送料单元，将运动中的板材按设定的尺寸进行高精度的剪切，可以将板材按设定的角度剪切成平行四边形、梯形等。
- 输送堆垛单元：接收来自输送带成品板材，翻转或接料机构进行拍打整齐码垛，向机组侧面出垛。具有数控调节板材尺寸，自动计数功能，与PLC通讯，在人机界面上直接数字显示。也可配MES系统进行数字化管理升级智能工厂。

- Uncoiler unit: It's used to fix coil on uncoiler's mandrel, supporting coil via inner diameter. It equips with press follow function of the motorized press arm device, it can match mandrel's speed to press arm wheel's speed automatically via press arm's angles, then it can solve coil getting loose problem. Through material loop controlling system, it can control decoiler payoff strip intermittently, so as to make spindle payoff coil smoothly and stably.
- Straightener Feeder Unit: Based on the principle of anti-bending, metal strips were repeatedly twisted by the staggered two rows of straightening rollers to release the internal stress and then make strips come to be flat, finally, feeding unit feed strip in accuracy to the punch press and mold according to the set feeding length.
- Cut unit: cooperate with the straightener and feeder unit to cut the moving plate with high precision according to the set size, and can cut the plate into parallelogram, trapezoid, etc. according to the set angle
- Conveying stacking unit: Receive the finished plates from the conveyor belt, flip or pick up the material to beat and stack neatly, stacked blanks were carried out by trolley along rails. It has the functions of numerical control to adjust blank's stacking size, automatic counting, communicating with PLC, and direct digital display on the HMI. It can also match with MES system for intelligently managing and upgrading of smart factories.

# Independent Uncoiler Straightener Coil Feeding Line

## 分体式开卷整平送料线

1 开卷单元  
Uncoiler Unit

2 整平单元  
Straightener Feeder Unit

3 过渡桥  
Transition Bridge

4 定尺送料单元  
Length Feeder Unit

- 开卷单元：将料卷固定在支撑料卷内径的主轴扩缩部位上，配置料卷外径检测的压料跟随系统控制开卷速度，改善散料状况；通过料环控制指令让主轴间歇式转动开卷放料，从而保证开卷匀速运行。
- 整平送料单元：利用反弯曲原理通过上下交错的两排整平辊，进行反复弯曲释放材料内部应力以矫平板材，并根据设定的送料长度精准送到冲床和模具。
- 过渡桥：采用液压油缸驱动，在整平机与伺服送料机之间做一个入料桥，将材料平稳送至伺服送料机，上料更有效率，自动运转时落至地坑，保证充足的料弧空间。
- 定尺送料单元：将材料按设定尺寸送入冲压设备。
- Uncoiler unit: It's used to fix coil on uncoiler's mandrel, supporting coil via inner diameter. It equips with press follow function of the motorized press arm device, it can match mandrel's speed to press arm wheel's speed automatically via press arm's angles, then it can solve coil getting loose problem. Through material loop controlling system, it can control decoiler payoff strip intermittently, so as to make spindle payoff coil smoothly and stably.
- Straightener Feeder Unit: Based on the principle of anti-bending, metal strips were repeatedly twisted by the staggered two rows of straightening rollers to release the internal stress and then make strips come to be flat, finally, feeding unit feed strip in accuracy to the punch press and mold according to the set feeding length.
- Transition support bridge: The support bridges were set between straightener machine and servo feeder, driven by hydraulic cylinders, used to conveniently insert strip head into servo feeder. They come down to the pit during automatic operation, having advantages of high efficiency and stocking enough loop.
- Length Feed Unit: feed metal strip accurately into the stamping equipment according to the set size.



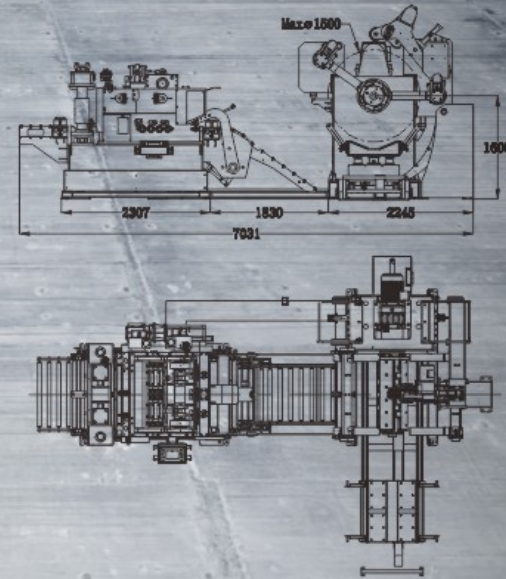
# NCHW5A

3 In 1 Decoiler  
Straightener Feeder



## 特点 / Features

- 适用于中高强板，不锈钢等材料，厚度范围1.0-12.0mm。
- 特别为高强板而设计的箱体式结构，上下整平辊均有补强结构，确保应力消除效果达标。
- 电动调整矫正量的方式取代手动式转柄矫正量调整方式，使得操作更加容易。
- 创新的机械结构，使全机所需作业空间缩至最小。
- 采用全套西门子伺服控制系统，确保高精度送料；人性化的设计，配合安全保护系统便于人员操作。
- Suitable for medium and high-strength plates, stainless steel and other materials, thickness range of 1.0-12.0mm.
- The housing-type structure is specially designed for high-strength plates, and the upper and lower leveling rollers have reinforcement structures to ensure that the stress relief effect meets the standard.
- Electric adjusting straightener gap, replacing manually adjusting via turning handle wheels, making operation easier.
- The innovative mechanical structure minimizes the working space required by the whole machine.
- Full set of Siemens servo control system: high-precision feeding; humanized design and safety protection system etc., convenient for operating.



# NCHW5A

3 In 1 Decoiler  
Straightener Feeder

## 三合一 开卷整平送料机



## 技术参数 / Technical Parameter

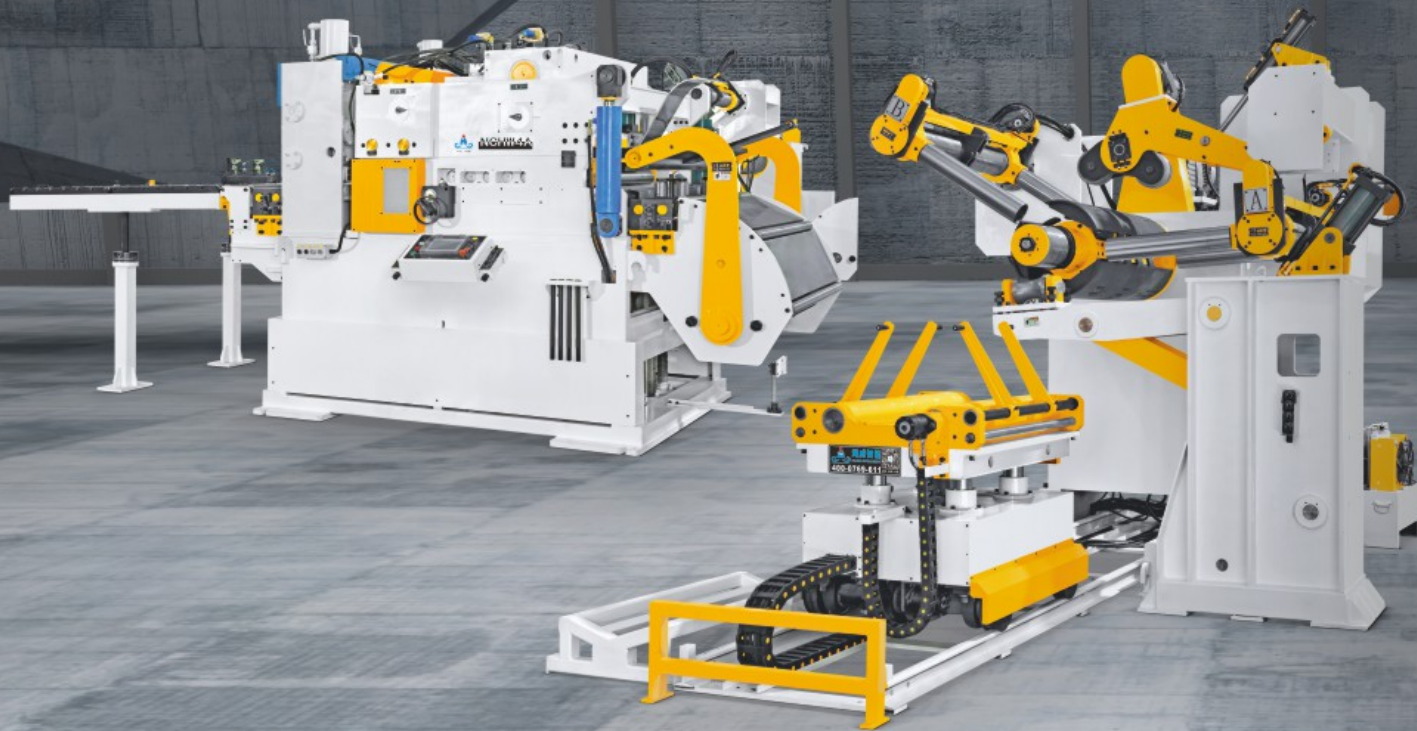
型号	Model	NCHW5-400A	NCHW5-600A	NCHW5-800A	NCHW5-1000A
材料宽度(mm)	Material Width	70~400	70~600	70~800	70~1000
材料厚度(mm)	Material Thickness			1~12	
卷料重量(kg)	Coil Weight MAX	5000	5000	7000	7000
卷料外径(Φ)	Coil O.D			1500	
卷料内径(Φ)	Coil I.D			508/610	
最大送料长度(mm)	Max Feed Length			0~9999.99	
生产线速度(m/min)	Feed Speed			12~16	
矫正辊轮(支)(pcs)	Straightening Roller			上4/下3 Upper4/Lower3	
矫正辊轮直径(Φ)	Straightening Diameter			114	
送料辊轮(组)	Feed Roller			1	
送料辊轮直径(Φ)	Feed Roller Diameter	120	120	144	144
主电机	Main Motor	AC15	AC15	AC22	AC22
料架扩张方式	Mandrel Expansion			油压 Hydraulic	
料架电机(KW)	Decoiler Motor	5.5	5.5	7.5	7.5
使用电源电压(V)	Power Supply	3相380V/50HZ/客户要求 3Phase380V/50HZ/As customer request			
使用空气压(MPa)	Air Pressure			0.5	
送料线高度调节	Feeding line height adjust method			电动调节 Electric Adjustment	

## 矫正能力 / Straightener Performance

型号	Model	NCHW5-400A	NCHW5-600A	NCHW5-800A	NCHW5-1000A
	1.0~4.0	400	600	800	1000
	5.0	400	600	800	950
	6.0	400	600	712	712
	7.0	400	523	523	523
料厚 Material Thickness (mm)	8.0	400	400	400	400
	9.0	316	316	316	316
	10.0	256	256	256	256
	11.0	212	212	212	212
	12.0	178	178	178	178

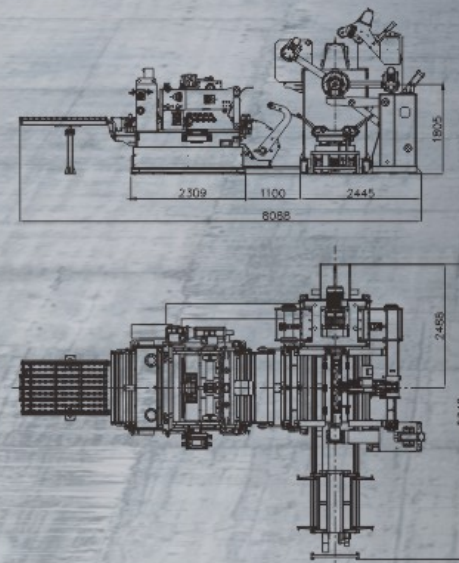
# NCHW4A

3 In 1 Decoiler  
Straightener Feeder



## 特点 / Features

- 适用于中高板, 不锈钢等材料, 厚度范围1.0-8.0mm。
- 特别为高板而设计的箱体式结构, 上下整平辊均有补强结构, 确保应力消除效果达标。
- 电动调整矫正量的方式取代手动式转柄矫正量调整方式, 使得操作更加容易。
- 采用全套西门子伺服控制系统, 确保高精度送料; 人性化的设计, 配合安全保护系统便于人员操作。
- 可掀开式上整平滚轮组, 能迅速彻底的清洁整平辊、方便机械点检。
- Suitable for medium and high-strength plates, stainless steel and other materials, thickness range of 1.0-8.0mm.
- The housing-type structure is specially designed for high-strength plates, and the upper and lower leveling rollers have reinforcement structures to ensure that the stress relief effect meets the standard.
- Electric adjusting straightener gap, replacing manually adjusting via turning handle wheels, making operation easier.
- Full set of Siemens servo control system: high-precision feeding; humanized design and safety protection system etc., convenient for operating.
- The upper leveling roller group can be opened, which can quickly and thoroughly clean the straightener roller and facilitate mechanical inspection.



# NCHW4A

3 In 1 Decoiler  
Straightener Feeder

## 三合一 开卷整平送料机



## 技术参数 / Technical Parameter

型号	Model	NCHW4-400A	NCHW4-600A	NCHW4-800A	NCHW4-1000A	NCHW4-1300A	NCHW4-1600A	NCHW4-1800A
材料宽度(mm)	Material Width	70-400	70-600	70-800	70-1000	70-1300	70-1600	70-1800
材料厚度(mm)	Material Thickness	1.0-9.0						
卷料重量(kg)	Coil Weight MAX	3000	5000	7000	7000	10000	15000	15000
卷料外径(Φ)	Coil O.D	1500						
卷料内径(Φ)	Coil I.D	508/610						
最大送料长度(mm)	Max Feed Length	0-9999.99						
生产线速度(m/min)	Feed Speed	22						
矫正辊轮(支)(pcs)	Straightening Roller	上5/下4 Upper5/Lower4						
矫正辊轮直径(Φ)	Straightening Diameter	96						
送料辊轮(组)	Feed Roller	1						
送料辊轮直径(Φ)	Feed Roller Diameter	120	120	120/144	120/144	144	144	144
主电机	Main Motor	AC7.0/AC11.0	AC11.0/AC15.0	AC11.0/AC15.0	AC15.0	AC22.0	AC29.0	AC36.0
料架扩张方式	Mandrel Expansion	油压 Hydraulic						
料架电机(KW)	Decoiler Motor	3.75/5.5	5.5/7.5	7.5	7.5	11	15	15
使用电源电压(V)	Power Supply	3相380V/50HZ/客户要求 3Phase380V/50HZ/As customer request						
使用空气压(MPa)	Air Pressure	0.5						
送料线高度调节	Feeding line height adjust method	电动调节 Electric Adjustment						

## 矫正能力 / Straightener Performance

型号	Model	NCHW4-400A	NCHW4-600A	NCHW4-800A	NCHW4-1000A	NCHW4-1300A	NCHW4-1600A	NCHW4-1800A
料厚 Material Thickness (mm)	1.0-2.0	400	600	800	1000	1300	1600	1800
	2.5	400	533	527	527	1050	1050	1050
	2.8	400	432	427	427	826	826	826
	3.2	374	374	369	369	632	632	632
	4.0	292	292	292	292	405	405	405
	4.5	257	257	257	257	320	320	320
	5.0	228	228	228	228	259	259	259
	6.0	180	180	180	180	180	180	180
	7.0	132	132	132	132	132	132	132
	8.0	101	101	101	101	101	101	101

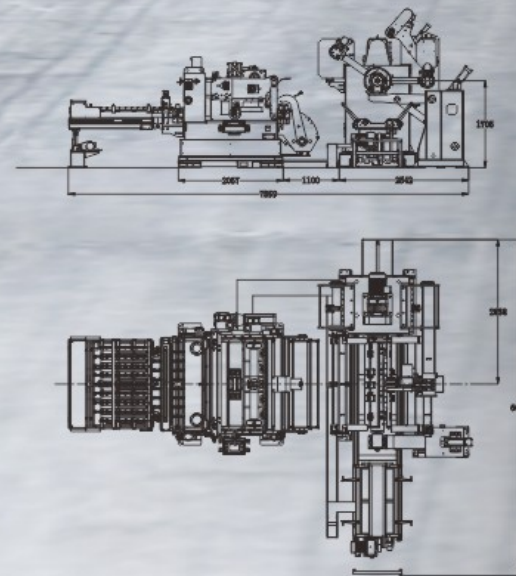
# NCHW3A

3 In 1 Decoiler  
Straightener Feeder



## 特点 / Features

- 适用于中高强度板，不锈钢等材料，厚度范围0.6-6.0mm。
- 特别为高强度板而设计的箱体式结构，上下整平辊均有补强结构，确保应力消除效果达标。
- 电动调整矫正量的方式取代手动式转柄矫正量调整方式，使得操作更加容易。
- 采用全套西门子伺服控制系统，确保高精度送料；人性化的设计，配合安全保护系统便于人员操作。
- 可掀开式上整平滚轮组，能迅速彻底的清洁整平辊、方便机械点检。
- It is suitable for medium and high strength plates, stainless steel and other materials, thickness range of 0.6-6.0mm.
- The housing-type structure is specially designed for high-strength plates, and the upper and lower leveling rollers have reinforcement structures to ensure that the stress relief effect meets the standard.
- Electric adjusting straightener gap, replacing manually adjusting via turning handle wheels, making operation easier.
- Full set of Siemens servo control system: high-precision feeding; humanized design and safety protection system etc., convenient for operating.
- The upper leveling roller group can be opened, which can quickly and thoroughly clean the straightener roller and facilitate mechanical inspection.



# NCHW3A

3 In 1 Decoiler  
Straightener Feeder

三合一  
开卷整平送料机



## 技术参数 / Technical Parameter

型号	Model	NCHW3-400A	NCHW3-600A	NCHW3-800A	NCHW3-1000A	NCHW3-1300A	NCHW3-1600A	NCHW3-1600A
材料宽度(mm)	Material Width	70-400	70-600	70-800	70-1000	100-1300	100-1600	100-1800
材料厚度(mm)	Material Thickness	0.6-6.0						
卷料重量(kg)	Coil Weight MAX	3000	5000	7000	7000	12000	15000	15000
卷料外径(Φ)	Coil O.D	1500						
卷料内径(Φ)	Coil I.D	508/610						
最大送料长度(mm)	Max Feed Length	0-9999.99						
生产线速度(m/min)	Feed Speed	16-24						
矫正辊轮(支)(pcs)	Straightening Roller	上5/下4 Upper5/Lower4 上6/下5 Upper6/Lower5						
矫正辊轮直径(Φ)	Straightening Diameter	84						
送料辊轮(组)	Feed Roller	1						
送料辊轮直径(Φ)	Feed Roller Diameter	96	96	120	120	136	136	AC22.0/AC29
主电机	Main Motor	AC5.0/AC7.0	AC7.0	AC11.0	AC11.0	AC15.0	AC22.0	AC22.0/AC29
料架扩张方式	Mandrel Expansion	油压 Hydraulic						
料架电机(KW)	Decoiler Motor	2.2	3.75	5.5	5.5	7.5	11	11
使用电源电压(V)	Power Supply	3相380V/50HZ/客户要求 3Phase380V/50HZ/As customer request						
使用空气压(MPa)	Air Pressure	0.5						
送料线高度调节	Feeding line height adjust method	电动调节 Electric Adjustment						

## 矫正能力 / Straightener Performance

型号	Model	NCHW3-400A	NCHW3-600A	NCHW3-800A	NCHW3-1000A	NCHW3-1300A	NCHW3-1600A	NCHW3-1600A
料厚 Material Thickness (mm)	1.0-2.0	400	600	800	1000	1300	1600	1800
	2.3	400	558	558	558	816	816	816
	2.5	400	472	472	472	691	691	691
	2.8	376	376	376	376	551	551	551
	3.2	288	288	288	288	422	422	422
	4.0	184	184	184	184	270	270	270
	4.5	146	146	146	146	203	203	203
	5.0	118	118	118	118	165	165	165
	6.0	82	82	82	82	114	114	114

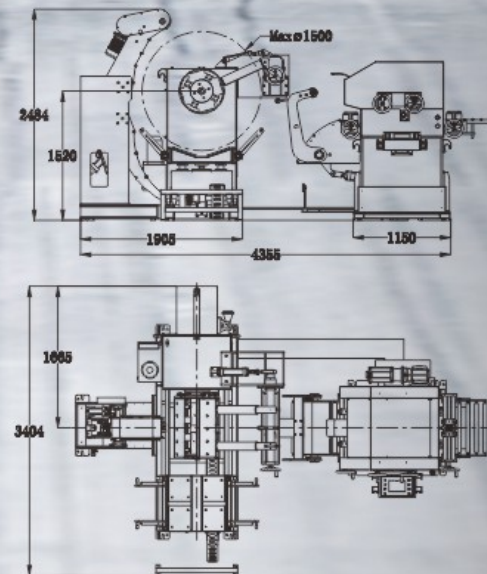
# NCHW3B

3 In 1 Decoiler  
Straightener Feeder



## 特点 / Features

- 适用于普通低碳钢，镀锌板等材料，厚度范围0.6-6.0mm。
- 电动调整矫正量的方式取代手动式转柄矫正量调整方式，使得操作更加容易。
- 创新的机械结构，使全机所需作业空间缩至最小。
- 特别为高强度板而设计的箱体式结构 上下整平辊均有补强结构，保证应力消除效果达标。
- 采用全套西门子伺服控制系统，确保高精度送料；人性化的设计，配合安全保护系统便于人员。
- Suitable for ordinary low carbon steel, galvanized sheet and other materials, thickness range is 0.6-6.0mm.
- Electric adjusting straightener gap, replacing manually adjusting via turning handle wheels, making operation easier.
- The innovative mechanical structure minimizes the working space required by the whole machine.
- The housing-type structure is specially designed for high-strength plates, and the upper and lower leveling rollers have reinforcement structures to ensure that the stress relief effect meets the standard.
- Full set of Siemens servo control system: high-precision feeding; humanized design and safety protection system etc., convenient for operating.



# NCHW3B

3 In 1 Decoiler  
Straightener Feeder

## 三合一 开卷整平送料机



## 技术参数 / Technical Parameter

型号	Model	NCHW3-400B	NCHW3-600B	NCHW3-800B	NCHW3-1000B
材料宽度(mm)	Material Width	70-400	70-600	70-800	70-1000
材料厚度(mm)	Material Thickness			0.6-6.0	0.6-6.0
卷料重量(kg)	Coil Weight MAX	3000	5000	7000	7000
卷料外径(Φ)	Coil O.D			1500	
卷料内径(Φ)	Coil I.D			508/610	
最大送料长度(mm)	Max Feed Length			0-9999.99	
生产线速度(m/min)	Feed Speed			16-24	
矫正辊轮(支)(pcs)	Straightening Roller			上4/下3 Upper4/Lower3	
矫正辊轮直径(Φ)	Straightening Diameter			84	
送料辊轮(组)	Feed Roller				1
送料辊轮直径(Φ)	Feed Roller Diameter	96	96	96	120
主电机	Main Motor	AC3.5/AC5.0	AC7.0	AC7.0	AC11.0
料架扩张方式	Mandrel Expansion			液压 Hydraulic	
料架电机(KW)	Decoiler Motor	2.2	2.2	3.75	3.75
使用电源电压(V)	Power Supply	3相380V/50HZ/客户要求 3Phase380V/50HZ/As customer request			
使用空气压(MPa)	Air Pressure	0.5			
送料线高度调节	Feeding line height adjust method	电动调节Electric Adjustment			

## 矫正能力 / Straightener Performance

型号	Model	NCHW3-400B	NCHW3-600B	NCHW3-800B	NCHW3-1000B
	0.6~2.5	400	600	800	1000
	2.8	400	600	800	933
	3.2	400	600	714	714
料厚 Material Thickness (mm)	4.0	400	457	457	457
	4.5	361	361	361	361
	5.0	293	293	293	293
	6.0	203	203	203	203

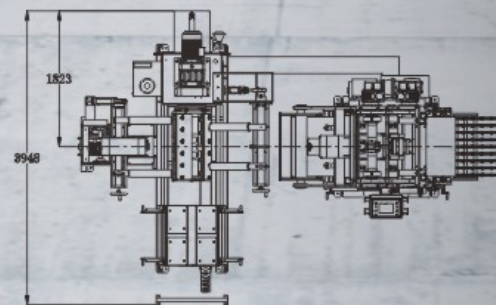
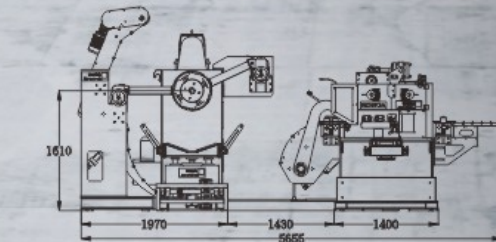
# NCHW2A

3 In 1 Decoiler  
Straightener Feeder



## 特点 / Features

- 适用于中高强度板，不锈钢等材料，厚度范围0.5-4.5mm。
- 特别为高强度板而设计的箱体式结构，上下整平辊均有补强结构，确保应力消除效果达标。
- 电动调整矫正量的方式取代手动式转柄矫正量调整方式，使得操作更加容易。
- 创新的机械结构，使全机所需作业空间缩至最小。
- 采用全套西门子伺服控制系统，确保高精度送料；人性化的设计，配合安全保护系统便于人员操作。
- It is suitable for medium and high strength plates, stainless steel and other materials, with a thickness range of 0.5-4.5mm.
- The housing-type structure is specially designed for high-strength plates, and the upper and lower leveling rollers have reinforcement structures to ensure that the stress relief effect meets the standard.
- Electric adjusting straightener gap, replacing manually adjusting via turning handle wheels, making operation easier.
- The innovative mechanical structure minimizes the working space required by the whole machine.
- Full set of Siemens servo control system: high-precision feeding; humanized design and safety protection system etc., convenient for operating.



# NCHW2A

3 In 1 Decoiler  
Straightener Feeder

三合一  
开卷整平送料机



## 技术参数 / Technical Parameter

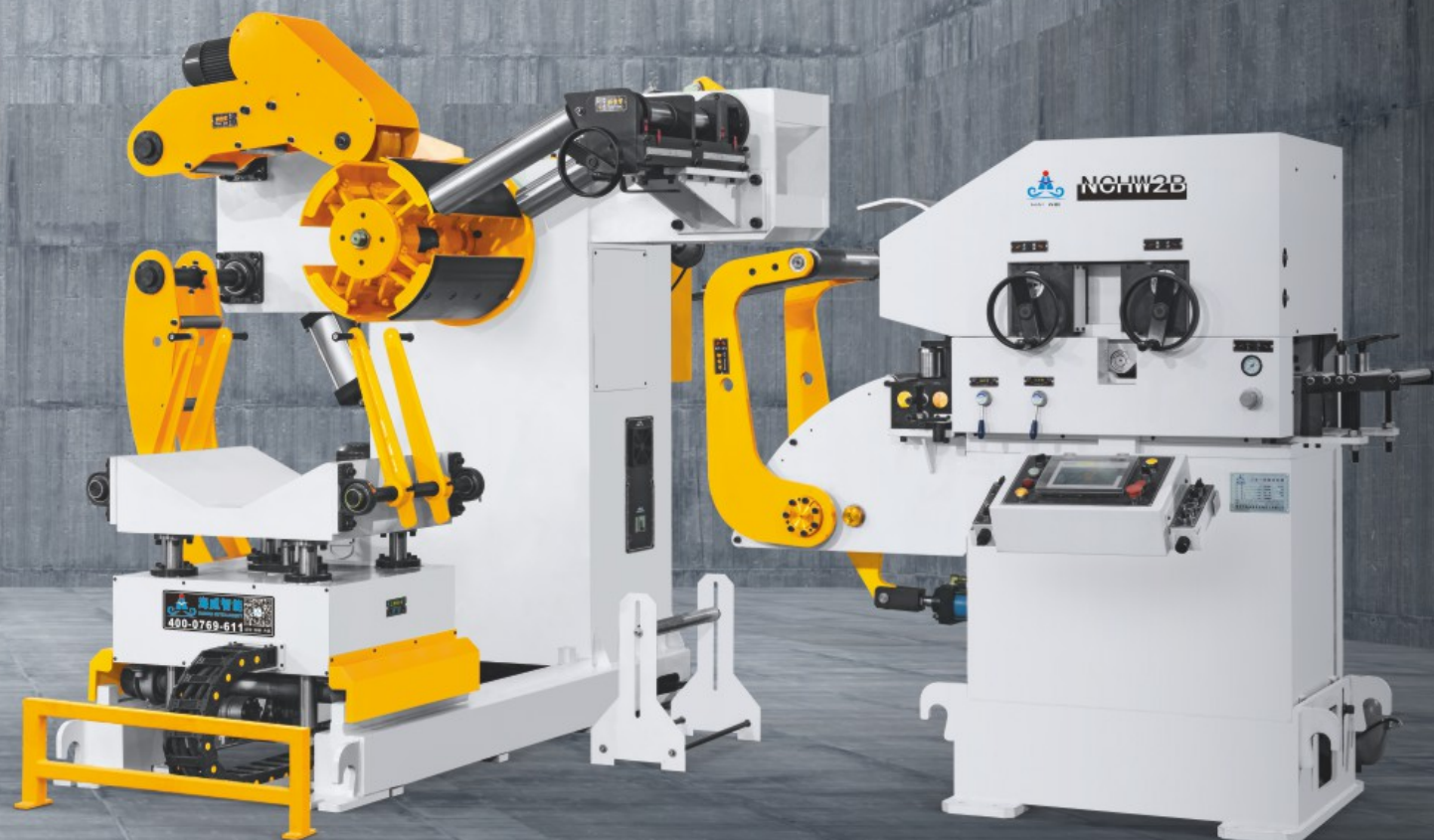
型号	Model	NCHW2-400A	NCHW2-600A	NCHW2-800A	NCHW2-1000A	NCHW2-1300A
材料宽度(mm)	Material Width	70-400	70-600	70-800	70-1000	70-1300
材料厚度(mm)	Material Thickness				0.5-4.5	
卷料重量(kg)	Coil Weight MAX	3000	5000	7000	7000	10000
卷料外径(Φ)	Coil O.D				1400	
卷料内径(Φ)	Coil I.D				508/610	
最大送料长度(mm)	Max Feed Length				0-9999.9	
生产线速度(m/min)	Feed Speed				16-24	
矫正辊轮(支)(pcs)	Straightening Roller				上5/下4 / Upper5/Lower4	上6/下5 / Upper6/Lower5
矫正辊轮直径(Φ)	Straightening Diameter				68	
送料辊轮(组)	Feed Roller				1	
送料辊轮直径(Φ)	Feed Roller Diameter	84	84	96	96/120	120
主电机	Main Motor	AC5.0	AC5.0	AC7.0	AC7.0/AC11.0	Ac11.0
料架扩张方式	Mandrel Expansion				油压 Hydraulic	
料架电机(KW)	Decoiler Motor	2.2	2.2/3.75	3.75	3.75	5.5
使用电源电压(V)	Power Supply				3相380V/50HZ/客户要求 3Phase380V/50HZ/As customer request	
使用空气压(MPa)	Air Pressure				0.5	
送料线高度调节	Feeding line height adjust method				电动调节 Electric Adjustment	

## 矫正能力 / Straightener Performance

型号	Model	NCHW2-400A	NCHW2-600A	NCHW2-800A	NCHW2-1000A	NCHW2-1300A
	0.5-1.2	400	600	800	1000	1300
	1.6	400	600	800	903	1024
	2.0	400	520	520	520	657
料厚 Material Thickness (mm)	2.3	400	394	394	394	466
	2.5	333	333	333	333	395
	2.8	266	266	266	266	315
	3.2	203	203	203	203	241
	4.5	103	103	103	103	122

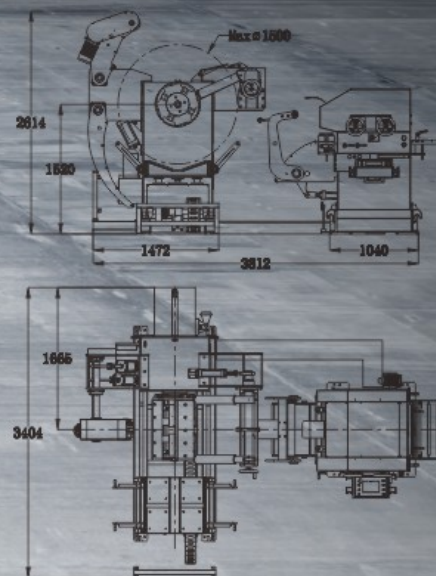
# NCHW2B

3 In 1 Decoiler  
Straightener Feeder



## 特点 / Features

- 适用于普通低碳钢，镀锌板等材料，厚度范围0.5-4.5mm。
- 创新的机械结构，使全机所需作业空间缩至最小。
- 特别为高强度板而设计的箱体式结构，上下整平辊均有补强结构，保证应力消除效果达标。
- 采用全套西门子伺服控制系统，确保高精度送料；人性化的设计，配合安全保护系统便于人员操作。
- Suitable for ordinary low carbon steel, galvanized sheet and other materials, the thickness range is 0.5-4.5mm.
- The innovative mechanical structure minimizes the working space required by the whole machine.
- The housing-type structure is specially designed for high-strength plates, and the upper and lower leveling rollers have reinforcement structures to ensure that the stress relief effect meets the standard.
- Full set of Siemens servo control system: high-precision feeding; humanized design and safety protection system etc., convenient for operating.



# NCHW2B

3 In 1 Decoiler  
Straightener Feeder

三合一  
开卷整平送料机



## 技术参数 / Technical Parameter

型号	Model	NCHW2-400B	NCHW2- 600B	NCHW2-800B	NCHW2-1000B
材料宽度(mm)	Material Width	70-400	70-600	70-800	70-1000
材料厚度(mm)	Material Thickness			0.5-4.5	
卷料重量(kg)	Coil Weight MAX	3000	5000	7000	7000
卷料外径(Φ)	Coil O.D			1400	
卷料内径(Φ)	Coil I.D			508/610	
最大送料长度(mm)	Max Feed Length			0-9999.9	
生产线速度(m/min)	Feed Speed			16-24	
矫正辊轮(支)(pcs)	Straightening Roller	上4/下3 Upper4/Lower3	上4/下3 Upper4/Lower3	上4/下3 Upper4/Lower3	上4/下3 Upper4/Lower3
矫正辊轮直径(Φ)	Straightening Diameter			68	
送料辊轮(组)	Feed Roller			1	
送料辊轮直径(Φ)	Feed Roller Diameter	84	84	96	96
主电机	Main Motor	AC3.5	AC5.0	AC7.0	AC7.0
料架扩张方式	Mandrel Expansion			油压 Hydraulic	
料架电机(KW)	Decoiler Motor	2.2	2.2	3.75	3.75
使用电源电压(V)	Power Supply	3相380V/50HZ/客户要求 3Phase380V/50HZ/As customer request			
使用空气压(MPa)	Air Pressure	0.5			
送料线高度调节	Feeding line height adjust method	电动调节 Electric Adjustment			

## 矫正能力 / Straightener Performance

型号	Model	NCHW2-400B	NCHW2- 600B	NCHW2-800B	NCHW2-1000B
	0.5-1.2	400	600	800	1000
	1.2	400	600	800	1000
	1.6	400	600	800	938
料厚 Material Thickness (mm)	2.0	400	600	759	759
	2.3	400	600	574	574
	2.8	387	387	387	387
	3.2	297	297	297	297
	4.5	152	152	152	152

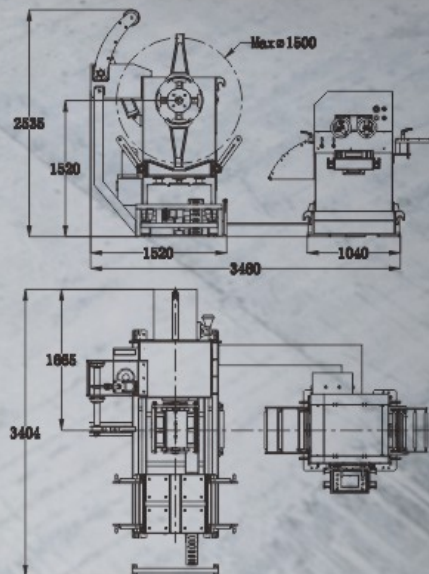
# NCHW1B

3 In 1 Decoiler  
Straightener  
Feeder



## 特点 / Features

- 适用于普通低碳钢，镀锌板，薄板不锈钢等材料，厚度范围0.3-3.2mm。
- 创新的机械结构，使全机所需作业空间缩至最小。
- 采用全套西门子伺服控制系统，确保高精度送料；人性化的设计，配合安全保护系统便于人员操作。
- Suitable for ordinary low carbon steel, galvanized sheet, thin stainless steel and other materials, the thickness range is 0.3-3.2mm.
- The innovative mechanical structure minimizes the working space required by the whole machine.
- Full set of Siemens servo control system: high-precision feeding; humanized design and safety protection system etc., convenient for operating.



# NCHW1B

3 In 1 Decoiler  
Straightener Feeder

## 三合一 开卷整平送料机



## 技术参数 / Technical Parameter

型号	Model	NCHW1-400B	NCHW1-600B	NCHW1-800B	NCHW1-1000B	NCHW1-1300B
材料宽度(mm)	Material Width	70~400	70~600	70~800	70~1000	70~1300
材料厚度(mm)	Material Thickness	0.3~3.2				
卷料重量(kg)	Coil Weight MAX	3000	5000	5000/7000	7000	7000
卷料外径(Φ)	Coil O.D	1400				
卷料内径(Φ)	Coil I.D	508/610				
最大送料长度(mm)	Max Feed Length	0~9999.9				
生产线速度(m/min)	Feed Speed	16~24				
矫正辊轮(支)(pcs)	Straightening Roller	上5/下4 Upper5/Lower4				
矫正辊轮直径(Φ)	Straightening Diameter	48	48	48	60	60
送料辊轮(组)	Feed Roller	1				
送料辊轮直径(Φ)	Feed Roller Diameter	72	72	72	72	72
主电机	Main Motor	AC3.5	AC3.5	AC5.0	AC5.0	AC7.0
料架扩张方式	Mandrel Expansion	油压 Hydraulic				
料架电机(KW)	Decoiler Motor	2.2	2.2	3.75	3.75	3.75
使用电源电压(V)	Power Supply	3相380V/50HZ/客户要求 3Phase380V/50HZ/As customer request				
使用空气压(MPa)	Air Pressure	0.5				
送料线高度调节	Feeding line height adjust method	电动调节 Electric Adjustment				

## 矫正能力 / Straightener Performance

型号	Model	NCHW1-400B	NCHW1-600B	NCHW1-800B	NCHW1-1000B	NCHW1-1300B
	0.3~1.0	400	600	800	1000	1300
	1.2	400	600	800	1000	1300
料厚 Material Thickness (mm)	1.6	273	273	600	600	600
	2.0	209	209	320	320	320
	2.5	145	145	240	240	240
	3.2	101	101	180	180	160

# 3 In 1 Option

## 三合一选配项

### 一、整平机头 掀开式 Flip Up Straightener



- 便于入料
  - 便于清洁辊轮
  - 油缸驱动掀起整平机头
  - 主要针对于
    - a: 较厚或屈服强度较高的材料
    - b: 表面高要求的材质 例如: 铝、铜、不锈钢、镀锌板等
    - c: 产生粉尘多的材质 例如: 铜沫、热轧板的氧化层等
- Convenient to feed the front of coiled strips into straightener
  - Give easy access to cleaning up rollers
  - Open the upper straightener up by oil cylinder
  - Generally apply to
    - a. Thicker or higher yield strength materials
    - b: Materials with high surface requirements such as: aluminum, copper, stainless steel, galvanized sheet, etc.
    - c: Materials that generate a lot of dust, such as: copper foam, oxide layer of hot-rolled sheets, etc.

### 二、液压剪板机 Hydraulic Shearing Machine



- 用于剪切料头料尾, 也可用于下料
  - 液压驱动, 主要用于材料较厚, 强度较高, 不易人工剪切的材料
- Use for shearing material head/end, and blanking too.
  - Mainly use for thicker or high strength material, which is not easy to shear manually

### 三、涂油机 Lubricator



- 在整平机出料口可选配此装置, 可根据客户对涂油的要求选择喷雾型或辊轮型等
  - 此装置适用于冲压过程中模具起热时的冷却, 及产品拉伸时的润滑, 保护模具, 提升产品合格率
- This device can be selected at the discharge port of the straightener machine, and the spray type or roller type can be selected according to the customer's requirements for oiling.
  - This device is suitable for cooling when the mold heats up during the stamping process, and for lubrication when the product is stretched, to protect the mold and improve the pass rate of the product

### 四、尾料送料机 Tail Feeder



- 具备把尾节材料按要求尺寸送至模具内部的功能, 减少尾料浪费, 减少操作劳动强度, 提高员工安全系数以及生产效率
- It has the function of sending the tail material to the inside of the mold according to the required size, reducing the waste of tail material, reducing the labor intensity of operation, and improving the safety factor of employees and production efficiency



# UL

2 in 1  
Straightener Feeder

二合一系列



单动力 Single Power

# ULS

2 in 1  
Straightener Feeder

二合一系列



双动力 Dual Power

# UL/ULS

2 in 1  
Straightener Feeder

二合一  
系列



### 技术参数 / Technical Parameter

型号	Model	UL-200 UL-200A	UL-300 UL-300A	UL-400 UL-400A	UL-500 UL-500A	UL-600 UL-600A
材料宽度(mm)	Material thickness	200	300	400	500	600
材料厚度(mm)	Material thickness	0.35-2.5	0.35-2.5	0.35-2.5	0.35-2.5	0.35-2.5
材料内径(Φ)	Material i.d.	450-530	450-530	450-530	450-530	450-530
材料外径(Φ)	Material o.d.	1400	1400	1400	1400	1400
材料重量(kg)	Material weight	1000	1000	1000	2000	2000
矫正速度	Speed of feed	15M/min	15M/min	15M/min	15M/min	15M/min
马达功率(hp)	Motot	1	2	2	3	3
料卷扩张方式	Coil expansion	2	3	3	5	5
		手动式 Manual	手动式 Manual	手动式 / 油压式 Manual/hydraulic	手动式 / 油压式 Manual/hydraulic	手动式 / 油压式 Manual/hydraulic

### 技术参数 / Technical Parameter

型号	Model	ULS-200A	ULS-300A	ULS-400A	ULS-500A	ULS-600A
最大宽度(mm)	Maximum width	200	300	400	500	600
材料厚度(mm)	Material thickness	0.5-3.5	0.5-3.5	0.5-3.5	0.5-3.5	0.5-3.5
减速比	Reduction ratio	1/30	1/30	1/30	1/30	1/30
电源(AC)	Power	Ac三相380V 3Phase AC380V				
送料滚轮(Φ)	Feed roller	66.5X4				
矫正滚轮(Φ)	Correction roller	56X7				
卷料内径(Φ)	Inner diameter of coil	450-530				
卷料外径(Φ)	Coil outside diameter	1200				
最大料量(Kg)	Maximum material volume	500	1000	2000/3000	3000/4000	3000/5000

# DSL

Precision two-in-one Series

精密二合一系列



双动力 Dual Power

# JM3

Straightener machine Series

整平机系列



单段/双段 Single stage/Double stage

# DSL/JM3

2 in 1 Straightener Feeder

二合一系列



## 技术参数 / Technical Parameter

型号	Model	DSL20-200	DSL20-300	DSL20-400
材料宽度(mm)	Material thickness	200	300	400
材料厚度(mm)	Material thickness	0.1-0.6	0.1-0.6	0.1-0.6
滚轮直径(Φ)	Roller diameter	20 上9下10	20 上9下10	20 上9下10
调整方式	Adjustment method	四点独立下压 Four-point independent pressing	四点独立下压 Four-point independent pressing	四点独立下压 Four-point independent pressing
矫正速度	Speed of feed	12M/min	12M/min	12M/min
马达功率(hp)	Motot	400W+750W	400W+750W	400W+750W
材料重量(kg)	Material weight	500kg	500kg	2000kg
材料内径(Φ)	Material I.d.	450-530	450-530	450-530
料卷扩张方式	Coil expansion	手摇式 Hand crank	手摇式 Hand crank	手摇式 Hand crank
可选配	Optional	涡轮下压调整、手动黄油泵、出料料弧轮调整、整平补强轮 Turbine down pressure adjustment, manual grease pump, discharge arc wheel adjustment, leveling reinforcement wheel		

## 技术参数 / Technical Parameter

型号	Model	DSL32-200	DSL32-300	DSL32-400	DSL32-500
材料宽度 (mm)	Material Thickness	200	300	400	500
材料厚度 (mm)	Material Thichkness	0.2-1.2	0.2-1.2	0.2-1.2	0.2-1.2
滚轮直径(Φ)	Roller Diameter	32 上7下8	32 上7下8	32 上7下8	32 上7下8
调整方式	Adjustment Method	四点独立下压 Four-point independent pressing	四点独立下压 Four-point independent pressing	四点独立下压 Four-point independent pressing	四点独立下压 Four-point independent pressing
矫正速度	Speed Of Feed	15M/min	15M/min	15M/min	15M/min
马达功率 (hp)	Motot	400W+750W	400W+1.5KW	400W+1.5KW	400W+1.5KW
材料重量 (kg)	Material Weight	2000kg	500kg	2000kg	2000kg
材料内径 (Φ)	Material I.d.	450-530	450-530	450-530	450-530
料卷扩张方式	Coil Expansion	手摇式 Hand crank	手摇式 Hand crank	手摇式 Hand crank	手摇式 Hand crank
可选配	Optional	涡轮下压调整、手动黄油泵、出料料弧轮调整、料架液压扩张、整平补强轮 Turbine down pressure adjustment, manual grease pump, material discharge arc wheel adjustment, material rack hydraulic expansion, leveling reinforcement wheel			

# NCF

NCF Servo  
Roll Feeder



# NCF

NCF Servo  
Roll Feeder

## 伺服 送料机



- 高精度的送料:以闭路式系统控制,使送料精度偏差确保在 $\pm 0.03\text{mm}$ 以内。
- 多段式送料功能,可输入10组不同的送料长度,每组提供999次送料次数,满足不同送料长度产品的生产需求。
- 高效的放松装置:配合冲床凸轮信号以及简单的料厚调整,即可快速设定放松角度。
- 送料长度的设定:在控制面板上,直接输入送料长度,即可达到所需的送料步距。
- 送料机构:滚轮采用中空式,重量轻,回转惯性小,表面硬度HRC60°镀铬,耐磨损,寿命长。

- High-precision feeding: controlled by a closed-circuit system, the deviation of feeding accuracy is guaranteed to be within  $\pm 0.03\text{mm}$ .
- Multi-stage feeding function, 10 groups of different feeding lengths can be input, and each group provides 999 feeding times to meet the production needs of products with different feeding lengths.
- Efficient unwinding device: With the punch cam signal and simple material thickness adjustment, the unwinding angle can be quickly set.
- Feeding length setting: On the control panel, directly input the feeding length to achieve the required feeding step.
- Feeding mechanism: The roller is hollow, light in weight, small in rotation penetration, surface hardness HRC60° hard chrome plated, wear-resistant and long in life.

### 技术参数 / Technical Parameter

型号	Model	NCF-100A	NCF-100B	NCF-300A	NCF-400A	NCF-500A	NCF-600A	NCF-700A	NCF-800A	NCF-1000A	NCF-1300A	NCF-1500A	NCF-1600A	
最大材料宽度(mm)	Material Max. width (mm)	100	200	300	400	500	600	700	800	1000	1300	1500	1600	
材料厚度范围(mm)	Material thickness capacity (mm)	0.2-2.2												
项目/型号	Item and model	NCF-100B	NCF-200B	NCF-300B	NCF-400B	NCF-500B	NCF-600B	NCF-700B	NCF-800B	NCF-1000B	NCF-1300B	NCF-1500B	NCF-1600B	
最大材料宽度(mm)	Material Max. width (mm)	100	200	300	400	500	600	700	800	1000	1300	1500	1600	
材料厚度范围(mm)	Material thickness capacity (mm)	0.2-3.2												
项目/型号	Item and model	/	NCF-200C	NCF-300C	NCF-400C	NCF-500C	NCF-600C	NCF-700C	NCF-800C	NCF-1000C	NCF-1300C	NCF-1500C	NCF-1600C	
最大材料宽度(mm)	Material Max. width (mm)	/	200	300	400	500	600	700	800	1000	1300	1500	1600	
材料厚度范围(mm)	Material thickness capacity (mm)	/	0.3-4.5											
项目/型号	Item and model	/	NCF-200D	NCF-300D	NCF-400D	NCF-500D	NCF-600D	NCF-700D	NCF-800D	NCF-1000D	NCF-1300D	NCF-1500D	NCF-1600D	
最大材料宽度(mm)	Material Max. width (mm)	/	200	300	400	500	600	700	800	1000	1300	1500	1600	
材料厚度范围(mm)	Material thickness capacity (mm)	/	1.0-6.0											
最大送料长度(mm)	Max. feeding length (mm)	9999												
最大送料速度(m/min)	Max. feed speed (m/min)	20m/min												
放松方式	Release method	机械式放松 Mechanical						气动式放松 pneumatic						
伺服电机	Servo motor	日本安川Yaskawa, Japan												
PLC	Low voltage electric components	三菱Mitsubishi												
低压电子元件	HMI	施耐德Schneider												
人机界面	HMI main page language	台湾维纶Weinview, Taiwan												
人机界面语言	Voltage	英语汉语界面可以切换,也可以做成国外当地语言 Can be switched between Chinese and English (It also can be made of buyer's local language)												
电压	Remarks:	三相380v 50hz或者国外当地电压3 phase 380v 50hz (or local voltage)												
备注														

标准配置为安川伺服电机, 安川伺服驱动器, 三菱PLC, 施耐德低压电子元件。Standard configuration is YASKAWA servo motor, YASKAWA servo driver, MITSUBISHI PLC, SCHNEIDER low voltage components, Weinview HMI.  
选配项为全套西门子配置, 如西门子伺服电机, 伺服驱动器, PLC, 触摸屏等。  
It also can be customized of full set SIEMENS configurations, such as SIEMENS servo motor, servo driver, PLC, HMI.

# ZNCF

ZNCF Servo  
Zigzag Feeder



# ZNCF

ZNCF Servo  
Zigzag Feeder

## 偏摆 送料机



金属圆片自动移位送料机工作范围:

- 材料的厚度在:0.3-3.2mm/0.5-5.0mm。
- 适合材料有钢、铜、铝、特殊合金和双金属等多种材料

ZNCF偏摆送料机的特点:

- 高产出:可进行多次移位,按60°角计算,每一次移位可节约材料7%,在圆片大小不等时,可依材料宽度对排布角度进行改变提高材料利用率。
- 高效率:每分钟最高速度为60次。
- 高精度:在连续冲压过程中,边与边的最小距离可设定在0.5mm以内,每次的移动误差可保证在:±0.1mm以内
- 占地空间小,能源消耗低
- 成品工作搬运方便:材料冲压后,自动掉落在成品输送带上,由输送带送到垛料台上。
- 全自动化控制,节省人力资源:该生产线在工作时,只需一位员工操作电控箱来控制机柜。在人机面板上输入操作程序,设备将全自动化生产。

Metal disc automatic shift feeder working range:

- The thickness of the material is: 0.3-3.2mm/0.5-5.0mm.
- Suitable materials include steel, copper, aluminum, special alloys and bimetals and other materials.

Feature of ZNCF Zigzag Feeder

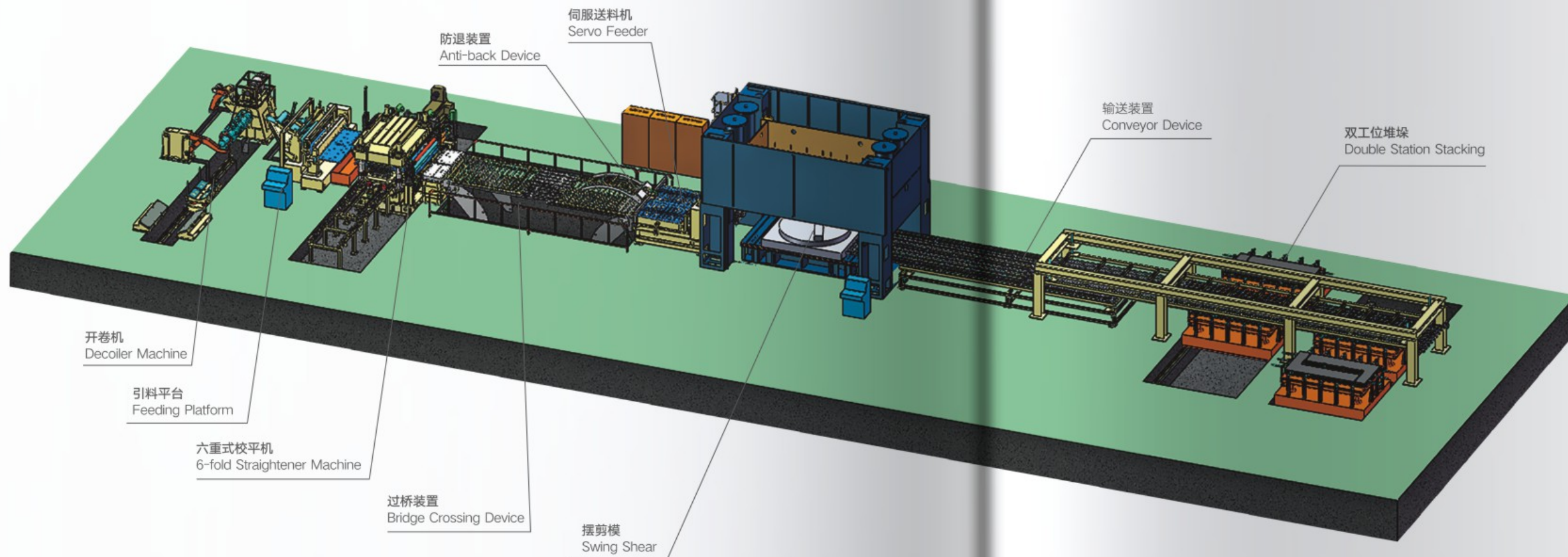
- High output: It can be shifted multiple times. Calculated at a 60° angle, each shift can save 7% of the material. When the size of the wafer is different, the arrangement angle can be changed according to the width of the material to improve the utilization rate of the material.
- High efficiency: the maximum speed is 60 times per minute.
- High precision: In the process of continuous stamping, the minimum distance between sides can be set within 0.5mm, and each movement error can be guaranteed within ±0.1mm
- Small footprint and low energy consumption
- The finished product is easy to carry: After the material is punched, it will automatically fall on the finished product conveyor belt, and then sent to the stacking table by the conveyor belt.
- Fully automatic control, saving human resources: when the production line is working, only one employee needs to operate the electric control box to control the cabinet. Input the operating program on the man-machine panel, and the equipment will be fully automated.

### 技术参数 / Technical Parameter

型号	Model	ZNCF-200	ZNCF-300	ZNCF-400	ZNCF-500	ZNCF-600	ZNCF-800	ZNCF-1000	ZNCF-1300	ZNCF-1500	
材料宽度(mm)	Material width	200	300	400	500	600	800	1000	1300	1500	
材料厚度(mm)	material thickness	0.3-3.2 0.5-5.0	0.3-3.2 0.5-5.0	0.3-3.2 0.5-5.0	0.3-3.2 0.5-5.0	0.3-3.2 0.5-5.0	0.3-3.2	0.3-3.2	0.3-3.2	0.3-3.2	
送料辊直径(Φ)	Feed roller diameter	66.5	66.5	66.5	66.5	66.5	90	90/120	120	120	
送料辊数目	Number of feed rollers	2	2	2	2	2	2	2	4	4	
矫平辊直径(mm)	Leveling roller diameter	/	/	/	/	/	/	/	80	100	
矫平辊数目	Number of leveling rollers	/	/	/	/	/	/	/	3	5	
最大偏移距(mm)	Maximum Offset	200	300	400	500	600	800	1000	1300	1500	
高压料方式	From the pressing method					气缸Air cylin			蜗轮蜗杆 Worm and Gear		

# Steel-Aluminum Mixed 6-fold High-speed Blanking Line

## 钢铝混合六重式高速落料线



### 特点 / Features

- 开卷机：在穿料和送料过程中，采用上开卷或下开卷，确保开卷过程中，钢带有预加张力和速度，配备张力的停顿控制，通过力矩的改变调整和保持张力，开卷机自带制动器，电机可实现正反转，配备压料臂，与移动机架相联。
- 引料平台：通过开卷机将料头送入矫平机的结构，送料通过开卷和回卷轴将钢带送进，钢制台面连接至矫正夹送辊，液压控制可上下摆动台面。
- 六重式矫平机：六重辊式结构，由送料辊、拉料辊、矫平辊、中间辊、支撑辊、驱动装置及本体承架等构成。当板料进入矫平机送料辊时，由其引导板料进入矫平辊系，板料在上下矫平辊的挤压后反复屈服得到应力释放，达到矫平的目的。
- 过桥装置：活套桥主要用作矫平后板料残余应力的释放、精矫机停机剪切时的板料储存，并有缓解矫平机和送料机之间速度匹配的作用。
- 防退装置：用于防止在送料辊打开或压力不足的情况下板料反向运动坠入地坑。当板料进入该装置时，两边垂直辊筒对中调整至板料宽度位置，由其挡住板料，引导板带以固定位置进入送料机，导正板料对角线精度。
- 伺服送料机：将材料按设定尺寸送入冲压设备。
- 摆剪模：用于定尺送料后与冲床配合剪切材料，并且具备按照所设角度进行剪切，节省材料
- 输送装置（皮带送料机）：用于输送落料、剪切后的材料。
- 双工位堆垛：接收来自输送装置成品板料，通过电磁铁退磁或旋转托料机构的翻转，把料片垂直方向落到堆垛台上，气缸拍打进行整齐的码垛，向机组侧面出垛。具有自动计数功能，与PLC通讯，在人机界面上直接数字显示。

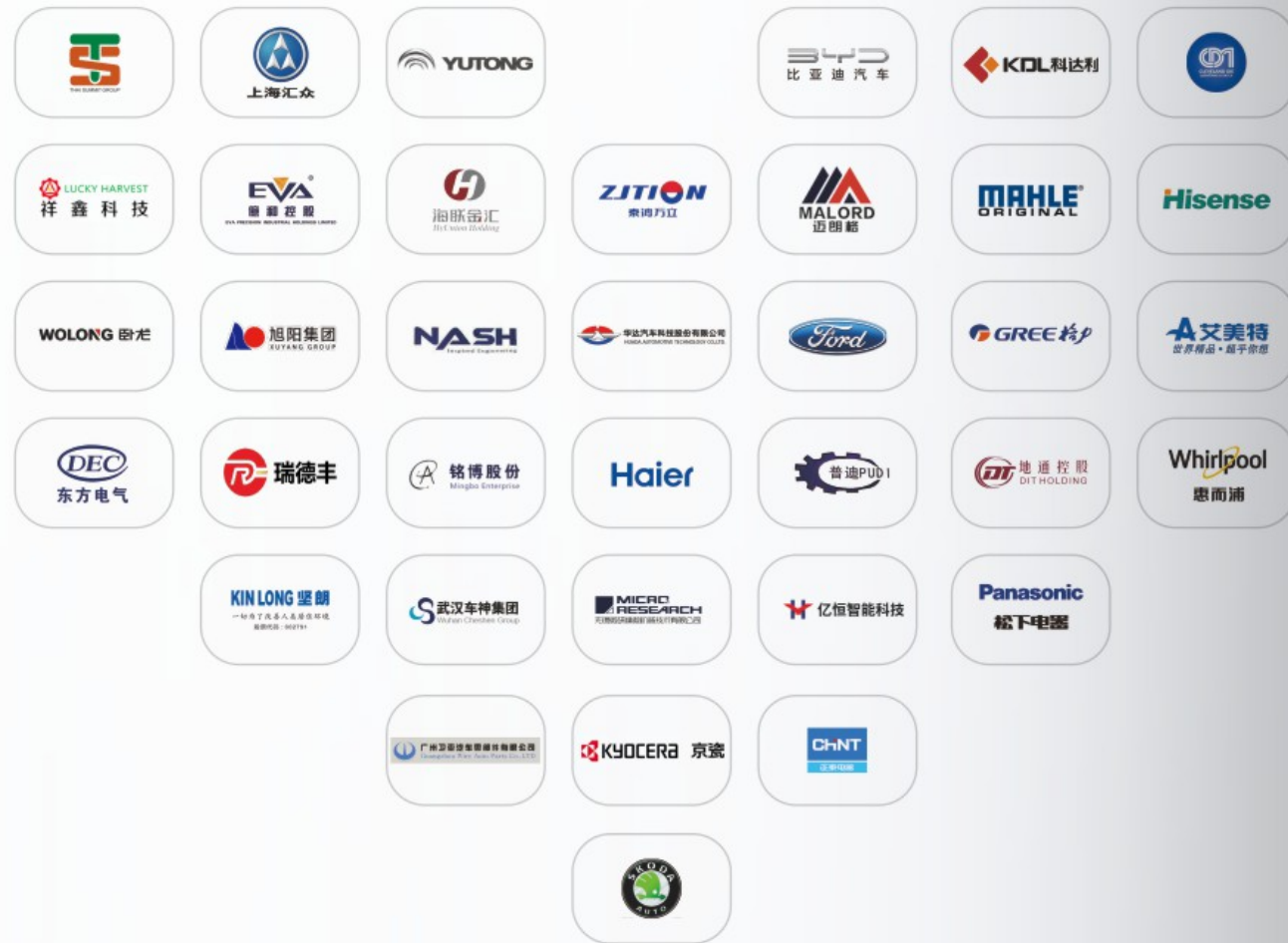
- Uncoiler: In the process of feeding and feeding, upper uncoil or lower uncoil is used to ensure that the steel belt is pre-tensioned and speeded during the uncoiling process. Equipped with tension pause control, the tension is adjusted and maintained by changing the torque, and the uncoiler automatically With a brake, the motor can realize positive and negative rotation, equipped with a pressing arm, connected with the mobile frame.
- Feeding platform: the structure that feeds the head of the material into the straightener machine through the uncoiler, and feeds the steel strip through the uncoiler and rewind shafts. The steel table is connected to the straightening pinch roller, and the hydraulic control can swing the table up and down.
- 6-fold straightener machine: 6-fold roller structure, consisting of feeding roller, pulling roller, straightener roller, intermediate roller, support roller, driving device and body support frame. When the plate enters the feed roller of the straightener machine, it guides the plate into the straightener roller system, and the plate yields repeatedly after being squeezed by the upper and lower straightener rollers to release the stress and achieve the purpose of straightener.
- Bridge crossing device: The loop bridge is mainly used to release the residual stress of the sheet metal after straightener, to store the sheet metal when the fine leveler is stopped and sheared, and to relieve the speed matching between the leveler and the feeder.
- Anti-return device: used to prevent the reverse movement of the sheet and fall into the pit when the feed roller is opened or the pressure is insufficient. When the sheet material enters the device, the vertical rollers on both sides are centered and adjusted to the width of the sheet material, which blocks the sheet material, guides the plate belt to enter the feeder at a fixed position, and guides the accuracy of the diagonal line of the sheet material.
- NC Servo feeder: feed the material into the stamping equipment according to the set size.
- Zigzag cutting: It is used to cooperate with the punching machine to cut the material after feeding the material to a fixed length, and it can cut according to the set angle to save material
- Conveying device (belt conveyor): used to convey blanked and sheared materials.
- Double-station stacking: Receive the finished sheet from the conveying device, through the demagnetization of the electromagnet or the flipping of the rotating support mechanism, the sheet is dropped vertically onto the stacking platform, and the cylinder is beat to perform neat stacking, and it is delivered to the side of the unit pile. It has automatic counting function, communicates with PLC, and directly displays the numbers on the man-machine interface.

# Partner

## 合作伙伴

海威智能拥有先进的“整厂规划、设计能力”、强大的“制造能力”和极为完善的“服务能力”。善于灵活运用在广泛领域十几年积累的丰富经验和专业技术，对生产系统作全面客观的思考和理解，在客户服务、支持、维护、产品升级等方面竭尽全力满足客户需求。

Haiwei Intelligent has advanced "whole plant planning and design capabilities", strong "manufacturing capabilities" and extremely complete "service capabilities". Good at flexible use of rich experience and professional technology accumulated in a wide range of fields for more than ten years, comprehensive and objective thinking and understanding of the production system, and do our best to meet customer needs in terms of customer service, support, maintenance, product upgrades, etc.



## Service Outlets 服务网点

遍布全球的网络，能在世界范围内为客户提供服务支持。  
The global network can provide service support for customers around the world.

