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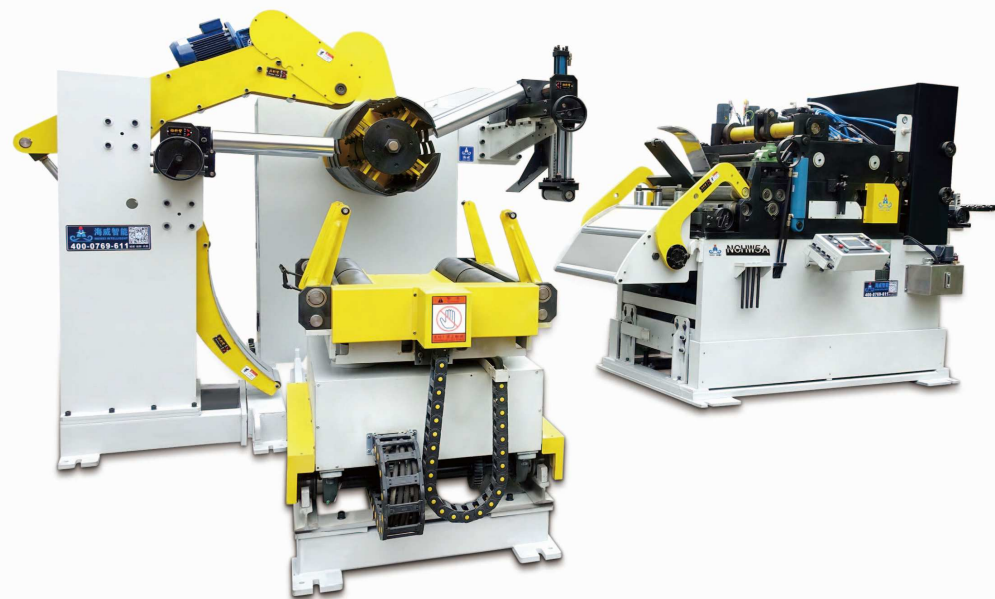
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 Service hotline

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冲压：三合一开卷整平送料机  
 Stamping: 3 In 1 Decoiler Straightener Feeder  
 机械手 机器人系列  
 Stamping press transfer, stamping press robot series



**东莞市海威智能装备股份有限公司**

DONGGUAN CITY HAIWEI INTELLIGENT EQUIPMENT INCORPORATED COMPANY

<http://www.hwslj.com> <http://www.coilfeed.com>



董事长  
Chairman **孙建华**

诚信 Credibility  
 创新 Innovation  
 合作 Cooperation  
 共赢 Win-Win

把握时代脉搏 向工业4.0迈进  
 Grasp the pulse of the times Forward to Industry 4.0

## 公司简介 Company Profile

海威智能是集设计、研发、生产、销售及配套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。主要产品有用于卷料上料的开卷校平送料三合一、各类分体的开卷机、校平机、送料机；用于片料上料的二次元、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，包括剪切线，落料线，偏摆落圆线等。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行业。

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、吉利等品牌一级供应商以及宇通客车主机厂等等。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。

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、印度等广大东南亚市场。

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, a professional punch automation equipment manufacturer, is a collection of designs, research & development, productions and services that are based on our business, located in Dongguan China. The main products are 3 in 1 uncoiler straightener feeder to load coil material automatically; free-standing uncoilers, straighteners, and feeders; 2D transfers, 3D transfers, and free-standing transfers. Besides, variety of tech solutions, including cut to length line, press blanking line, zigzag circle plate blanking line, meet customers' demands. Our products have been widely applied in auto, appliances and hardware products industries.

More than 70 percent products are used in auto parts manufacturing industry. We are honored to have earned preferred-vendor status with many of the leading auto parts suppliers for Volkswagen, Toyota, Hyundai, Geely, Yutong Bus and more. Growing demand for high productivity and quality in auto industry urge HAIWEI INTELLIGENT continue to improve R&D ability and machines performance. It is our goal to create value for customers.

HAIWEI INTELLIGENT has been active in international markets with the permit for import and export. We have run lots of successful projects in auto parts manufacturer in The Czech Republic, Italy, Portugal, Ireland, Spain, Canada, Mexico, South Africa, as well as Asian markets, such as South Korea, Malaysia, Indonesia, and India.

It is our principle to supply superior products and excellent services. Top-quality international teams provide professional, swift and convenient services. HAIWEI INTELLIGENT aims to supply superior products and excellent services to create value for customers on the basis of integrity, innovation, and win-win cooperation.





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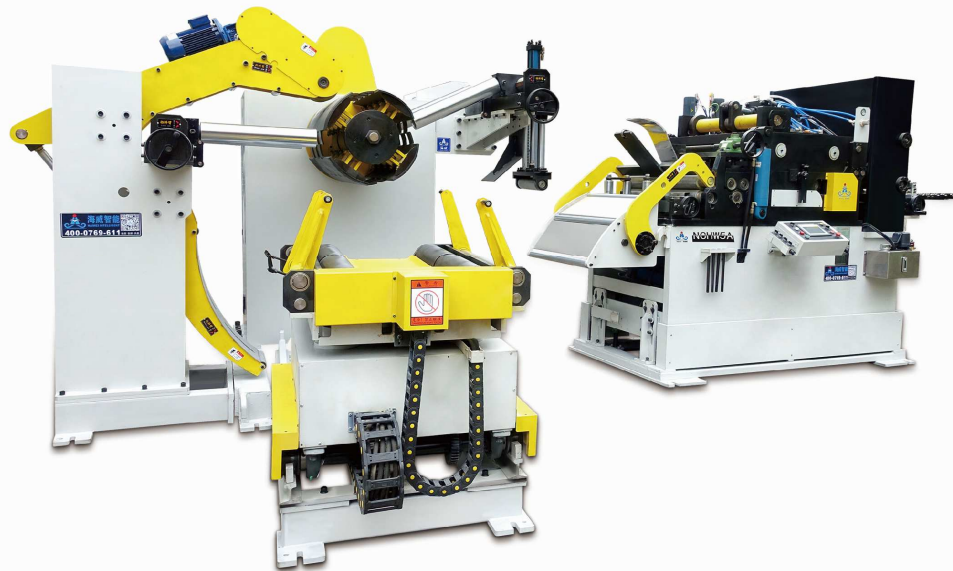
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# 3 IN 1 DECOILER STRAIGHTENER FEEDER FOR HIGH TENSILE STRENGTH STEEL

## NCHW 5A 高张力三机一体式 伺服开卷整平送料机 (1.0mm-9.0mm)



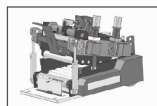
西门子操作屏  
Siemens IML



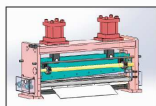
西门子控制系统  
Siemens control system



负反馈装置  
Feeding Measure and Feedback System



伺服调节整平量  
Servo Driving Straightening  
Measurement Adjustment



液压剪板机  
Hydraulic Shearing Machine

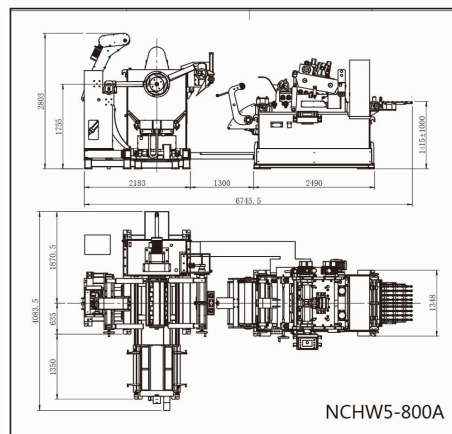
### 产品特性 Machine Main Feature

- \* 采用欧系伺服系统，确保高精度送料，操作面板采用彩色液晶显示器，大尺寸的触摸屏，高清晰的操作画面，配合操作安全保护系统即使是初次使用者也能安心操作。
- \* 健全的操作系统人性化设计，将准备工作缩短，先进的自动诊断系统，协助操作者快速掌握本机的操作性能。
- \* 特别为强力厚板而设计的上下整平背压滚轮组，可达到保证的应力消除效果
- \* 创新的机械结构，使全机所需作业空间缩至最小

### Machine Main Feature

- \* The European standard Servo System that we use ensures high-precision process of feed.
- \* The Large-sized Colorful 7"LCD touchscreen, high definition operation interface and operation safety system make it safer for newer user to run the machine.
- \* The operation system with humanization design shortens the time of preparation, and advanced automatic diagnostic system helps operator to quickly master machine's operating characteristic.
- \* About which designs for the force thick plate levels off the back pressure hoop group specially, May achieve the guarantee the stress relieving effect.
- \* New concept and design reduces space requirements

### 外形尺寸 External Dimension



专注于：冲压机械手 机器人 送料线

Focus on stamping press transfer, industrial robot, metal coil handling machine



### 特厚板三合一送料机规格 Specification:

型号Model	NCHW5-600A	NCHW5-800A	NCHW5-1000A	NCHW5-1300A
板幅 Material Width ( mm )	70~600	70~800	70~1000	70~1300
板厚 Material Thickness ( mm )	1.0~9.0	1.0~9.0	1.0~9.0	1.0~9.0
卷材重量 Coil Weight MAX. ( kg )	5000	5000~7000	8000	10000
卷材外径 Coil O.D. ( mm )	1400	1400	1400	1400
卷材内径 Coil I.D. ( mm )	508	508	508	508
最大送料长度 Max. Feed Length ( mm )	0~500	0~500	0~500	0~500
生产线速度 Feed Speed ( m/min )	16	16	16	16
矫正滚轮 ( 支 ) Straightening Roller(pcs)	上 5/下 4 Upper5/Lower4	上 5/下 4 Upper5/Lower4	上 5/下 4 Upper5/Lower4	上 5/下 4 Upper5/Lower4
送料滚轮 ( 组 ) Feed Roller(group)	1	1	1	1
主电机 Main Motor	AC15.0	AC15.0	AC22.0	AC22.0
料架扩张方式 Mandrel Expansion	油压 Hydraulic	油压 Hydraulic	油压 Hydraulic	油压 Hydraulic
料架电机 Decoiler Motor ( KW )	3.7	5.5	7.5	11
使用电源电压 Power Supply ( V )	3相 380V/50HZ/客户要求 3Phase 380V/50HZ/as customer request			
使用空气压 Air Pressure(MPa)	0.5			

### 矫正能力表 Straightening Performance:

型号Model	屈服强度 N/mm <sup>2</sup>	NCHW5-600A		NCHW5-800A		NCHW5-1000A		NCHW5-1300A	
		245	600	245	600	245	600	245	600
板厚 Material Thickness ( mm )	1.5	600	600*	800	800*	1000	1000*	1300	1300*
	2.0	600	533	800	533	1000	533	1000	533
	2.5	600	432	800	432	1000	432	1000	432
	3.2	600	374	800	374	933	374	933	374
	4.0	600	292	714	292	714	292	714	292
	4.5	457	257	457	257	457	257	457	257
	5.0	361	228	361	228	361	228	361	228
	6.0	293	180	293	180	293	180	293	180
	7.0	203	132	203	132	203	132	203	132
	8.0	186	101	186	101	186	101	186	101

备注：带\*为可以通过材料，不能完全整平（仅供参考）。

Remarks: with\* the material can be delivered through machines but can not be straightened thoroughly. FYI.

# 3 IN 1 DECOILER STRAIGHTENER FEEDER FOR HIGH TENSILE STRENGTH STEEL

## NCHW 3A 高张力三机一体式 伺服开卷整平送料机

(1.0mm-6.0mm)



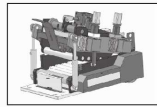
西门子操作屏  
Siemens HMI



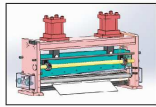
西门子控制系统  
Siemens control system



负反馈装置  
Feeding Measure and Feedback System



伺服调节整平量  
Servo Driving Straightening  
Measurement Adjustment



液压剪板机  
Hydraulic Shearing Machine

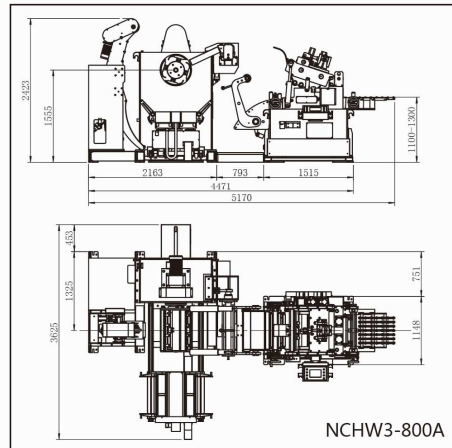
### 产品特性 Machine Main Feature

- \* 采用欧系伺服系统，确保高精度送料，操作面板采用彩色液晶显示器，大尺寸的触摸屏，高清晰的操作画面，配合操作安全保护系统即使是初次使用者也能安心操作。
- \* 健全的操作系统人性化设计，将准备工作缩短，先进的自动诊断系统，协助操作者快速掌握本机的操作性能。
- \* 特别为强力厚板而设计的上下整平背压滚轮组，可达到保证的应力消除效果
- \* 创新的机械结构，使全机所需作业空间缩至最小

### Machine Main Feature

- \* The European standard Servo System that we use ensures high-precision process of feed.
- \* The Large-sized Colorful 7"LCD touchscreen, high definition operation interface and operation safety system make it safer for newer user to run the machine.
- \* The operation system with humanization design shortens the time of preparation, and advanced automatic diagnostic system helps operator to quickly master machine's operating characteristic.
- \* About which designs for the force thick plate levels off the back pressure hoop group specially, May achieve the guarantee the stress relieving effect.
- \* New concept and design reduces space requirements

### 外形尺寸 External Dimension



专注于：冲压机械手 机器人 送料线

Focus on stamping press transfer, industrial robot, metal coil handling machine



### 厚板三合一送料机规格 Specification:

型号Model	NCHW3-600A	NCHW3-800A	NCHW3-1000A	NCHW3-1300A
板幅 Material Width ( mm )	70~600	70~800	70~1000	70~1300
板厚 Material Thickness ( mm )	1.0~6.0	1.0~6.0	1.0~6.0	1.0~6.0
卷材重量 Coil Weight MAX. ( kg )	5000	5000	8000	10000
卷材外径 Coil O.D. ( mm )	1400	1400	1400	1400
卷材内径 Coil I.D. ( mm )	508	508	508	508
最大送料长度 Max. Feed Length ( mm )	0~1600	0~1600	0~1600	0~1600
生产线速度 Feed Speed ( m/min )	16~24	16~24	16~24	16~24
工作滚轮 ( 支 ) Straightening Roller(pcs)	上 5/下 4 Upper5/Lower4	上 5/下 4 Upper5/Lower4	上 5/下 4 Upper5/Lower4	上 5/下 4 Upper5/Lower4
送料滚轮 ( 组 ) Feed Roller(group)	1	1	1	1
主电机 Main Motor	AC7.5	AC11.0	AC11.0	AC15.0
料架扩张方式 Mandrel Expansion	油压 Hydraulic	油压 Hydraulic	油压 Hydraulic	油压 Hydraulic
料架电机 Decoiler Motor ( KW )	2.2	3.7	3.7	5.5
使用电源电压 Power Supply ( V )	3相 380V/50HZ/客户要求 3Phase 380V/50HZ/as customer request			
使用空气压 Air Pressure(MPa)	0.5			

### 矫正能力表 Straightening Performance:

型号Model	屈服强度 N/mm <sup>2</sup>	NCHW3-600A		NCHW3-800A		NCHW3-1000A		NCHW3-1300A	
		245	600	245	600	245	600	245	600
板厚 Material Thickness ( mm )	0.6-1.0	600	600*	800	800*	1000	1000*	1300	1300*
	1.5	600	511	800	511	1000	511	1200	511
	2.0	600	472	800	472	1000	472	1000	472
	2.5	600	376	800	376	933	376	933	376
	3.2	600	288	714	288	714	288	714	288
	4.0	457	184	457	184	457	184	457	184
	4.5	361	148	361	148	361	148	361	148
	5.0	293	118	293	118	293	118	293	118
6.0	203	82	203	82	203	82	203	82	

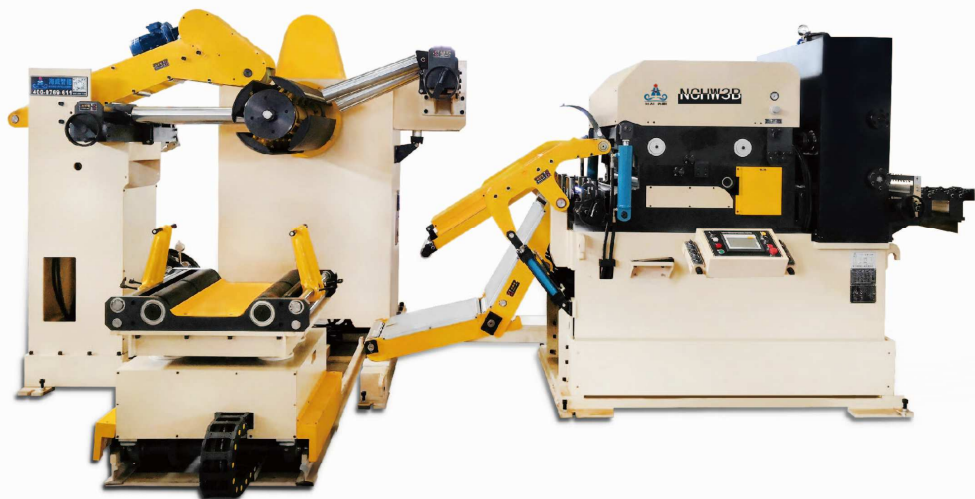
备注：带\*为可以通过材料，不能完全整平（仅供参考）。

Remarks: with\* the material can be delivered through machines but can not be straightened thoroughly. FYI.

# NCHW 3B 3 In 1 Decoiler Straightener Feeder

## 三机一体式 伺服开卷整平送料机

(0.6mm-6.0mm)



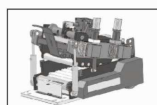
西门子操作屏  
Siemens HMI



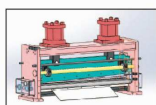
西门子控制系统  
Siemens control system



负反馈装置  
Feeding Measure and Feedback System



伺服调节整平量  
Servo Driving Straightening  
Measurement Adjustment



液压剪板机  
Hydraulic Shearing Machine

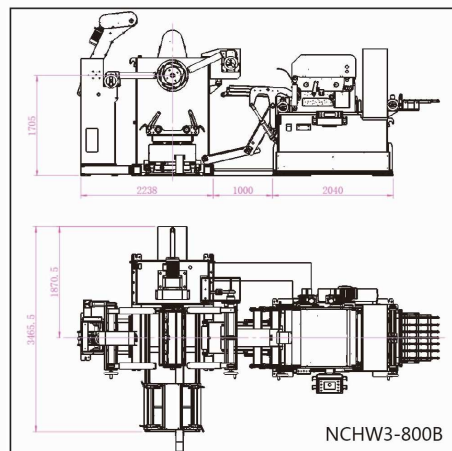
### 产品特性 Machine Main Feature

- \* 采用欧系伺服系统，确保高精度送料，操作面板采用彩色液晶显示器，大尺寸的触摸屏，高清晰的操作画面，配合操作安全保护系统即使是初次使用者也能安心操作。
- \* 健全的操作系统人性化设计，将准备工作缩短，先进的自动诊断系统，协助操作者快速掌握本机的操作性能。
- \* 特别为强力厚板而设计的上下整平背压滚轮组，可达到保证的应力消除效果
- \* 创新的机械结构，使全机所需作业空间缩至最小

### Machine Main Feature

- \* The European standard Servo System that we use ensures high-precision process of feed. The Large-sized Colorful 7"LCD touchscreen, high definition operation interface and operation safety system make it safer for newer user to run the machine.
- \* The operation system with humanization design shortens the time of preparation, and advanced automatic diagnostic system helps operator to quickly master machine's operating characteristic.
- \* About which designs for the force thick plate levels off the back pressure hoop group specially, May achieve the guarantee the stress relieving effect.
- \* New concept and design reduces space requirements

### 外形尺寸 External Dimension



专注于：冲压机械手 机器人 送料线

Focus on stamping press transfer, industrial robot, metal coil handling machine

### 厚板三合一送料机规格 Specification:

型号Model	NCHW3-400B	NCHW3-600B	NCHW3-800B	NCHW3-1000B	NCHW3-1300B
板幅 Material Width ( mm )	70~400	70~600	70~800	70~1000	70~1300
板厚 Material Thickness ( mm )	0.6~6.0	0.6~6.0	0.6~6.0	0.6~6.0	0.6~6.0
卷材重量 Coil Weight MAX. ( kg )	3000	5000	5000	8000	10000
卷材外径 Coil O.D. ( mm )	1400	1400	1400	1400	1400
卷材内径 Coil I.D. ( mm )	508/610	508/610	508/610	508/610	508/610
最大送料长度 Max. Feed Length ( mm )	0~1600	0~1600	0~1600	0~1600	0~1600
生产线速度 Feed Speed ( m/min )	16~24	16~24	16~24	16~24	16~24
工作滚轮 ( 支 ) Straightening Roller(pcs)	上 4/下 3 Upper4/Lower3	上 4/下 3 Upper4/Lower3	上 4/下 3 Upper4/Lower3	上 4/下 3 Upper4/Lower3	上 4/下 3 Upper4/Lower3
送料滚轮 ( 组 ) Feed Roller(group)	1	1	1	1	1
主电机 Main Motor ( KW )	AC5.5	AC7.5	AC7.5	AC11.0	AC11.0
料架扩张方式 Mandrel Expansion	油压 Hydraulic	油压 Hydraulic	油压 Hydraulic	油压 Hydraulic	油压 Hydraulic
料架电机 Decoiler Motor ( KW )	2.2	3.7	3.7	3.7	5.5
使用电源电压 Power Supply ( V )	3相 380V/50HZ/客户要求 3Phase 380V/50HZ/as customer request				
使用空气压 Air Pressure(MPa)	0.5				

### 矫正能力表 Straightening Performance:

型号Model	NCHW3-400B	NCHW3-600B	NCHW3-800B	NCHW3-1000B	NCHW3-1300B				
板厚 Material Thickness ( mm )	0.6~1.3	400	600	800	1000	1300			
	2.0								
	2.3					1170			
	2.5								
	2.8					933			
	3.2								
	4.0					714			
	4.5								
	4.0					457	457	457	457
	4.5					361	361	361	361
5.0	293	293	293	293					
6.0	203	203	203	203					

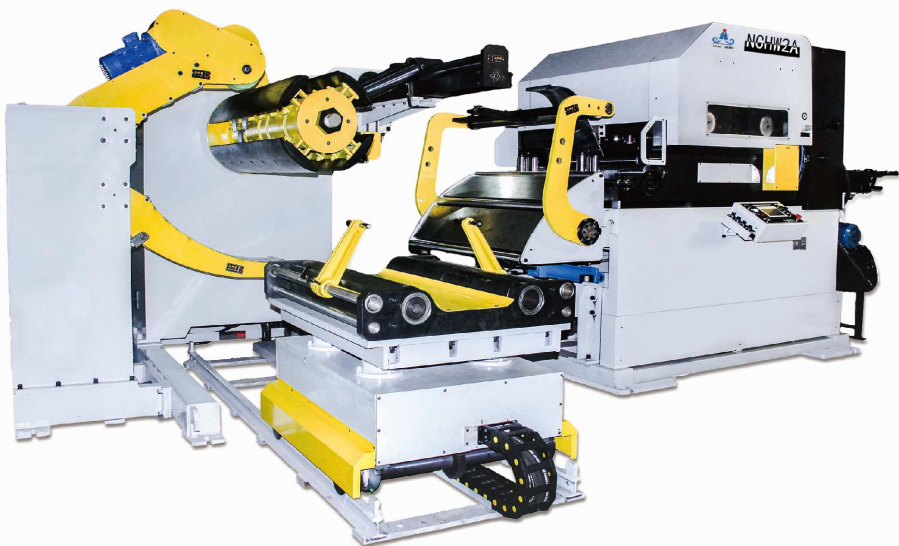
\*以上表格的屈服强度临界值为245N/mm<sup>2</sup>

The above data is based on Max. yield strength of 245N/mm<sup>2</sup>

# 3 IN 1 DECOILER STRAIGHTENER FEEDER FOR HIGH TENSILE STRENGTH STEEL

## NCHW 2A 高张力三机一体式 伺服开卷整平送料机

(0.5mm~4.5mm)



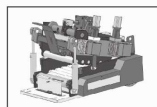
西门子操作屏  
Siemens HMI



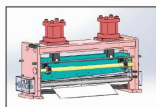
西门子控制系统  
Siemens control system



负反馈装置  
Feeding Measure and Feedback System



伺服调节整平量  
Servo Driving Straightening  
Measurement Adjustment



液压剪板机  
Hydraulic Shearing Machine

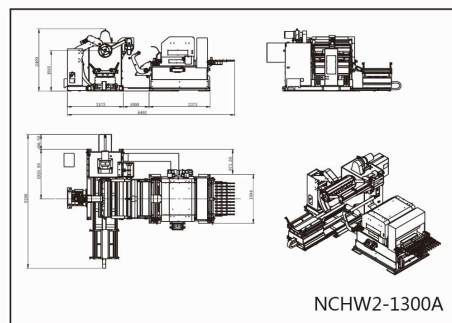
### 产品特性 Machine Main Feature

- \* 采用欧系伺服系统，确保高精度送料，操作面板采用彩色液晶显示器，大尺寸的触摸屏，高清晰的操作画面，配合操作安全保护系统即便是初次使用者也能安心操作。
- \* 健全的操作系统人性化设计，将准备工作缩短，先进的自动诊断系统，协助操作者快速掌握本机的操作性能。
- \* 特别为强力厚板而设计的上下整平背压滚轮组，可达到保证的应力消除效果
- \* 创新的机械结构，使全机所需作业空间缩至最小

### Machine Main Feature

- \* The European standard Servo System that we use ensures high-precision process of feed. The Large-sized Colorful 7"LCD touchscreen, high definition operation interface and operation safety system make it safer for newer user to run the machine.
- \* The operation system with humanization design shortens the time of preparation, and advanced automatic diagnostic system helps operator to quickly master machine's operating characteristic.
- \* About which designs for the force thick plate levels off the back pressure hoop group specially. May achieve the guarantee the stress relieving effect.
- \* New concept and design reduces space requirements

### 外形尺寸 External Dimension



专注于：冲压机械手 机器人 送料线

Focus on stamping press transfer, industrial robot, metal coil handling machine



### 中板三合一送料机规格 Specification:

型号Model	NCHW2-600A	NCHW2-800A	NCHW2-1000A	NCHW2-1300A
板幅 Material Width ( mm )	50~600	50~800	70~1000	70~1300
板厚 Material Thickness ( mm )	0.5~4.5	0.5~4.5	0.5~4.5	0.5~4.5
卷材重量 Coil Weight MAX. ( kg )	5000	5000	8000	10000
卷材外径 Coil O.D. ( mm )	1400	1500	1500	1500
卷材内径 Coil I.D. ( mm )	508/610	508/610	508/610	508/610
最大送料长度 Max. Feed Length ( mm )	0~1600	0~1600	0~1600	0~1600
生产线速度 Feed Speed ( m/min )	16~24	16~24	16~24	16~24
工作滚轮 ( 支 ) Straightening Roller(pcs)	上 6/下 5 Upper6/Lower5	上 6/下 5 Upper6/Lower5	上 6/下 5 Upper6/Lower5	上 6/下 5 Upper6/Lower5
送料滚轮 ( 组 ) Feed Roller(group)	1	1	1	1
主电机 Main Motor	AC7.0	AC11.0	AC11.0	AC15.0
料架扩张方式 Mandrel Expansion	油压 Hydraulic	油压 Hydraulic	油压 Hydraulic	油压 Hydraulic
料架电机 Decoiler Motor ( KW )	3.7	3.7	3.7	5.5
使用电源电压 Power Supply ( V )	3相 380V/50HZ/客户要求 3Phase 380V/50HZ/as customer request			
使用空气压 Air Pressure(MPa)	0.5			

### 矫正能力表 Straightening Performance:

型号Model	屈服强度 N/mm <sup>2</sup>	NCHW2-600A		NCHW2-800A		NCHW2-1000A		NCHW2-1300A	
		245	600	245	600	245	600	245	600
板厚 Material Thickness ( mm )	0.5-1.0	600	600*	800	800*	1000	1000*	1300	1300*
	1.5	600	405	800	405	1000	405	1300	405
	2.0	500	351	700	351	750	351	1000	351
	2.5	430	294	480	294	600	294	750	294
	3.2	290	205	420	205	430	205	650	205
	4.0	250	141	370	141	380	141	590	141
	4.5	160	81	320	81	330	81	360	81

备注：带\*为可以通过材料，不能完全整平（仅供参考）。

Remarks: with\* the material can be delivered through machines but can not be straightened thoroughly. FYI.

# NCHW 2B 3 In 1 Decoiler Straightener Feeder

## 三机一体式 伺服开卷整平送料机

(0.5mm-4.5mm)



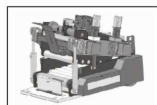
西门子操作屏  
Siemens HMI



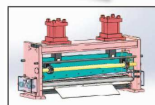
西门子控制系统  
Siemens control system



负反馈装置  
Feeding Measure and Feedback System



伺服调节整平量  
Servo Driving Straightening Measurement Adjustment



液压剪板机  
Hydraulic Shearing Machine

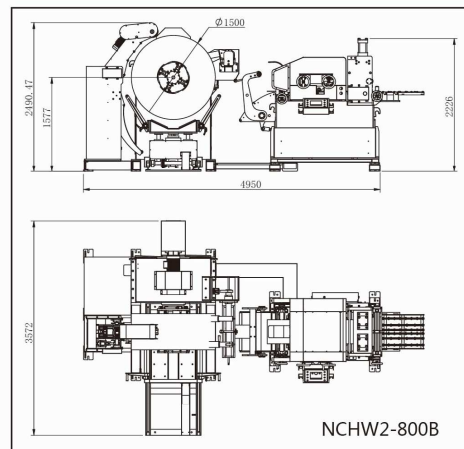
### 产品特性 Machine Main Feature

- \* 采用欧系伺服系统，确保高精度送料，操作面板采用彩色液晶显示器，大尺寸的触摸屏，高清晰的操作画面，配合操作安全保护系统即使是初次使用者也能安心操作。
- \* 健全的操作系统人性化设计，将准备工作缩短，先进的自动诊断系统，协助操作者快速掌握本机的操作性能。
- \* 特别为强力厚板而设计的上下整平背压滚轮组，可达到保证的应力消除效果
- \* 创新的机械结构，使全机所需作业空间缩至最小

### Machine Main Feature

- \* The European standard Servo System that we use ensures high-precision process of feed. The Large-sized Colorful 7"LCD touchscreen, high definition operation interface and operation safety system make it safer for newer user to run the machine.
- \* The operation system with humanization design shortens the time of preparation, and advanced automatic diagnostic system helps operator to quickly master machine's operating characteristic.
- \* About which designs for the force thick plate levels off the back pressure hoop group specially. May achieve the guarantee the stress relieving effect.
- \* New concept and design reduces space requirements

### 外形尺寸 External Dimension



专注于：冲压机械手 机器人 送料线

Focus on stamping press transfer, industrial robot, metal coil handling machine

### 中板三合一送料机规格 Specification:

型号Model	NCHW2-400B	NCHW2-600B	NCHW2-800B	NCHW2-1000B	NCHW2-1300B
板幅 Material Width ( mm )	50~400	50~600	50~800	70~1000	70~1300
板厚 Material Thickness ( mm )	0.5~4.5	0.5~4.5	0.5~4.5	0.5~4.5	0.5~4.5
卷材重量 Coil Weight MAX. ( kg )	3000	5000	5000	8000	10000
卷材外径 Coil O.D. ( mm )	1400	1400	1500	1500	1500
卷材内径 Coil I.D. ( mm )	508	508/610	508/610	508/610	508/610
最大送料长度 Max. Feed Length ( mm )	0~1600	0~1600	0~1600	0~1600	0~1600
生产线速度 Feed Speed ( m/min )	16~24	16~24	16~24	16~24	16~24
工作滚轮 ( 支 ) Straightening Roller(pcs)	上 4/下 3 Upper4/Lower3	上 4/下 3 Upper4/Lower3	上 4/下 3 Upper4/Lower3	上 4/下 3 Upper4/Lower3	上 4/下 3 Upper4/Lower3
送料滚轮 ( 组 ) Feed Roller(group)	1	1	1	1	1
主电机 Main Motor ( KW )	AC5.0	AC5.0	AC7.0	AC7.0	AC11.0
料架扩张方式 Mandrel Expansion	油压 Hydraulic	油压 Hydraulic	油压 Hydraulic	油压 Hydraulic	油压 Hydraulic
料架电机 Decoiler Motor ( KW )	2.2	3.7	3.7	3.7	5.5
使用电源电压 Power Supply ( V )	3相 380V/50HZ/客户要求 3Phase 380V/50HZ/as customer request				
使用空气压 Air Pressure(MPa)	0.5				

### 矫正能力表 Straightening Performance:

型号Model	NCHW2-400B	NCHW2-600B	NCHW2-800B	NCHW2-1000B	NCHW2-1300B	
板厚 Material Thickness ( mm )	0.5~0.8			1000	1300	
	1.0		600	750	1100	
	1.2			700	600	1000
	1.6	400	590	480	430	750
	1.8		500	420	380	700
	2.0		430	370	330	650
	2.3		360	320	290	590
	2.8	370	290	250	230	230
	3.2	300	250	220	200	200
	4.5	160	160	150	110	110

\*以上表格的屈服强度临界值为245N/mm<sup>2</sup>

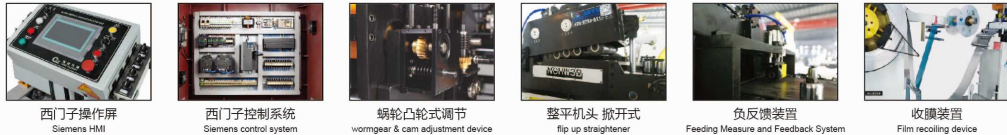
The above data is based on Max. yield strength of 245N/mm<sup>2</sup>



# NCHW 1B 3 In 1 Decoiler Straightener Feeder

## 三机一体式 伺服开卷整平送料机

(0.3mm-3.2mm)



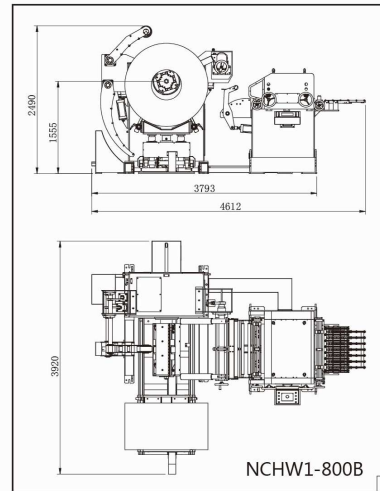
### 产品特性 Machine Main Feature

- \* 采用欧系伺服系统，确保高精度送料，操作面板采用彩色液晶显示器，大尺寸的触摸屏，高清晰的操作画面，配合操作安全保护系统即便是初次使用者也能安心操作。
- \* 健全的操作系统人性化设计，将准备工作缩短，先进的自动诊断系统，协助操作者快速掌握本机的操作性能。
- \* 特别为强力厚板而设计的上下整平背压滚轮组，可达到保证的应力消除效果
- \* 创新的机械结构，使全机所需作业空间缩至最小

### Machine Main Feature

- \* The European standard Servo System that we use ensures high-precision process of feed. The Large-sized Colorful 7"LCD touchscreen, high definition operation interface and operation safety system make it safer for newer user to run the machine.
- \* The operation system with humanization design shortens the time of preparation, and advanced automatic diagnostic system helps operator to quickly master machine's operating characteristic.
- \* About which designs for the force thick plate levels off the back pressure hoop group specially. May achieve the guarantee the stress relieving effect.
- \* New concept and design reduces space requirements

### 外形尺寸 External Dimension



专注于：冲压机械手 机器人 送料线  
Focus on stamping press transfer, industrial robot, metal coil handling machine



### NCHW1B型规格参数表 Specification:

型号Model	NCHW1-400B	NCHW1-600B	NCHW1-800B
板幅 Material Width ( mm )	50~400	50~600	50~800
板厚 Material Thickness ( mm )	0.3~3.2	0.3~3.2	0.3~3.2
卷材重量 Coil Weight MAX. ( kg )	3000	3000	5000
卷材外径 Coil O.D. ( mm )	1400	1400	1400
卷材内径 Coil I.D. ( mm )	508	508	508
最大送料长度 Max. Feed Length ( mm )	0~1600	0~1600	0~1600
生产线速度 Feed Speed ( m/min )	16~24	16~24	16~24
工作滚轮 ( 支 ) Straightening Roller(pcs)	上 5下 4	上 5/下 4	上 5/下 4
送料滚轮 ( 组 ) Feed Roller(group)	1	1	1
主电机 Main Motor(KW)	AC 3.0	AC 5.0	AC 7.0
料架扩张方式 Mandrel Expansion	油压/Hydraulic	油压/Hydraulic	油压/Hydraulic
料架电机 Decoiler Motor ( KW )	1.5	2.25	3.7
使用电源电压 Power Supply ( V )	3相 380V/50HZ/客户要求 3Phase 380V/50HZ/as customer request		
送料线高度调节 Feeding line height adjust method	电动调节 Electric Adjustment		
使用空气压 Air Pressure(MPa) ( Mpa )	0.5		

### 矫正能力表 Straightening Performance:

型号Model	NCHW1-400B	NCHW1-600B	NCHW1-800B	
板厚 Material Thickness ( mm )	0.3	400	600	800
	0.4			
	0.6			
	0.8			
	1.0			
	1.2			
	1.4	500	600	700
	1.6			
	2.0			
2.3	350	450	550	
2.0	290	390	490	
2.3	260	360	460	
3.0	200	300	400	

以上表格的屈服强度临界值为245N/mm<sup>2</sup>  
The above data is based on Max. yield strength of 245N/mm<sup>2</sup>

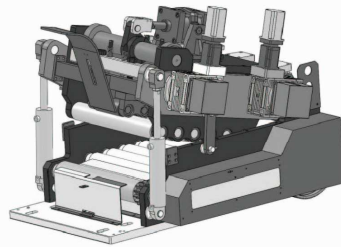
# 3 In 1 Decoiler Straightener Feeder Optional Function: 三机一体式 伺服开卷整平送料机选配功能介绍



专注于：冲压机械手 机器人 送料线  
Focus on stamping press transfer, industrial robot, metal coil handling machine

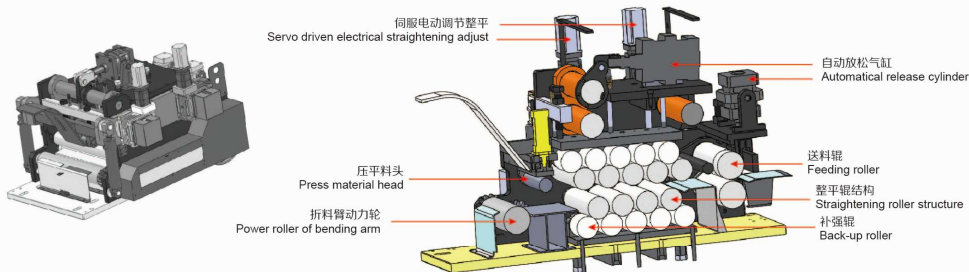
## 一、整平机头 掀开式 Flip Up Straightener

- 1、油缸驱动掀起整平机头 Open the upper Straightener up by oil cylinder.
- 2、便于上料 Convenient to feed the front of coiled strips into straightener.
- 3、便于清洁辊轮 Give easy access to cleaning up rollers.
- 4、主要针对 Generaly apply to:
  - a: 表面要求高的材质 例如铝、铜、不锈钢、镀锌板等  
material with high requirement for material surface, such as Aluminum, Copper, Stainless Steel, Galvanized Sheet etc.
  - b: 对粉尘产多的材质 例如铝沫、热轧板的氧化皮等  
material comes with much dust, such as Aluminum foam, oxide skin of Hot Rolled Sheet etc.



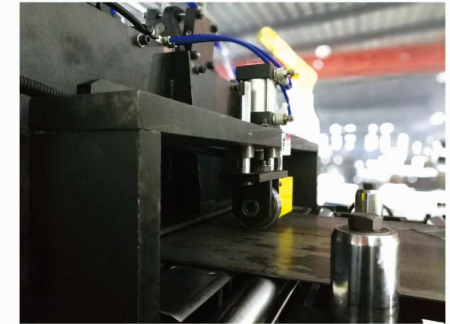
## 二、伺服调整整平量 Servo Driving Straightening Engagement Adjustment

- a、自动调节 (通过输入参数自动调整整平度)  
Automatic adjustment: Adjust straightening engagement automatically by inputting parameter.
- b、可存储记忆调节量, 重复调节时一键读取配方号数据, 调节到位。具有精度高, 速度快, 操作便捷之功能  
Storable straightening engagement: One-click adjustment, a simple mode that reads and uses the straightening engagement that have been used, has the advantage of high precision, high efficiency and great convenience.
- c、适用于重型机器, 人工操作太吃力的情况。  
It is suitable for heavy machines and the situation that manual operation is too difficult.



## 三、负反馈装置 Feeding Measure and Feedback System

- 1、通过测量实际送料长度, 反馈到控制系统并补偿送料长度, 用以修正送料误差从而提升送料精度。  
Through measure actual feed length, feedback to control system and compensate the feed length, to be used for correcting feeding error so that improving feeding accuracy.
- 2、此装置主要适用于 Mainly apply to
  - a: 当送距太长而导致累计误差过大的情况。  
When the feeding length is too long, the accumulative error is out of specifications, this system can correct error.
  - b: 无导正销的连续模具不能单步消除误差, 导致在整个连续模工步上的误差累计而出现送料精度要求非常高的情况。  
When the progressive die don't have pilot pin, the feeding error can't be corrected in each pitch, the feeding error accumulated and caused more high precision requirement.
  - c: 其它对送料精度要求非常高的情况。  
Other situation which requires high feeding accuracy.



## 四、辊轮式辅助入料台车 Coil Car With Motorized Roller For Assisting Material Entry Into Straightening Rollers

- 1、台车带承重辊轮, 辊轮有液压马达驱动, 入料时托住材料头, 跟随开卷机转动, 辅助入料之功能。  
The coil car equips with loadable rollers which is driven by hydraulic motor, and is used for supporting the front coiled strips, rollers rotate following with uncoiling, assist material entry into straightening rollers.
- 2、主要适用于中 厚板结构及屈服强度较高的材料。  
Mainly apply to middle/thick sheet and high yield strength material.



## 3 In 1 Decoiler Straightener Feeder Optional Function: 三机一体式开卷整平送料机选配功能介绍

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

#### 1、液压驱动

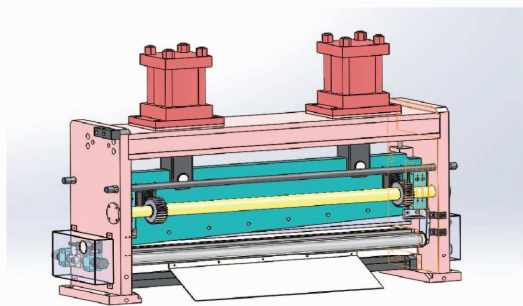
Hydraulic Shearing

#### 2、用于剪料头料尾，也可用于下料

Use for shearing material head/end, and blanking too.

主要用于材料较厚，强度较高，不易人工剪料的材料

Mainly use for thicker or high strength material, which is not easy to shear manually.



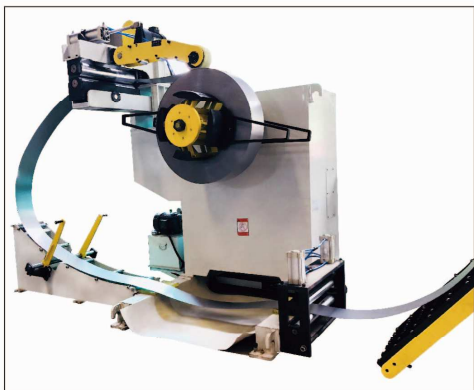
### 六、高速料弧结构 High Speed Coil Loop Structure

#### 1、位于料架的左上方的夹持棍，通过压料臂反馈的卷料外径，实现此动力与开卷机的线速度一致，并配合位于料架左下方的高速料弧托料架，达到卷料不散料速度快之功能。

The clamping rollers: located on the upper left of uncoiler, through getting the coil OD which feedback from press arm, to realize the same line speed as uncoiling, cooperate with high speed coil loop support frame which is located on lower left of uncoiler, to realize the coil no loosening, high speed uncoiling of functions.

#### 2、适用于送料距离较长、速度较快的落料线。

Suitable for long feeding pitch/high speed blanking line



专注于：冲压机械手 机器人 送料线

Focus on stamping press transfer, industrial robot, metal coil handling machine



### 七、收膜装置 Film Recoiling Device

#### 1、通过涨紧马达调速自动移除 卷料上的腹膜。

Through expansion motor to adjust speed and recoil the film covered on the coil automatically.

#### 2、可安装在整平机前或整平机后，视客户卷料及产品要求而定。

Installed in the front or back of straightener, depends on customer coil and product request.



### 八、涂油机 Lubricator

#### 1、在整平机出料口可选配此配置，可根据客户对涂油的要求，有喷雾型，毛毡滚筒型等，根据不同需求选购。

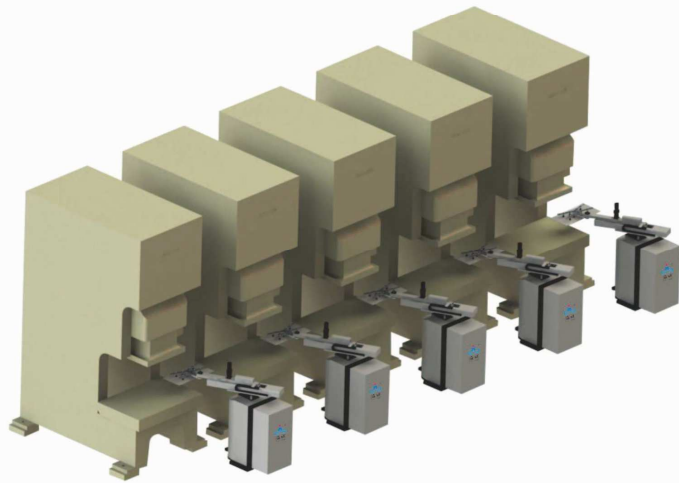
Equipped in the straightener exit, according to customer request on lubricating, have spray type, wool felt roller type for choice to meeting different requirements.

#### 2、此装置适用于冲压时模具起热时的冷却，及产品拉伸时的润滑等。

Be used for cooling when mould is fever while stamping, and lubricating while deep drawing etc.

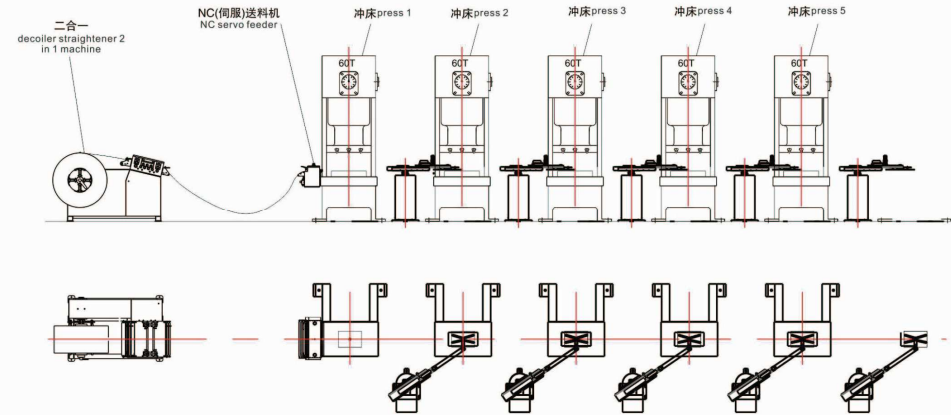


# Multi Axes Robots(3-5 axes) 多轴机器人 (3-5轴)



## 专注于：冲压机械手 机器人 送料线 Focus on stamping press transfer, industrial robot, metal coil handling machine

### 客户方案 Use Case



### 特性 Characteristic

- 机器人专用运动控制系统，安全，稳定，高效。
  - 采用全中文操作系统、人机界面触摸屏操控，操作简单、方便易学。
  - 各轴均采用AC伺服电机传动。
  - 自主研发、专利技术。
  - 其他说明：安装方式：落地式      最大负载：5KG  
 重复定位精度：±0.2mm      生产效率：10-14次/分钟  
 环境温度：0-50℃      湿度：30%到最大95%
- Robot special use action control system, safely, steady and high efficiency.
  - Adopted Chinese operate system, touch screen in HMI, easy to learn and operate.
  - All axes were driven by AC servo motor.
  - Independent research and development, patented technology.
  - Other issues:
    1. installing method: ground
    2. Max. loading capacity: 5kg
    3. Re-orientation accuracy: ±0.2mm
    4. Production frequency: 10-14 times/min
    5. Environment temperature: 0-50℃
    6. Humidity: 30%-95%

### 机器人配置及技术参数介绍(三、四、五轴)R系列      Introduces the configuration and technical parameters of the robot (three or four, five axis) R

#### 一、主体升降传动J1轴:

- 1、伺服电机(1套)自带刹车伺服电机
  - 2、滚珠丝杆传动+线性导轨
  - 3、行程：0-350mm/250mm
- Main axis going up and down  
 1. Servo motor with brake(Z set)  
 2. Ball screw + liner guide  
 3. Distance of run: 0-350mm/250mm

#### 二、整体旋转传动J2轴:

- 1、伺服电机(1套)
  - 2、配高精度谐波减速机
  - 3、旋转范围：±180°
  - 4、活动半径：1300MM-1800MM
- Rotating axle in entirety  
 1. Servo motor(1 set)  
 2. High precision harmonic speed reducer  
 3. Rotating range: ±180°  
 4. activity radius: 1300mm-1800mm

#### 三、手臂前后伸缩传动J3轴:

- 1、伺服电机(1套)
  - 2、丝杆带传动/同步
  - 3、行程：600mm
- Transfer arm stretching out and drawing back J3  
 1. Servo motor(1 set)  
 2. Lead screw and synchronous belt transmission  
 3. Distance of run: 600mm

#### 四、手臂水平旋转传动J4轴:

- 1、伺服电机(1套)
  - 2、采用高精度行星减速机
  - 3、旋转范围：±180°
- Transfer arm rotating horizontally J4  
 1. Servo motor(1 set)  
 2. High precision planet reducer  
 3. Rotating range: ±180°

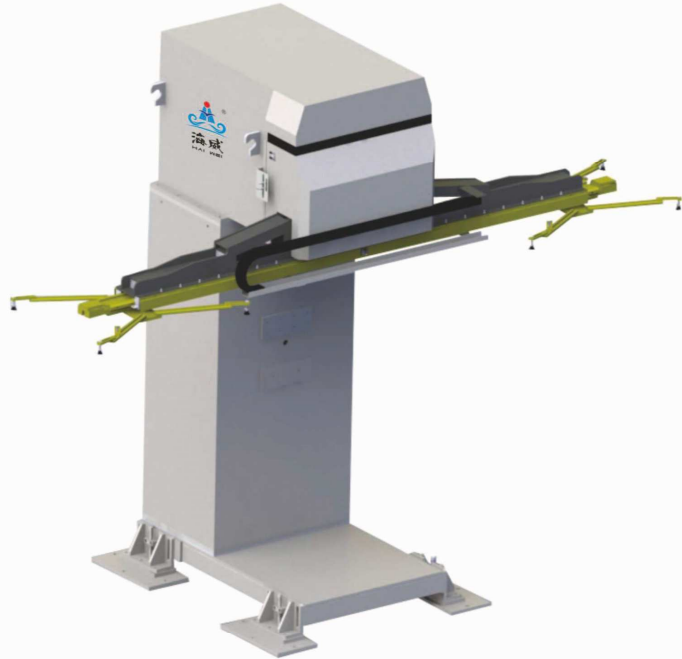
#### 五、手臂末端左右翻转传动J5轴:

- 1、伺服电机(1套)
  - 2、采用高精度行星减速机
  - 3、左右翻转范围±220°
- Arm terminus rolling over part J5  
 1. Servo motor(1 set)  
 2. High precision planet reducer  
 3. Rolling over range: ±220°

注：各参数可按客户要求定制  
 N.B.Specifications are subject to change without notice.

# Independent Type Transfer System

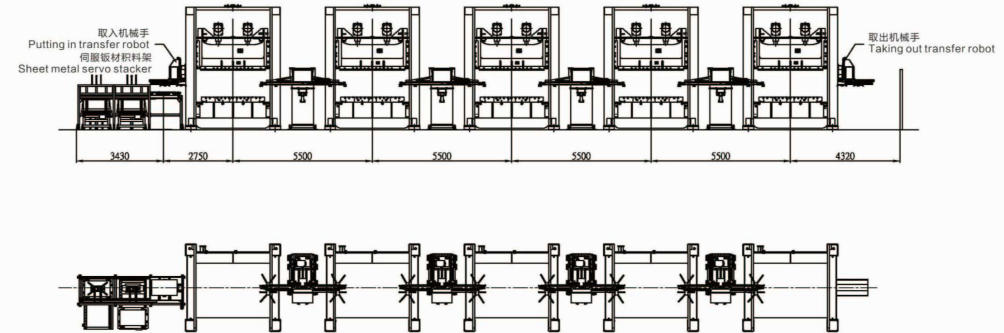
## 大型独立式传送机械手



专注于：冲压机械手 机器人 送料线  
Focus on stamping press transfer, industrial robot, metal coil handling machine



### 客户方案 Use Case



### 特性 Characteristic

- 横移和升降均采用AC伺服电机传动。
- 进料方式：卷料可搭配空气送料机，NC滚轴输送送料机和三合一送料机，片料可搭配双堆式积料架，NC伺服料架。
- 吸着方式采用真空吸盘或电磁吸铁，适用不同工件。
- 采用PLC和触摸屏人机界面控制系统，可直观查看运行状态和异常监视，各项冲压作业参数可由人机界面输入，修改、调整设置方便，维护简单。
- 适合大工件、大行程、长距离送料。
- Traverse and lifting using AC servo motor drive.
- Feeding method: rCoil material is applicable to use air feeder, NC servo roll feeder, 3 in 1 straightener feeder & decoiler machine, NC roll feeder and triple feeder lose lose flakes a double heap-plot can be used with rack.
- The sucking vacuum sucker or electromagnetic iron absorption, and adapt to different workpiece.
- PLC and touch the man-machine interface control system can directly view the operational status and exception monitoring, the stamping operation parameters can be entered through the man-machine interface, modify, easy to adjust the settings and simple maintenance.
- Suitable for large workpiece, large stroke, long distance feeding.

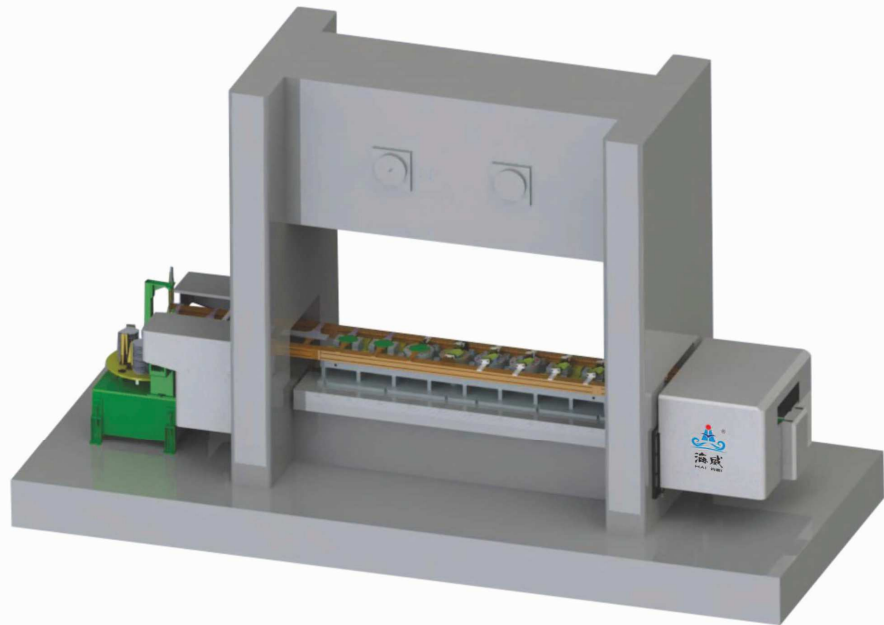
### 技术参数 Technical parameters

型号	Model	单位/Unit	R1-2500	R1-2700	R1-3000	R1-3300
移送行程	Feed Stroke	mm	2500	2700	3000	3300
升降行程	Lift Stroke	mm	100	100	100	100
传送精度	Feed Accuracy	mm	±0.3	±0.3	±0.3	±0.3
单支手臂最大吸料重量	Single support arm, the maximum weight of the suction	kg	10.0	10.0	10.0	10.0

注：各参数可按客户要求定制  
N.B.Specifications are subject to change without notice.

# 3D Transfer System

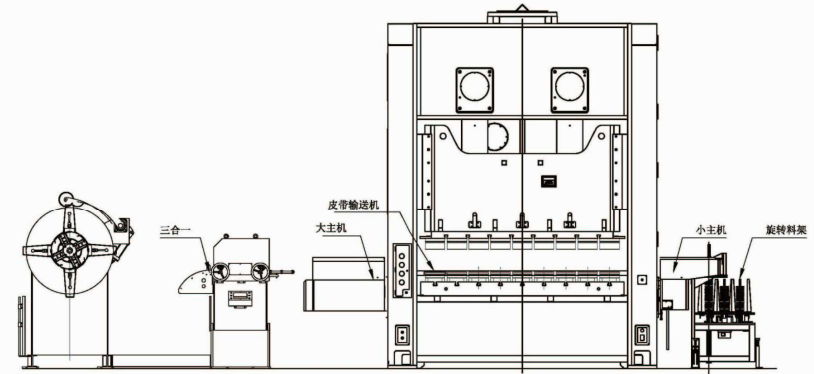
## 三次元传送机械手



专注于：冲压机械手 机器人 送料线  
Focus on stamping press transfer, industrial robot, metal coil handling machine



### 客户方案 Use Case



### 特性 Characteristic

- 动力源为数个独立伺服马达，由连结冲床曲轴之编码器传送角度信号至控制系统达成与冲床同步运作之功能。
- 具有误送检知回路，确保模具及机器之安全。
- 各轴均由精密滚珠丝杆传动，定位精度高。
- 送料系统可采用三合一送料机、摇摆式送料机或者采用双堆式积料架、旋转料架。
- 自动化生产，强化作业安全性，提升产能，稳定产品质量，有效降低不良率及成本。
- 采用高级运动控制器和触摸式人机界面控制系统，可确实监视运作中之角度和异常状态之检测，各项冲压作业参数可经由人机介面输入，修改、调整设置方便，维护简单。
- power source for a number of independent servo motor, encoder transmitted by the link punch crankshaft angle signal to the control system to achieve the functional operation of synchronization with the punch.
- with a the Misfeed loop to ensure the safety of mold and machine.
- main frame is made of welded structures, each axis by high precision ball screw drive moving, positioning accuracy.
- The feeding system can be used triple feeder, swing-type feeder or rack using a double heap-plot.
- automated production, and strengthen job security, improve productivity, stable product quality, lower defect rate and cost effectively.
- advanced motion controller and touch the man-machine interface control system, can really monitor the functioning of the angle and the detection of the abnormal state, the stamping operation parameters can be entered through the man-machine interface, modify, easy to adjust the settings and simple maintenance.

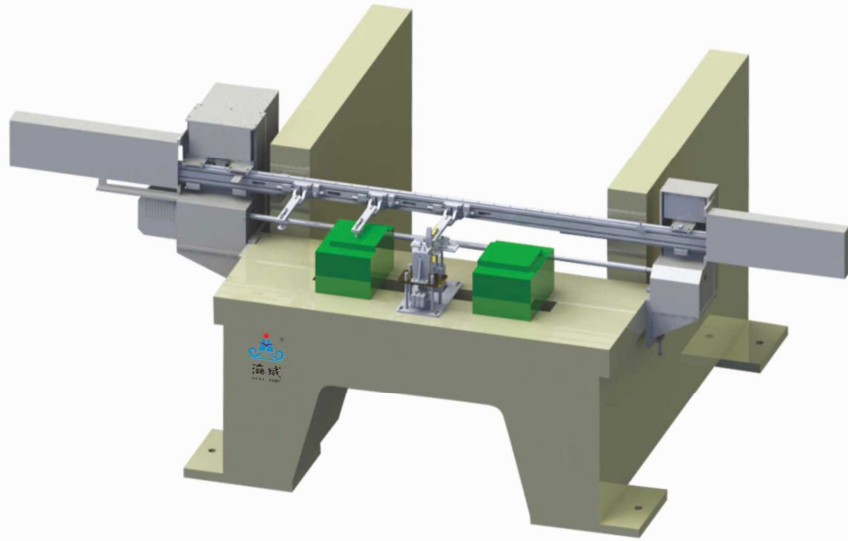
### 技术参数 Technical parameters

型号	Model	单位/Unit	TR-150	TR-250	TR-350	TR-450	TR-550
移送行程	Feed Stroke	mm	0-150	0-250	0-350	0-450	0-550
开夹行程	Open the folder stroke	mm	0-200	0-200	0-200	0-200	0-200
升降行程		mm	0~120	0~120	0~120	0~120	0~120
传送精度	Transmission accuracy	mm	±0.2	±0.2	±0.2	±0.2	±0.2
移送杆最小内幅	Transferred to the rod minimum within parcels	mm	260	300	360	460	560
最大运转速度	Maximum operating speed	SPM	40	35	30	25	20
最大移送负载	Maximum transfer of load	kg	15	20	25	30	30

注：各参数可按客户要求定制  
N.B. Specifications are subject to change without notice.

# Single Process Transfer System

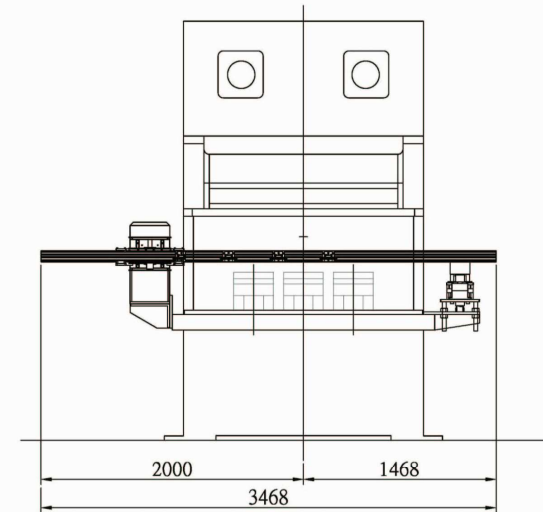
## 单机多工位传送机械手



专注于：冲压机械手 机器人 送料线  
Focus on stamping press transfer, industrial robot, metal coil handling machine



### 客户方案 Use Case



### 特性 Characteristic

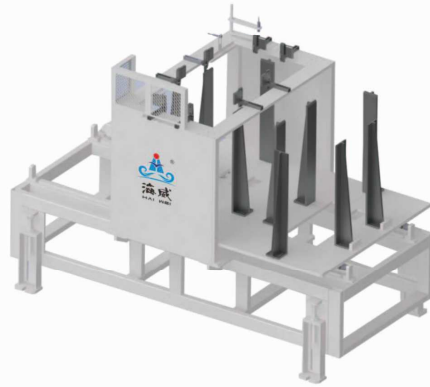
- ◎直接安装在冲床台面侧面或后面，结构简单，紧凑，占用空间小。
- ◎横移和升降均采用AC伺服电机传动。
- ◎进料方式：卷料可搭配空气送料机、NC滚轴输送送料机和三合一送料机，片料可搭配双堆式积料架。
- ◎吸着方式采用真空吸盘或电磁吸铁、气动夹具，适应不同工件。
- ◎采用PLC和触摸式人机界面控制系统，可直观查看运行状态和异常监视，各项冲压作业参数可由人机界面输入，修改、调整设置方便，维护简单。
- ◎Mounted directly on the side or back of the punch platen, the structure is simple, compact, small footprint.
- ◎Traversing and elevating adopt AC servo motor drive.
- ◎Roll material with air feeder, NC roll feeder and triple feeder lose lose flakes a double heap-plot can be used with rack.
- ◎Sucking vacuum suction cups or the electromagnetic iron absorption, pneumatic clamps mixed use to adapt to different workpiece.
- ◎PLC and touch the man-machine interface control system, intuitive view the operational status and exception monitoring, the the stanplng operation parameters can be entered through the man-machine interface, modify, adjust the settings convenient and simple to maintain.

### 技术参数 Technical parameters

型号	Model	单位/Unit	TM1-300	TM1-450	TM1-600	TM1-800
移送行程	Feed Stroke	mm	300	450	600	800
升降行程	Lift Stroke	mm	60	60	60	60
传送精度	Feed Accuracy	mm	±0.2	±0.2	±0.2	±0.2
单支手臂最大吸料重量	Single support arm, the maximum weight of the suction	kg	2.5	2.5	2.5	2.5

注：各参数可按客户要求定制  
N.B. Specifications are subject to change without notice.

# Metal Sheet Stacker 板材积料架



## 特性 Characteristic

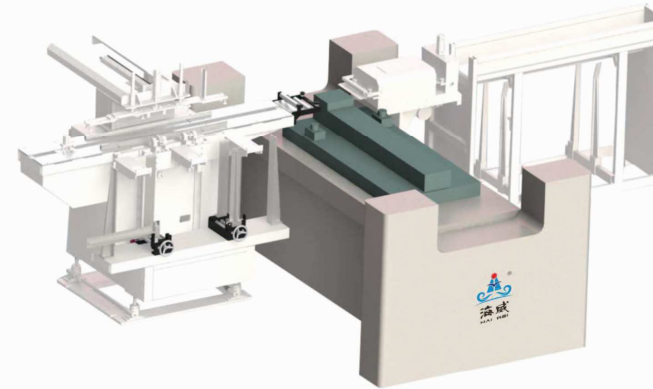
- 采用双堆积料方式，两垛料可交替使用，具有自动换料功能，可实现换料时不停机，不影响冲压机械手的正常运作。
- 采用磁性分离装置和双张检测装置，可有效避免双张料送入模具，造成设备和模具损坏。
- 可根据需要加装吸取材料移送和自动定位装置。
- double stacked material way, two stacks of material can be used interchangeably with automatic refueling refueling stop machine, does not affect the normal operation of the punching robot.
- magnetic separation device and double sheet detection device, which can effectively avoid double sheet of material into a mold, resulting in damage to equipment and molds.
- required the installation of to draw material feed and automatic positioning device.

## 技术参数 Technical parameters

板材积料架	Plot of sheet metal rack	L1-400	L1-600	L1-800	L1-1000
适用产品尺寸(mm)	Applicable Product Size(mm)	400x300	600x400	800x550	1000x650

注：各参数可按客户要求定制  
N.B.Specifications are subject to change without notice.

# Short Metal Sheet Transfer System 短尺材传送机械手



## 特性 Characteristic

- 适用于小批量多品种的片材送进方式。
- 送料和拉料均采用AC伺服电机传动，长度设置和调整方便，送料精度高。
- 吸着方式采用真空吸盘或电磁吸铁。
- 采用PLC和触摸式人机界面控制系统，可直观查看运行状态和异常监视，各项冲压作业参数可由人机介面输入，修改、调整设置方便，维护简单。
- Apply to small quantities of many varieties sheet feed mode
- Feeding and pull material using AC servo motor drive, length to set up and easy to adjust, high feeding accuracy.
- The sucking the vacuum sucker or electromagnetic iron absorption.
- PLC and touch the man-machine interface control system can directly view the operational status and exception monitoring, the stamping operation parameters can be entered through the man-machine interface, modify, easy to adjust the settings and simple maintenance.

## 技术参数 Technical parameters

片材传送机械手	Sheet convey robot	单位/Unit	FR-1300	FR-1600	FR-1800	FR-2000
原材料长度范围	Length range of raw materials	mm	950-1300	1200-1600	1300-1800	1400-2000
原材料宽度范围	The width of the range of raw materials	mm	60-250	80-350	100-400	120-500
原材料厚度范围	Thickness range of raw materials	mm	0.8-4.5	0.8-4.5	1.0-6.0	1.0-6.0
最大吸料重量	The maximum weight of the suction	kg	20	30	35	50
积料高度	The height of the product material	mm	400	400	400	400
送料步距	Feeding stride	mm	0-200	0-250	0-300	0-350
传送精度	Transmission accuracy	mm	±0.3	±0.3	±0.3	±0.3

注：各参数可按客户要求定制  
N.B.Specifications are subject to change without notice.

# Tipping Machine 翻转机



## 特性 Characteristic

- 动力源为多个独立伺服马达，由联结冲床曲轴之编码器传送角度信号至控制系统达成与；中床同步运作之功能。
- 具有误送料知回路，确保模具及机器之安全。
- The power source of independent servo motor, encoder link punch crank the transmission angle signal to the control system to achieve the functional operation of synchronization with the punch.
- Misfeed loop, to ensure the safety of mold and machine.

## 技术参数 Technical parameters

翻转机(前后翻)	Flip machine ( Before and after )	单位/Unit	FM1-400	FM1-600	FM1-800	M1-1000
产品前后尺寸		mm	≤400	≤600	≤800	≤1000
翻转机(左右翻)	Flip machine ( Left and right )	单位/Unit	FM2-400	FM2-600	FM2-800	M2-1000
产品前后尺寸		mm	≤400	≤600	≤800	≤1000

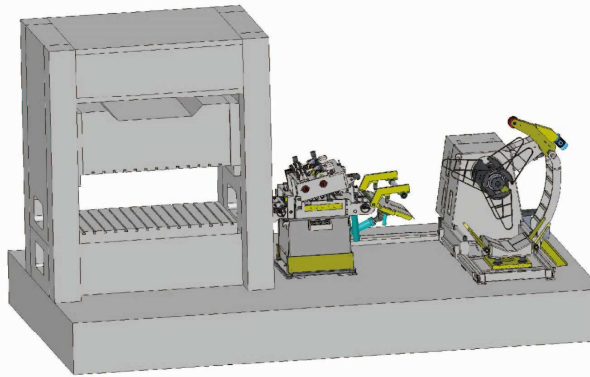
注：各参数可按客户要求定制  
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## 汽车零部件级进模冲压生产线：Automobile Parts Progressive Die Stamping Line

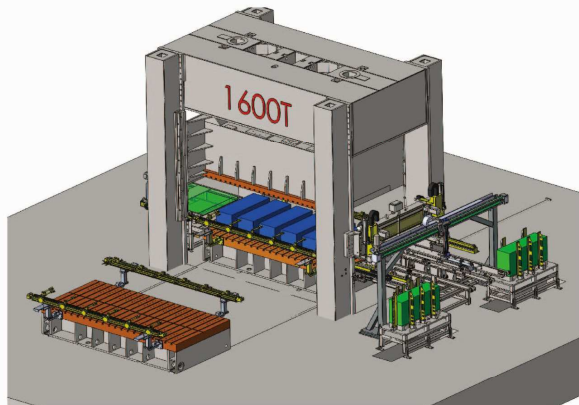
开卷机整机移动，上料台车固定，上料易对中且安全不倾侧。

Decoiler is movable, while coil car is fixed. Coil is centered more easily and safely.



## 三次元多工位机械手 3D Multiple Stations Transfer System

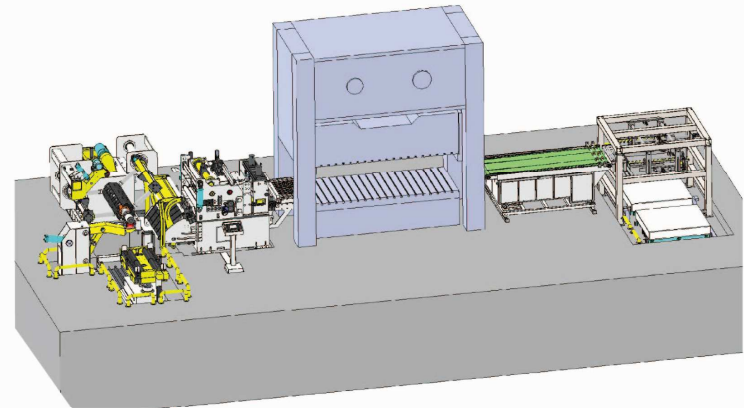
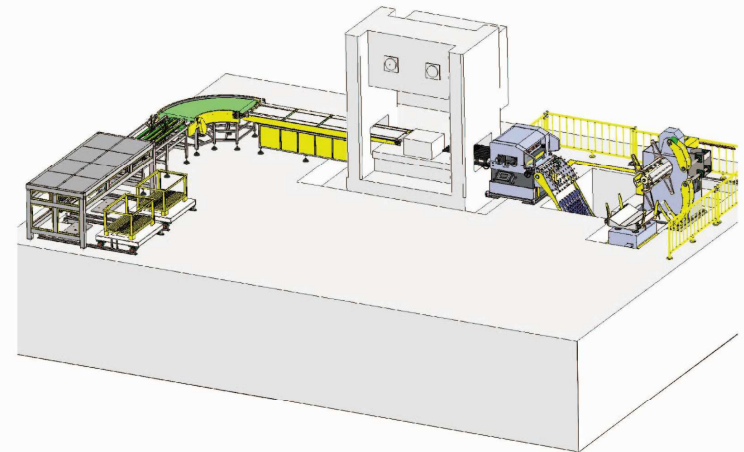
1. 生产模式多样化 Variety of Production mode.
2. 料垛自动切换，可不停机或配合三合一开卷整平送料机落料  
Stacker switches automatically without downtime or works with 3 in 1 decoiler straightener feeder for blanking.
3. 移送横杆一键自动拆装 Transferring beam with one-click assembly & disassembly function.
4. 节省劳动力，降低成本 Save cost and labor.
5. 提高生产效率和产品质量的稳定性 Enhance productivity, stability, and quality.



## 汽车零部件冲压落料堆垛生产线：Automobile Parts Blanking Line With Stacking System

开卷落料线是一种适用于汽车、钢板配送等行业，表面覆盖件卷板的开卷、校平、摆剪/横剪、落料输送和码垛的板材加工设备，在发达的国家汽车制造厂中已普遍采用，该生产线采用磁性输送带配合伺服堆垛机，可实现落料不停机生产。且整条生产线为自动化落料开卷线，可减少由于手工落料操作而产生的表面划痕，提升产品质量、减少工人劳动强度，提高材料利用率和生产效率。

Blanking line, a combination of unwinding, straightening, shearing, blanking, transferring, and stacking machines for coated coils, is applied to auto parts, steel plate, and more manufacturing industries. It has been widely used in auto manufacturers in developed countries. This production line using magnetic conveyor and servo stacker can run constantly without downtime. It is fully automatic, avoiding scratches caused by manual operation, improving products quality, reducing work intensity, and enhancing raw material efficiency and productivity.



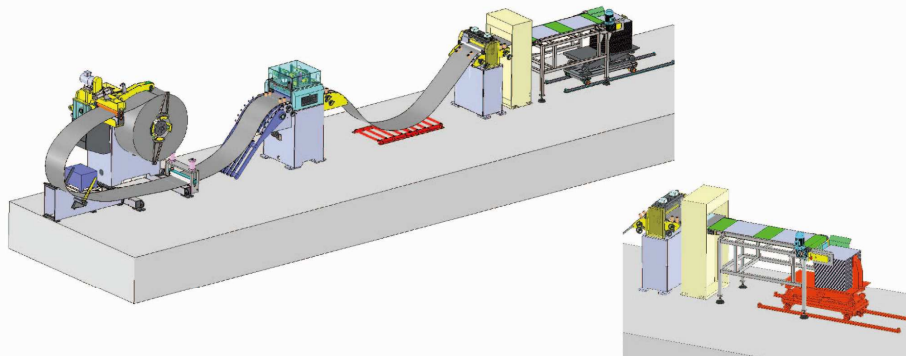
## 经济型剪切线: Economical Cut To Length Line

本机特点 Features:

无需地坑, 占地小 Pit-free and space-saving design

成本低, 经济实惠 More economical and flexible

适用于冲压应用厂家, 灵活安排多品种、小批量的冲压片料供应 Suit for factories that manufacture small amount of sheet metal for press

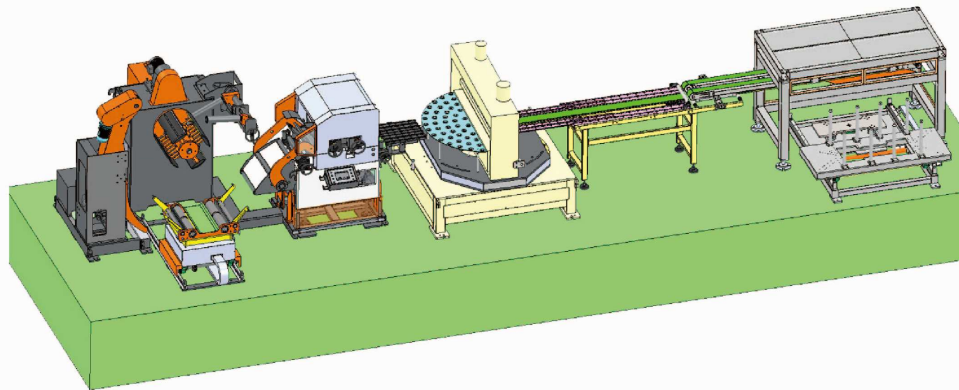


## 带斜角的异型材料剪切线: Cut to length line for angular-shape sheet

倾斜角度可调 Angle is adjustable

可切各种菱形片料 Suit for all kinds of rhombic sheet

节约冲压用材 Save raw materials



## 专注于: 冲压机械手 机器人 送料线

Focus on stamping press transfer, industrial robot, metal coil handling machine

## 大型圆片落料线 Large-Sized Circle Blanking Line

由液压伺服泵驱动的料架整体偏摆, 平稳, 安全。

It is stable and safe that decoiler driven by hydraulic servo pump zigzags integrally.

整平送料整体偏摆, 缩短整线长度, 整机精简高效少划伤。

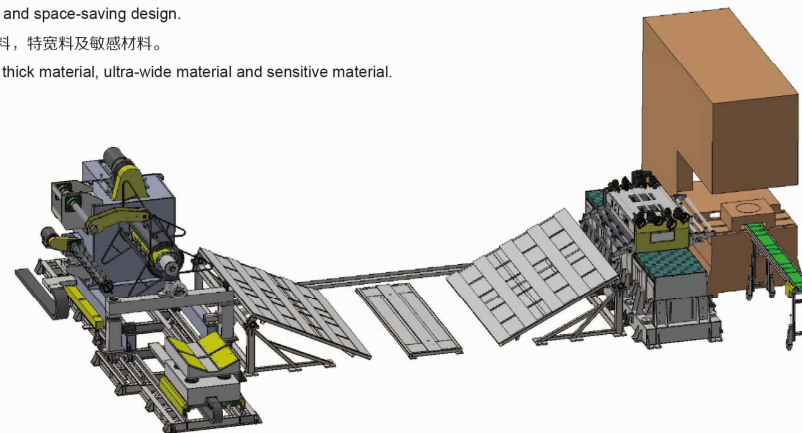
Straightener-feeder parts zigzags integrally. The whole line is shorten and simplified, boosting efficiency and reducing scratches.

无需地坑, 占地小。

Pit-free and space-saving design.

适合厚料, 特宽料及敏感材料。

Suit for thick material, ultra-wide material and sensitive material.



## 圆片落料伺服偏摆生产线 Servo Zigzag Circle Blanking Line

该设备针对较厚屈服强度较高的圆片落料生产线, 采用地坑式料弧, 伺服送料整平偏摆。

This production line suits for thick material with high yield strength, using pit for buffer loop and straightener-feeder part that zigzags integrally.

