MACHINE TOOL SOLUTION

金澳兰
JINAOLAN



KINGLAN GROUP

冲压系列： 三合一系列
二合一系列
3 IN 1 STRAIGHTENER FEEDER AND DECOILER MACHINE
2 IN 1 STRAIGHTENER DECOILER AND FEEDER MACHINE



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WWW.KINGLAN.COM

3 IN 1 DECOILER STRAIGHTENER FEEDER
三机一体式 伺服料架整平送料机

产品特性

- 采用特制整平滚轮，有效的降服高刚性板材、提高材料矫平精度。
- 可掀开式上整平滚轮组，能迅速彻底的清洁工作滚轮、方便机械清理。（可选配）
- 电动调整矫正量：以电动的方式矫正量调整取代之前的手动涡轮矫正量调整，使得操作更加容易。
- 电控部分采用欧系：安全性、稳定性、持久性高。

Machine Main Feature

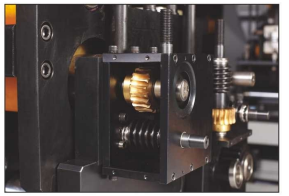
- Adopted specially treated straightening rollers, especially suitable high streching steel, enhancing the processing precision.
- The upper straightening roller part was designed to be open type, easy to clean the mechanical part and finish maintaince work. (optional part)
- Electric straightening precision adjustment: it's easier to adjust by electric than by manual type.
- Electric & electronic parts adopted EUROPEAN STANDARD products: Better in safety, stability, lifetime and so on.



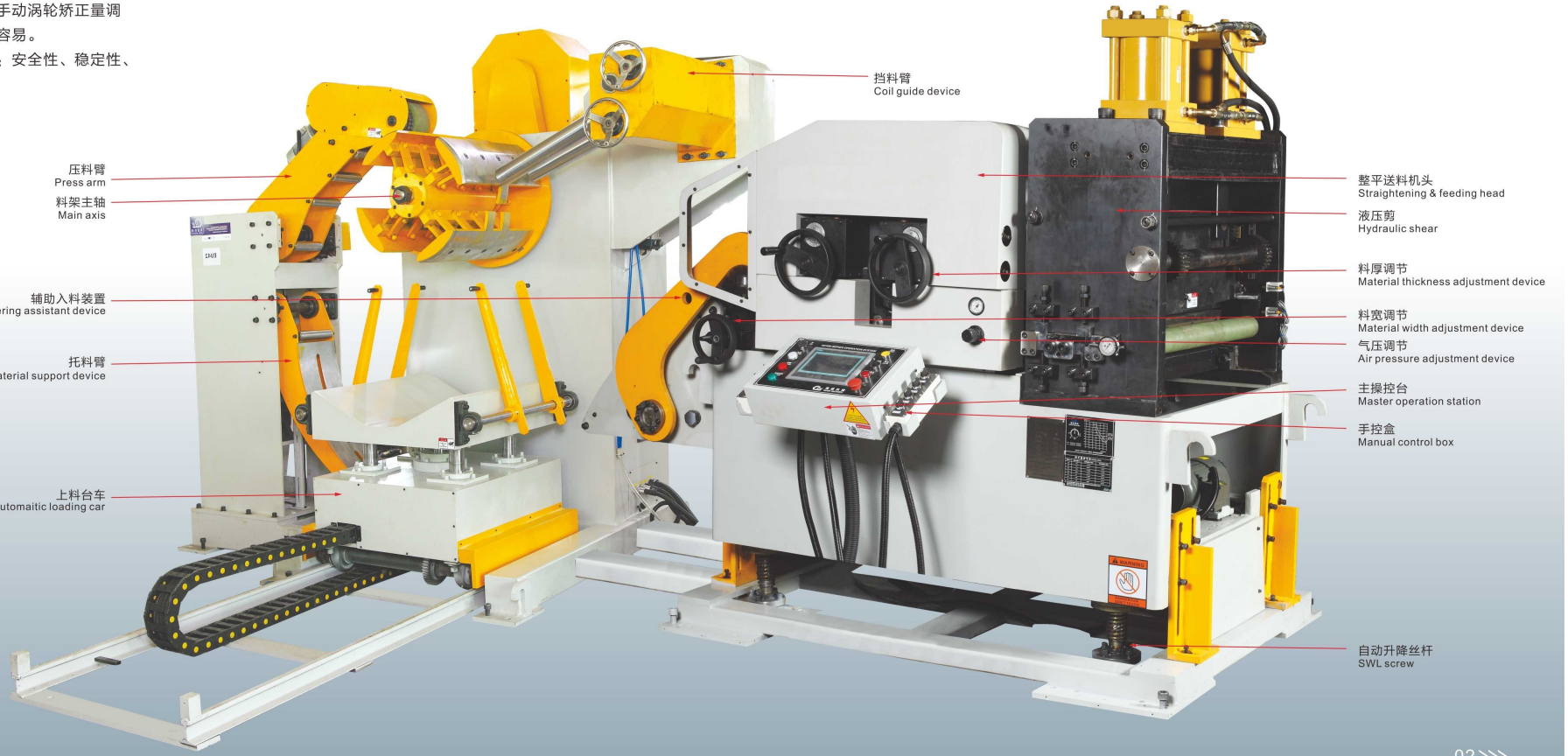
西门子操作屏
Siemens HMI



西门子控制系统
Siemens control system



蜗轮凸轮式调节
wormgear & cam adjustment device



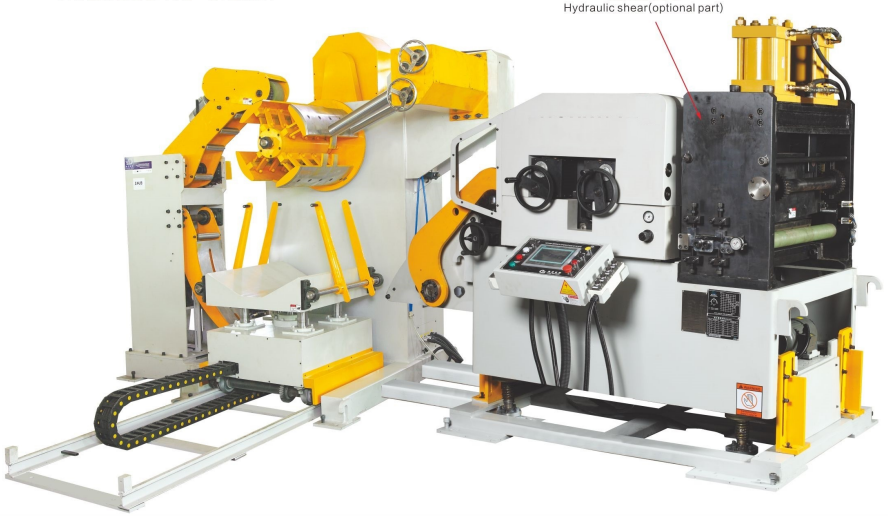
NCKL3A

3 IN 1 DECOILER STRAIGHTENER FEEDER
三机一体式 伺服料架整平送料机

高张力厚板 High tension steel plate

Thickness 1.0~6.0mm

液压剪选配
Hydraulic shear(optional part)



产品特性

- 采用特制整平滚轮，有效的降服高刚性板材、提高材料矫平精度。
- 电动调整矫正量：以电动的方式矫正量调整取代之前的手动涡轮矫正量调整，使得操作更加容易。
- 电控部分采用欧系：安全性、稳定性、持久性高。

Machine Main Feature

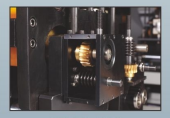
- Adopted specially treated straightening rollers, especially suitable high streching steel, enhancing the processing precision.
- Electric straightening precision adjustment: it's easier to adjust by electric than by manual type.
- Electric & electronic parts adopted EUROPEAN STANDARD products: Better in safety, stability, lifetime and so on.



西门子操作屏
Siemens HMI

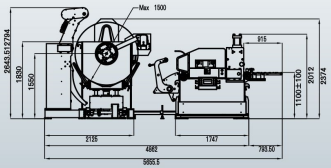


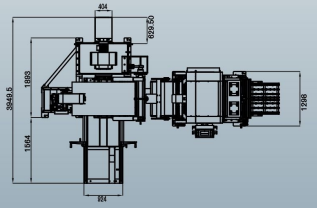
西门子控制系统
Siemens control system



蜗轮凸轮式调节
wormgear & cam adjustment device

外形尺寸 External Dimension





三合一送料机规格 NCHW3 series 3 In 1 Decoiler Straightener Feeder main parameter

型号 Model	NCHW3-600A	NCHW3-800A	NCHW3-1000A	NCHW3-1300
料宽 Width of Material(mm)	70~600	70~800	70~1000	A70~1300
料厚 Thickness of Material(mm)	1.0-6.0			
最大料重 Max.Coil Weight(kg)	5000		7000	
卷料内径 Coil I.D.(mm)	508			
卷料外径 Coil O.D.(mm)	1500			
最大速度 Max.Line Speed(m/min)	22			
标准送料精度 Feed Accuracy(mm)	±0.15			
矫正滚轮 Work Roll	上 Upper5/下 Lower4			
送料滚轮（组） Number of Feed Rolls	1			
背压滚轮组 Back pressure Roll	有/Provided			
标准送料高度 Feed level(mm)	1200（客户指定）±100			
电源电压 Power Supply	220VAC 60HZ/AC380V 50HZ			
空气压 Air Supply(kg/cm^2)	5kg/cm^2			
料架扩张方式 Uncoil Expansion	油压 Hydraulic			

矫正能力表 Straightening performance

型号 Model	材料厚度 Thickness											
	0.6	1.0	1.3	1.6	2.0	2.3	2.8	3.2	4.0	4.5	5.0	6.0
NCHW3-600A	600									455	363	260
NCHW3-800A	800								457	390	322	260
NCHW3-1000A	1000							360	457	385	307	230
NCHW3-1300A	1300						490	357	457	370	290	203

以上表格的屈服强度临界值 245N/mm^2
The above figures are the material having yield strength of 245N/ mm^2 max

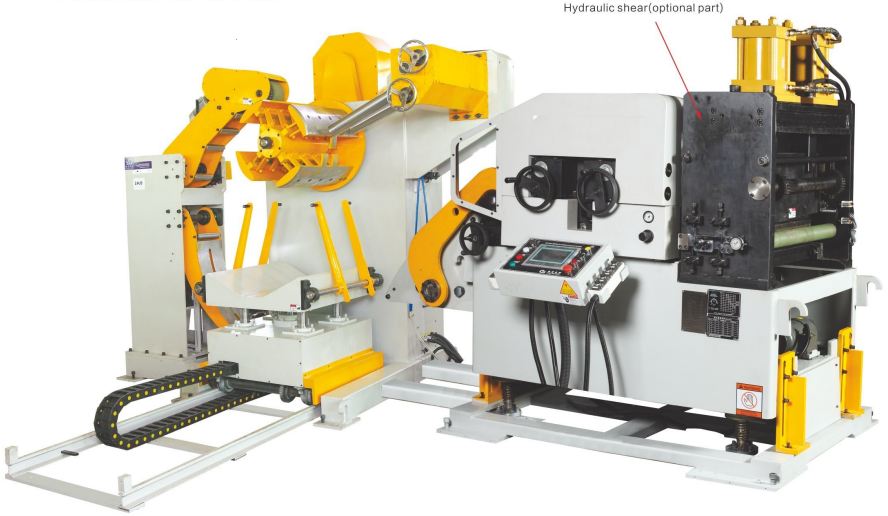
NCKL3B

3 IN 1 DECOILER STRAIGHTENER FEEDER
三机一体式 伺服料架整平送料机

厚板专用 Especially suitable for thick material

Thickness 1.0~6.0mm

液压剪选配
Hydraulic shear(optional part)



产品特性

- 采用特制整平滚轮，有效的降服高刚性板材、提高材料矫平精度。
- 电动调整矫正量：以电动的方式矫正量调整取代之前的手动涡轮矫正量调整，使得操作更加容易。
- 电控部分采用欧系：安全性、稳定性、持久性高。

Machine Main Feature

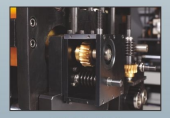
- Adopted specially treated straightening rollers, especially suitable high streching steel, enhancing the processing precision.
- Electric straightening precision adjustment: it's easier to adjust by electric than by manual type.
- Electric & electronic parts adopted EUROPEAN STANDARD products: Better in safety, stability, lifetime and so on.



西门子操作屏
Siemens HMI

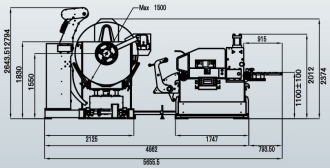


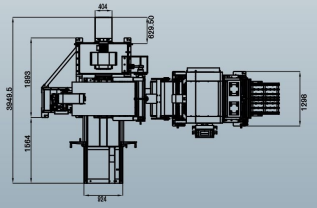
西门子控制系统
Siemens control system



蜗轮凸轮式调节
wormgear & cam adjustment device

外形尺寸 External Dimension





三合一送料机规格 NCHW3 series 3 In 1 Decoiler Straightener Feeder main parameter

型号 Model	NCHW3-600B	NCHW3-800B	NCHW3-1000B	NCHW3-1300B
料宽 Width of Material(mm)	70~600	70~800	70~1000	70~1300
料厚 Thickness of Material(mm)	1.0-6.0			
最大料重 Max.Coil Weight(kg)	5000		7000	
卷料内径 Coil I.D.(mm)	508			
卷料外径 Coil O.D.(mm)	1500			
最大速度 Max.Line Speed(m/min)	22			
标准送料精度 Feed Accuracy(mm)	±0.15			
矫正滚轮 Work Roll	上 Upper5/下 Lower4			
送料滚轮（组） Number of Feed Rolls	1			
背压滚轮组 Back pressure Roll	有/Provided			
标准送料高度 Feed level(mm)	1200（客户指定）±100			
电源电压 Power Supply	220VAC 60HZ/AC380V 50HZ			
空气压 Air Supply(kg/cm^2)	$5kg/cm^2$			
料架扩张方式 Uncoil Expansion	油压 Hydraulic			

矫正能力表 Straightening performance

型号 Model	材料厚度 Thickness											
	0.6	1.0	1.3	1.6	2.0	2.3	2.8	3.2	4.0	4.5	5.0	6.0
NCHW3-600B	600									455	363	260
NCHW3-800B	800								457	390	322	260
NCHW3-1000B	1000							360	457	385	307	230
NCHW3-1300B	1300						490	357	457	370	290	203

以上表格的屈服强度临界值 245N/mm^2
The above figures are the material having yield strength of 245N/ mm^2 max

NCKL2A 3 IN 1 DECOILER STRAIGHTENER FEEDER
三机一体式 伺服料架整平送料机

高张力中厚板 Suitable for Mid-thickness High tension plate

Thickness 0.5~4.5mm



产品特性

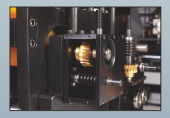
- 采用特制整平滚轮，有效的降服高刚性板材、提高材料矫平精度。
- 电动调整矫正量：以电动的方式矫正量调整取代之前的手动涡轮矫正量调整，使得操作更加容易。
- 电控部分采用欧系：安全性、稳定性、持久性高。

Machine Main Feature

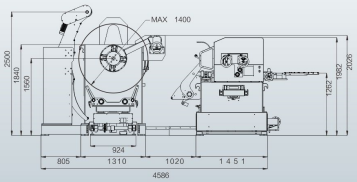
- Adopted specially treated straightening rollers, especially suitable high streching steel, enhancing the processing precision.
- Electric straightening precision adjustment: it's easier to adjust by electric than by manual type.
- Electric & electronic parts adopted EUROPEAN STANDARD products: Better in safety, stability, lifetime and so on.

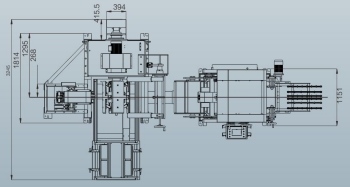

西门子操作屏
Siemens HMI


西门子控制系统
Siemens control system


蜗轮凸轮式调节
wormgear & cam adjustment device

外形尺寸 External Dimension





三合一送料机规格 NCHW2 series 3 In 1 Decoiler Straightener Feeder main parameter

型号 Model	NCHW2-600A	NCHW2-800A	NCHW2-1000A	NCHW2-1300A
料宽 Width of Material(mm)	70~600	70~800	70~1000	70~1300
料厚 Thickness of Material(mm)	0.5-4.5			
最大料重 Max.Coil Weight(kg)	5000		7000	
卷料内径 Coil I.D.(mm)	508			
卷料外径 Coil O.D.(mm)	1400			
最大速度 Max.Line Speed(m/min)	22			
标准送料精度 Feed Accuracy(mm)	±0.15			
矫正滚轮 Work Roll	上 Upper5/下 Lower4			
送料滚轮（组） Number of Feed Rolls	1			
背压滚轮组 Back pressure Roll	有/Provided			
标准送料高度 Feed level(mm)	1200（客户指定）±100			
电源电压 Power Supply	220VAC 60HZ/AC380V 50HZ			
空气压 Air Supply(kg/cm^2)	5kg/cm^2			
料架扩张方式 Uncoil Expansion	油压 Hydraulic			

矫正能力表 Straightening performance

型号 Model	材料厚度 Thickness											
	0.6	1.0	1.3	1.6	2.0	2.3	2.8	3.2	4.0	4.5	5.0	6.0
NCHW2-600A	600						490	312	219	155	127	95
NCHW2-800A	600						490	312	219	155	127	95
NCHW2-1000A	600						490	312	219	155	127	95
NCHW2-1300A	600						490	312	219	155	127	95

以上表格的屈服强度临界值600N/mm^2
The above figures are the material having yield strength of 600N/ mm^2 max

NCKL2B 3 IN 1 DECOILER STRAIGHTENER FEEDER
三机一体式 伺服料架整平送料机

中厚板专用 Especially suitable for material
Thickness 0.5~4.5mm

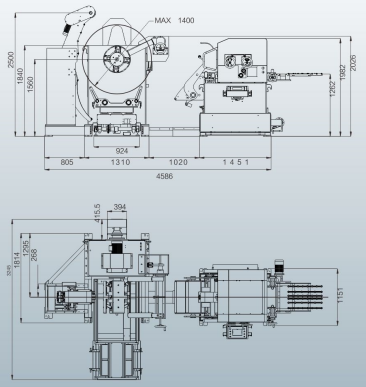



西门子操作屏
Siemens HMI


西门子控制系统
Siemens control system


蜗轮凸轮式调节
wormgear & cam adjustment device

外形尺寸 External Dimension



三合一送料机规格 NCHW2 series 3 In 1 Decoiler Straightener Feeder main parameter

型号 Model	NCHW2-400B	NCHW2-500B	NCHW2-600B	NCHW2-800B	NCHW2-1000B
料宽 Width of Material(mm)	70~400	70~500	70~600	70~800	70~1000
料厚 Thickness of Material(mm)	0.5-4.5				
最大料重 Max.Coil Weight(kg)	3000(5000)			5000(7000)	
卷料内径 Coil I.D.(mm)	508				
卷料外径 Coil O.D.(mm)	1400				
最大速度 Max.Line Speed(m/min)	22				
标准送料精度 Feed Accuracy(mm)	±0.15				
矫正滚轮 Work Roll	上 Upper4/下 Lower3				
送料滚轮（组） Number of Feed Rolls	1				
标准送料高度 Feed level(mm)	1200±100				
电源电压 Power Supply	220VAC 60HZ/AC380V 50HZ				
空气压 Air Supply(kg/cm^2)	5kg/cm^2				
料架扩张方式 Uncoil Expansion	油压 Hydraulic				

矫正能力表 Straightening performance

型号 Model		材料厚度 Thickness							
		0.3~0.8	1.0	1.6	2.3	2.5	2.8	3.2	4.5
送料宽度 Width(mm)	NCHW2-400B	400					370	300	160
	NCHW2-500B	500					320	270	160
	NCHW2-600B	600				360	290	250	160
	NCHW2-800B	800			480	320	250	220	150
	NCHW2-1000B	1000		430	330	290	230	200	110

以上表格的屈服强度临界值 245N/mm^2
The above figures are the material having yield strength of 245N/ mm^2 max

NCKL1 3 IN 1 DECOILER STRAIGHTENER FEEDER
三机一体式 伺服料架整平送料机

薄板专用 Especially suitable for thin material

Thickness 0.3~3.2mm



产品特性

- 采用11支整平滚轮，有效的提高材料矫平精度。

Machine Main Feature

- The straighiening part equipped 11 straightening rollers, Effective enhances the material to rectify the even precision.



西门子操作屏
Siemens HMI

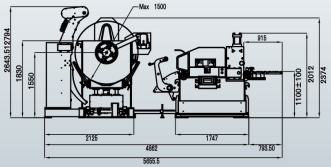


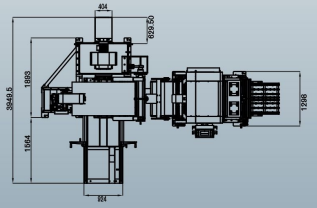
西门子控制系统
Siemens control



蜗轮凸轮式调节
wormgear & cam adjustment device

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

三合一送料机规格 NCHW1 series 3 In 1 Decoiler Straightener Feeder main parameter

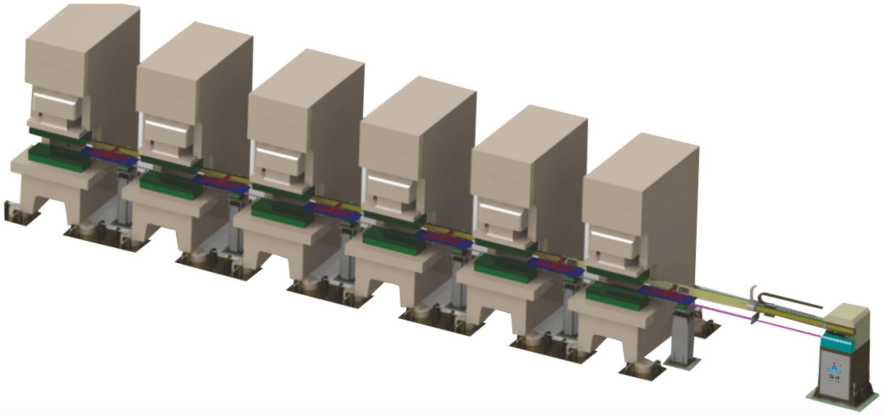
型号 Model	NCHW1-400	NCHW1-500	NCHW1-600	NCHW1-800	NCHW1-1000	NCHW1-1300
料宽 Width of Material(mm)	50~400	50~500	50~600	70~800	70~1000	70~1300
料厚 Thickness of Material(mm)	0.3-3.2					
最大料重 Max.Coil Weight(kg)	3000(5000)				5000(7000)	
卷料内径 Coil I.D.(mm)	508					
卷料外径 Coil O.D.(mm)	1200			1400		
最大速度 Max.Line Speed(m/min)	16				22	
标准送料精度 Feed Accuracy(mm)	±0.15					
矫正滚轮 Work Roll	上 Upper6/下 Lower5				上 Upper4/下 Lower3	
送料滚轮（组） Number of Feed Rolls	1					
标准送料高度 Feed level(mm)	1150±100			1200±100		
电源电压 Power Supply	220VAC 60HZ/AC380V 50HZ					
空气压 Air Supply(kg/cm²)	5kg/cm²					
料架扩张方式 Uncoil Expansion	油压 Hydraulic					

矫正能力表 Straightening performance

型号 Model		材料厚度 Thickness							
		0.3	1.3	1.6	2.0	2.3	2.5	2.8	3.2
送料宽度 Width(mm)	NCHW1-400	400				300	230	150	110
	NCHW1-500	500		400	360	300	230	150	110
	NCHW1-600	600		470	360	300	230	150	110
	NCHW1-800	800		480	360	370	320	250	220
	NCHW1-1000	1000		430	350	330	290	250	200
	NCHW1-1300	1300		430	350	330	290	250	200

以上表格的屈服强度临界值 245N/mm²
The above figures are the material having yield strength of 245N/ mm² max

MULTI-PROCESS TRANSFER SYSTEM-FRAME MOVING MODEL
多机连线传送机械手 跑外壳式结构



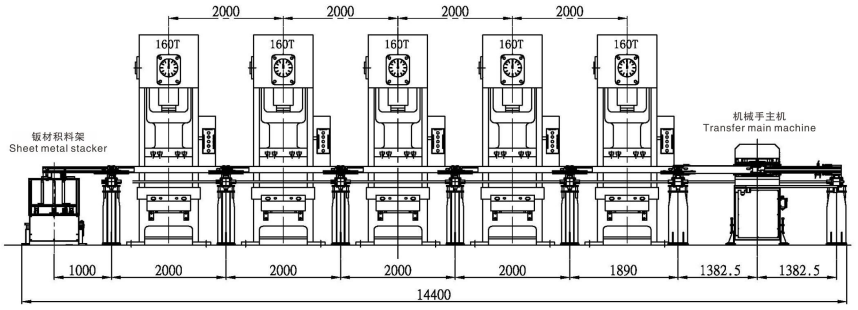




专注于：冲压机械手　机器人　送料线

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

客户方案 Use Case



特性Characteristic

◎主杆只负责升降，手臂和外壳装在主杆上用于横移，结构轻便，运行阻力小，适用于大行程大型连线。

◎横移和升降均采用AC伺服电机传动。

◎进科方式：卷料可搭配空气送料机、NC滚输输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，夹爪适用不同工件。

◎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经由人机介面输入，修改、调整设置方便，维护简单。

◎The main rod is only responsible for lifting the main rod and attach the cover to the main lever for sliding, structural lightweight, small running resistance, applicable to large travel large connection.

◎Traverse and lifting using AC servo motor drive.

◎Feed: roll material with air feeder, 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.

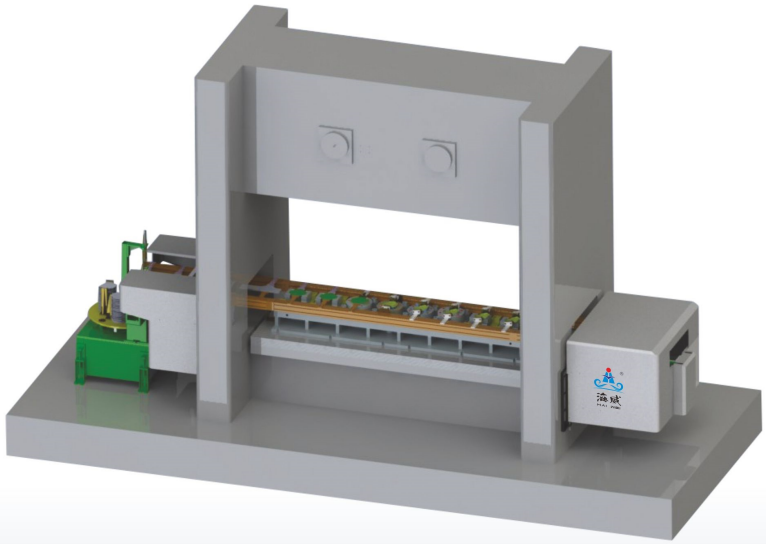
◎PLC and touch the man-machine interface control system can directly view the operational status and exception monitoring, the stamping operation parameters can be entered through the man-machine interface, modify, easy to adjust the settings and simple maintenance.

技术参数Technical parameters

型号	Model	单位/Unit	TJ2-2000	TJ2-2500	TJ2-3000	TJ2-3500	TJ2-4000
移送行程	Feed Stroke	mm	2000	2500	3000	3500	4000
升降行程	Lift Stroke	mm	60	60	60	60	60
传送精度	Feed Accuracy	mm	±0.3	±0.3	±0.4	±0.4	±0.4
单支手臂最大吸料重量	Single support arm, the maximum weight of the suction	kg	3.0	4.0	5.0	6.0	7.0

注：各参数可按客户要求定制
Part accessories and functions can be customized on the basis of the buyer's requirements.

3D/2D TRANSFER SYSTEM
三次元 二次元传送机械手



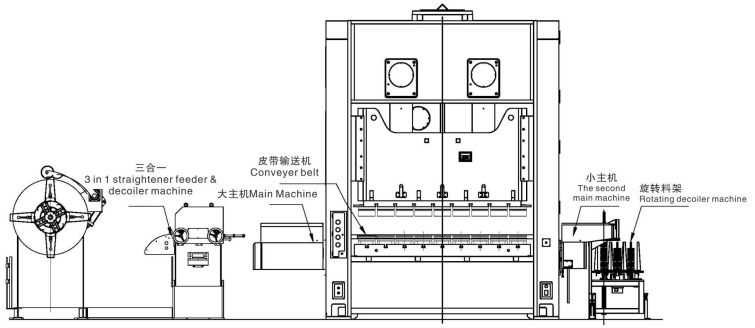




专注于：冲压机械手 机器人 送料线

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.

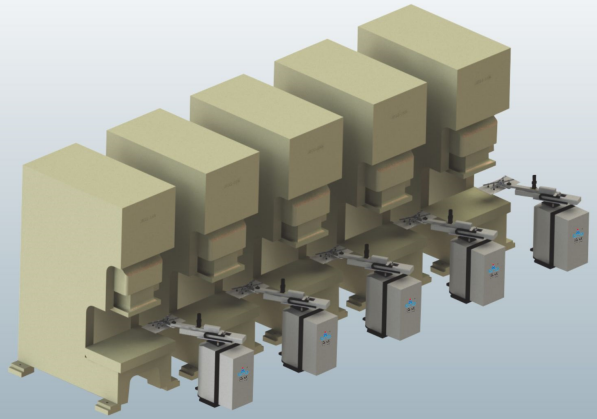
技术参数 Technical parameters

型号	Model	单位/Unit	JTTR-150	JTTR-250	JTTR-350	JTTR-450	JTTR-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
Part accessories and functions can be customized on the basis of the buyer's requirements.

Multi axes robots(3-5 axes)
多轴机器人(3-5轴机器人)

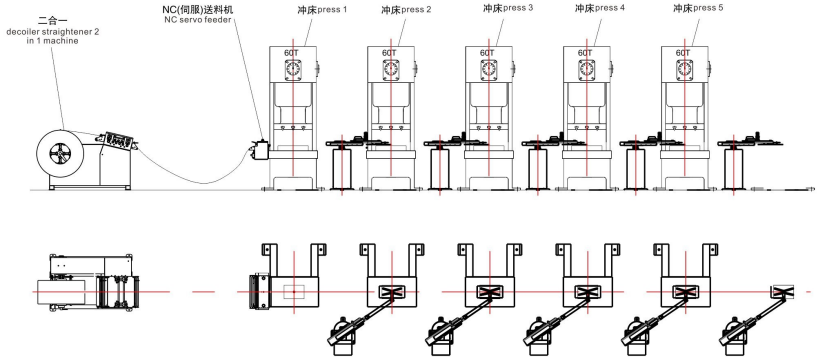




专注于：冲压机械手　机器人　送料线

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 methd: ground
2. Max. loading capacity: 5kg
3. Re-orientation accuracy _+0.2mm
4. Production freqnency: 10-14 times/rain
5. Environment tempreture: 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

Main axis going up and down
1. Serve motor with brake(Z set)
2. Ball screw + liner guide
3. Distance of run: 0-350mm

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. Serve meter(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 ：220°

Transfer arm rotating horizontally J4
1. Servo motor(1 set)
2. High precision planet reducer
3. Rotating range: 220°

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.

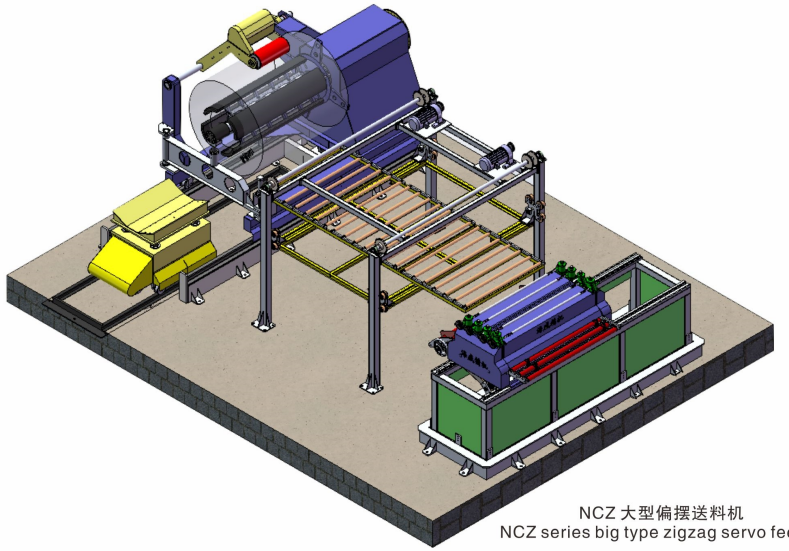
NCZ Servo Zigzag Feeder

NCZ数控偏摆送料机



NCZ 小型偏摆送料机
NCZ series zigzag servo feeder

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



NCZ 大型偏摆送料机
NCZ series big type zigzag servo feeder

产品详情
The detail of zigzag feeder

金属圆片自动移位送料机工作范围：
1、工件的厚度在：0.3–3.2mm/0.5–5.0mm。
2、适合材料有钢、铜、铝、特殊合金和双金属等多种材料。
金属圆片自动移位送料机的特点：
1、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，提供材料利用率。
2、高效率：每分钟最高速度为60次。
3、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：±0.08mm以内。
4、占地空间小，能源消耗低
5、成品工作搬运方便：材料冲压後，自动掉落在成品输送带上，由输送带送到垛料台上。
6、全自动化控制，节省人力资源：该生产线在工作中，只需一位员工操作电控箱控制机柜。在人机面板上输入操作程序，设备将全自动化生产。

Working scope of zigzag feeding metal round plate:
1. The thickness of product: 0.3-3.2mm/0.5-5.0mm.
2. It suits for the material as steel, copper, aluminum, special alloy, thermometal and so on.
The feature of Zigzag feeder:
1. High output: It can finish many times shift. It can save 7% material in every move, basis on the calculation of the 60° corner. It will change the corner distribution according to the width of material that can increase the material utilization.
2. High efficiency: the feeding speed can meet 60times/min.
3. High-precision: In the process of continuous punch, it can set the min. distance between both sides within 0.5mm; the error of every move can make sure within ±0.08mm.
4.Cover the space is little, the energy consumption is low.
5. The product will drop out on the conveyor after the punched, and then will send to the material platform by the conveyor.
6. Complete automation control, can save labor resource: When the production line working, it just need one staff to operate the electric box. Input the operational program on the manual panel, the machines can complete automatic produce.



1.5m左右偏摆生产线示意图
1.5m Zigzag production line schematic plan

机械主要规格
MACHINE MAIN SPECIFICATION

型號 Model	NCZ-200	NCZ-300	NCZ-400	NCZ-500	NCZ-600	NCZ-800	NCZ-1000	NCZ-1300	NCZ-1500
材料寬度 Width of Material(mm)	200	300	400	500	600	800	1000	1300	1500
材料厚度 Thickness of Material(mm)	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
送料輥直徑 Feeding Roller O.D(mm)	66.5	66.5	66.5	66.5	66.5	90	90/120	120	120
送料輥數目 QuantityofFeedingRoller	2	2	2	2	2	2	2	4	4
矯平輥直徑 Feeding Roller O.D.(mm)	/	/	/	/	/	/	/	80	100
矯平輥數目 Quantity of Feeding Roller	/	/	/	/	/	/	/	3	5
最大偏移距離 Max Moving Distance(mm)	200	300	400	500	600	800	1000	1300	1500
壓料方式 Material Press Method	氣缸 Air cylin						蜗輪蜗杆Worm and Gear		

NC Servo Roll Feeder

NC伺服數控送料機

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



NCF3 气动式放松
Pneumatic release



NCF2 气动式放松
Pneumatic release



NCF1 机械式放松
Mechanical release

標準配置：
STANDARD ACCESSORIES

- 高精度的送料：針對高科技產業來臨，以電腦閉路式回授系統控制，使料度確保在：±0.03mm以內。
- 階段式送料機能，可輸入20組不同的送料長度，每組提供999次衝壓次數。滿足特殊制品的加工生產(選配)。
- 個性化的手動模式：可輸入合適的3段手動速度，讓使用者更容易操作，精確地使材料送進模具而定位。
- 高效率的放鬆裝置：配合衝床之凸輪訊號以及簡單之料厚調整，即可快速的設定放鬆角度。
- 送料長度的設定：在控制面板上，直接輸入送料長度，即可達到所需的送距。
- 送料機構：滾輪采用中空式，重量輕，回轉貫性小，表面硬度HRC60° 鍍硬鉻，耐磨損，壽命長。



NCF4 大型数控送料机
NCF4 seires servo feeder for wide material

- High-precision feeding: Aiming at the coming of hi-tech industry, it controlled by computer closed-circuit feedback system, to ensure theaccuracy can meet ±0.03mm.
- Phase-style feeding function: It can input 20 groups of different feeding length, each group provides punching for 999 times to satisfy the processing and production of special products (option).
- Manual model: It can input 3 phases manual speed, which can let used operate more easily and feed materials with higher precision.
- High-efficiency release device: It can set up release angle quickly, only need to match the cam signal on punching machine and to adjust the material thickness simply.
- Feeding length setting: Input the feeding length on the control panel directly.
- Feeding unit: The roller adopts middle-hollow type, being light and with low inertia for electroplate. The surface hardness is HRC 60° and finished chrome plated, can enhance the abrasive resistance and long lifetime.

機械主要規格
MACHINE MAIN SPECIFICATION

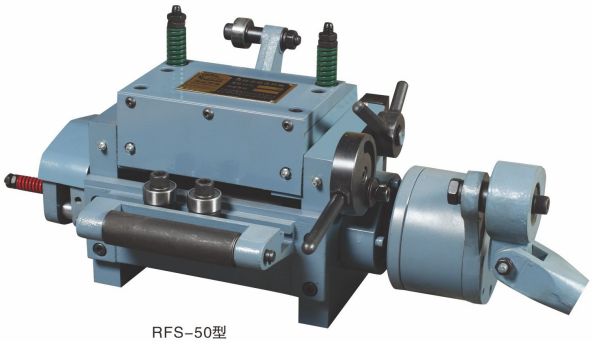
型號 Model		NCF-100 NCF-100A	NCF-200 NCF-200A	NCF-300 NCF-300A	NCF-400 NCF-400A	NCF-500 NCF-500A	NCF-600 NCF-600A	NCF-700 NCF-700A	NCF-800 NCF-800A	NCF-1000 NCF-1000A	NCF-1300 NCF-1300A	NCF-1600 NCF-1600A
材料寬度 Material width (mm)		100	200	300	400	500	600	700	800	1000	1300	1600
材料厚度 Material thickness(mm)		0.2-2.2	0.2-2.2	0.2-2.2	0.2-2.2	0.2-2.2	0.2-2.2	0.2-2.2	0.2-2.2	0.2-2.2	0.2-2.2	0.2-2.2
標準規格 Standard Type		100	200	300	400	500	600	700	800	1000	1300	160
材料最大厚度與寬度 Material Thickness&Width		90	180	280	300	350	400	450	480	550	650	700
		40	80	100	120	150	180	210	240	280	320	360
材料厚度 Material thickness(mm)		0.3-4.5	0.3-4.5	0.3-4.5	0.3-4.5	0.3-4.5	0.3-4.5	0.3-4.5	0.3-4.5	0.3-4.5	0.3-4.5	0.3-4.5
厚度規格 A-Type		100	200	300	400	500	600	700	800	1000	1300	1600
材料最大厚度與寬度 Material Thickness&Width		80	160	240	320	400	460	520	560	580	600	650
		50	120	150	220	250	280	300	320	350	360	380
送料長度 Feeding length(mm)		9999.99	9999.99	9999.99	9999.99	9999.99	9999.99	9999.99	9999.99	9999.99	9999.99	9999.99
送料速度 Feeding speed(m/min)		20	20	20	20	20	20	20	20	20	20	20
電源電壓 Power Supply		220V/單相 380V/415V三相 220V Single phase 380V/415V 3 Phase		380V/415V三相 380V/415V 3 Phase								
送料綫高度 Height of feeding line		70-250	70-250	70-250	70-250	70-250	70-250	90-250	90-250	90-250	90-250	90-250
機械長x寬x高(米)Machine size L*W*H(mm)		560x450x450	560x550x450	560x600x450	560x700x450	560x800x450	760x900x450	760x1040x1180	760x1040x1180	760x1240x1180	760x1340x1180	760x1440x1180
		機械式 Mechanical	機械式/氣動式 Mechanical/Pneumatic			氣動式 Pneumatic						

High Speed Roll Feeder

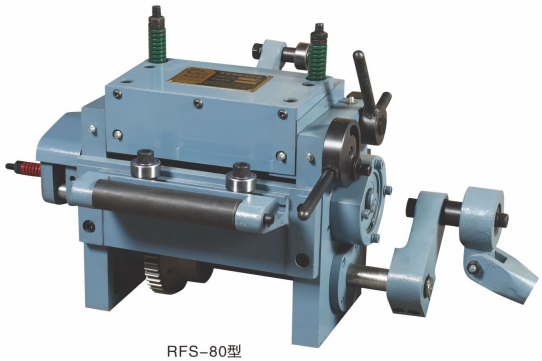
高速滾輪送料機

专注于：冲压机械手　机器人　送料线

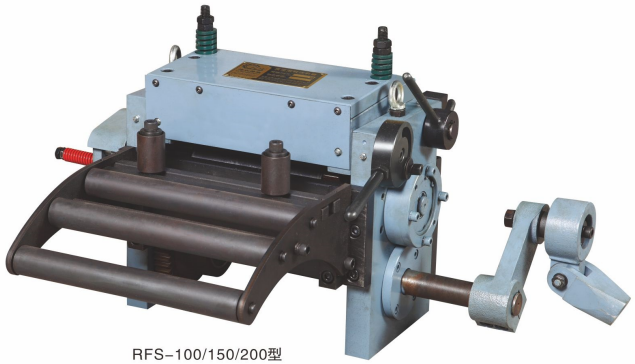
Focus on stamping press transfer, industrial robot, metal coil handling machine



RFS-50型



RFS-80型



RFS-100/150/200型

機器特點：
Feature for roll feeder

滾輪送料僅級點

- 生產性：可多工程連續加工
- 高速性：每分鐘可達600次
- 泛用性：無論材料之寬度與厚度，祇需調整送料機去配合模具即可使用。
- 構造簡單，經濟實用，故障率低，保養容易。

送料精度

- 依回轉數及送料長度而有所不同，一般其精度在0.05mm。若是導梢作定時，更可得±0.01mm的精度。

型式

- 單式：適用于卷料(厚度0.15mm以上)，單制品或連續衝制品時用之。
- 復式：適用于卷料(厚度0.15mm以下)，短尺材料、單制品或連續衝制品時用之。

Advantage:

- High productivity: Continuous process is available
- High speed: It can approach 600 strokes per minute.
- Universality: It can be used for different width and thickness material, only need to adjust the feeder to match with moulds.
- It adopts simple structure, economical, easy maintenance and less trouble.

Precision:

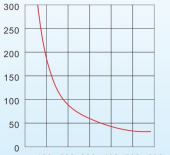
- The accuracy can meet 0.05mm, basis on the different feeding length of stock and strokes. If it has the guide pin for location, the accuracy can be better to ±0.01 mm.

Type:

- Single type: it is suitable for thick material (thickness is above 0.15mm), single process punching or multi-process punching products.
- Multiple-type: it is suitable for the thin material (thickness is lower 0.15mm), single process punching or multi-process punching products, as metal sheet, plates and so on.

生 產 量 曲 綫 圖

PRODUCTION CHARTS



結構四大特點：
Structure Features:

單向軸承

- 嵌有超硬合金，并配合滾柱軸承，具耐磨性、安定性、精度高、壽命長。齒輪經過熱處理HRC60° 再精密研磨、傳動精度高。

滾輪

- 采用中空式、重量輕、回轉貫性小，可即時停止，確保送料精度。
- 經熱處理HRC60° 鍍鉻再研磨，硬度高、耐磨性優、壽命長。

碟式剎車（一般剎車裝置）

- 采用高級離合器來令片兩面完全接觸，壽命長、穩定性佳、精度高。

逆向裝置

1、和單向裝置一樣，能相當精確地控制下輪，對時間使用亦不會使下輪有絲毫的倒退現象，穩定性和精度相當高。
2、不因爲衝壓時所濺出的殘油，而使剎車失靈産生下輪倒轉，送距不準之現象。
3、不易産生高熱。
4、附有超硬合金和滾柱，不易磨損。
5、動作方式與滾珠作圓周運動，而不是4根導柱的直綫運動，因此不會有咬死現象。
6、摩擦力小，所需的傳動扭力相對減少，傳動機結構不易損壞。
7、逆向裝置的配備時速可達30米/分，一般爲20米/分，提高750%的效率。
8、特殊結構，增加了使用壽命。

Unilateral Bearing

- It enchased cemented carbide alloy, and equip with roller bearing, so it have good abrasive resistance, stability, accuracy and long lifetime. After heat treatment, the gear is hardened to HRC 60° . At last, finished precise grounded, it have better driving accuracy.

Roller

- The roller is adopted hollow type that is lighter and low inertia, it can stop immediately, to make sure the feeding precision. After heat treatment HRC60 and chroming, at last finish grounded, it has high hardness, good abrasive resistance,and long lifetime.

Disk Brake

- It applied best brake lining disc, which isbest for stability and precision long lifetime.

The Reverse Device

- The structure is same as unilateral device, can control the down roller accurately. It will not appear setback even for a long time, has best stability and precision.
- The brake will be not out of control because of wasting oil from punching; it also will not reflect the feeding length.
  It will not cause high heat.
- It applied hard alloy and roller to make sure the good abrasive resistance.
- Movement method and ball are making circular motion, but not 4 guides pillar of straight slit movement, so that won't be locked dead
- Small friction force, the transmission twisting force needed is small, driver construction is not easy to be broken.
- The speed of reverse device can reach 30m/min, general is 20m/min, improved 750% efficience
- Special construction,increased working life.

機械主要規格
MACHINE MAIN SPECIFICATION

型式 Model	材料寬度 Material width	送料長度 Feeding Length	材料厚度 Material Thickness	材料綫高度 Height of Production line	衝床噸數 Press Capacity	外形尺寸 Overall Dimensions(mm)								重量 Weight of the machine
	mm	mm	mm	mm	mm	A	B	C	D	E	F	G	H	kg
RFS-105NS	100	50	0-1.6	55-100	5-20	537	247	250	290	200	95	295	120	64
RFS-205NS	200	50	0-1.6	55-100	20	637	347	270	342	220	125	295	120	87
RFS-305NS	300	50	0-1.6	55-100	40	737	447	270	392	220	125	295	120	103
RFS-405NS	400	50	0-1.6	55-100	60	837	547	270	442	220	125	295	120	120
RFS-505NS	500	50	0-1.6	55-100	80	937	647	270	492	220	125	295	120	140
RFS 605NS	600	50	0-1.6	55-100	110	1037	747	270	542	220	125	295	120	161
RFS-705NS	700	50	0 1.6	55 100	110	1137	847	270	592	220	125	295	120	181
RFS-805NS	800	50	0-1.6	55-100	110	1237	947	270	642	220	125	295	120	201
RFS-138NS	130	80	0-1.6	60-120	10-60	535	275	310	276	200	95	295	185	76
RFS-188NS	180	80	0-1.6	60-120	20-60	605	345	310	311	200	380	325	241	84
RFS-1310NS	130	100	0-3.5	70-140	40-60	618	308	410	349	272	380	632	241	142
RFS-1510NS	150	100	0-3.5	76-140	40-60	688	378	410	384	272	380	632	241	155
RFS 2010NS	200	100	0-3.5	70-140	40-80	688	378	410	384	272	380	632	241	155
RFS-3010NS	300	100	0-3.5	70 140	60-160	788	478	410	434	272	380	632	241	180
RFS-4010NS	400	100	0-3.5	70-140	80-260	888	878	410	484	272	380	632	241	200
RFS-5010NS	500	100	0-3.5	70 140	110-260	988	678	410	534	272	380	632	241	220
RFS-6010NS	600	100	0-3.5	70-140	160-260	1099	778	410	584	272	380	632	241	240
RFS-7010NS	700	100	0-3.5	70-140	160-260	1188	878	410	634	272	380	632	241	260
RFS-1315NS	130	156	0-3.5	70-140	40-60	618	308	410	349	272	380	632	241	143
RFS-1515NS	150	150	0-3.5	70-140	40-80	688	378	410	384	272	380	632	241	156
RFS-2015NS	200	150	0-3.5	70-140	40-80	688	378	410	384	272	380	632	241	156
RFS-3015NS	300	150	0-3.5	70-140	60-160	788	478	410	434	272	380	632	241	181
RFS-4015NS	400	150	0-3.5	70-140	80-260	888	578	410	484	272	380	632	241	201
RFS-5015NS	500	150	0-3.5	70-140	410-260	988	678	410	534	272	380	632	241	221
RFS-6015NS	600	150	0-3.5	70-140	160-260	1088	778	410	864	272	380	632	241	241
RFS-7015NS	700	156	0-3.5	70-140	160-260	1188	878	410	634	272	380	632	241	261
RFS-1320NS	130	200	0-3.5	70-140	40-60	618	308	430	349	272	380	632	256	146
RFS-2020NS	200	200	0-3.5	70 140	40-80	688	376	430	364	272	380	632	256	159
RFS-3020NS	300	2OO	0-3.5	70-140	60-160	788	478	430	434	272	380	632	256	184
RFS-4020NS	400	2OO	0-3.5	70-140	80-260	888	578	430	484	272	380	632	256	204
RFS-5020NS	500	200	0-3.5	70-140	110-260	988	678	430	534	272	380	632	256	224
RFS-6020NS	600	200	0-3.5	70 140	160-260	1088	778	430	584	272	380	632	256	244
RFS-7020NS	700	200	0-3.5	70-140	160 260	1188	878	430	634	272	380	632	256	264
RFS-2030NS	200	300	0-3.5	100-190	60-160	720	410	480	488	317	380	677	298	223
RFS-3030NS	300	300	0-3.5	100-190	80-200	820	510	480	535	317	380	677	298	251
RFS-4030NS	400	300	0-3.5	100-190	80-200	920	610	480	585	317	380	677	298	279
RFS-5030NS	500	300	0-3.5	100-190	110-260	1020	710	480	635	317	380	677	298	307
RFS-6030NS	600	300	0-3.5	100-190	110-260	1120	810	480	685	317	380	677	298	335
RFS-7030NS	700	300	0-3.5	100-190	110-260	1220	910	480	735	917	380	677	298	363

Hydraulic Heavy Uncoiler

油壓式重型材料架

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

基本配置：
1.油压扩张（选配）
2.压料臂（选配）
3.托料臂（选配）

Machine configuration:
1. Hydraulic expansion device(optional part)
2. Press arm device(optional part)
3. Material side guide device(optional part)

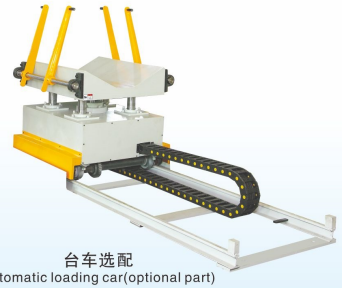


MTC特重型材料架
MTC Heavy decoiler machine

特點（Feature）

1、手動或油壓擴張，節省工時，提高效率。
2、采用變頻調速，碟刹系統，靈敏度高，即時停止、啓動。
3、程序控制料卷速度變化，根據卷料外徑變化自動加減速，使設備得負荷達到最輕。
4、斜鐵支撑擴張，避免故障。
5、采用最新設計，使設備更加合理的使用。使用壽命加長，故障率減低。

1.Manual or hydraulic expansion for your choice, it can save working time, increase efficiency.
2.It equipped with inverter, disc brake system, enhance the sensitivity, stop and restart immediately.
3.The speed of coil control by system, it can adjust the speed according to the outer diameter of the coil material. That can lighten the load of the machine.
4.Tilted iron supports the expansion, to avoid the fault.
5.It adopts the newest design, used more reasonable. Lengthen the lifetime, decrease the fault.



台车选配
Automatic loading car(optional part)

機械主要規格
MACHINE MAIN SPECIFICATION

規格 Model	MTC-800	MTC-1000	MTC-1300	MTC-1600
材料料宽Material width(mm)	800	1000	1300	1600
材料厚度 Material thickness(mm)	0.2-6.0	0.2-6.0	0.2-6.0	0.2-6.0
材料内徑(mm)Coil I.D.	ϕ 450-530	ϕ 500-580	ϕ 530-600	ϕ 530-600
材料外徑(mm) Coil O.D.	ϕ 1200/1500	ϕ 1200/1500	ϕ 1200/1500	ϕ 1200/1500
材料重量 Material Weight(kg)	5000	8000	10000	12000
速度 Speed (m/min)	15			
擴張方式 Expansion Method	油壓 Hydraulic expansion			
機械重量 Machine Weight(kg)	2000	2500	3000	3500
機械尺寸 Machine Size(m)	1.8x1.4x1.4	2.0x1.5x1.6	2.5x1.8x1.8	3.0x2.0x2.0
電源 Power	AC三相 380V AC 380V 3 phase 60HZ			

Heavy Uncoiler

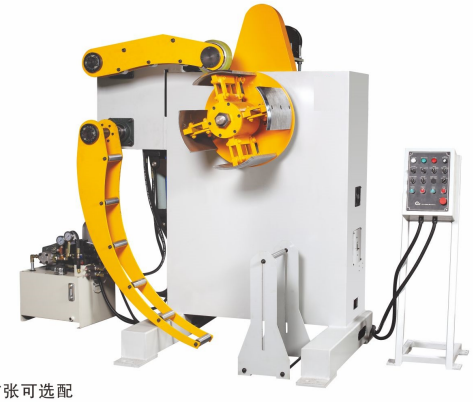
重型材料架

基本配置：
1.油压扩张（选配）
2.压料臂（选配）
3.托料臂（选配）

Machine configuration:
1. Hydraulic expansion device(optional part)
2. Press arm device(optional part)
3. Material side guide device(optional part)



MT重型材料架
MT heavy decoiler



油压扩张可选配
Hydraulic expansion(optional part)

MT特殊型材料架
MT Special heavy decoiJer

特點（Feature）

- 適合各種卷料之收送，薄板金屬及非金屬材料均可。可加裝馬達動力，以配合送料裝置。
- 刹車裝置鬆緊可調整，主軸使用加强型，使材料卷轉
- 動更平順，并增加其負荷力。
- 配合衝床之全自動生產不可缺少部件，節省人力、物
- 力，降低成本，效果特好。
- 采用日本電磁接觸器及電子零件，故障少、壽命長。

- It' s suitable for all kinds of coiling material receiving and feeding, no matter thin or thick, metal or nonmetal sheets.
- Adding motor to match with feeding device is available.
- Brake device is adjustable; the principal axis adopts powerful type.
- It makes the material roll more smoothly, and increase loading capability.
- It' s a necessary device for auto punching machine working. It can save manpower, reduce cost and increase efficiency.
- It adopts Japan magnetic contactor and electronic components, less trouble and long lifetime.

機械主要規格
MACHINE MAIN SPECIFICATION

規格 Model	MT-200	MT-300	MT-400	MT-500	MT-600	MT-700	MT-800
最大宽度 Material width(mm)	200	300	400	500	600	700	800
材料厚度 Material thickness(mm)	0.2~6.0	0.2~6.0	0.2~6.0	0.2~6.0	0.2~6.0	0.2~6.0	0.2~6.0
材料内徑(mm)Coil I.D.	Φ450-530	Φ450-530	Φ450-530	Φ450-530	Φ450-530	Φ450-530	Φ450-530
材料外徑(mm) Coil O.D.	Φ1200	Φ1200	Φ1200	Φ1200	Φ1200	Φ1200	Φ1200
材料重量 Material Weight(kg)	500	1000	2000	2000	3000	3000	3000
送料速度 Feeding Speed (m/min)	15	15	15	15	15	15	15
卷料擴張 Coil Expansion	手動式 MANUAL						
電源 AC Power(AC)	AC三相380V 3 Phase AC 380V 60HZ						

4.5mm 2 in 1 Decoiler Straightener

4.5mm料架兼整平二合一

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

基本配置：
1.油压扩张（选配）
2.压料臂（标配）

Machine configuration:
1. Hydraulic expansion(optional part)
2. Press arm device(optional part)



GL厚板料架+整平
GL series decoier+straightener
machine for thick material

特點（Feature）

- 滾輪整平與送料機置于同一機臺上，可減少送料與整平時誤差達到的高精度需求，安裝時方便且不占空間。
- 滾輪采用實心軸承鋼，經熱處理、鍍硬鉻再研磨，硬度高，耐磨性好，壽命超長。
- 維修保養及管理均簡單化，安全性好，使用成本低。
- 控制箱采用日本電子組件，故障少壽命長。
- 本機可選用變頻調速器使用效果更佳。
- 本機可選用壓料裝置，效果更好。

- Roller leveling machine with feeder places on the same stage can reduce feeding and overall demand for the usual error to the accuracy easy for installation and does not occupy space.
- It use of solid roller bearing steel, heat treatment, hard chrome plating and then grind, good hardness, good abrasive resistance, long lifetime.
- Maintenance and management are simplified, security, and low usage cost.
- Control box electronic components are made in Japan, fewer failures, and long lifetime.
- The machine can work with frequency converter with better results.
- The machine can work with pressing device, has better effect.

機械主要規格
MACHINE MAIN SPECIFICATION

規格 Model	GL-200A	GL-300A	GL-400A	GL-500A	GL-600A
最大寬度 Material width(mm)	200	300	400	500	600
材料厚度 Material thickness(mm)	0.5-4.5	0.5-4.5	0.5-4.5	0.5-4.5	0.5-4.5
減速機 Speed Reducer	1/30	1/30	1/30	1/30	1/30
電源AC Power (AC)	AC三相380V 3Phase AC380V				
送料滾輪 Feeding roller	ϕ 98x2 ϕ 120x2				
矯正滾輪 Leveling Roller	ϕ 60x7				
卷料內徑 (mm)Coil I.D.	ϕ 450-530				
卷料外徑(mm) Coil O.D.	ϕ 1200				
最大料量(mm)Material weight(kg)	1000	1000	2000	2000	3000

3.5mm 2 in 1 Decoiler Straightener

3.5mm料架兼整平二合一

基本配置：
1.油压扩张（选配）
2.压料臂（标配）

Machine configuration:
1. Hydraulic expansion(optional part)
2. Press arm device(optional part)



UL中板料架+整平
UL series decoiler+straightener 2 in 1
machine for middle thickness material



微调装置(标配)
Micro adjusting device

微调特点（Feature）

- 微调可同时上升或下降，保证整平精度。
- This device makes the upper straightening rollers going up and down at the same time, ensuring adjusting precision.

特點（Feature）

- 滾輪整平與送料機置于同一機臺上，可減少送料與整平時誤差達到的高精度需求，安裝時方便且不占空間。
- 滾輪采用實心軸承鋼，經熱處理、鍍硬鉻再研磨，硬度高，耐磨性好，壽命超長。
- 維修保養及管理均簡單化，安全性好，使用成本低。
- 控制箱采用日本電子組件，故障少壽命長。
- 本機可選用變頻調速器使用效果更佳。
- 本機可選用壓料裝置，效果更好。

- Roller leveling machine with feeder places on the same stage can reduce feeding and overall demand for the usual error to the accuracy easy for installation and does not occupy space.
- It use of solid roller bearing steel, heat treatment, hard chrome plating and then grind, good hardness, good abrasive resistance, long lifetime.
- Maintenance and management are simplified, security, and low usage cost.
- Control box electronic components are made in Japan, fewer failures, and long lifetime.
- The machine can work with frequency converter with better results.
- The machine can work with pressing device, has better effect.

機械主要規格
MACHINE MAIN SPECIFICATION

規格 Model	UL-200	UL-300	UL-400	UL-500	UL-600
最大寬度 Material width(mm)	200	300	400	500	600
材料厚度 Material thickness(mm)	0.4-3.5	0.4-3.5	0.4-3.5	0.4-3.5	0.4-3.5
減速比 Reducer Ratio	1/30	1/30	1/30	1/30	1/30
電源AC Power (AC)	AC三相380V 3Phase AC380V				
送料滾輪 Feeding roller	ϕ 65x4				
矯正滾輪 Leveling Roller	ϕ 55x7				
卷料內徑 (mm)Coil I.D.	ϕ 450-530				
卷料外徑(mm) Coil O.D.	ϕ 1200				
最大料量(mm)Material weight(kg)	500	1000	2000	2500	3000

2.2mm 2 In 1 Decoiler Straightener

2.2mm料架兼整平二合一

基本配置：
1.油压扩张（选配）
2.压料臂（选配）
3.料架带动力（选配）
4.变频调速（选配）

Machine configuration:
1. Hydraulic expansion(optiona[part)
2. Press arm device(optional part)
3. Motorized decoiler(optional part)
4. Equipping with inverter(optional part)





ULA中板料架+整平
ULA series decoiler+straightener 2 in 1
machine for middle thickness material

機械主要規格
MACHINE MAIN SPECIFICATION

規格 Model	UL-150A	UL-200A	UL-300A	UL-400A	UL-500A	UL-600A	UL-700A
材料宽度 Material width (mm)	150	200	300	400	500	600	700
材料厚度 Material thickness (mm)	0.3–2.2	0.3–2.2	0.3–2.2	0.3–2.2	0.3–2.2	0.3–2.2	0.3–2.2
※1 材料内径 Material I.D. Φ	450–530	450–530	450–530	450–530	450–530	450–530	450–530
※2 材料外径 Material O.D. Φ	1200	1200	1200	1200	1200	1200	1200
材料重量 Material Weight (kgs)	1000	1000	1000	1000	2000	2000	1000
矫正速度 Speed of Feed (m/min)	15	15	15	15	15	15	15
料卷扩张 Coil Expansion	手动式/油压 Manual/Hydraulic						
机械重量 Machine Weight (kgs)	800	900	1000	1100	1300	1500	1700
机械长x宽x高(米) Machine AxBxC(m)	1.7x1.0x1.4	1.7x1.0x1.4	1.7x1.1x1.4	1.7x1.2x1.4	2.0x1.4x1.6	2.0x1.5x1.6	2.0x1.6x1.6

3.5mm 2 In 1 Decoiler Straightener

3.5mm料架兼整平二合一

基本配置：
1.油压扩张（选配）
2.压料臂（选配）
3.料架带动力（选配）
4.变频调速（选配）

Machine configuration:
1. Hydraulic expansion(optiona[part)
2. Press arm device(optional part)
3. Motorized decoiler(optional part)
4. Equipping with inverter(optional part)



微调装置(选配)
Micro adjusting
device(optional part)



ULB中板料架+整平
ULB series decoiler+straightener 2 in 1
machine for middle thickness material

機械主要規格
MACHINE MAIN SPECIFICATION

規格 Model	UL-150B	UL-200B	UL-300B	UL-400B	UL-500B	UL-600B	UL-700B
材料宽度 Material width (mm)	150	200	300	400	500	600	700
材料厚度 Material thickness (mm)	0.4–3.5	0.4–3.5	0.4–3.5	0.4–3.5	0.4–3.5	0.4–3.5	0.4–3.5
※1 材料内径 Material I.D. Φ	450–530	450–530	450–530	450–530	450–530	450–530	450–530
※2 材料外径 Material O.D. Φ	1200	1200	1200	1200	1200	1200	1200
材料重量 Material Weight (kgs)	1000	1000	1000	1000	2000	2000	1000
矫正速度 Speed of Feed (m/min)	15	15	15	15	15	15	15
料卷扩张 Coil Expansion	手动式/油压 Manual/Hydraulic						
机械重量 Machine Weight (kgs)	900	1000	1100	1200	1400	1600	1800
机械长x宽x高(米) Dimension AxBxC(m)	1.7x1.0x1.4	1.7x1.0x1.4	1.7x1.1x1.4	1.7x1.2x1.4	2.0x1.4x1.6	2.0x1.5x1.6	2.0x1.6x1.6

6.0mm 2 in 1 Decoiler Straightener

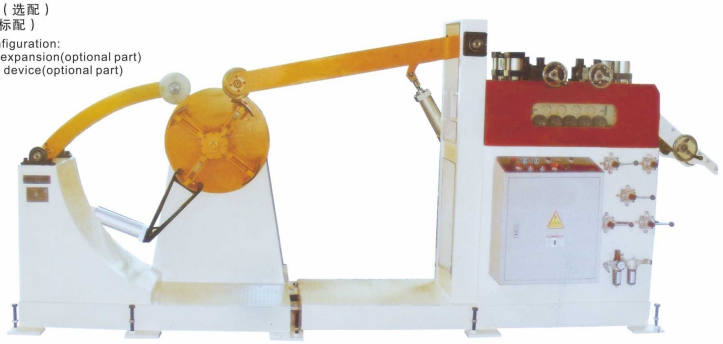
6.0mm料架兼整平二合一

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

基本配置：
1.油压扩张（选配）
2.压料臂（标配）

Machine configuration:
1. Hydraulic expansion(optional part)
2. Press arm device(optional part)



RHW自动矫正机
RHW series 2 in 1 decoiler and straightener machine

標準配置：
STANDARD ACCESSORIES

- 控制箱采用日本電子組件，故障少，壽命長。
- 適合0.5–6.0之廣泛材料，裝料方便，節省時間。
- 本機是依本公司長期經驗開發而成，壽命長，精度高。
- 滾輪采用實心軸承鋼，經熱處理，鍍鉻再研磨，硬度高，耐磨性好，壽命超長。
- 維修保養及管理均簡單化，安全性好，使用成本低。
- 本機附有厚料壓料裝置，效果更好。
- 本機附有變頻器。
- 本機可要據客户特殊要求設計制造。

- The control box equipped with Japan electronic components, so it has less failure and have long lifetime,
- Its special design can suit for different thickness of material; the range is 0.5-6.0 mm. It can save space and easy to operate.
- This type is produced basis on our many experience, has high precision and long lifetime.
- The roller is using the solid bearing steel that had finished heat treatment, and had finished chroming, at last grounded. This craft can enhance the hardness and abrasion resistance.
- It' s easy for maintenance and management, have good safety and low cost.
- It equipped with the device to press material, can help the feeding system working better.
- It equipped with inverter.
- We can customize for different requirement.

矯正能力
straightening performance

矫正厚度(mm) Straightening thickness / 型號Type / 材料厚度(mm) Material thickness	200	300	400	500	600	700	800	1000
1.0					600	700	800	1000
2.0				500	550	600	700	800
3.0			400		500	550	600	700
4.0		300		400	400	400	450	500
4.5	180	200	250	300	300	300	350	400
6.0	150	200	200	200	200	200	200	300

機械主要規格
MACHINE MAIN SPECIFICATION

規格Model	RHW-200B	RHW-300B	RHW-400B	RHW-500B	RHW-600B	RHW-700B	RHW-800B	RHW-1000B
材料寬度 Material width (mm)	200	300	400	500	600	700	800	1000
材料厚度 Material thickness(mm)	1.0-6.0	1.0-6.0	1.0-6.0	1.0-6.0	1.0-6.0	1.0-6.0	1.0-6.0	1.0-6.0
材料內徑 Material I.D.(mm)	Φ450-530	Φ450-530	Φ450-530	Φ450-530	Φ450-530	Φ450-530	Φ450-530	Φ450-530
材料外徑 Material O.D.(mm)	Φ1200	Φ1200	Φ1200	Φ1200	Φ1200	Φ1200	Φ1200	Φ1200
矯正速度 Straightener Speed(m/min)	15	15	15	15	15	15	15	15
擴張方式 Coil Expansion	手動擴張Manual expansion				油壓擴張Hydraulic expansion			
機械長X寬X高 Machine size L*W*H(mm)	3.8x1.5x2.5	3.8x1.6x2.5	3.8x1.7x2.5	3.8x1.8x2.5	3.8x2.0x2.5	3.8x2.2x2.5	3.8x2.4x2.5	3.8x2.6x2.5

Automatic Uncoiling and Straightening Machine

自動送料矯正機



CL自动材料矫正机
CL series uncoiling straightening machine

規格特點（Feature）

- 材料架與矯正機爲一體，不占空間，操作簡單，裝料及卸料方便。可配合變頻器使用。
- 鏈條傳動。
- 滾輪鍍鉻，耐用性强。
- 使用範圍廣。
- 各種金屬薄板卷料整平，適用于各五金廠電子零件廠衝壓件的連續生產。

- Uncoiler and straightener are combined in 1 machine, saving space and easy for operation, convening for loading and unloading.
- Can work with transducer
- Chain transmission roller is coated with chroming, has gooddurability.
- It' s suitable for all kinds of thin coiling metal material,
- It widely use in hardware and electronic components production.

機械主要規格 MACHINE MAIN SPECIFICATION

規格 Model	CL-150A	CL-200A	CL-300A	CL-400A
最大寬度 Material width(mm)	150	200	300	400
材料厚度 Material thickness(mm)	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5
減速比 Reducer Ratio	1/30	1/30	1/30	1/30
電源AC Power (AC)	AC三相380V 3Phase AC380V			
送料滾輪 Feeding roller	ϕ 70x2 ϕ 98x2			
矯正滾輪 Leveling Roller	ϕ 60x7			
卷料外徑(mm) Coil O.D.	ϕ 1000			
最大料量(mm)Material weight(kg)	600			
機械重量(kg) Machine weight(kg)	460	510	560	600

0.1-0.6mm Precision Straightening Machine

0.1–0.6mm精密材料整平机

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



DSL双段式
DSL series double section model



JM3单段式
JM3 series single section model

特殊結構
Special Precision Straightening Machine

- 兩段式矯平，卷料矯平過程中（頭端一尾端）中途不須再作矯平之調整，可確保一致相同之平坦度。
- 卷料未經矯平消除應力是無法生產出良好的產品。唯有將卷科矯平，消除應力才能達成。
- 經過本機矯平后，可將材料修正成向上向下彎曲或平坦。
- 滾輪兩側軸端之培林卷用免油式無須潤滑之設計，耐磨且不會有油漬或膩污附着之困擾。
- 傳動裝置由變頻器（循環控制），可與衝床速度同步，平穩的送料。

- It adopts 2 sects leveling, on the leveling process, the roll material only be leveled the start sect and the end sect, the middle sect don' t need to be leveled, it can make the whole material keeping in a same surface.
- It' s hard to finish the good electric product if the material does not clear up the inner stress. The only way to make the better electric product is using the straightener to remove the inner stress.
- After straightening, materials can be corrected upward or downward of the flat.
- The Perlin roll in both sides of the roll adopted the design of oil type that is no need to lubricate that can get rid of the trouble of oil and the dirty.
- The driving unit is controller by inverters (cycle control), can feed smoothly at a speed synchronize with the press.

機械主要規格
MACHINE MAIN SPECIFICATION

雙段式（Double-Section Model）

規格 Model	DSL-100	DSL-150	DSL-200	DSL-300
最大料寬 width max(mm)	100	150	200	300
材料厚度 Thickness(mm)	0.1-0.6	0.1-0.6	0.1-0.6	0.1-0.6
滾輪排列 Permutation for Roller	φ20 7/4 +7/4上up/下down			
調整方式 Adjust Method	四點獨立式 four point adjustment separately			
整平速度 Feed Speed	0-16M/min	0-16M/min	0-16M/min	0-16M/min
送料方向 Direction	左→右 left to right			
使用電壓 Power Supply	AC:220V AC:415V AC:380V AC:440V			

單段式（Single-Section Model）

規格 Model	JM3-100	JM3-150	JM3-200	JM3-300
材料寬度 Material width(mm)	100	150	200	300
材料厚度 Material thickness	0.1-0.6	0.1-0.6	0.1-0.6	0.1-0.6
矯正速度 Speed of Feed	15	15	15	15
矯正滾輪直徑x滾輪數量 Straingtening Roll dia. and no.	φ20x9/10 (上下)	φ20x9/10 (上下)	φ20x9/10 (上下)	φ20x9/10 (上下)
機械重量 Machine Weithg(kg)	200	250	300	350
機械長x寬x高（米） Dimension AXBXC(m)	0.9x0.3x1.2	0.9x0.3x1.2	0.9x0.4x1.2	0.9x0.5x1.2

Precision Straightening Machine

精密材料整平機



BCL
整平厚度Material thickness range：0.3–1.5mm



TLA
整平厚度Material thickness range：0.4–3.5mm

機械主要規格
MACHINE MAIN SPECIFICATION

單段式（Single-Section Model）

規格 Model	BCL-100	BCL-150	BCL-200	BCL-300
材料寬度 Material width(mm)	100	150	200	300
材料厚度 Material thickness	0.3-1.5	0.3-1.5	0.3-1.5	0.3-1.5
矯正速度 Speed of Feed	15	15	15	15
矯正滾輪直徑x滾輪數量 Straingtening Roll dia. and no.	Φ30x19(上下)	Φ30x19(上下)	Φ30x19(上下)	Φ30x19(上下)
機械重量 Machine Weithg(kg)	200	250	300	350
機械長x寬x高（米） Dimension AXBXC(m)	0.9x0.3x1.2	0.9x0.3x1.2	0.9x0.4x1.2	0.9x0.5x1.2

機械主要規格
MACHINE MAIN SPECIFICATION

規格 Model	TLA-200	TLA-300	TLA-400	TLA-500	TLA-600
最大寬度 Material width(mm)	200	300	400	500	600
材料厚度 Material thickness(mm)	0.4-3.5	0.4-3.5	0.4-3.5	0.4-3.5	0.4-3.5
減速比 Reducer Ratio	1/30	1/30	1/30	1/30	1/30
電源 AC Power (AC)	AC三相380V 3Phase AC380V				
送料滾輪 Feeding roller	φ65x4				
矯正滾輪 Leveling Roller	φ55x7				

Straightener

半截整平機

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



SHL整平厚度：0.5–4.5mm
SHL series straightener mahcine suitable for:
0.5–4.5mm thickness metal coil



GLL整平厚度：1.0–6.0mm
GLL series straightener machine suitable for:
1.0–6.0mm thickness metal coil

機械主要規格
MACHINE MAIN SPECIFICATION

材料矯正機 (Material Straightener)

型式 Model	SHL-200	SHL-300	SHL-400	SHL-500	SHL-600
最大宽度mm Max width	200	300	400	500	600
材料厚度mm Max Thickness	0.5-4.5	0.5-4.5	0.5-4.5	0.5–4.5	0.5–4.5
減速機 Reducer Ratio	1/30	1/30	1/30	1/30	1/30
送料滚輪 Feeding Roller	Φ80x4	Φ80x4	Φ80x4	Φ80x4	Φ80x4
矯正滚輪 Straightening Roller	Φ72x7	Φ72x7	Φ72x7	Φ72x7	Φ72x7

厚板矯正機 (Thick Metal Sheet Straightener Machine)

型式 Model	GLL-200A	GLL-300A	GLL-400A	GLL-500A	GLL-600A	GLL-800A
材料宽度mm Max width	200	300	400	500	600	800
材料厚度 mm Max Thickness	1.0-6.0	1.0-6.0	1.0-6.0	1.0-6.0	1.0-6.0	1.0-6.0
矯正速度 m/min Straightening Speed	15	15	15	15	15	15
機械長x宽x高 m Machine Size (L*W*H)	1.5x0.8x1.2	1.5x0.9x1.2	1.5x1.0x1.6	1.5x1.1x1.6	1.5x1.2x1.6	1.5x1.4x1.6

有特殊型號或更大型號來電訂做。
Can be customized.

Italy designed decoiler machine

意大利原装设计料架





機械主要規格
MACHINE MAIN SPECIFICATION

外形尺寸 Overall dimensions	1200(L)x800(W)x1500(H)
機器重量 Weight	240kg
承重 Capacity	400kg
最大料宽 Max. band width	300mm
最大外徑 Max. outside diameter of the coil	1000mm
内径 Adjustable inside diameter of the self–centering mandrel	240~640mm
功率 Motor	0.75KW 380V/400V 50HZ
蜗轮蜗杆带离合传动 Adjustable clutch steel/bronze into the head	
电动气轴扩缩 Motorized expansion/closing of the mandrel	
机械感应 Mechanic arm sensor for the start–stop of decoiling	