fanty

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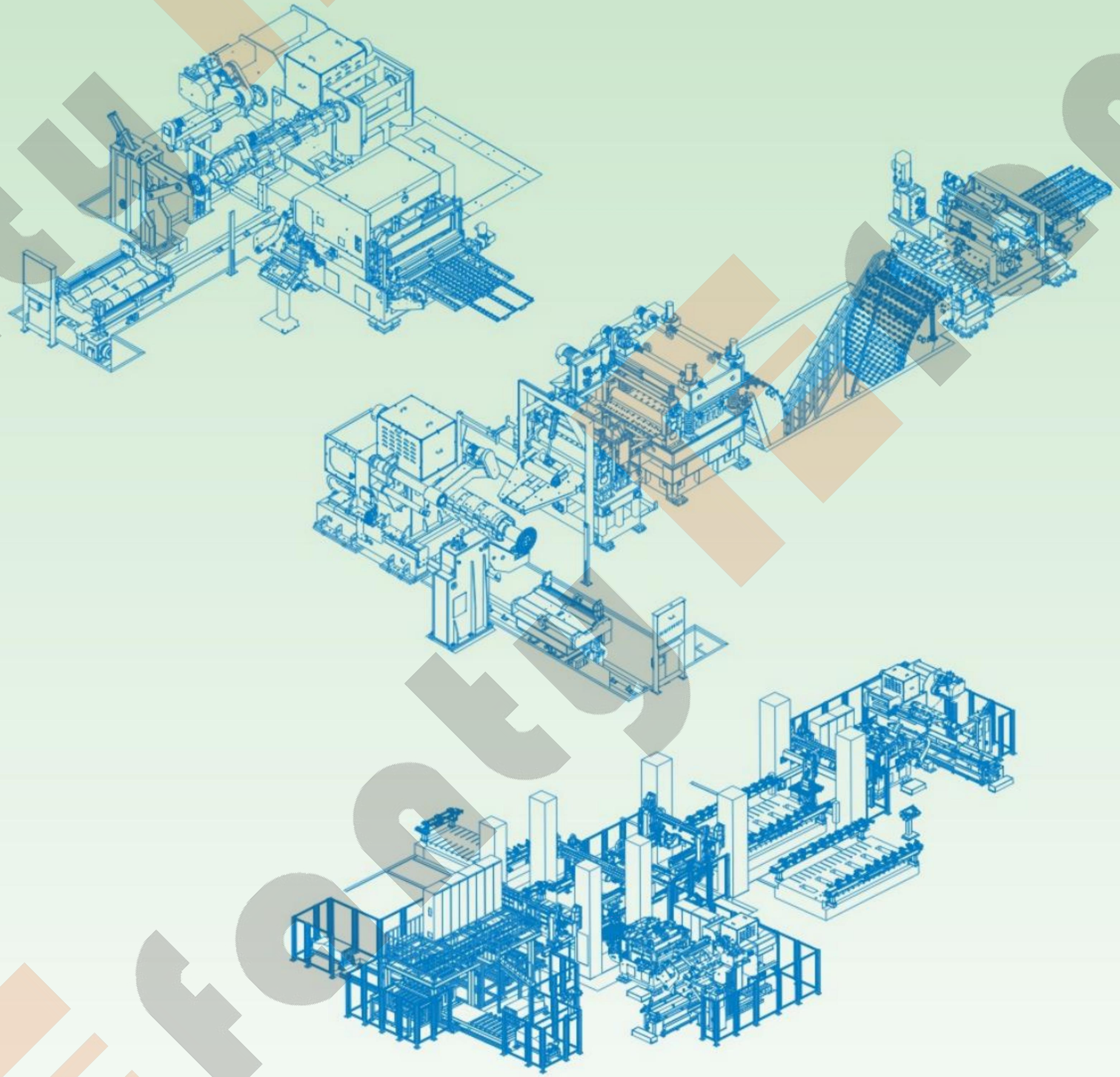
卷料加工生产线

# COIL HANDLING SYSTEMS



遇见凡特

遇见一个冲压自动化世界

# FEEDER 送料机

## NCF

NC 滚轮送料机

NC FEEDER

通过CCS（电脑控制伺服系统），高精度的实现了以往不可能的多种数值控制。可以简单地进行快速、准确的操作。

Previously unattainable high-precision numerical control is made possible by CCS (computer controlled servo), for fast and accurate performance.




■ 规格: Specification

| 型号 Model | 板幅 (mm) Stock widthl | 板厚 (mm) Stock Thickness | 板厚×板幅 (mm) Stock Thickness×Stock widthl | 送料线高度 (mm) Pass Line | 释放随动次数 (SPM) Releasing Performance | 伺服马达 (kw) Motor |
|---|---|---|---|---|---|---|
| NCF-100 | 20~100 | 0.1~3.2 | 3.0×100 / 3.2×80 | 70~170 | ~200 | AC 0.4 |
| NCF-200 | 20~200 | 0.1~3.2 | 2.3×200 / 3.2×80 | 70~170 | ~200 | AC 0.4 |
| NCF-300 | 20~300 | 0.1~3.2 | 2.0×300 / 3.2×80 | 70~170 | ~200 | AC 0.75 |
| NCF-200HA | 20~200 | 0.3~3.2 | 2.3×200 / 3.2×80 | 70~170 | ~80 | AC 0.4 |
| NCF-300HA | 20~300 | 0.3~3.2 | 2.0×300 / 3.2×80 | 70~170 | ~80 | AC 0.75 |
| NCF-400HA | 20~400 | 0.3~3.2 | 1.6×400 / 3.2×50 | 70~170 | ~80 | AC 0.75 |
| NCF-600HA | 20~600 | 0.3~3.2 | 1.2×600 / 3.2×50 | 70~170 | ~60 | AC 1.3 |
| NCF-800HA | 20~800 | 0.3~3.2 | 1.0×800 / 3.2×50 | 70~170 | ~60 | AC 2.9 |
| NCF-200F | 20~200 | 0.2~3.2 | 2.3×200 / 3.2×100 | 70~170 | ~200 | AC 0.4 |
| NCF-300F | 20~300 | 0.2~3.2 | 2.3×300 / 3.2×80 | 70~170 | ~200 | AC 0.4 |
| NCF-400F | 20~400 | 0.2~3.2 | 1.6×400 / 3.2×60 | 70~170 | ~150 | AC 0.75 |

※规格及外观由于改进有可能在未通知时变化
※Specifications are subject to change for improvement without notice



# STRAIGHTENER 整平机

## RLF Series

精密整平机

COMPACT STRAIGHTENER

支持最大材料宽为~300mm，板厚0.1~1.4mm的薄板精密整平机，出色的矫正能力最适合各种精密零件的加工。

The RLF series offers a precision straightener that can process material width up to 300mm, and can be adjusted to handle stock thicknesses between 0.1 and 1.4mm. This is the optimum model for processing all kinds of precision components which require outstanding straightening performance.


■ 规格: Specification

| 型号 Model | 板幅(mm) Stock widthl | 板厚(mm) Stock Thickness | 工作滚轮直径 Work Roller diameter | 工作滚轮支数 Number of Work Rolls | 辅助滚轮 Back Up Roll | 矫正速度 Speed Range (m/min) | 马达容量 Motor (kw) |
|---|---|---|---|---|---|---|---|
| RLF-200 | 20~200 | 0.1~1.4 | Φ12 | 上Upper11/下Lower11 | 14Hi | 5~30 | 1.5 |
| RLF-300 | 20~300 | 0.1~1.4 | Φ12 | 上Upper11/下Lower11 | 14Hi | 5~30 | 1.5 |

■ 矫正能力 Straightening performance

| 板厚 (mm) stock Thickness | 0.1~0.4 | 0.5 | 0.6 | 0.8 | 1 | 1.2 | 1.4 |
|---|---|---|---|---|---|---|---|
| 板幅 (mm) stock width | 200 | 200 | 200 | 145 | 109 | 85 | 70 |
| | 300 | 262 | 210 | 146 | 108 | 84 | 68 |


给油装置 Oiling device

### 电动泵强制给油至工作滚轮

该装置减轻了维修保养的工作量，支持机械最佳运转。剩余油量可目视确认，并且容易补给。

### An electromotive pump forces oil to the work rolls

This oiling device eliminates the need for troublesome maintenance work and supports the optimal operation of the remaining quantity of oil can be checked at a glance,and oil can easily be added.

矫正量调整 Controlling the amount of flatness-adjustment

### 多个调节手柄使矫正量的调整变得很容易

通过调节手柄，在机器的入口侧、出口侧、正面、背面均可以对矫正量进行调整，非常顺利。

### The amount of flatness-adjustment can be easily controlled throught the operation of handles

The amount of flatness-adjustment can be controlled not only at the inlet and outlet sides.but also at the back and front sides simply through the operation of handles.

工作滚轮 Work rolls

### 22 根业界最小直径的工作滚轴，确保加工精度

业界最小直径12mm的工作滚轮，去除卷材的弯曲应力。可以矫正最大宽度300mm的薄板材料，满足了日益增长的高精度部件的加工需求。

### Precision machining using 22 work rolls with the thinnest diameter

22 work rolls with the thinnest diameter [ϕ12mm] on the market remove residual stress.Wide sheet metals of up to 300mm in width can be handled,which satisfies the increasingdemand for precision components machining.

移动装置 Caster base

### 作为标准装备的闭锁脚轮，方便移动、固定

带闭锁脚轮的移动装置，使设备能够灵活放置，方便布局。

### A caster base with locking casters for easy movement and fixing is included as standard equipment.

The caster base enables flexible setting of the leveler

驱动装置 Drive unit

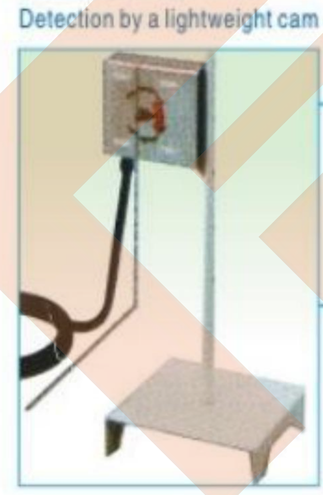
### 兼具高规格组件的驱动装置

驱动装置采用了传动功率高的油浴式齿轮箱和万向接头，保证了设备机型小但规格高。变频控制使无级变速成为可能。

### Drive unit with specifications of a higher-grade unit

The drive unit is compact but has the highest-level specifications such as superior electromotive efficiency, oil-bath type gearbox, and a universal joint. The inverter in the drive unit enables flexible speed change.

轻量凸轮检测
Detection by a lightweight cam



### 保持料环，支持设备最佳运转

变频器运转总是与生产线速度保持高度一致。平稳的加减速减轻了材料及送料机等设备的负荷。正、逆运转可经由开关轻易转换。

### The cam maintains the appropriate tension of the material and supports optimal operation

The leveler ensures that the inverter always operates optimally in accordance with the line speed. Smooth acceleration and deceleration reduces loads imposed on materiales and equipment such as the feeder. Forward and backward operations can easily be changed simply by flicking a switch.

### 独创的天线式检测杆

可检测操作力10g的超轻量导体，半导体薄板金属材料。此外，独特的弯曲形状可以防止材料表面受其接触而擦伤。

### Inventive antenna type detection bar

The ultra lightweight detection bar can be operated with only 10g of operation force and can detect both conductive and non-conductive thin sheet metal. Furthermore, a unique curved shape prevents scratches on the material surface for worriless operation.

# STRAIGHTENER 精密矫直机系列

## RLV-F Series

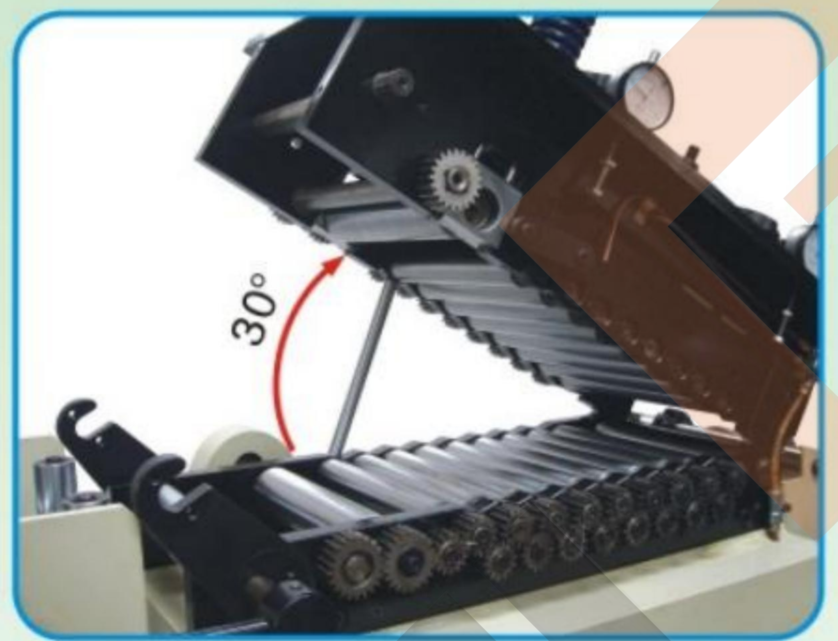
精密矫直机系列

COMPACT STRAIGHTENER

适合0.1~1.5mm的薄板矫直，上下滚轮全同步驱动，可变频调速，上工作辊可以掀开清洗。针对薄板精密矫直具有非常有利的条件。

The sheet for 0.1~1.5mm straight, upper and lower roller synchronous drive, variable frequency speed, on the work roll can be opened for cleaning. The sheet straightening has very favorable conditions.

最大掀开角度




可掀开式设计


### 17根小直径工作滚轮

17根小直径工作滚轮消除卷材的弯曲应力，确保精密加工所需的高平担度

### 辅助滚轮

对应材料宽度300mm以上之系列产品，额外配备了辅助滚轮，用以抑制工作滚轮的弯曲，强化了矫平的精密性。

### 17 Smaller Diameter Work Rolls

17 smaller diameter work rolls remove the coil set from the material and ensure the high level of material flatness that precision processing demands.

### Back Up Rolls

The RKL-300 and RKL-500, which handle up to 300mm and 500mm widt have additional back up rolls,These rolls will reduce the deflection of work roll making strainghtening performance more precise.

### 规格: Specification

| 型式 | Model | RLV-150F | RLV-200F | RLV-300F | RLV-400F | RLV-500F | RLV-600F |
|---|---|---|---|---|---|---|---|
| 材料最大宽度 | Max Material Width (mm) | 150 | 200 | 300 | 400 | 500 | 600 |
| 材料厚度 | Material Thickness (mm) | 0.1~1.5 | 0.1~1.5 | 0.1~1.5 | 0.1~1.5 | 0.1~1.3 | 0.1~1.2 |
| 送料速度 | Speed (M/Min) | 6~22 | | | | | |
| 马达 | motor (HP) | 1 | 1 | 1 | 2 | 3 | 3 |
| 变频器 | Inverter | 有Provided | | | | | |
| 矫直滚轮 | Work Rolls | 上/Upper8 下/Lower9 全驱动 All Drive Function | | | | | |
| 导料滚轮 | Pinch Rolls | 上1/Upper1 下1/Lower1 全驱动All Drive Function | | | | | |
| 背压滚轮 | Back up rolls | 无N/A | | | 有Porovided | | |
| 调整装置 | Adjustment | 四点式分厘表微调 4 Points Fine Micro Adjustment | | | | | |
| 感应方式 | Loop Control | 感应台式 Touch Sensor | | | | | |
| 开口装置 | Work Roll Opening | 手动操作 Manual Operation | | | | | |
| 驱动方式 | Drive Method | 侧齿轮方式全滚轮驱动 All Rolls are Driven with Side Gear | | | | | |
| 供应电源 | Power Supply | 三相 3Phase 220V/380V/50HZ | | | | | |

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# STRAIGHTENER 整平机

## RKL Series

精密整平机

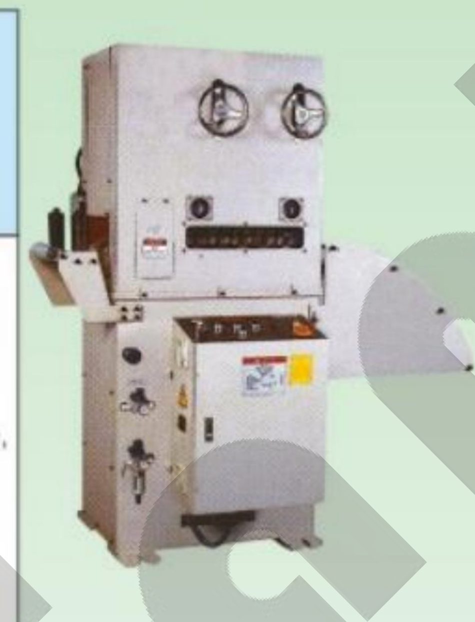
PRECISION STRAIGHTENER

用19支加工滚轮去除材料的残留应力。高水平地实现产品的平坦度，充分满足精密加工中的精度要求。

19smaller diameter work rolls remove the coil set from the material and ensure the high level of material flatness that precision processing demands.

### 规格: Specification

| 型号 Model | 板幅 (mm) Stock widthl | 板厚 (mm) Stock Thickness | 驱动方式 Drive Method | 驱动马达 Motor | 矫正速度 (m/min) Line Speed | 工作滚轮数 (支) Number of Work Rolls | 辅助滚轮 Back Up Roll | 开口装置 Work Roll Opening | 标准配置 Standard Attachment |
|---|---|---|---|---|---|---|---|---|---|
| RKL-300 | ~300 | 0.2~1.6 | 侧齿轮方式全滚轮驱动 All Rolls are Driven with Side Gear | 3.7KW 齿轮传动马达 变频器控制 3.7KW Geared Motor, INVERTER Controlled | 6~24 | 上Upper9 / 下Lower10 | O | 90mm 手动操作 90mm Manual Operation | 扳手式1列入口宽度导块, 材料末端检测, 料环检测(光电式) Entry stock side guide, Catenary roll guide, End of stock sensor, No-loop detector (photo electric type). |
| RKL-500 | ~500 | | | | | | | | |



### 矫正能力 Straightening performance

| 型号 Model | 板幅 (mm) stock Width | | |
|---|---|---|---|
| | 0.2~1.2 | 1.4 | 1.6 |
| RKL-300 | 300 | | |
| RKL-500 | 500 | | 462 |

※上表中的降服点应力为245N/mm²(拉伸强度为392N/mm²).
※The above flgures are the material having yield strength of 245N/mm² (tensile strength of 392N/mm²).

### 19根小直径工作滚轮

19根小直径工作滚轮消除卷材的弯曲应力，确保精密加工所需的高平担度

### 辅助滚轮

对应材料宽度300mm、500mm之RKL-300、RKL-500系列产品，额外配备了辅助滚轮，用以抑制工作滚轮的弯曲，强化了矫平的精密性。

### 升降式上工作滚轮开口结构

采用了倍受好评的LCC SA 系列 NC 整平送料机之升降式开口结构，容许上滚轮装置大角度打开，清洁和保养工作变得非常容易。

### 19 Smaller Diameter Work Rolls

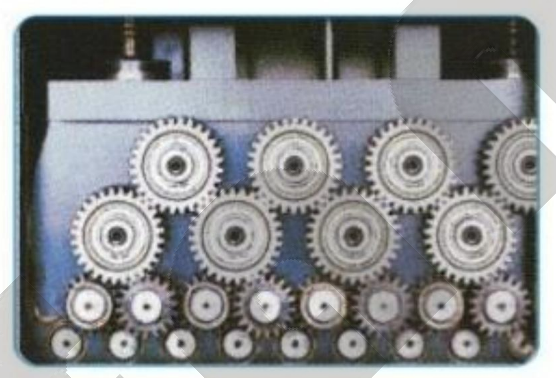
19 smaller diameter work rolls remove the coil set from the material and ensure the high level of material flatness that precision processing demands.

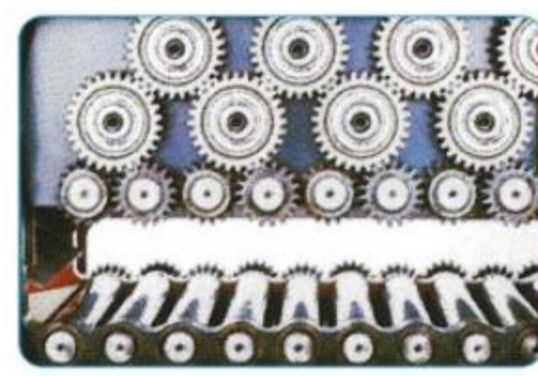
### Back Up Rolls

The RKL-300 and RKL-500, which handle up to 300mm and 500mm widt have additional back up rolls,These rolls will reduce the deflection of work roll making strainghtening performance more precise.

### Lifters for Opening the Upper Work Roll Units

The RKL Series has adopted the lifters of our popular LCC SA model NC Straightener Feeder, allowing the upper work roll units to be opened widely for easy cleaning and maintenance.





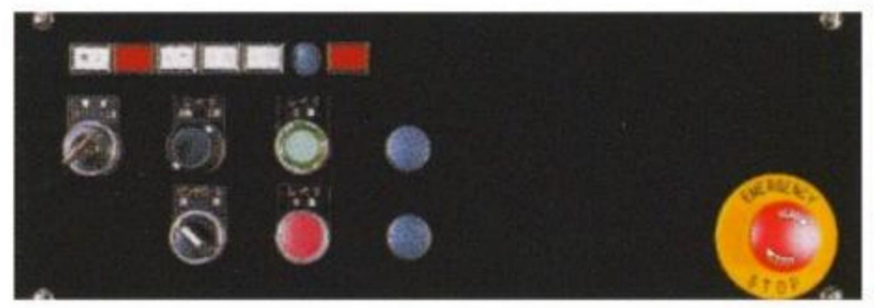
90mm大开口量
90mm wide opening gaps

### 直接驱动的变频控制齿轮马达

采用了3.7kw 变频控制齿轮马达，更容易变更矫正速度以配合生产线速度。并且无链条、直接驱动之高精密齿轮的采用，使工作滚轮动态达到极限依然平稳运转。为用户生产高精度产品扣供保障。

### Geared Motor with Inverter Control

Adopting the 3.7kw geared motor with Inferter control allows the feed speed to change easily, in addition, a direct drive mechanism without a chain and precision gear has been adopted. These features create maximum smoothness of the work oll movement producing a precise end product.



操作面板
OPERATION PANEL

## UNCOILER 开卷机

# MT / ME

开卷机

UNCOILER

心轴扩缩方式分别有手动式和气动式，可根据卷材的宽度及重量选择所需机型。

Manual or pneumatic models can be selected for inner diameter adjustment, There is wide selection to choose from depending on width and weight of coil.

### 规格: Specification

| 型号 Model | 板幅 (mm) Stock widthl | 卷料重量 (KG) Coil Weight | 马达 (kw) Motor | 压料臂 Pressing Arm | 卷筒扩缩方式 Coiling block expansion mode | 卷材内径 (mm) Material ID | 卷材外径 (mm) Material OD |
|---|---|---|---|---|---|---|---|
| MT-300 | 20～300 | 800 | 0.75 | / | 手动式 Manual | Φ508 | Φ930 |
| MT-400 | 20～400 | 1000 | 0.75 | / | 手动式 Manual | Φ508 | Φ930 |
| MT-500 | 20～500 | 1500 | 1.5 | / | 手动式Manual | Φ508 | Φ930 |
| MT-600 | 50～600 | 2000 | 1.5 | / | 液压式 Hydraulic | Φ508 | Φ1200 |
| MT-800 | 50～800 | 3000 | 2.2 | / | 液压式Hydraulic | Φ508 | Φ1200 |
| ME-300 | 70～300 | 800 | 0.75 | 气动 Pneumatic | 手动式 Manual | Φ508 | Φ930 |
| ME-400 | 70～400 | 1000 | 0.75 | 气动 Pneumatic | 手动/液压式 Manual / Hydraulic | Φ508 | Φ930 |
| ME-500 | 70～500 | 1500 | 1.5 | 气动 Pneumatic | 液压式 Hydraulic | Φ508 | Φ1200 |
| ME-600 | 100～600 | 3000 | 1.5 | 气动 Pneumatic | 液压式 Hydraulic | Φ508 | Φ1200 |
| ME-800 | 100～800 | 5000 | 2.2 | 气动 Pneumatic | 液压式 Hydraulic | Φ508 | Φ1200 |

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## FEEDER 高速送料线

# GCF / SFS / MDW

高速送料线

S ROLL FEEDER

主要用于马达转、定子的冲压叠片。利用回转凸轮机构实现间歇性送料，依靠稳定的齿轮传动机构来保证送料精准度和稳定性，最高冲压速度可达400次/分钟以上。

Mainly used for motor rotor and stator stamping lamination.Intermittent feeding with rotary cam mechanism.Rely on the stability of the gear transmission mechanism to ensure the accuracy and stability of fed,the highest punching speed could reach 400times/min.

### GCF 高速齿轮更换式送料机 High speed gear change type feeder

#### 规格: Specification

| 型式 Model | GCF-200 | GCF-300 |
|---|---|---|
| 板幅 Stock widthl (mm) | 200 | 300 |
| 板厚 Stock Thickness (mm) | 0.35-1.6 | 0.35-1.6 |
| 分割数 Indexing-cam number | 4 | 3 |
| 送料长度 Length of angle (mm) | 11.5～240 (其他为特定品) | |
| 送料角度 Pilt release angle | 180° | |
| 放松角度 Feed angle | 135° ～195° | |
| 送料方向 Feed direction | 左～右 L-R | |

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### SFS S 型高速精密矫正机 “S” type high-speed material straightener

#### 规格: Specification

| 型式 Model | SFS-200 | SFS-300 |
|---|---|---|
| 板幅 Stock widthl (mm) | 200 | 300 |
| 板厚 Stock Thickness (mm) | 0.35-1.6 | |
| 最大送料速度 Max. Material Speed (m/min) | 40 | |
| 矫正滚轮 Straighten Rollers | 上9/下10 (upside9/downside10) | |
| 电源 Power | 三相 3Phase 220V/380V/50HZ | |

### MDW 双头材料架 MDW Double end material rack

#### 规格: Specification

| 型式 Model | MDW-200 | MDW-300 |
|---|---|---|
| 板幅 Stock widthl (mm) | 200 | 300 |
| 板厚 Stock Thickness (mm) | 0-1.6 | 0-1.6 |
| 扩张范围 Extent Expansion(mm) | Φ460-530 | |
| 材料外径 Material O.D (mm) | Φ1200 | |
| 最大料重 Max. Load (kg) | 1000×2 | 2000×2 |

※特殊规格依客户需求洽商订制
※Any specification available.
Custom-made orders welcome

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### 其他为特定品

1. 齿轮送料机即凸轮送料机，主要配合双头材料架及S型整平机使用，适用于要求高速加工且需要高精度送料的冲制品。
2. 不需要调整送料步距。送距仅靠齿轮变换即可，送距的变更是由1-4个齿轮的变换而成；
3. 利用精密凸轮驱动的间歇送料方式；
4. 仅下部滚轮驱动而上部滚轮则由弹簧压着；
5. 插入材料时，上下滚轮的放松则由空气阀的手动开关操作即可；
6. 上下滚轮皆有镀硬铬处理，硬度达到HRC60以上；
7. 放松装置为偏心凸轮，故放松角度可由0° ～ 180° 之范围内随意调整；
8. 可依据冲床处理轴不同旋转方向进行特殊订货；
9. 采用箱体式结构，结构紧凑，不易变形。

### Others can be customize

1. Gear feeding machine is Cam feeding machine, mainly use with double material rack and S type leveling machine,applicable to the punching products which requests with high speed processing and high precision.
2. No need to adjust the feeding step distance. The distance can be changed by 1-4 gears.
3. Intermittent feeding mode driven by precision cam
4. Bottom roller driven only and the top roller pressed by springs.
5. When material inserted ,top and bottom rollers will be released by control the manual switch of the air valve.
6. All the rollers are coated with hard chrome plating,hardness over HRC60.
7. Releasing device is an eccentric cam,the releasing angle can be adjusted from 0° to 180°
8. Can be customize according to the different rotation direction of the shaft of the press.
9. Box type with compact structure ,not easy to cause deformation.

## UNCOILER WITH STRAIGHTENER 开卷矫直一体机

# GL Series

开卷矫直一体机

UNCOILER WITH STRAIGHTENER

由于开卷机和整平机的一体化，得以节省空间；加之整平机可方便的调节工作角度，故可根据现有空间灵活设軒

By combining the uncoiler and straightener, we have succeeded in creating this new space saving model. The position of straightener is easily changeable for more flexible machine layout.


### ■ 标准配件: Standard Accessories

- ※ 所有滚轮皆镀硬铬处理 ※ All roller are hard chrome plated
- ※ RGL-200: 涡轮式微调装置 ※ The RGL-200: turbine type adjustment device
- ※ RGL-300以上: 四点涡轮式微调装置 ※ The RGL-300 above four points in turbine type adjustment device
- ※ 电控用Timer式控制 ※ In the Timer type electronic control.

### ■ 规格: Specification

| 型式 | Model | GL-200 | GL-300 | GL-400 | GL-500 | GL-600 |
|---|---|---|---|---|---|---|
| 板幅 | Width of Material (mm) | 200 | 300 | 400 | 500 | 600 |
| 板厚 | Thickness of Material (mm) | 0.3～3.2 | | | | |
| 送料速度 | Line Speed (m/min) | 16 | | | | |
| 矫正滚轮 | Straightener Roll(Qty) | 上3/Top3 下4/Bottom4<br>(下滚轮4支具有驱动功能4 Bottom Rolls have Drive Function) | | | | |
| 驱动滚轮入料/出料 | Pinch Roll(Inlet/Outlet) (Qty) | 入料Inlet:2 出料Outlet:2 | | | | |
| 料架荷重 | Max.Meterial Weight (kg) | 1000 | 1000 | 1500 | 2000 | 2000 |
| 扩张范围 | Extent Expansion(mm) | 460～520 | | | | |
| 材料外径 | Coil O.D. (Mm) | 1200 | 1200 | 1200 | 1200 | 1200 |
| 扩张方式 | Mandrel Expansion | 手动式 Manual | | | | |
| 供应电源 | Power Supply | 三相 3Phase 220V/380V/50HZ | | | | |

※规格及外观由于改进有可能在未通知时变化
※Specifications are subject to change for improvement without notice



## UNCOILER WITH STRAIGHTENER 开卷矫直一体机

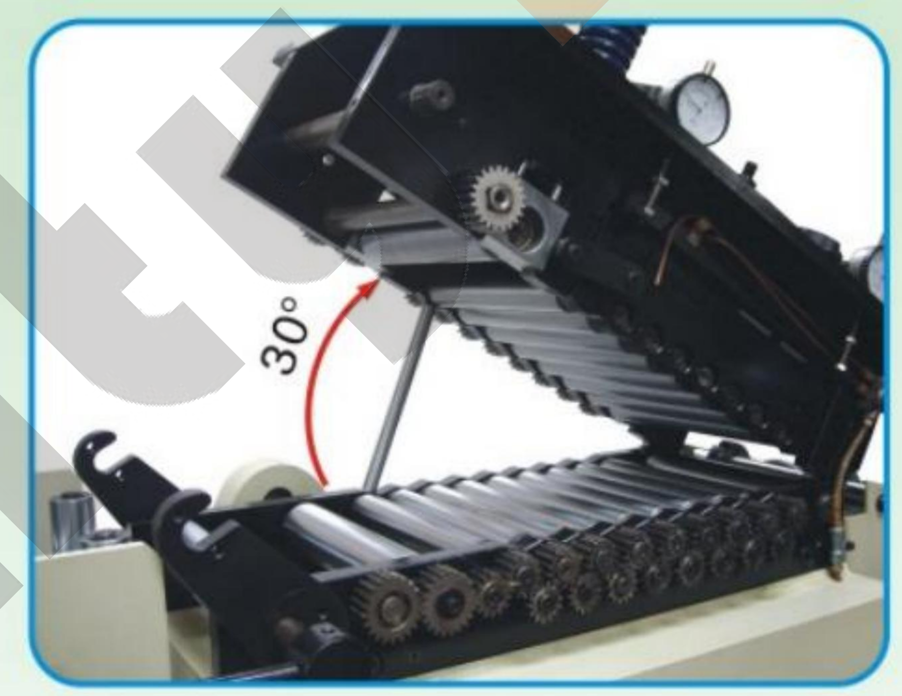
# RUS-F Series

开卷矫直一体机

UNCOILER WITH STRAIGHTENER

上部工作滚轮采先进日本4点式分厘表微调装置，适矫直机精密度要求较高的加工品质需求。滚轮材质采轴承钢(SUJ2)，经热处理淬火HRC 60° 后镀硬铬再研磨；硬度高、耐磨、寿命长。采用日本制精密培林，精密度高，寿命长。加装齿轮组黄油润滑装置。可配合任何送料机使用。

The upper work roollers adopt 4 point micrometer adjustment device, suitable for straightening machine precision requires high processing quality requirements. The roller shaft is made Bearing steel (SUJ2), the heat treatment quenching 60 ~ HRC after hard chromium plating and grinding; high hardness, wear resistance, long service life. The Japanese system of precision bearing, High precision, long service life. Add gear lubrication system. Can be used with any feeding machine.




上齿轮座可掀开式设计，方便滚轮清洁与保养

### 17根小直径工作滚轮

17根小直径工作滚轮消除卷材的弯曲应力，确保精密加工所需的高平担度

### 17 Smaller Diameter Work Rolls

17 smaller diameter work rolls remove the coil set from the material and ensure the high level of material flatness that precision processing demands.

### 辅助滚轮

对应材料宽度200mm、300mm之RUS-200F、RUS-300F系列产品，额外配备了辅助滚轮，用以抑制工作滚轮的弯曲，强化了矫平的精密性。

### Back Up Rolls

The RUS-200F and RUS-300F, which handle up to 200mm and 300mm widt have additional back up rolls,These rolls will reduce the deflection of work roll making strainghtening performance more precise.

### ■ 规格: Specification

| 型式 | Model | RUS-200F | RUS-300F | RUS-400F | RUS-500F | RUS-600F |
|---|---|---|---|---|---|---|
| 料宽 | Msterial Width (mm) | 200 | 300 | 400 | 500 | 600 |
| 材料厚度 | Strip Thiclness (mm) | 0.1～1.5 | 0.1～1.5 | 0.1～1.5 | 0.1~1.3 | 0.1~1.2 |
| 料材荷重 | Max.Meterial Weight (kg) | 500 | 1000 | 1500 | 1500 | 2000 |
| 扩张范围 | Extent Expansion(mm) | 390～520 | | | | |
| 材料外径 | Coil O.D. (Mm) | 1000 | 1200 | 1200 | 1200 | 1200 |
| 矫直滚轮 | Straightener Rolls (qty) | 上Upper8/下Lower9(全驱动All Drive Function) | | | | |
| 导料滚轮 | Pinch Rolls (qty) | 上1/Upper1下1/Lower 全驱动All Driven Function | | | | |
| 背压滚轮 | Back up rolls | 无N/A | | 有Porovided | | |
| 调整装置 | Adjustment | 四点式分厘表微调4 Points Fine Micro Adjustment | | | | |
| 矫正速度 | Speed Range (m/min) | 22 | | | | |
| 扩张方式 | Mandrel Expansion | 手动式 Manual | | | | |
| 感应方式 | Loop Control | 感应台式 Touch Sensor | | | | |
| 压料手臂 | Air Hold Down Arm | 无N/A | | | | |
| 供应电源 | Power Supply | 三相 3Phase 220V/380V/50HZ | | | | |

※规格及外观由于改进有可能在未通知时变化
※Specifications are subject to change for improvement without notice

# STRAIGHTENER FEEDER NC整平送料机

# DSF1 Series

NC整平送料机

STRAIGHTENER FEEDER

对应材料的最大宽度为300mm，厚度为3.2mm。该设备集开卷、整平、送料功能为一体，面市以来一直畅销不衰，是小型高性能整平送料装置的标准机型。

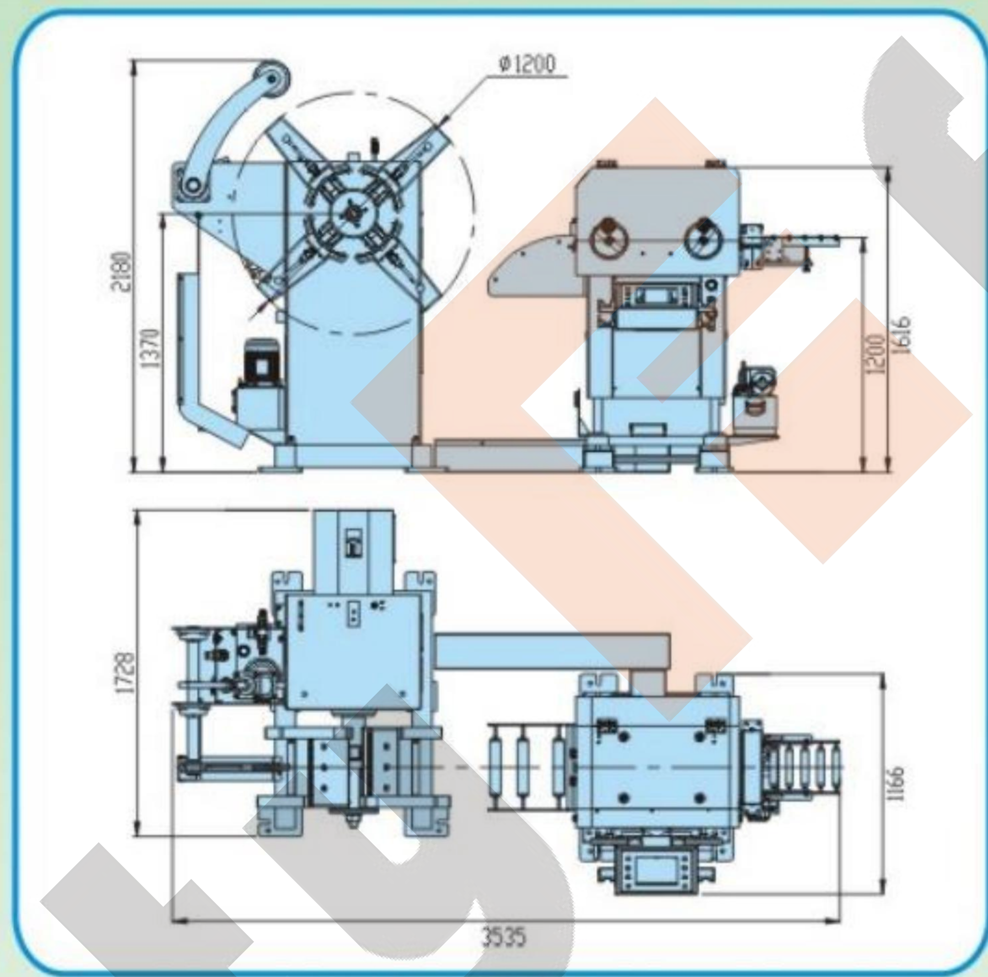
**DSF1** handles material up to 300mm width and 3.2mm thickness. This is the standard compact, high-performance straightener feeder system, and this model has been a best seller since it was put into the market.



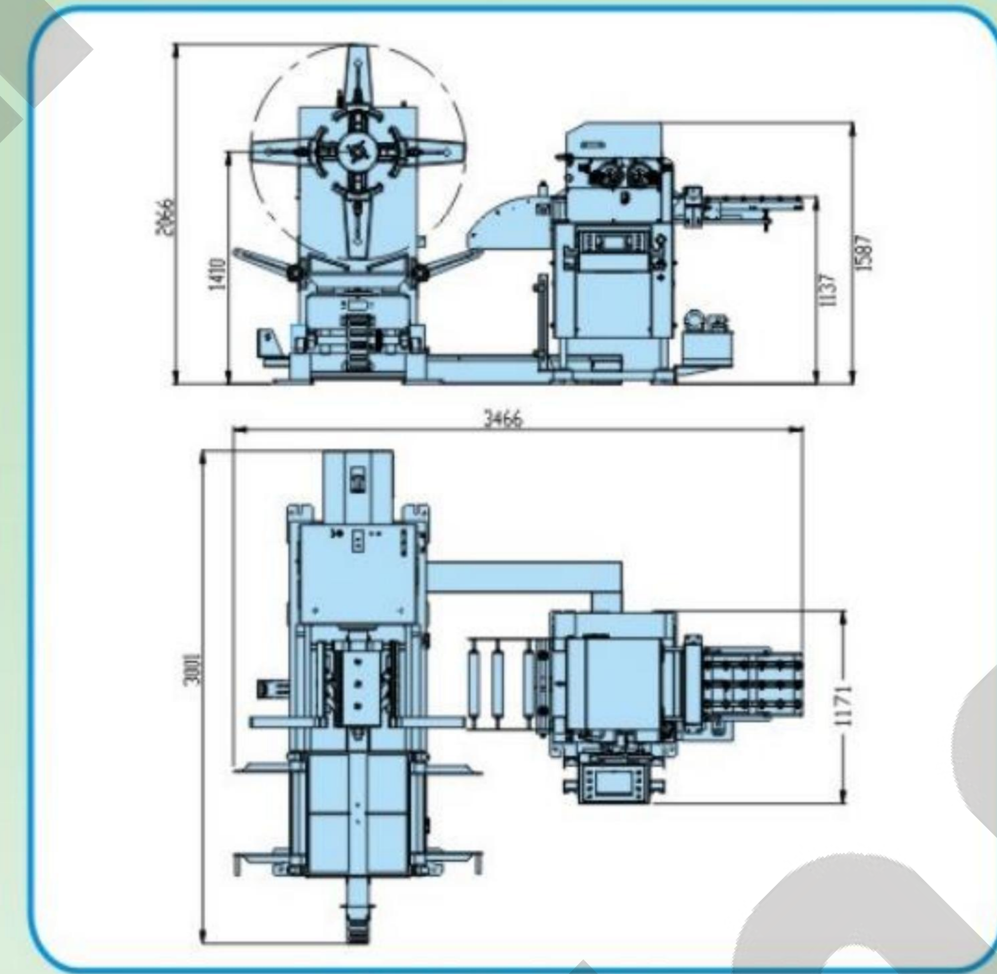

# DSF1

NC整平送料机

STRAIGHTENER FEEDER



MAC1-300



MAC1-400F

### 整平机开口机构(选购)

通过整平上部的开口，使其维护及清扫作业变的非常容易。

### Straightener port opening mechanism (Alligator Head/optional)

Maintenance and roll cleaning is made easy by an opening at the top of the straightener.

### 滚轮径PU胶特殊处理

滚轮径PU胶特殊处理，防止材料有压痕针对薄板材料特殊设计。

### Roller diameter PU plastic special treatment

Roller diameter PU plastic special treatment, to prevent the material has an indentation for sheet material special design.

## ■ 规格: Specification

| 型号 | Model | DSF1-300 | DSF1-400 |
|---|---|---|---|
| 板幅 | Stock Width(mm) | 50~300 | 50~400 |
| 板厚 | Stock Thickness(mm) | 0.2~3.0 | 0.2~3.0 |
| 卷材重量 | Max.Coil Weight(kg) | 3000 | 3000 |
| 卷材外径 | Max.Coil O.D.(mm) | 1200 | 1200 |
| 卷材内径 | Coil I.D.(mm) | 508 | 508 |
| 最大送料长度 | Feed Length(mm) | ~400※ | ~400※ |
| 生产线速度 | Max.Line Speed(m/分) | 16~24 | 16~24 |
| 工作滚轮 | Work Roll Number(支) | 上upper4/下lower3 | 上upper4/下lower3 |
| 送料滚轮 | Feed Roll number(组) | 1 | 1 |
| 主电机 | Main Motor(kw) | AC2.0 | AC2.0 |
| 料架扩张方式 | Mandrel Expansion | ※1 手动(气压)By manual (pneumatic) / 油压 hydraulic | ※1 手动(气压)By manual (pneumatic) / 油压 hydraulic |
| 料架电机 | Reel Motor(kw) | 1.5 | 1.5 |
| 使用电源电压 | Power (V) | 三相 3Phase 220V/380V/50HZ | 三相 3Phase 220V/380V/50HZ |
| 使用空气压 | Operating Air(Mpa) | 0.49 | 0.49 |

## ■ 矫正能力表 Straigtening performance

<table>
<tr><th>板厚(mm)Stock Thickness</th><th colspan="2">板幅(mm)Stock Width</th></tr>
<tr><td>0.2</td><td rowspan="7">300</td><td rowspan="6">400</td></tr>
<tr><td>0.4</td></tr>
<tr><td>0.6</td></tr>
<tr><td>0.8</td></tr>
<tr><td>1.0</td></tr>
<tr><td>1.2</td></tr>
<tr><td>1.4</td><td>300</td></tr>
<tr><td>1.6</td><td>250</td><td>250</td></tr>
<tr><td>2.0</td><td>190</td><td>190</td></tr>
<tr><td>2.3</td><td>160</td><td>160</td></tr>
<tr><td>3.0</td><td>100</td><td>100</td></tr>
</table>

※1:(气压)是选装件。气压扩缩时的卷材重量是( )内的数值。
※1:(Pneumatic):Option in case of pneumatic mandrel expansion is provided,refer to coil weight().
※2:选择配置
※2:Optional equipment ,in case of pneumatic mandrel expansion is provided,refer to coil weight().

※上表中的降服点应力为245N/mm²(拉伸强度为392N/mm²).
※The above flgures are the material having yield strength of 245N/mm² (tensile strength of 392N/mm²).

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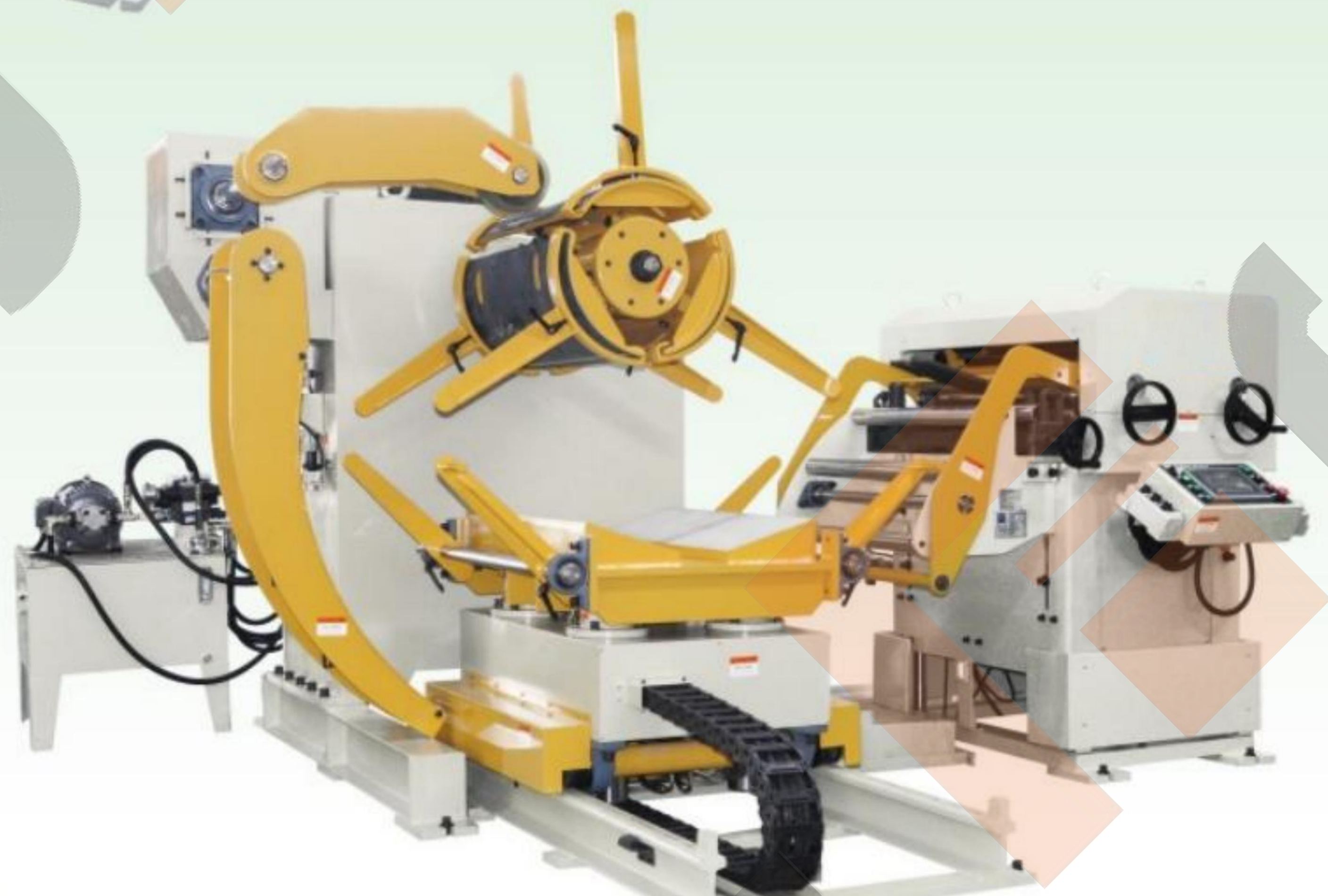
# STRAIGHTENER FEEDER NC整平送料机

# DSF2 Series

NC整平送料机

STRAIGHTENER FEEDER

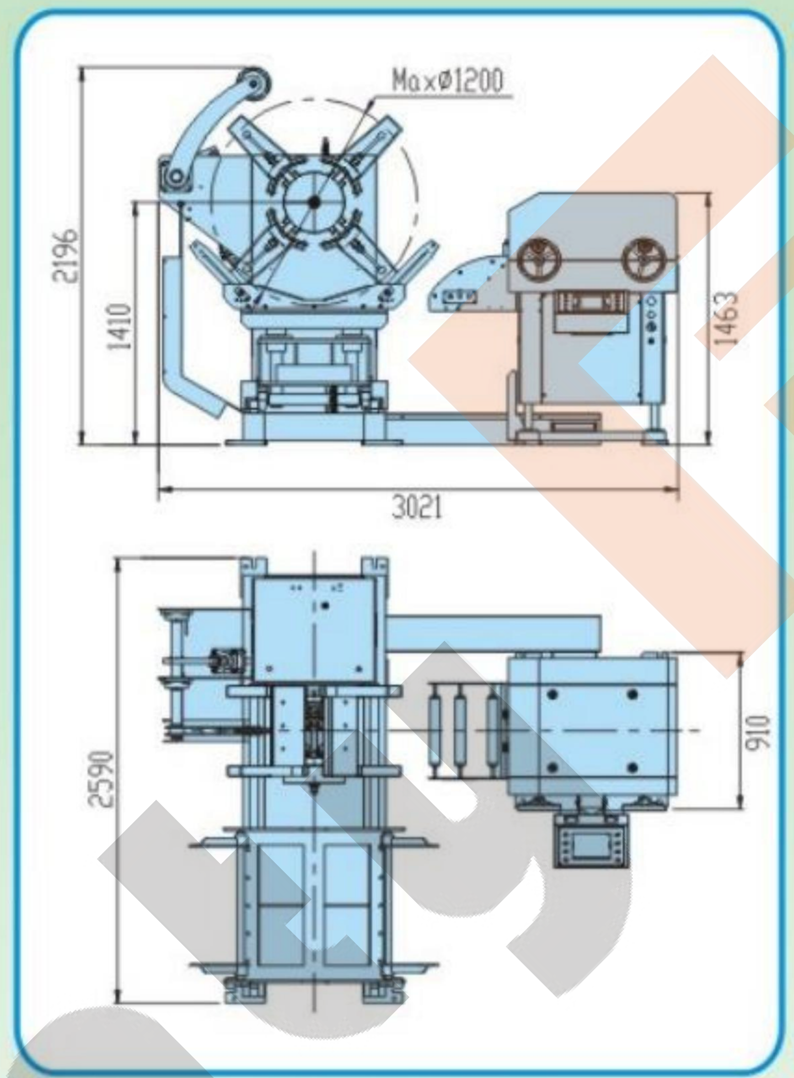




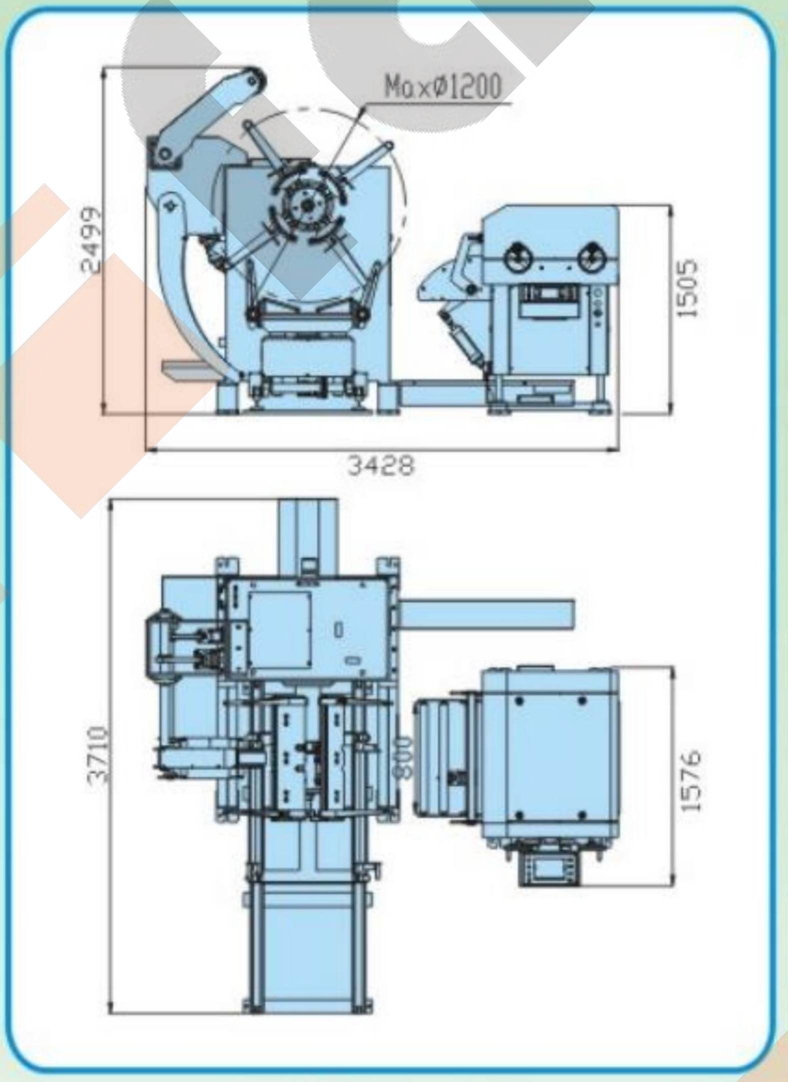
# DSF2

NC整平送料机

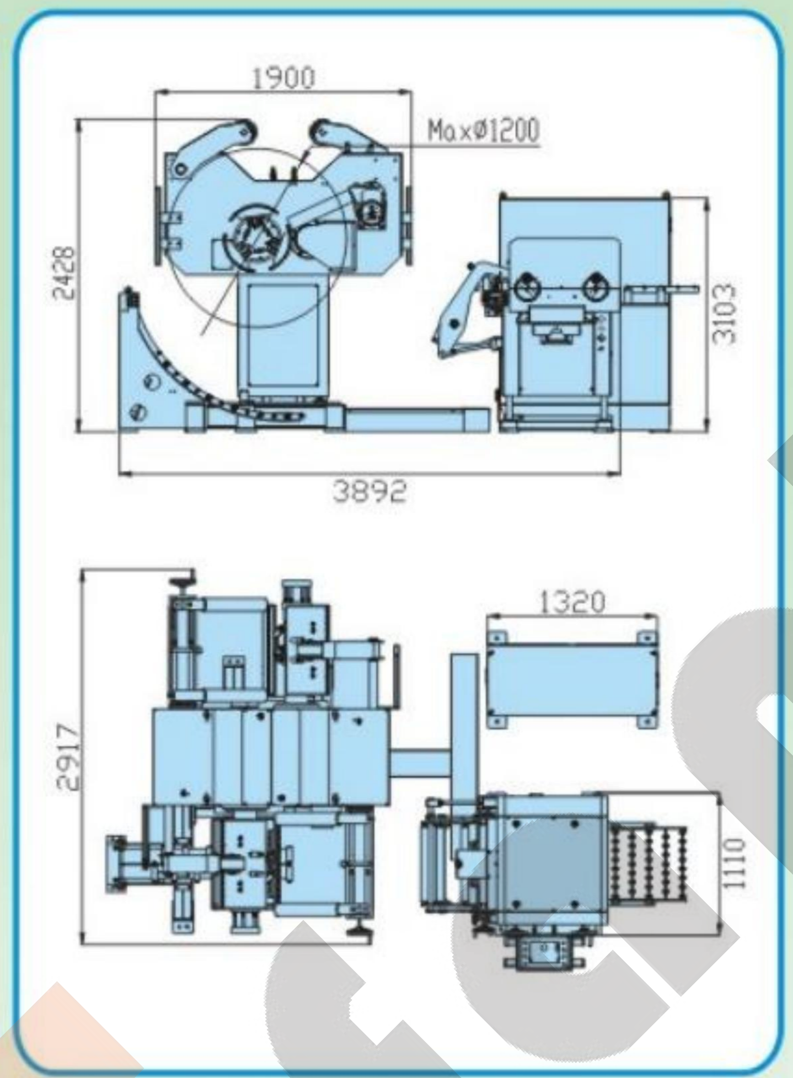
STRAIGHTENER FEEDER




DSF2-400




DSF2-800




DSF2-600

## 材料厚度 Thickness 0.3~3.2mm

### 规格: Specification

| 型号 Model | DSF2-400 | DSF2-600 | | DSF2-800 | |
|---|---|---|---|---|---|
| 板幅 Stock Width(mm) | 50~400 | 50~600 | | 50~800 | |
| 板厚 Stock Thickness(mm) | 0.3~3.2 | 0.3~3.2 | | 0.3~3.2 | |
| 卷材重量 Max.Coil Weight(kg) | 3000 | 3000 | 5000 | 5000 | 7000 |
| 卷材外径 Max.Coil O.D.(mm) | 1200 | 1200 | | 1200 | |
| 卷材内径 Coil I.D.(mm) | 508 | 508 | | 508 | |
| 最大送料长度 Feed Length(mm) | ~500※ | ~500※ | | ~500※ | |
| 生产线速度 Max.Line Speed(m/min) | 16~24 | 16~24 | | 16~24 | |
| 工作滚轮 Work Roll Number(支) | 上upper6/下lower5 | 上upper6/下lower5 | | 上upper6/下lower5 | |
| 送料滚轮 Feed Roll number(组) | 1 | 1 | | 1 | |
| 主电机 Main Motor(kw) | AC2.9 | AC4.4 | | AC4.4 | |
| 料架扩张方式 Mandrel Expansion | 油压hydraulic | 油压hydraulic | | 油压hydraulic | |
| 料架电机 Reel Motor(kw) | 1.5 | 1.5 | 2.2 | 2.2 | 3.7 |
| 使用电源电压 Power (V) | 三相 3Phase 220V/380V/50HZ | | | | |
| 使用空气压 Operating Air(Mpa) | 0.49 | 0.49 | | 0.49 | |

### 矫正能力表 Straigtening performance

| 板厚(mm)Stock Thickness | 板幅(mm)Stock Width | | |
|---|---|---|---|
| 0.3 | 400 | 600 | 800 |
| 0.4 | | | |
| 0.6 | | | |
| 0.8 | | | |
| 1.0 | | | |
| 1.2 | | | |
| 1.4 | | | |
| 1.6 | | 470 | 470 |
| 1.8 | | 400 | 400 |
| 2.0 | | 360 | 360 |
| 2.3 | 300 | 300 | 300 |
| 2.5 | 230 | 230 | 230 |
| 2.8 | 150 | 150 | 150 |
| 3.2 | 110 | 110 | 110 |

※1:(气压)是选装件。气压扩缩时的卷材重量是()内的数值。
※1:(Pneumatic):Option in case of pneumatic mandrel expansion is provided,refer to coil weight().

※上表中的降服点应力为245N/mm²(拉伸强度为392N/mm²).
※The above flgures are the material having yield strength of 245N/mm² (tensile strength of 392N/mm²).

※规格及外观由于改进有可能在未通知时变化
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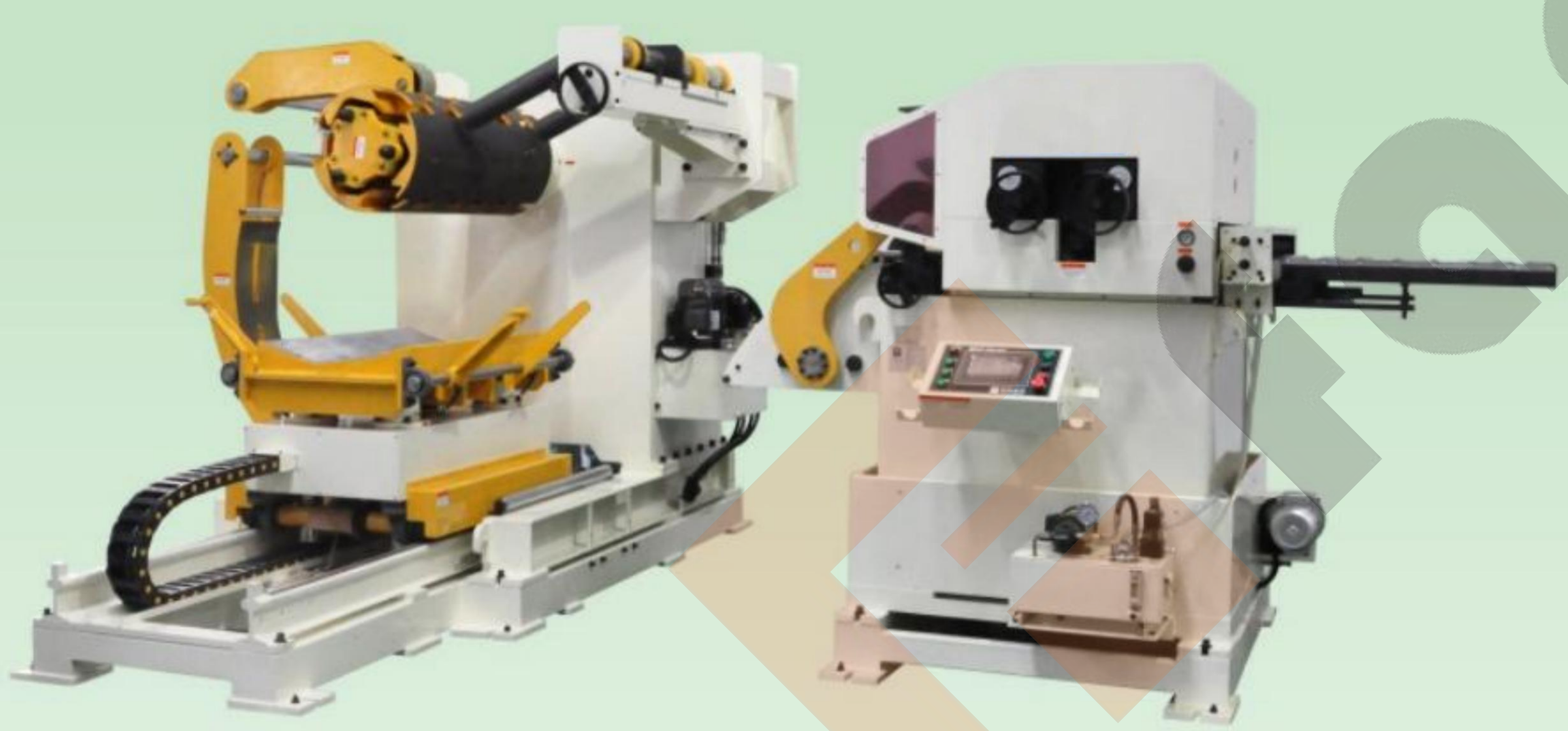
# STRAIGHTENER FEEDER NC整平送料机

# DSF3 Series

NC整平送料机

STRAIGHTENER FEEDER

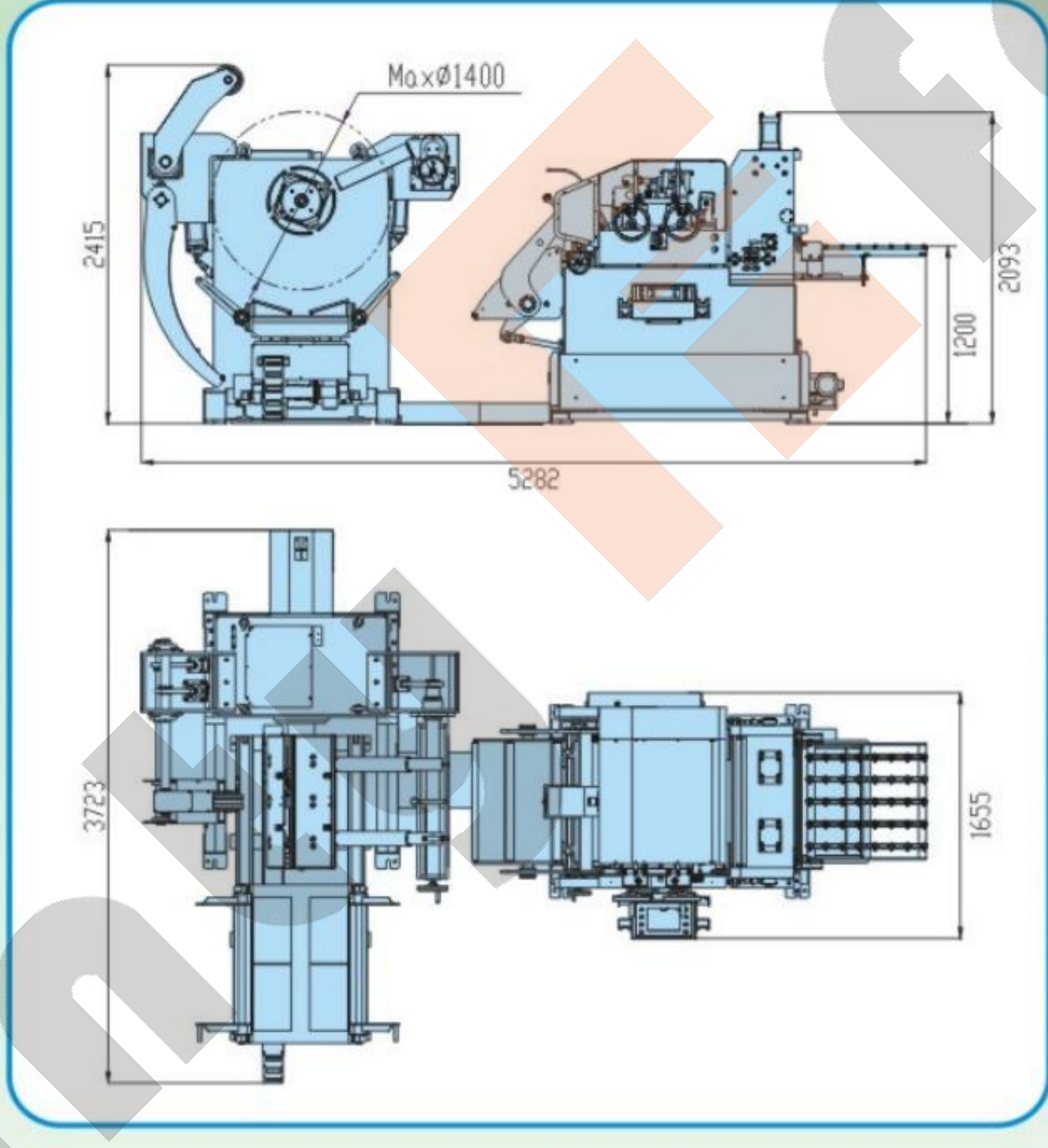




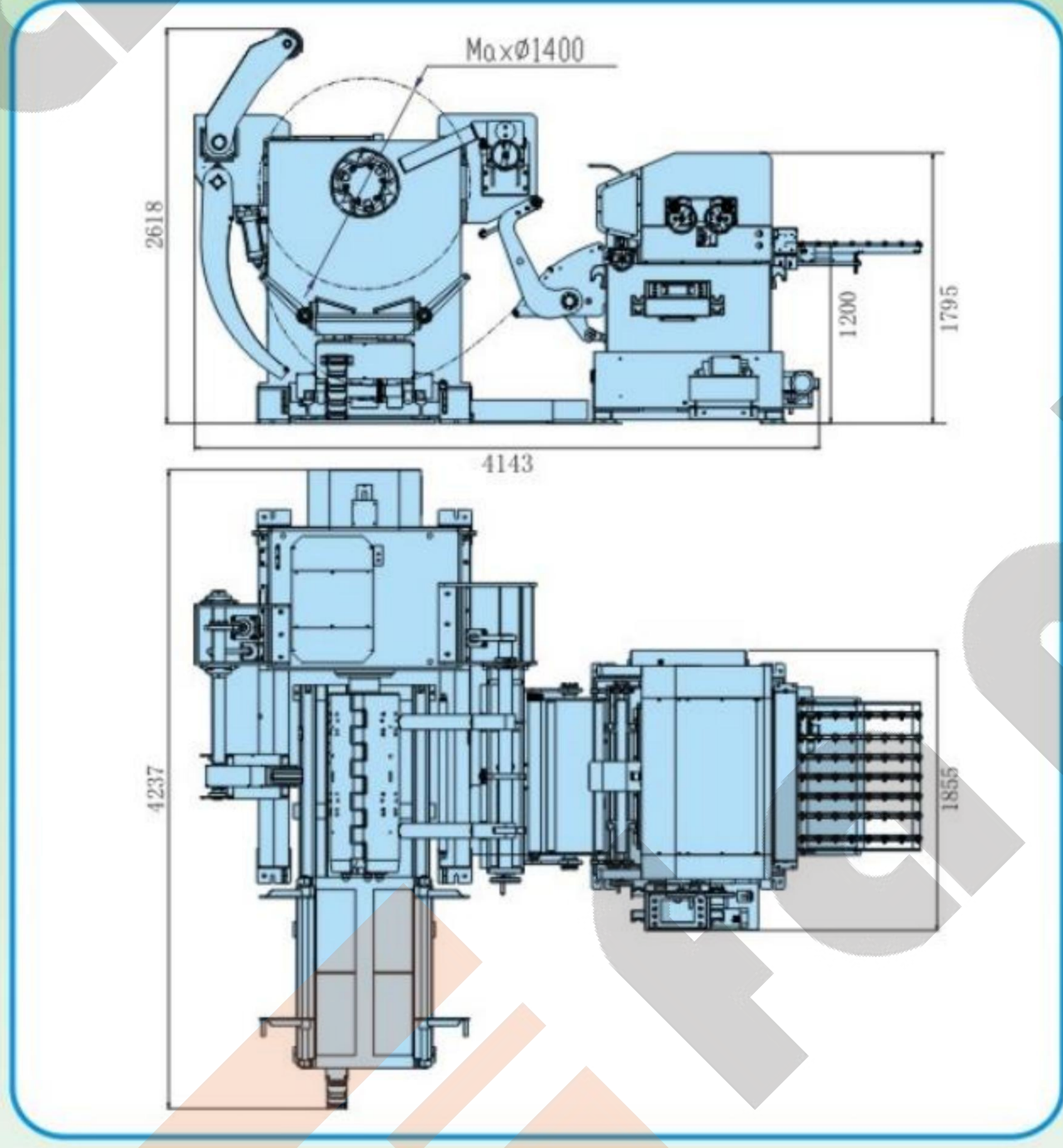
# DSF3

NC整平送料机

STRAIGHTENER FEEDER




DSF3-800




DSF3-1000

## 材料厚度 Thickness 0.3~4.5mm

### 规格: Specification

| 型号 Model | DSF3-400 | DSF3-600 | DSF3-800 | | DSF3-1000 |
|---|---|---|---|---|---|
| 板厚 Stock Thickness(mm) | 0.3~4.5 | 0.3~4.5 | 0.3~4.5 | | 0.3~4.5 |
| 板幅 Stock Width(mm) | 50~400 | 50~600 | 70~800 | | 70~1000 |
| 卷材重量 Max.Coil Weight(kg) | 5000 | 5000 | 5000 | 7000 | 7000 |
| 卷材外径 Max.Coil O.D.(mm) | ϕ1400 | ϕ1400 | ϕ1400 | | ϕ1400 |
| 卷材内径 Coil I.D.(mm) | ϕ508 | ϕ508 | ϕ508 | | ϕ508 |
| 最大送料长度 Feed Length(mm) | ~500※ | ~500※ | ~500※ | | ~500※ |
| 生产线速度 Max.Line Speed(m/min) | 16~24 | 16~24 | 16~24 | | 16~24 |
| 工作滚轮 Work Roll Number(支) | 上up4/下down3 | 上up4/下down3 | 上up4/下down3 | | 上up4/下down3 |
| 送料滚轮 Feed Roll number(组) | 1 | 1 | 1 | | 1 |
| 主电机 Main Motor | AC4.4 | AC4.4 | AC5.5 | | AC7.5 |
| 料架扩张方式 Mandrel Expansion | 油压hydraulic | 油压hydraulic | 油压hydraulic | | 油压hydraulic |
| 料架电机 Reel Motor(kw) | 2.2 | 2.2 | 2.2 | 3.7 | 3.7 |
| 使用电源电压 Power (V) | 三相 3Phase 220V/380V/50HZ | | | | |
| 使用空气压 Operating Air(Mpa) | 0.49 | 0.49 | 0.49 | | 0.49 |

### 矫正能力表 Straigtening performance

| 型号Model | | DSF3-400 | DSF3-600 | DSF3-800 | DSF3-1000 |
|---|---|---|---|---|---|
| 板厚(mm) Stock Thickness | 0.3~0.8 | 400 | 600 | 800 | 1000 |
| | 1.0 | | | | 750 |
| | 1.2 | | | 700 | 600 |
| | 1.6 | | 590 | 480 | 430 |
| | 1.8 | | 500 | 420 | 380 |
| | 2.0 | | 430 | 370 | 330 |
| | 2.3 | | 360 | 320 | 290 |
| | 2.8 | 370 | 290 | 250 | 230 |
| | 3.2 | 300 | 250 | 220 | 200 |
| | 4.5 | 160 | 160 | 150 | 110 |

※上表中的降服点应力为245N/mm²
※The above figures are the material having yield strength of 245N/mm² max.

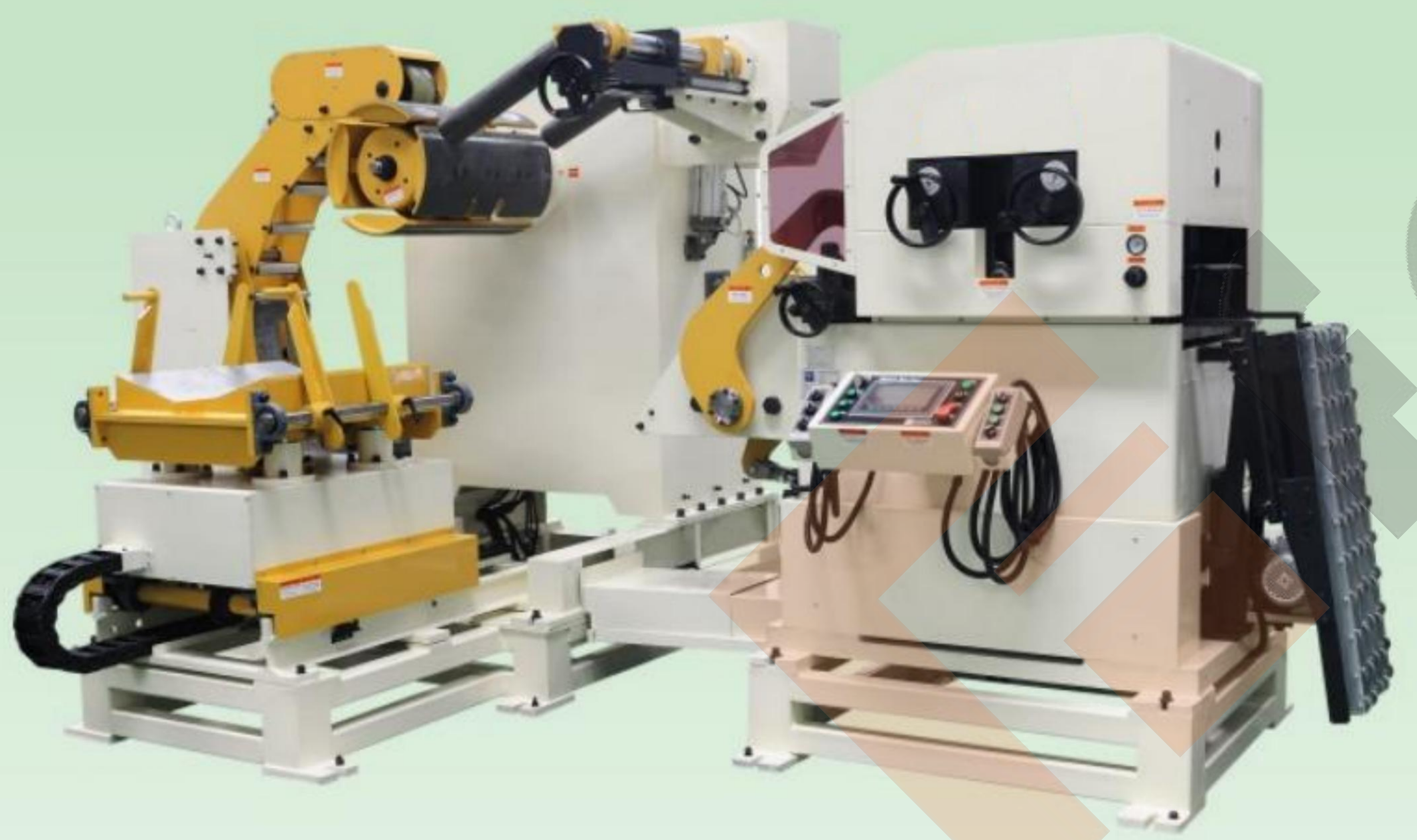
※规格及外观由于改进有可能在未通知时变化
※Specifications are subject to change for improvement without notice

STRAIGHTENER FEEDER NC整平送料机

# DSF4 Series

NC整平送料机

STRAIGHTENER FEEDER

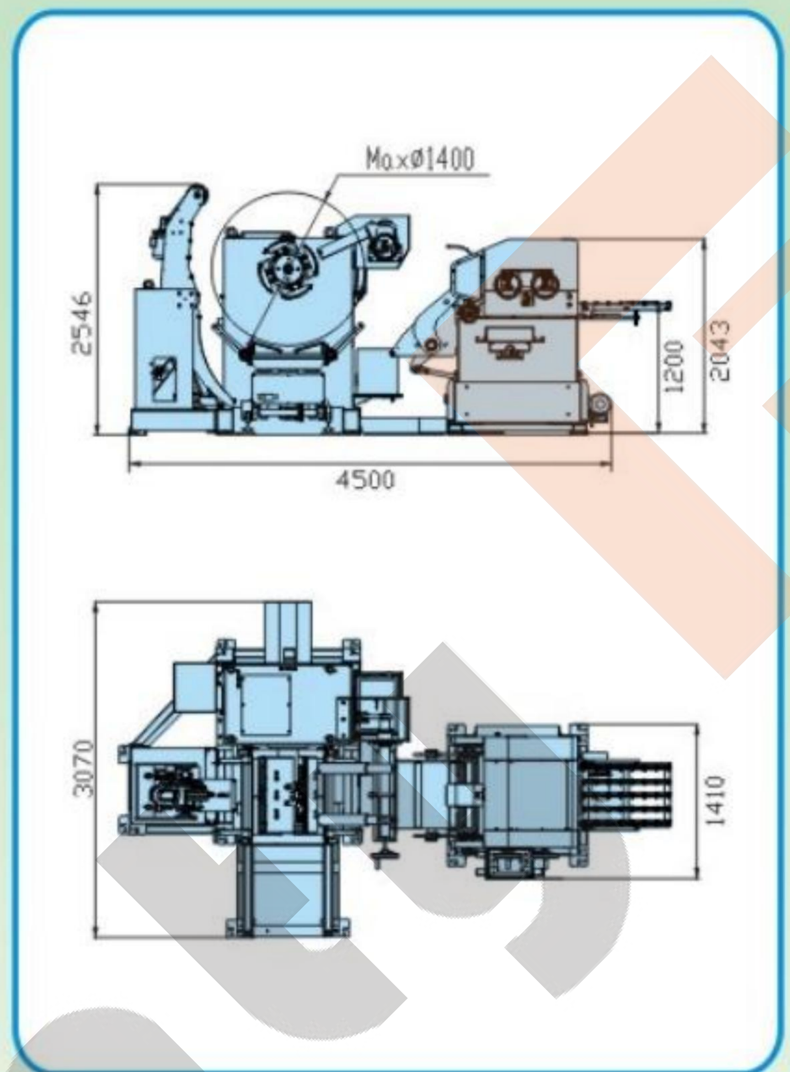




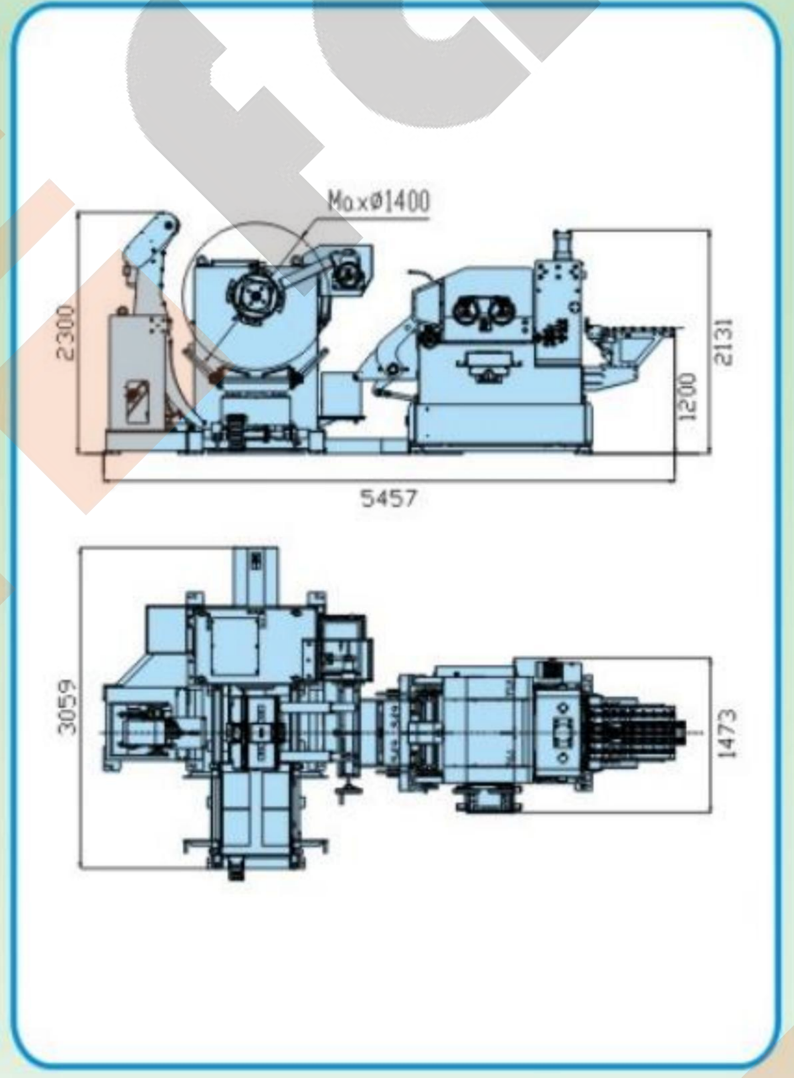
# DSF4

NC整平送料机

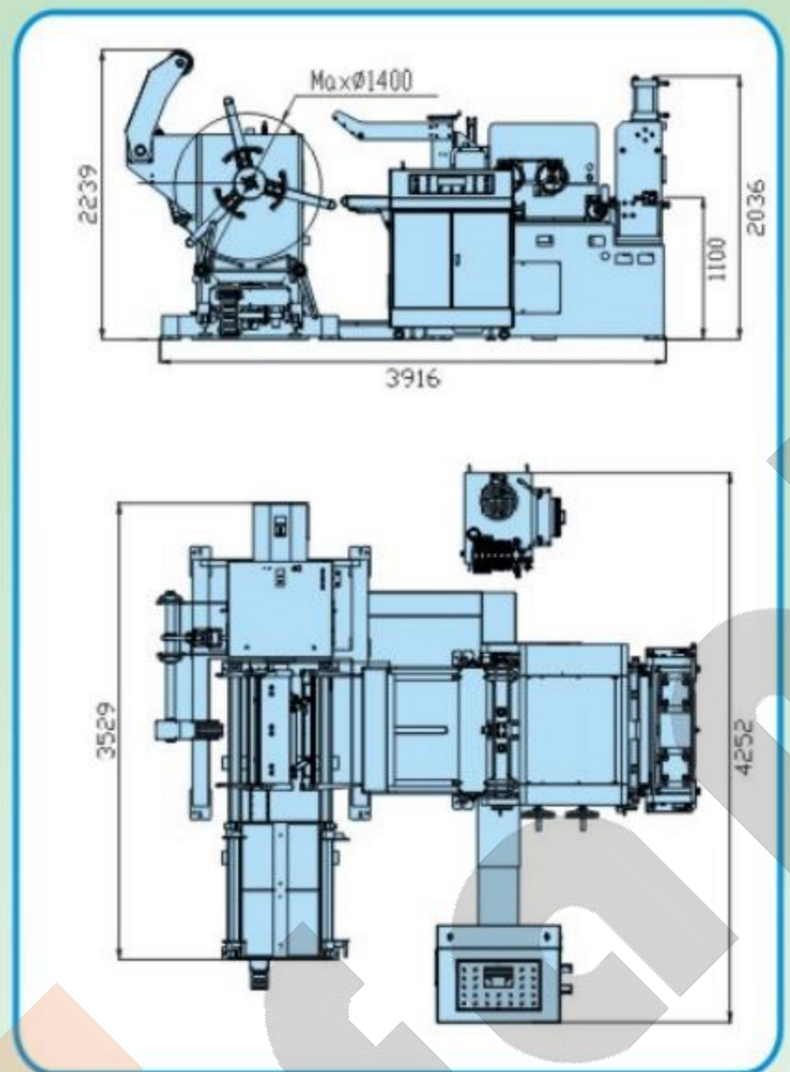
STRAIGHTENER FEEDER




DSF4-600




DSFJ4-600




DSF4-800S

## 材料厚度 Thickness 0.6~6.0mm

### 规格: Specification

| 型号 Model | DSF4-400 | DSF4-600 | DSF4-800 | DSF4-1000 | DSF4-1300 |
|---|---|---|---|---|---|
| 板幅 Stock Width(mm) | 70~400 | 70~600 | 70~800 | 70~1000 | 70~1300 |
| 板厚 Stock 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 Max.Coil Weight(kg) | 5000 | 5000 | 7000 | 7000 | 7000 |
| 卷材外径 Max.Coil O.D.(mm) | 1400 | 1400 | 1400 | 1400 | 1400 |
| 卷材内径 Coil I.D.(mm) | 508 | 508 | 508 | 508 | 508 |
| 最大送料长度 Feed Length(mm) | ~500※ | ~500※ | ~500※ | ~500※ | ~500※ |
| 生产线速度 Max.Line Speed(m/min) | 16~24 | 16~24 | 16~24 | 16~24 | 16~24 |
| 工作滚轮 Work Roll Number(支) | 上upper4/下lower3 | 上upper4/下lower3 | 上upper4/下lower3 | 上upper4/下lower3 | 上upper4/下lower3 |
| 送料滚轮 Feed Roll number(组) | 1 | 1 | 1 | 1 | 1 |
| 主电机 Main Motor | 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 Reel Motor(kw) | 2.2 | 2.2 | 3.7 | 3.7 | 3.7 |
| 使用电源电压 Power (V) | 三相 3Phase 220V/380V/50HZ | | | | |
| 使用空气压 Operating Air(Mpa) | 0.49 | 0.49 | 0.49 | 0.49 | 0.49 |

### 矫正能力表 Straigtening performance

<table>
<tr><th colspan="2">型号Model</th><th>DSF4-400</th><th>DSF4-600</th><th>DSF4-800</th><th>DSF4-1000</th><th>DSF4-1300</th></tr>
<tr><td rowspan="10">板厚(mm)<br>Stock Thickness</td><td>0.6~1.3</td><td rowspan="7">400</td><td rowspan="6">600</td><td rowspan="5">800</td><td rowspan="4">1000</td><td rowspan="3">1300</td></tr>
<tr><td>2.0</td></tr>
<tr><td>2.3</td></tr>
<tr><td>2.5</td><td>1170</td></tr>
<tr><td>2.8</td><td>933</td><td>933</td></tr>
<tr><td>3.2</td><td>714</td><td>714</td><td>714</td></tr>
<tr><td>4.0</td><td>457</td><td>457</td><td>457</td><td>457</td></tr>
<tr><td>4.5</td><td>361</td><td>361</td><td>361</td><td>361</td><td>361</td></tr>
<tr><td>5.0</td><td>293</td><td>293</td><td>293</td><td>293</td><td>293</td></tr>
<tr><td>6.0</td><td>203</td><td>203</td><td>203</td><td>203</td><td>203</td></tr>
</table>

※上表中的降服点应力为392N/mm²
※The above figures are the material having yield strength of 392N/mm² max.

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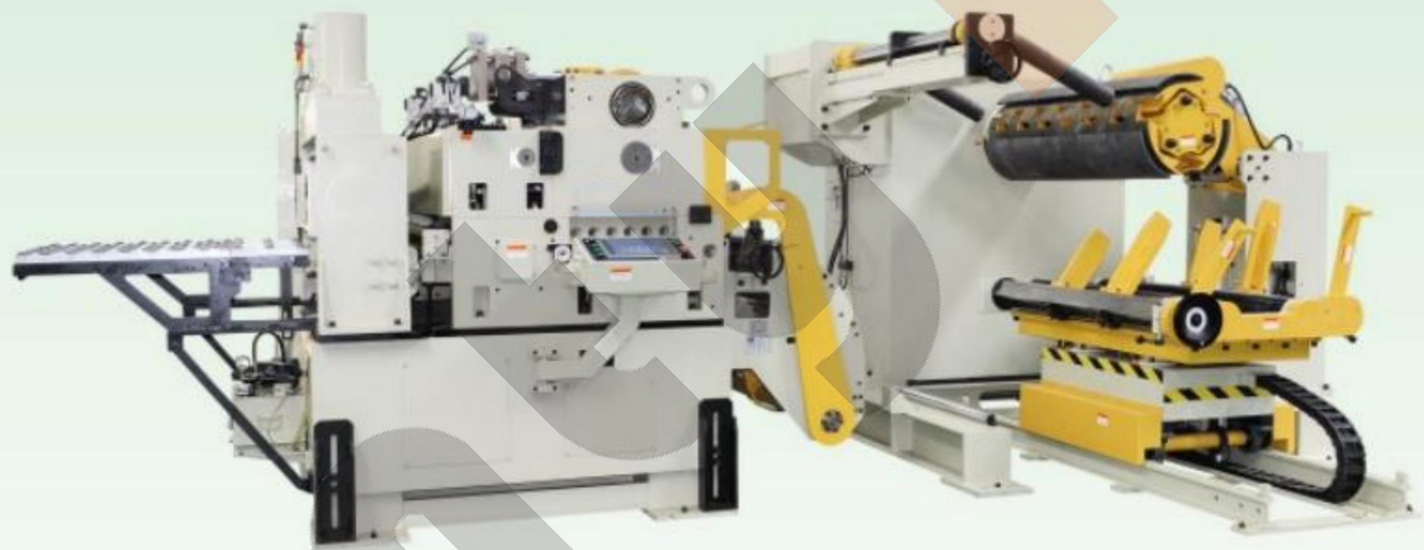
※Specifications are subject to change for improvement without notice

# STRAIGHTENER FEEDER 整平送料机

# DSF4-F Series

整平送料机

STRAIGHTENER FEEDER



### 具有高刚性、高平坦度11支工作滚轮

### With high rigidity andHigh Flatness the 11 work rolls

对应材料最大宽度600~1300mm、厚度6.0mm。采用11支工作滚轮提高了整平信赖性、使薄板~中厚板极其平坦、及框架刚性的强化更使高强度材的矫正成为可能、可对应高精密、高速冲床。大角度开口机构可方便地进行滚轮的清扫、维护作业。为提高薄板~中厚板冲压效率及生产性、最新机型MAC4－F系列诞生了。

This series nandles material form 600mm to 1,300mm wide and up to 6.0mm thick.The 11 work rolls offer an extraordinary level of flatness to the materials. TheHL series featured that adapting all rolls driven with universal joint (MAC4-F) and strengthen body flame for straightening high tension materials. A straightener port opening mechanism has been added. allowing for improved maintenance and cleaning the rolls. The HL series underwent a new model for meeting the demand of both productivity and efficiency in pressroom.

### 可打开工作滚轮机构

以出口处变芯轴为轴心最大可打开20度。大开口使滚轮的清扫作业变的非常容易。内部构造一目了然，机构深处的检查、维护更加方便。

### Easy Access to Work Rolls

The work rolls on the HL can be opened to a maximum of 20 degrees, making roll cleaning much easier. The machine was designed to allow easy access to the inside structure for improved maintenance.

### 卷料头压平装置

操作少力，增加安全性，将卷料前端面压平，方便材料进入入滚轮。

### Coil Material Entry Support Assembly

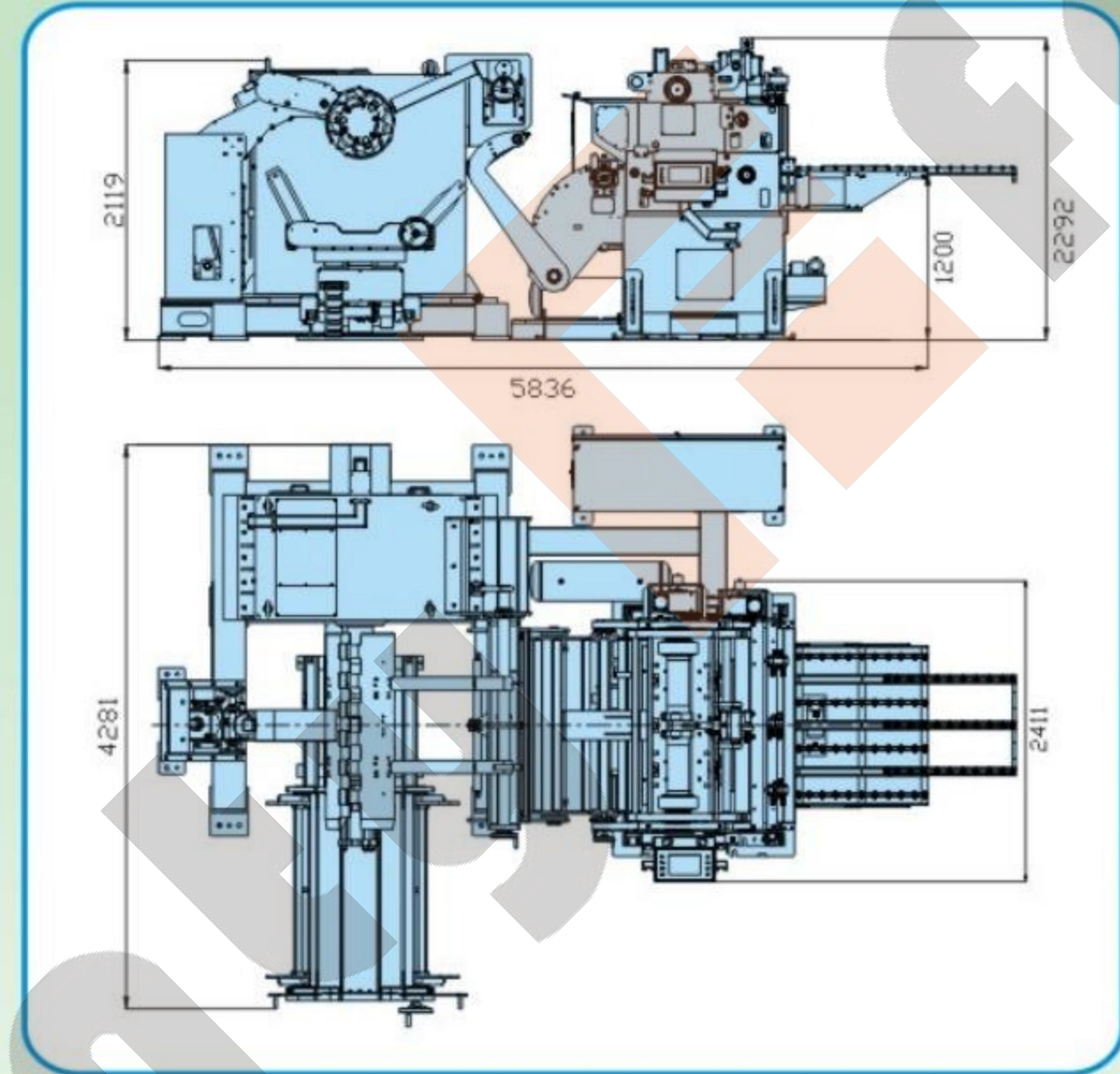
Save Man Power Increase Safety, Easily move the material into pinch rollers.



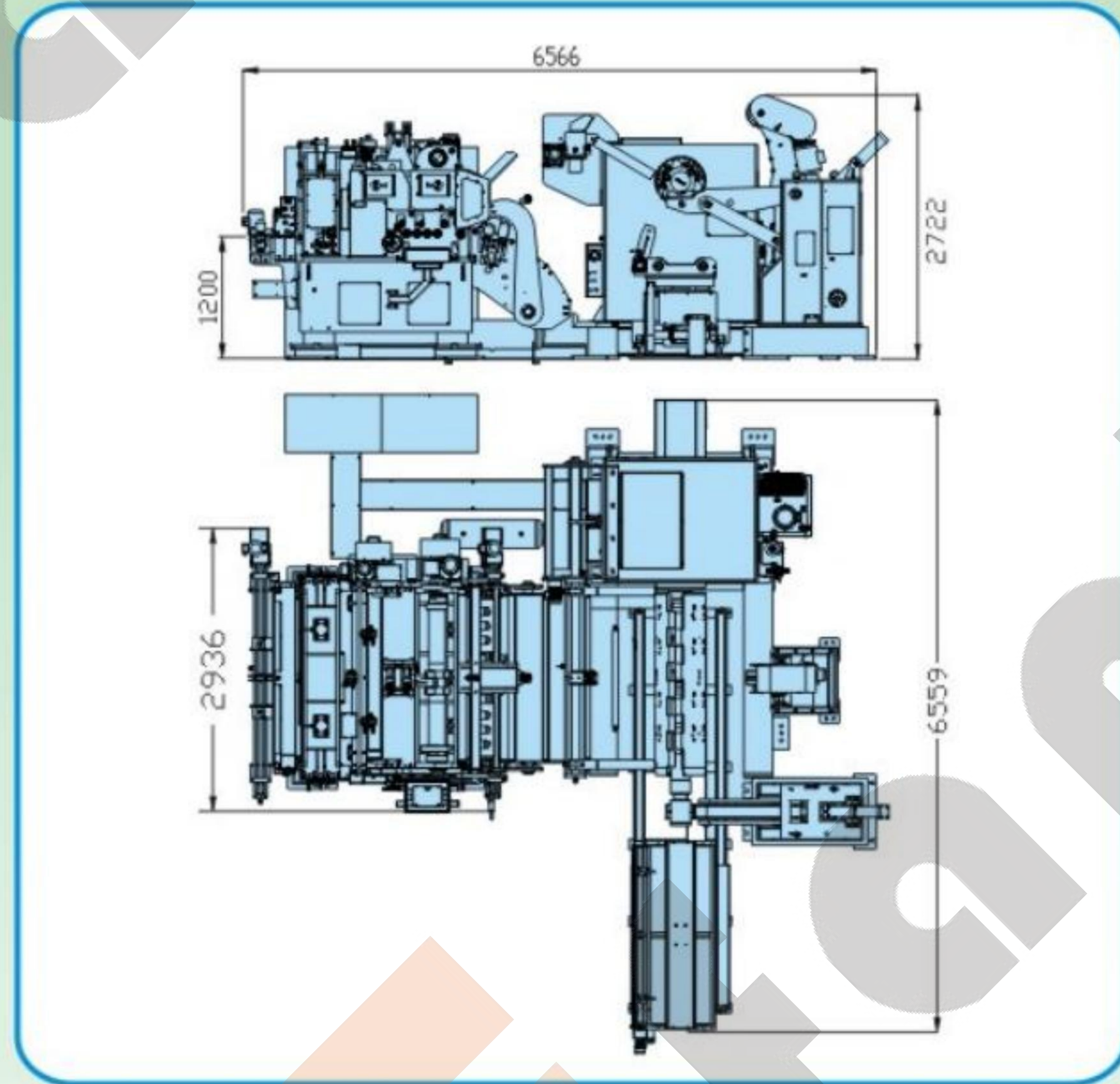
# DSF4-F

整平送料机

STRAIGHTENER FEEDER




DSF4-1300F




DSF4-1700F

## 规格: Specification

| 型号 Model | DSF4-600F | DSF4-800F | DSF4-1000F | DSF4-1300F | DSF4-600H | DSF4-800H | DSF4-1000H | DSF4-1300H |
|---|---|---|---|---|---|---|---|---|
| 板幅 Stock Width(mm) | 70~600 | 70~800 | 70~1000 | 70~1300 | 70~600 | 70~800 | 70~1000 | 70~1300 |
| 板厚 Stock Thickness(mm) | 0.6~6.0 | 0.6~6.0 | 0.6~6.0 | 0.6~6.0 | 0.6~6.0 | 0.6~6.0 | 0.6~6.0 | 0.6~6.0 |
| 卷材重量 Max.Coil Weight(kg) | 5000 | 5000 | 7000 | 10000 | 5000 | 5000 | 7000 | 10000 |
| 卷材外径 Max.Coil O.D.(mm) | 1400 | 1400 | 1400 | 1400 | 1400 | 1400 | 1400 | 1400 |
| 卷材内径 Coil I.D.(mm) | 508 | 508 | 508 | 508 | 508 | 508 | 508 | 508 |
| 最大送料长度 Feed Length(mm) | ~500※ | ~500※ | ~500※ | ~500※ | ~500※ | ~500※ | ~500※ | ~500※ |
| 生产线速度 Max.Line Speed(m/min) | 16~24 | 16~24 | 16~24 | 16~24 | 16~24 | 16~24 | 16~24 | 16~24 |
| 工作滚轮 Work Roll Number(支) | 上upper6/下lower5 | 上upper6/下lower5 | 上upper6/下lower5 | 上upper6/下lower5 | 上upper6/下lower5 | 上upper6/下lower5 | 上upper6/下lower5 | 上upper6/下lower5 |
| 送料滚轮 Feed Roll number(组) | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 主电机 Main Motor | AC7.5 | AC11.0 | AC11.0 | AC11.0 | AC15.0 | AC15.0 | AC15.0 | AC22.0 |
| 料架扩张方式 Mandrel Expansion | 油压Hydrauilc | 油压Hydrauilc | 油压Hydrauilc | 油压Hydrauilc | 油压Hydrauilc | 油压Hydrauilc | 油压Hydrauilc | 油压Hydrauilc |
| 料架电机 Reel Motor(kw) | 2.2 | 2.2 | 3.7 | 7.5 | 2.2 | 2.2 | 3.7 | 7.5 |
| 使用电源电压 Power (V) | 三相 3Phase 220V/380V/50HZ | | | | | | | |
| 使用空气压 Operating Air(Mpa) | 0.49 | 0.49 | 0.49 | 0.49 | 0.49 | 0.49 | 0.49 | 0.49 |

※送料长度超过500mm时，需要交替运转切换(选择件)
※In Case Feeding length is 500mm or longer, MASTER CONTROL Funolion (Option) must be provideo.

## 矫正能力表(高涨力材) :Straigtening performance(For High tention materials)

| 型号Model | | DSF4-600F | DSF4-800F | DSF4-1000F | DSF4-1300F | DSF4-600H | DSF4-800H | DSF4-1000H | DSF4-1300H |
|---|---|---|---|---|---|---|---|---|---|
| 板厚(mm) Stock Thickness | 2.3 | 255 | 252 | 250 | 246 | 558 | 558 | 558 | 558 |
| | 2.5 | 232 | 230 | 228 | 225 | 472 | 472 | 472 | 472 |
| | 2.8 | 205 | 203 | 202 | 199 | 376 | 376 | 376 | 376 |
| | 3.2 | 177 | 175 | 174 | 171 | 288 | 288 | 288 | 288 |
| | 4.0 | 138 | 136 | 135 | 133 | 184 | 184 | 184 | 184 |
| | 4.5 | 120 | 119 | 118 | 116 | 148 | 148 | 148 | 148 |
| | 5.0 | 106 | 105 | 104 | 103 | 118 | 118 | 118 | 118 |
| | 6.0 | 81 | 81 | 81 | 81 | 82 | 82 | 82 | 82 |

※上表中的降服点应力为600N/mm²
※The above flgures are the material having yield strength of 600N/mm² max.

※规格及外观由于改进有可能在未通知时变化
※Specifications are subject to change for improvement without notice

## STRAIGHTENER FEEDER NC整平送料机

# DSF5 Series

NC整平送料机

STRAIGHTENER FEEDER

### 9支工作滚轮
### 9 Work Rolls

PV体现了送料技术的一个新层次，由于机器属重力型兼有9支工作滚轮，从而拥有了处理厚度达9mm材料的能力，获得高次元的平坦度。

The PV pepresent a new standard in feeding technology,with the ability to handle Plate up to 9.0mm(0.35") thick, Combining the power of the heavy-duty PV unit with the straightening performance of 9 work rolls (5 upper and 4 lower), the PV gives material a high degree of flatness.

### 滚轮开口装置
### Easy Access to Work Rolls

PV 工作滚轮以出口处变芯轴为轴心，最大可打开20度，使得清扫作业更容易。同时，机器的内部构造一目了然，更好的改善了机构深处的检查，维护作业。

The work rolls on the PV can be opened to a maximum of 20 degrees,making roll cleaning much easier. The machine was designed to allow easy access to the inside structure for improve maintenance.

### 电动调整矫正量
### Electronic Straightening Adjustment

以电动式的矫正量调整取代之前的手动式转柄矫正量调整，使得操作更加容易。

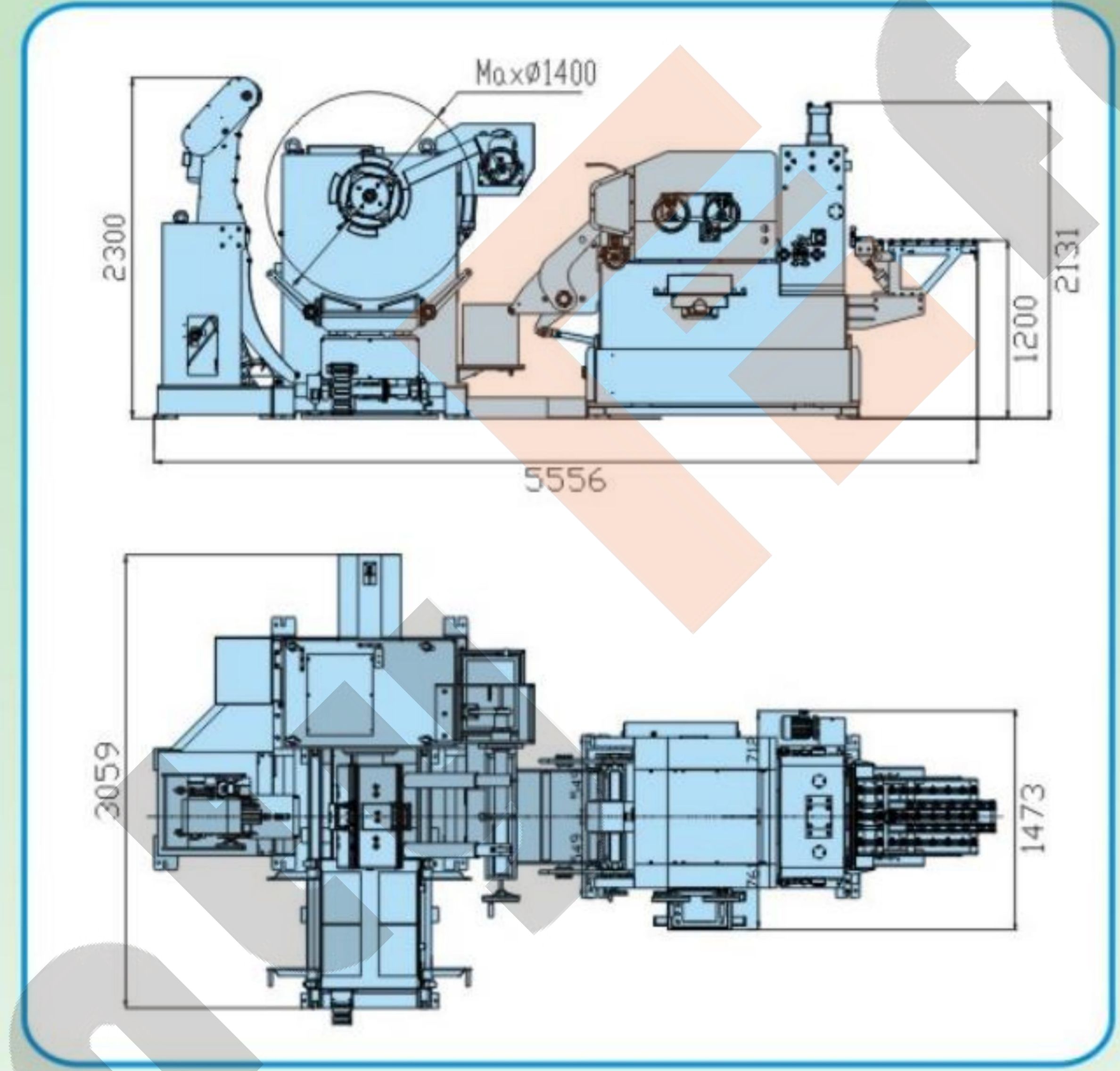
The PV features an automatic system, for straightening adjustment, unlike previous models which adjusted straightening with manual wheels. The new electronic straightening system is easy to use and allows for faster setting up.



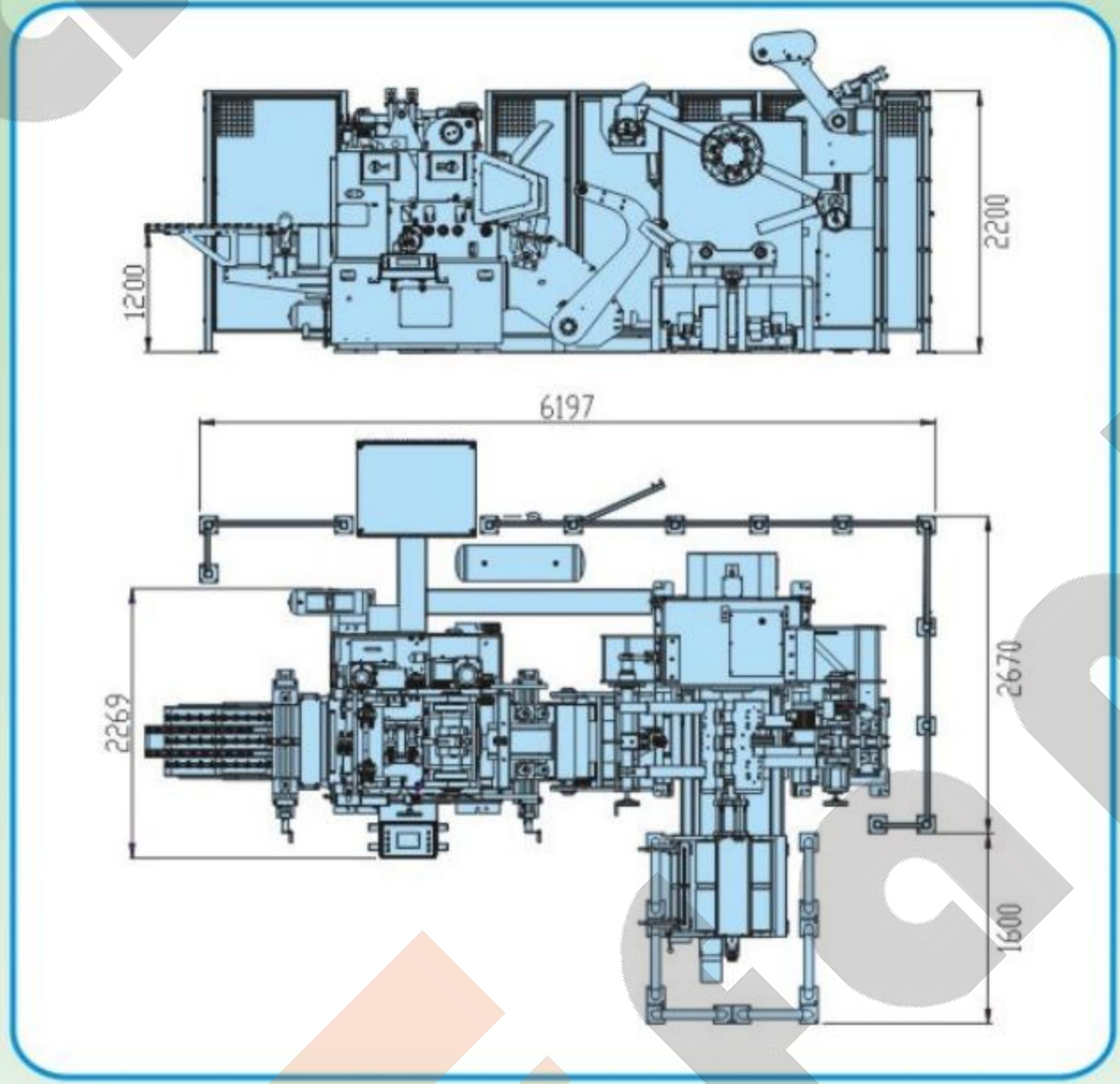
# DSF5

NC整平送料机

STRAIGHTENER FEEDER




## DSFJ5-600




## DSF5-600H

强力厚板专用 Thickness 0.8 ~ 9.0mm

### 规格: Specification

| 型号 | Model | DSF5-600H | DSF5-800H | DSF5-1000H | DSF5-1300H |
|---|---|---|---|---|---|
| 板副 | Stock widthl (mm) | 100~600 | 100~800 | 100~1000 | 100~1300 |
| 板厚 | Stock Thickness (mm) | 0.8~9.0 | 0.8~9.0 | 0.8~9.0 | 0.8~9.0 |
| 卷材重量 | Coil Weight(kg) | 5000 | 7000 | 10000 | 10000 |
| 卷材外径 | Max Coil O.D.(mm) | Φ1400 | Φ1400 | Φ1400 | Φ1400 |
| 卷材内径 | Coil I.D.(mm) | Φ508 | Φ508 | Φ508 | Φ508 |
| 最大送料长度 | Feed Length (mm) | 0~500 | 0~500 | 0~500 | 0~500 |
| 生产线速度 | Max Speed (m/min) | 22 | 22 | 22 | 22 |
| 工作滚轮 | Work Roll | 上Upper 5/下Lower4 | 上Upper 5/下Lower4 | 上Upper 5/下Lower4 | 上Upper 5/下Lower4 |
| 送料辊轮 | Feed Roll | 上Upper 1/下Lower1 | 上Upper 1/下Lower1 | 上Upper 1/下Lower1 | 上Upper 1/下Lower1 |
| 主电机 | Main Motor(kw) | AC22 | AC22 | AC30 | AC30 |
| 料架扩张方式 | Uncoil Expansion | 液压 Hydraulic | 液压 Hydraulic | 液压 Hydraulic | 液压 Hydraulic |
| 料架电机 | Uncoil Motor(kw) | 5.5 | 7.5 | 11 | 22 |
| 工作电源电压 | Power (V) | AC380/50HZ | AC380/50HZ | AC380/50HZ | AC380/50HZ |
| 工作空气压力 | Primary Air (Mpa) | 0.5 | 0.5 | 0.5 | 0.5 |

### 矫正能力表 Straigtening performance

<table>
<tr><th colspan="2">型号Model</th><th>DSF5-600H</th><th>DSF5-800H</th><th>DSF5-1000H</th><th>DSF5-1300H</th></tr>
<tr><td rowspan="15">板厚(mm)<br>Stock Thickness</td><td>0.8</td><td rowspan="10">600</td><td rowspan="9">800</td><td rowspan="8">1000</td><td rowspan="6">1300</td></tr>
<tr><td>1.4</td></tr>
<tr><td>1.6</td></tr>
<tr><td>1.8</td></tr>
<tr><td>2.0</td></tr>
<tr><td>2.3</td></tr>
<tr><td>2.8</td><td>1030</td></tr>
<tr><td>3.2</td><td>800</td></tr>
<tr><td>4.0</td><td>800</td><td>720</td></tr>
<tr><td>4.5</td><td>648</td><td>648</td><td>648</td></tr>
<tr><td>5.0</td><td>530</td><td>530</td><td>530</td><td>530</td></tr>
<tr><td>6.0</td><td>450</td><td>450</td><td>450</td><td>450</td></tr>
<tr><td>7.0</td><td>331</td><td>331</td><td>331</td><td>331</td></tr>
<tr><td>8.0</td><td>253</td><td>253</td><td>253</td><td>253</td></tr>
<tr><td>9.0</td><td>200</td><td>200</td><td>200</td><td>200</td></tr>
</table>

※上表中的降服点应力为245N/mm²
※The above figures are the material having yield strength of 245N/mm² max.

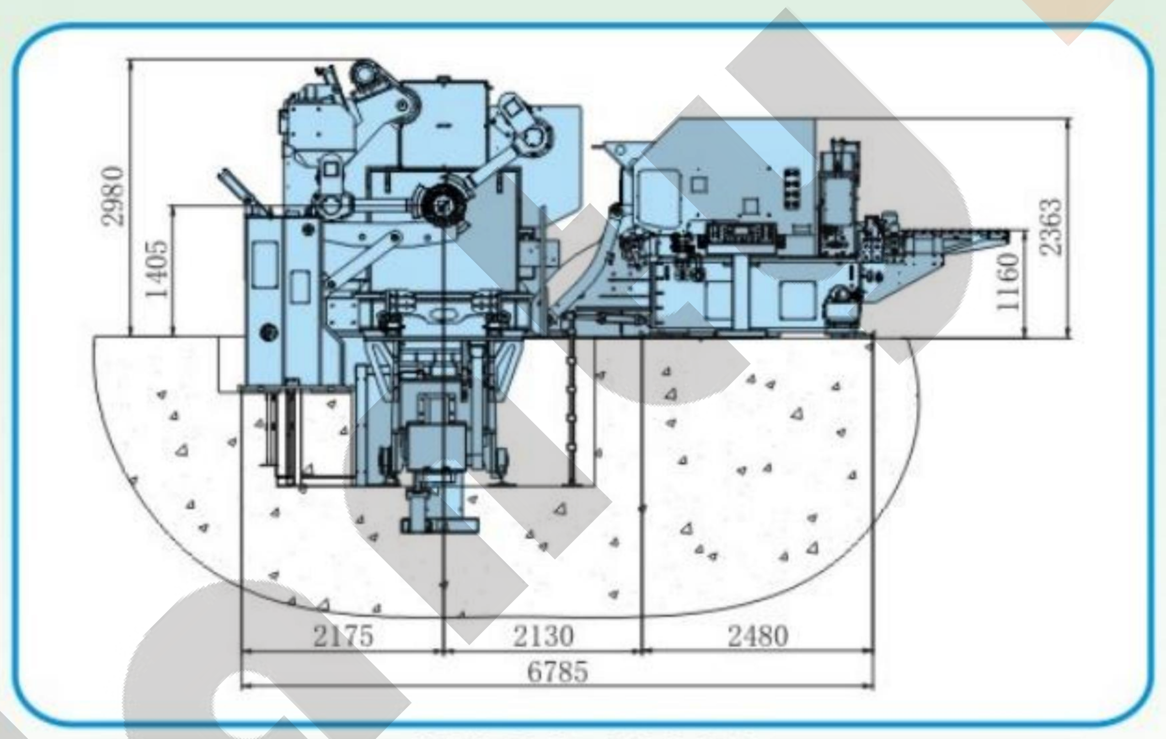
※规格及外观由于改进有可能在未通知时变化
※Specifications are subject to change for improvement without notice

## STRAIGHTENER FEEDER 整平送料机

# MAC6 Series

NC整平送料机

STRAIGHTENER FEEDER




**MAC6-1000F**

### ■ 规格: Specification

| 型号 | Model | MAC6-600H | MAC6-800H | MAC6-1000H |
|---|---|---|---|---|
| 板幅 | Stock width (mm) | 100~600 | 100~800 | 100~1000 |
| 板厚 | Stock Thickness (mm) | 2.0~12 | 2.0~12 | 2.0~12 |
| 卷材重量 | Coil Weight Max. (Max.)(kg) | 7000 | 7000 | 10000 |
| 卷材外径 | Coil O.D.Max.(mm) | Φ1400 | Φ1400 | Φ1400 |
| 卷材内径 | Coil I.D.(mm) | Φ508 | Φ508 | Φ508 |
| 最大送料长度 | Feed Length (mm) | 1~500 | 1~500 | 1~500 |
| 生产线速度 | Line Speed Max. (Max.)(m/分) | 16 | 16 | 16 |
| 工作滚轮(支) | Number of Work Rolls | 上Upper3/下Lower3 | 上Upper3/下Lower3 | 上Upper3/下Lower3 |
| 送料滚轮(组) | Number of Feed Rolls | 上Upper1/下Lower1 | 上Upper1/下Lower1 | 上Upper1/下Lower1 |
| 主电机 | Main Motor (kw) | AC22 | AC30 | AC37 |
| 料架扩充方式 | Mandrel Expansion | 液压 Hydraulic | 液压 Hydraulic | 液压 Hydraulic |
| 料架电机 | Reel Motor (kw) | 7.5 | 7.5 | 11 |
| 使用电源电压 | Power Supply (v) | AC380/50HZ | AC380/50HZ | AC380/50HZ |
| 使用空气压 | Operating Air (Mpa) | 0.5 | 0.5 | 0.5 |

※规格及外观由于改进有可能在未通知时变化
※Specifications are subject to change for improvement without notice

### ■ 矫正能力:Straigtening performance

| 型号Model | | MAC6-600H | MAC6-800H | MAC6-1000H |
|---|---|---|---|---|
| 板厚 (mm) Stock Thickness | 2.0~4.5 | 600 | 800 | 1000 |
| | 5 | | | |
| | 6 | | | 700 |
| | 7 | | 610 | 610 |
| | 8 | 480 | 480 | 480 |
| | 9 | 390 | 390 | 390 |
| | 10 | 320 | 320 | 320 |
| | 11 | 270 | 270 | 270 |
| | 12 | 200 | 200 | 200 |

※上表中的降服点应力为245N/mm² (拉伸强度为392N/mm²)
※The above figures are the material having yield strength of 245N/mm² (tensile strength of 392N/mm²).



# OTHERS

INFORMATION

## Control panel


设定模式
set mode

手动模式
Manual mode

自动模式
Automatic mode

维护模式
maintenance mode

从设定准备阶段到运转，保养所需要的资讯，由设定，准备，运转，保养 4 种基本模式来进行一元化管理。是搭载各种新技能，用以对应制品的多样化，高度化，缩短作业时间的综合作业系统。

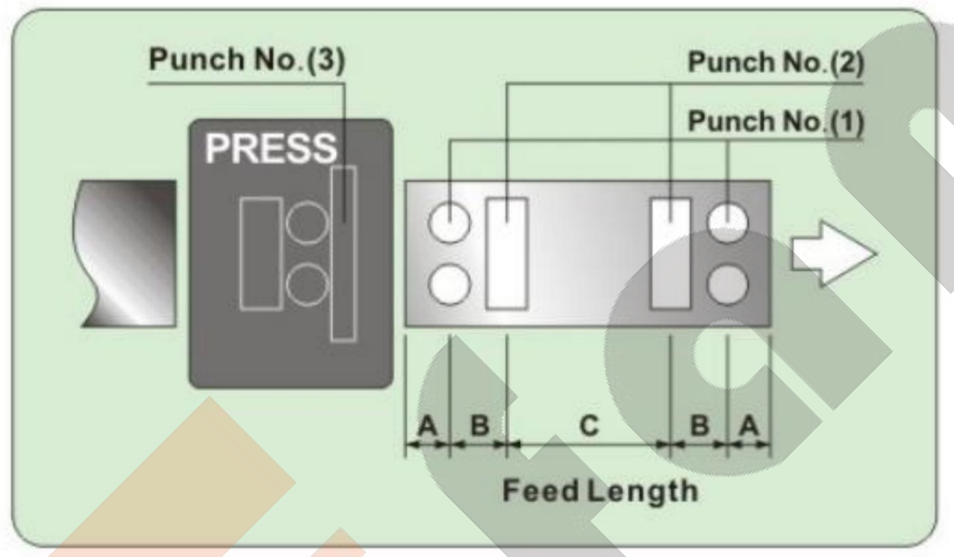
This control panel provided a total operation system for programs of setting, preparing, operation and maintenance, which designed to answer the industry's demand for advancement and diversification of coil handing with high level and efficiency.

## Information

### 复数式模具选择
### Programmable Punch Gaging

**合理化技术的投入使用，满足了冲压机多段送料的强烈需求。**

用户可设定每一段的送料长度、冲压次数、模具编号、加工条件等。1组最大可设 99段，至50组(总共)到500段)。复数冲压加工及送料机的设置操作越发简便。



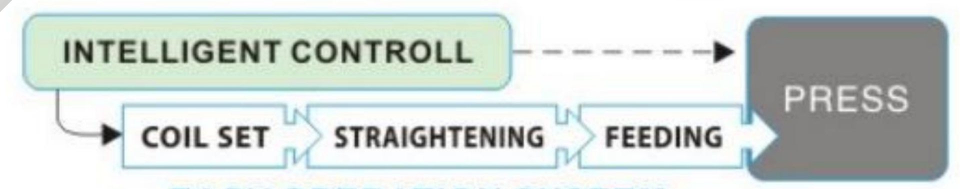

Provided to allow the user to program the feed length, press stroke number, die codes and status of press operation, This setting can be set for every procedure. Maximum of 99 programmed procedures can be used to produce a single part, up to 50parts.(Total programmed procedure can be 500.) Thus,the intricate press and feeder set-up operation becomes easier.

### 全自动化系统
### Fully Automated System

**送料装置采用高新技术，实现了从卷材设定到送料的全自动华运作。**

根据 "工序设定功能"，预先设定矫正量(采用 ASC 装置来自动调整矫正)量)、送料长度等参数，使卷材从设定到整平、送料一系列动作自动、精确运行。其简单、易用的特性大减轻了现场操作人员的负担。

The coil setting, straightening, and feeding of coiled material is fully automated by part number entry that has pre-set programmed parameters. This user friendly feature unburdens the operator and saves costly change-over time.

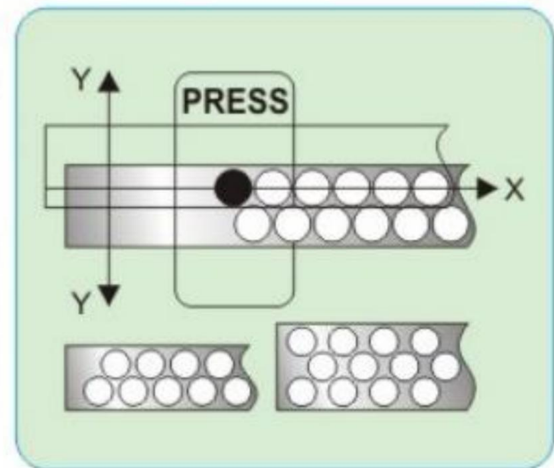



### 左右移动式送料 Zig-Zag Feed

**大幅度提高了成品率，降低材料成本**

该特制送料系统(选装)可移动送料装置进行左右移动式送料，达到废料最小化，降低材料成本。

This specialized feeding system shifts the feeder so nestong of blanks from a single die provides the user minimum scrap and maximum blank yield.

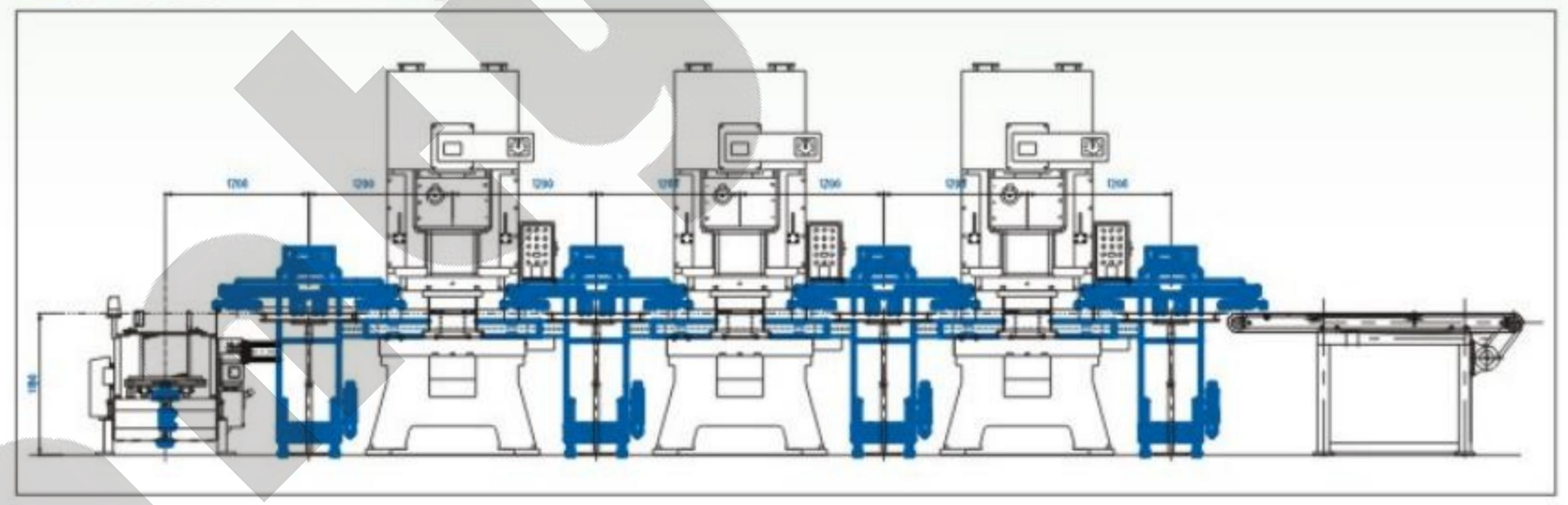


# RBT-2 SERVO
## 2轴伺服机械手
## Two axis Transfer

■ 技术规格：Specification

| 型　　号 | Model | | RBT-2 | RBT-2 |
|---|---|---|---|---|
| 送料行程 | Feed Length | (mm) | ~1200 | ~1500 |
| 升降幅度 | Up/Down Stroke | (mm) | ~100 | ~100 |
| 循环时间 | Cycle Time | (sec) | 1.7~ | 2.5~ |
| 最大工件重量 | Max. Workplece Weight | (kg) | 4.0×2 | 4.0×2 |
| 往返送料精度 | Repeatability | (mm) | ±0.3 | ±0.3 |
| 动力源驱动动力(伺服电机) | Motor Power | (kw) | 2.0进给(送料用) 2.0上下(上下用) | |
| 工件抓取方法 | Workpiece Pick Up | | 真空吸盘・电磁吸盘(Vacuum・Magnet) | |
| 主机重量 | Machine Weight | (kg) | 约400 | |

■ 参考图：Ref.Diagram



**具有极高的自由度，是冲床间材料搬运的新一代生力军。**

With extremely high degrees of freedom,
it is the main force for steel coil material transporting
in the punching machine workshop

二轴伺服电机驱动

**Two axis** servo motor drive

※规格及外观由于改进有可能在未通知时变化
※Specifications are subject to change for improvement without notice

# COIL MULTISTAGE COMPOUND PRODUCTION LINE

## 卷料多工位复合式生产线

### 主要特点:

※生产模式多样化
※料垛自动切换，可不停机
※移送横杆一键自动折装
※节省劳动力，降低成本
※提高生产郊率和产品质量的稳定性

### Main features:

※ Diversification of production mode
※ Material automatic switching with machine keep working.
※ Transfer bar exchange automatic by one key
※ Save labor, lower the cost
※ To improve the stability of production rate and product quality.

### 组成:

※开卷机构
※校平装置
※定尺送料
※数控涂油装置
※双工位拆垛机构
※三次元双横杆驱动机构
※多工位压力机
※冲压模具
※产品输出机构
※整线安全防护

### Constitute:

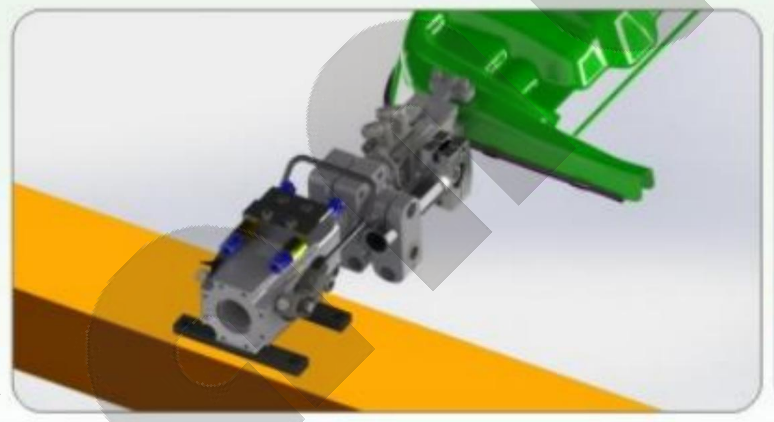
※ Uncoiling device
※ Leveling device
※ Sizing feed
※ Numerical control oiling device
※ Double station unstacking mechanism
※ Three dimensional double bar drive mechanism
※ Multiple position press
※ Die
※ Product output mechanism
※ Safety protection

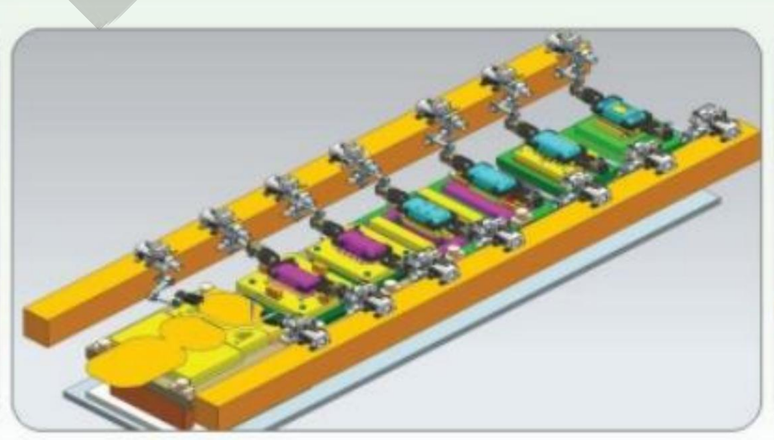
### 生产模式:

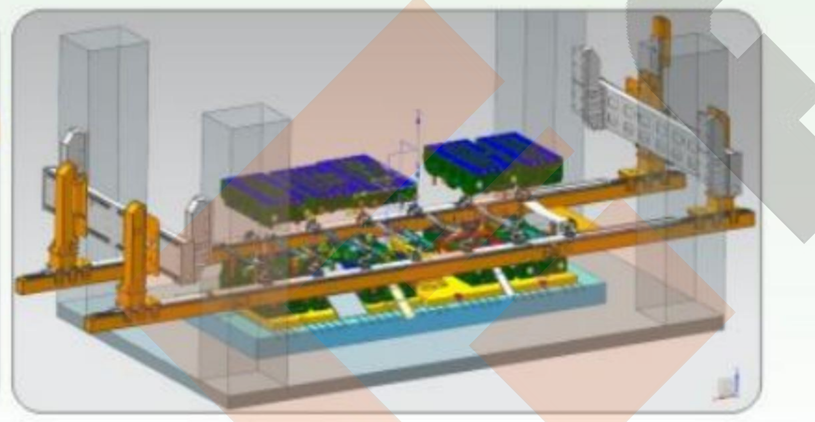
卷料: 开卷→校平→定尺送料→首工位落料冲压→双横杆顺序搬送冲压→产品输出
开卷→校平→定尺送料→级进模冲压→产品输出
片料: 双工位自动拆垛→双料检测→料片穿梭定位→双横杆顺序搬送冲压→产品输出

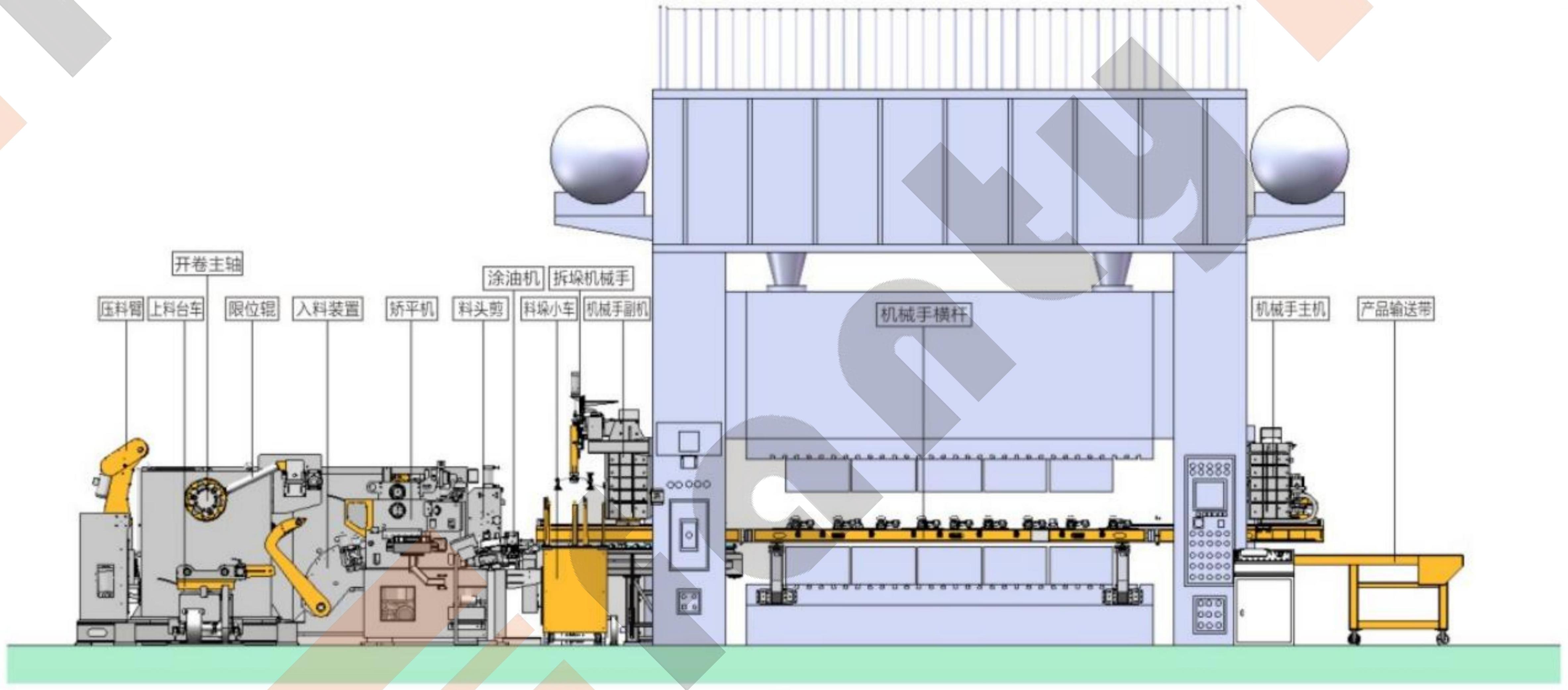
### Production Models:

Coil material: Uncoiling-leveling-sizing feed-first station blanking punching-double bar order transfer stamping-product output
Uncoiling-leveling-sizing feed-progressive die stamping-product output
Sheet material: Ouble station unstacking-double detection-shuttle positioning-double bar order transfer punching-product output







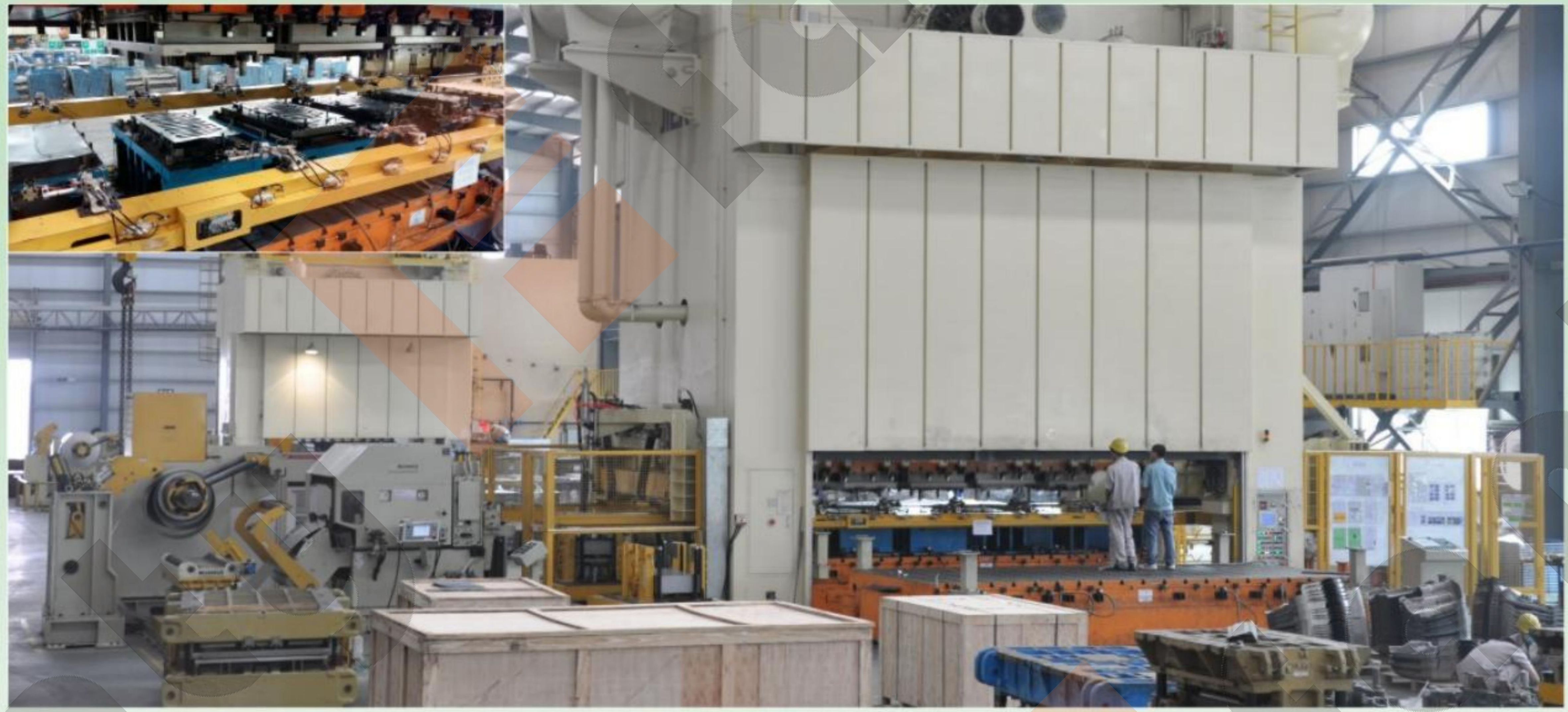





# 3DNC Three axis Transfer

## 卷料多工位复合式生产线

COIL MULTISTAGE COMPOUND PRODUCTION LINE



### ■ 规格: Specification

| 型号 | Model | 3DNC602015 | 3DNC905025 | 3DNC1205530 | 3DNC1508030 | 3DNC1509030 |
|---|---|---|---|---|---|---|
| 最大料片 | Max. sheet | 1000*400 | 1100*600 | 1100*1000 | 1600*1000 | 1800*1000 |
| 最小料片 | Min. sheet | 400*200 | 400*200 | 400*300 | 600*300 | 600*300 |
| 进给行程(X)(可编程) | Feed stroke | 600 | 900 | 1200 | 1500 | 1500 |
| 夹紧行程(Y)(单边可编程) | Clamp stroke | 200 | 500 | 550 | 800 | 900 |
| 举升行程(Z)(可编程) | Lift stroke | 150 | 250 | 300 | 300 | 300 |
| 生产节拍 | Production takt | 10-25 | 10-25 | 10-22 | 10-22 | 10-20 |
| 冲床吨位 | Tonnage of press | 800T | 1000T | 1200T | 1600T | 2500T |
| 冲床行程 | Press stroke | 600 | 600 | 800 | 800 | 800 |
| 侧开口宽度 | Side opening width | ≥2200 | ≥2300 | ≥2300 | ≥3200 | ≥3400 |