DRII Peripheral Equipment for Stamping Press Processing







Lineup

LCC 03KR5 (Width: 50 ~ 300 mm, Thickness: 0.3 ~ 3.2 mm) LCC 04KR5 (Width: 50 ~ 400 mm, Thickness: 0.3 ~ 3.2 mm)







LCC KR5 Series

LCC 03KR5 Width: 50 ~ 300 mm Thickness: 0.3 ~ 3.2 mm LCC 04KR5 Width: 50 ~ 400 mm Thickness: 0.3 ~ 3.2 mm

Productivity and Operability condensed into a Compact Straightener-Feeder!

Features

The latest ECO & SILENT release mechanism significantly reduces air consumption

Along with automatic pressure adjustment to match leveling, optimum control of the release stroke has three effects:



(compared to conventional equipment)

1. Air consumption reduced by up to 50%

- compared to conventional models with air release
- 2. Release noise reduced by approximately 3.5 dB
- 3. Up to **17% improvement** in release tracking performance (140 min⁻¹)



By inputting material specifications from the job number data setting screen, the release time will be automatically calculated and reflected. You can also enter the release time directly.

The Flattening ability of 11 work rolls contribute to high-precision processing

Eleven work rolls, consisting of six upper and five lower rolls, are employed. This improves the flatness of coiled material and supports highprecision stamping.





Lower part

Roll cleaning mechanism for easy maintenance

The straightener is designed to be open on both upper and lower sides. Roll cleaning can be done easily, contributing to stabilization of product processing and quality improvement. In addition, maintenance time can be reduced.



Simplified Analog Loop Control improves quality and saves on labor

Analog loop control ensures that the line speed and unwinding speed are at the same constant speed, preventing the uncoiler from stopping. This function reduces the amount of coil material that is unwound, thereby reducing flaws in the material and improving product quality. In addition, it facilitates midway replacement of coiled material, thereby reducing the operator's workload.





State-of-the-art CCS Control System with Touch Panel

All necessary information is centrally managed in eight basic modes, including manual operation, data setting, production monitoring, and maintenance. Equipped with various functions such as an energy-saving timer that can reduce power consumption, this total operation system responds to the diversification and sophistication of products and the reduction of work hours.

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Manual operation		_
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Menu Screen

The switching buttons for each screen have been consolidated:

- Job Number Data Setting / Edit Job Number
- Manual Operation
- Production Monitor / Production History
- Maintenance / User Parameters / Alarm History

Job Number Data Setting



300 job numbers can be registered

(up to 1000 can be added as an option)

It is possible to Edit, Copy, and Delete Job Number Data

Manual Operation



- Consolidates manual operations of uncoiler and straightenerfeeder parts
- Arrangement of operation buttons according to each part of the device

Production Monitor



- Display and selection of buttons necessary for automatic production
- Display showing the operational setting status of the feeder under automatic production

Maintenance



- View maintenance information, machine data, correction quantity table, error code list, etc.
- Backup and restore of job number data is possible using CSV data



Main dimensions



LCC03KR5 683 970 610

LCC**04**KR5 733 1020 660

Specifications

Model name		LCC03KR5	LCC04KR5
Stock width	mm	50 ~ 300	50 ~ 400
Stock thickness	mm	0.3 ~ 3.2	0.3 ~ 3.2
Max coil mass*	kg	2000 (2000)	2500 (2000)
Max coil outer diameter	mm	ø1200	ø1200
Coil inner diameter	mm	ø508	ø508
Feed length**	mm	~ 400	~ 400
Max line speed	m/min	~ 16	~ 16
Feed speed	m/sec	0.707	0.707
Work rolls (upper/lower)	Pieces	6 / 5	6 / 5
Mandrel expansion*		Manual (Pneumatic)	Manual (Pneumatic)
Power supply	V	3-phase AC200/220	3-phase AC200/220
Air pressure	MPa	0.5	0.5

* Pneumatic Mandrel Expansion is optional. Refer to coil mass in ().
** If the feed length exceeds the standard specifications, Master Control (optional)

** If the feed length exceeds the standard specifications, Master Control (option must be provided.

Before using those products, please read the operator's manual carefully and follow all applicable instructions.

- Use of this product requires safeguard measures to suit your work.

- Specifications, appearance, and equipment are subject to change without notice for improvement and other purposes.

- Photos may include options.

- The specifications described in this catalogue are for the Japanese market. Please ask your sales person for details.

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Feed speed diagram



Special accessories (optional)

• Multi-stage die

Feed angle selector

operation switch

Special paint

Continuous/alternating

selection

switch

- High-speed spec
- Handwheel adjustment for stock
- guide
- Lubrication system
- Hard chrome plated rolls
- Double head uncoiler

*Scheduled for availability January 2025

Straightening performance

Stock thickness mm	Stock width mm			
	LCC03KR5	LCC04KR5		
0.3 ~ 1.2	300	400		
1.4	300	360		
1.6	300	300		
1.8	300	260		
2.0	270	220		
2.3	230	190		
2.5	190	170		
2.8	150	150		
3.0	130	130		
3.2	110	110		

The table above shows the case where the yield point of the material is 245 MPa. The corrective ability values are the same for both standard and high speed.

