

Isolation of Safety Critical Functions  
on our Machines and Equipment are  
Engineered in Accordance with the  
Relevant Standards



ABN: 81 113 707 092

HAZARD ANALYSIS + SAFETY FUNCTION + RISK  
ASSESSMENT = SAFETY INTEGRITY.

THINK SAFE, WORK SAFE - BE SAFE

YOU CAN DEPEND ON OUR RISK BASED  
APPROACH TO ACHIEVE HIGHER LEVELS OF  
SAFETY.

## Uncoiler Straightener Servo Feeder

### Light Duty 3 in 1

### USF-LD

- » Coil Width - 300/400/500/600mm
- » Coil Thickness - 0.3 ~ 3.2mm
- » Coil Weight - 3 Ton



Series	USF-LD series			
Coil Width (mm)	30 ~ 300	10 ~ 400	10 ~ 500	10 ~ 600
Coil Thickness (mm)	0.3 ~ 3.2			
Coil I.D. (mm)	ø508			
Coil O.D. (mm)	ø1200			
Coil Weight (kg)	3000			
Coil Expansion Range	480-520			
Mandrel Expansion	Hydraulic Operation			
Feeding roll (pcs)	2			
Straightening Roll (pcs)	10			
Feed Speed (M/min)	16			
Feeding Motor	AC Servo			
Uncoiler Motor	AC Motor			
Speed Adjustment	Inverter			
Mandrel Brake	Air Disc Brake			
Hold Down Arm/Hold Up Arm	Air Operated			
Pilot Release	Yes			
Air Pressure (kg/cm <sup>2</sup> )	5			
Coil Keeper (pc)	4			
Loop control	Dancing arm			

All specifications, dimensions and design characteristics shown are subject to change without notice.

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# Uncoiler Straightener Servo Feeder

## Light Duty 3 in 1

### USF-LD

#### Feeder & Straightener Features:

- » AC Servo drive-digital control.
- » Centralized controls for uncoiler and feeder.
- » Provides accurate and smooth feeding to the press.
- » Adjustable dual roll material entrance guides.
- » Material entrance supported by 3 rollers.
- » Single roll exit guides.
- » Pivoting type feeder-straightening head for pilot operations.
- » Cluster gear driven straightening rollers.
- » 7 straightening rollers for optimum straightening performance.
- » Full width upper and lower feed rollers.
- » Pinch & straightening rollers are all hard chrome finished.
- » Upper straightener roll height scales and indicators.
- » Over-rated specifications and generous roll diameters.
- » Remote jog handset for material feeding when setting up.
- » Heavy duty platform with  $\pm 7.50\text{mm}$  of height adjustment.



#### Uncoiler Features:

- » AC Variable speed drive-digital control.
- » Heavy duty back plate.
- » Air operated coil hold down snubber arm.
- » Disc calliper mandrel brake.
- » Material width scales on mandrel pads.
- » 4 heavy duty coil keepers.



#### Other features:

- » Compact design saves floor space.
- » Rigid design and structure enhances reliability.
- » 3 in 1 on this single platform provides a reliable and free flowing synchronized turn key system giving you a competitive edge.
- » End of material run out device.
- » Sensor beam loop control
- » Feed line easily adjusted via synchronized worm gear mechanism.
- » Sealed bearings used throughout.

#### OPTIONS

- » Coil Car
- » Stand alone control panel
- » Synthetic Rubber Coated Rollers

#### STRAIGHTENING PERFORMANCE

Series	USF-LD series			
Coil Thickness (mm)	Maximum Coil Width (mm)			
0.3 ~ 1.8	300	400	500	600
2.0	300	310	310	310
2.3	230	230	230	230
2.8	160	160	160	160
3.2	135	135	135	135

The above figures are for the material having tensile strength 40 kgf/mm<sup>2</sup> max

#### PERFORMANCE SPECIFICATIONS

Feed Length (mm)	SPM at 180°	SPM at 240°
100	64	96
200	47	71
300	39	60
400	34	52
500	30	46

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