

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.

## **Cradle Uncoiler Straightener Servo Feeder** **Medium Duty 3 in 1** **CUSF-MD series**

The CUSF-MD cradle 3 in 1 is an extremely compact unit that combines the three functions of uncoiling, straightening and feeding of coil on a single platform. The key benefit is a drastic reduction in space used on your factory floor, but with no compromise in processing speed, reliability and overall performance, giving you a competitive edge.

The system is single unit, using a cradle to hold the coil, which maximises rigidity during feeding. The combined straightener/feeder unit eliminates the need for an excessive slack loop area or loop pit. This can provide a savings of up to 3 metres for a similar conventional line.

The CUSF-MD cradle 3 in 1 has been designed and built for precision coil feeding into metal stamping presses. An AC inverter drive and motor drives the mandrel. A closed loop digital servo drive and motor drives the straightener/feeder unit.



MODELS	CUSF series	
Coil Thickness (mm)	0.8 ~ 3.2	1.0 ~ 4.5
Coil Width (mm)	50 ~ 200	50 ~ 250
O.D. of coil (mm)	1200	
Coil Weight (Kg)	1000	2000
Pinch Rollers	2	
Feed rollers	2	
Straightening rollers	Upper 3 - Lower 4	Upper 4 - Lower 5
Max Feed Length (mm)	250	300
Feed drive servo motor (Kw)	2.0	5.5
Pinch Roller Motor (Kw)	0.75	1.5
Air pressure (KPa)	490	

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

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# **Cradle Uncoiler Straightener Servo Feeder**

## **Medium Duty 3 in 1**

### **CUSF-MD series**

#### **Feeder & Straightener Features:**

- » AC Servo drive-digital control.
- » Provides accurate and smooth feeding to the Press.
- » Dual roll material entrance guides.
- » Single roll exit guides.
- » Heavy-duty platform with  $\pm 50$ mm of height adjustment.
- » Cluster gear driven straightening rollers.
- » 7 straightening rollers for optimum straightening performance.
- » Full width upper and lower feed rollers.
- » Complete "hands-free" threading operation.
- » The rollers are manufactured from high rigidity SUJ2 material, stress relieved, heat-treated for deep hardness.
- » All rollers are hard-chrome plated for maximum wear resistance.
- » Upper straightener roll height scales and indicators.
- » Over-rated specifications and generous roll diameters.

#### **Uncoiler Features:**

- » Motorised pinch rollers with loop detection control.
- » Adjustable side plates ensure coil stability during uncoiling.
- » Hydraulic strip hold down arm to assist feed to straightener

#### **Overall Features:**

- » Centralised controls for Uncoiler and Feeder provide operators with a single point of control.
- » Mitsubishi PLC Controller Interface.
- » Compact design saves floor space.
- » Manufactured with heavy-duty structural steels to provide a rigid design and structure that enhances reliability.
- » End of material run out device.
- » Feed line easily adjusted via synchronised worm gear mechanism.
- » Quality Japanese bearings are used throughout.
- » All gears are quenched and precision assembled.
- » Manual feed height adjustment.

#### **STRAIGHTENING PERFORMANCE**

Series	CUSF series	
Coil Thickness (mm)	Maximum Coil Width (mm)	
0.8 ~ 2.3	200	250
3.2	90	210
4.5	-	120

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

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