

# Technical Specification

## *ECL-3x1500* *Cut-to-Length Line*

Jinan Eagle CNC Machine Co., Ltd

(JEM)

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## 1 General specification

### 1.1 Input Material

- I Stainless steel coil, etc
- I Thickness: 0.5mm to 3.0mm (300 and 400 series Stainless steel)
- I Width: 600mm to 1500mm
- I Coil ID: 508mm/610mm
- I Coil OD: 1500mm
- I Coil weight: 10MT Max

### 1.2 Performances

- I Sheets length: 3000mm
- I Tolerances:  $\pm 0.5$ mm/m
- I Diagonal difference:  $\pm 0.5$ mm/m

### 1.3 Line speed: 6 to 8 pcs/min (in 2000mm long)

### 1.4 Overall

- I Power Supply: AC/380V/50Hz x 3 phase
- I Total Power: abt. 45kW
- I Line Direction: From to
- I Painting Color: as required

## 2 Line configuration and specification

### 2.1 Line configuration

- I Uncoiler
- I Side guide
- I Leveler and Servo feed roll
- I Shear
- I Transfer conveyor
- I Hydraulic system
- I Electrical control

### 2.2 Uncoiler

- I Single head cantilever type
- I AC motor drive with air clutch
- I Hydraulic expansion/collapse Dia. from  $\Phi 465$ mm to  $\Phi 515$ mm
- I Expansion cylinder  $\Phi 150 \times 145$ mm
- I Air brake for tension and brake
- I Hold down roll
- I Swing arc arm

### 2.3 Side guide

- I Roll type side guide
- I Hand wheel - screw adjustment

### 2.4 Leveler and Servo feed roll

- I 5(or7) straightening rolls, 3 up and 2 down
- I Motorized screw-jack raise and lower



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- I One pairs of feed roll
- I Material: 42CrMo, chrome coated
- I Servo motor drive 13.2kw
- 2.5 Shear
  - I Electric motor drive, with air cluck, downwards stroke
  - I Quick knife clearance adjustment by hand-wheel
  - I Knife Clearance display by micrometer
  - I AC motor 11kw
- 2.6 Transfer Conveyor
  - I AC Motor driven
  - I Inverter speed regulating
- 2.7 Hydraulic system
  - I Motor power 5.5KW
  - I Cooling unit installed
  - I Level sensor and alarm
  - I Max pressure 10Mpa
  - I Yuken, hydraulic components
- 2.8 Electrical control
  - I Central PLC control with several operation panels distributed.
  - I With intelligent monitoring of line running status. Alarms when error occurs and display messages on the screen
  - I All major parts are of MITSUBISHI or other high quality brands

### 3 Main parts supplier

	Item	Supplier	Note
Mechanical	Bearings	WaFangdia, China	
	Gears/Reducers	Guomao, China	
	AC Motors	WN, China	
Hydraulics	Pump	YUKEN	
	Valves	YUKEN	
Electrical	PLC	MITSUBISHI	
	HMI	WINVIEW	
	Inverter	MITSUBISHI	
	Servo Drive	LENZE	

### 4 Required Utilities

- I Power supply: 3ph AC380V 50Hz w/ PE. Capacity > 50kVA
- I Compressed Air: pressure 0.5~0.7Mpa



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## 5 Responsibility of both Parties

### 5.1 Responsibility of the seller

- I Deign of the equipment
- I Design of the foundation drawing
- I Supply the required utilities information to customer
- I Machining, assembling, testing of the equipment
- I Packaging, transporting the machine to customer
- I Supervision of machine erection
- I Line commissioning
- I Training works
- I Technical service

### 5.2 Responsibility of the buyer

- I Determining the direction of the line.
- I Foundation construction
- I Preparation of required utilities (Power supply, Air etc)
- I Preparation of hydraulic oil and lubricating oil
- I Preparation of equipments and tools used for installation and maintenance
- I Preparation of tools and materials used for commissioning
- I Help machine installation
- I Attending sellers training course, Learn and master the operation and maintenance of the line



## 6 Quotation

**6.1 FOB Qingdao price: USD \$ 125,000.00**

**6.2 Installation & Commissioning Charge:**

I Round-trip international airfare + accommodation fare

I Three people travelling fee: USD70 / person / day. (For about 3 weeks)

Notes: This price covers all the equipments mentioned in section 2, as well as accessories for installation (anchor bolts, shims).

**6.3 Payments : 30% Deposit, 70% before shipment**

**6.4 Delivery Time: in 165days (It needs about one 40' containers.)**

**6.5 Valid period: 30 days**

**6.6 Warranty: 12 months**



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