



**AMC MACHINERY**

## LOW SPEED EDGE BOARD PROTECTOR LINE

Model ZHJ-I20D



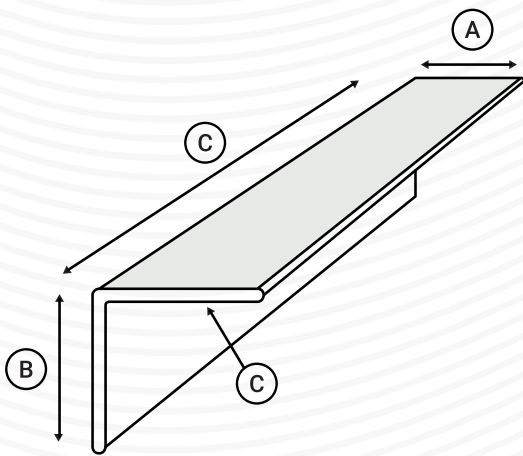


Edge Board Protectors are made of multiple plies of recycled paper laminated together and formed into a rigid right angle. The Protectors are precisely cut to length. Edge Board Protectors improve tension transmission of strapping and afford product edge protection from strapping damage.

The Edge Board Protector is a packaging accessory that is used as a reinforcement to improve load resistance against vibrations and tension, reduce product damage, higher strap tension, more secure loads, enhances the stacking strength of palletized goods, prevent surface scratches, repels and absorbs corner damage.

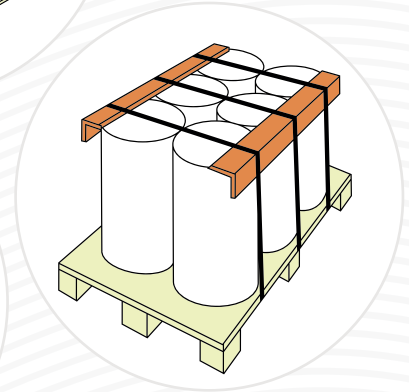
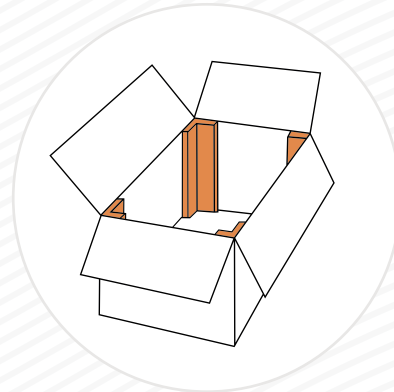
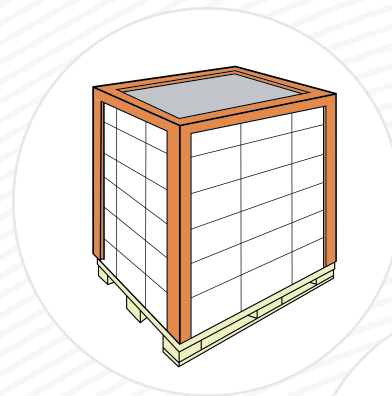
Edge Board Protector is an excellent replacement for wood packaging, can be sized to serve any size load or container, ideal for applications requiring internal support, serves a variety of packaging functions, including edge protection, unitization, load stability, beam strength and stacking strength.

Edge Board Protector sizes are based on the following dimensions.



Code	Description
A	Leg Length One
B	Leg Length Two
C	Caliper
D	Length

Edge Board Protector are made from 100% recycled materials and are 100% recyclable.



*The perfect edge to protect your product line.*

## CHARACTERISTICS

- 1.- Low Speed Edge Board Protector Line ZHJ-120D maximum working speed is 40 m/minute.
- 2.- Touch screen and servo system for enabling user friendly operations
- 3.- Equipped with a unique and advanced technology
- 4.- Stringently tested on various standard quality parameters, like functioning, efficiency and maintenance.
- 5.- Cascade type gluing unit.
- 6.- Automatic counter for calculating production.
- 7.- Single Flexo Printer and 90° Angle Cutting Unit as additional options.



## SPECIFICATIONS

LOW SPEED EDGE BOARD PROTECTOR LINE Model ZHJ-120D			
<b>Electrical Requirements</b>		<b>Product</b>	Edge Board Protector Line
		<b>Brand</b>	AMC
<b>Voltage</b>	220/380/440 V+/- 5%	<b>Model</b>	ZHJ-120D
<b>Phase</b>	3PH + PE	<b>Origin</b>	China
<b>Frequency</b>	50/60 Hz	<b>Application</b>	Cardboard Corner Manufacturing
<b>Operating Conditions</b>		<b>Dimensions</b>	
<b>Operating Temperature (°C)</b>	10 - 50°C	<b>Length</b>	32000 mm
<b>Operating temperature Maximum (°C)</b>	50°C	<b>Width</b>	2500 mm
<b>Ambient Temperature Installation (°C)</b>	Min. 10°C Max. 50°C	<b>Height</b>	2600 mm
<b>Relative Moisture</b>	Min. 45% Max. 75%	<b>Weight</b>	4770 Kg
<b>Altitude (m)</b>	100m Above Sea Level	<b>Required Floor Area</b>  35,000 x 4000 mm	
Technical specifications			
<b>Working speed</b>	Max. 40m/min		
<b>Edge Protector Length</b>	<b>Speed</b>	<b>Length Min.</b>	<b>Length Max.</b>
	40m/min	1000 mm	No. Limit
	30m/min	800 mm	No. Limit
	25m/min	600 mm	No. Limit
	20m/min	500 mm	No. Limit
	12m/min	50 mm	No. Limit
<b>Edge Protector Size</b>	Min. Size: 30 mm Subject to the following restrictions: 1) Edge Board Thickness NO GREATER than 4 mm 2) Speed NO GREATER than 20 m/min		
	Max. Size: 80 mm Subject to the following restrictions: 1) Edge Board Thickness NO GREATER than 3 mm 2) Speed NO GREATER than 25 m/min  COULD BE SYMMETRICAL AND ASYMMETRICAL		



<b>Edge Protector Thickness</b>	<p>Min. Thickness: 2.5 mm Subject to the following restrictions: 1) Edge Board Size NO GREATER than 80 mm 2) Speed NO GREATER than 20 m/min</p> <p>Max. Thickness: 8 mm Subject to the following restrictions: 1) Edge Board Size NO GREATER than 70 mm 2) Speed NO GREATER than 20 m/min</p>												
<b>Edge Protector Angle</b>	<table border="1"><thead><tr><th>Speed</th><th>Angle</th></tr></thead><tbody><tr><td>40m/min</td><td>110° - 120°</td></tr><tr><td>30m/min</td><td>95° - 110°</td></tr><tr><td>25m/min</td><td>85° - 90°</td></tr><tr><td>20m/min</td><td>85° - 90°</td></tr><tr><td>12m/min</td><td>85°</td></tr></tbody></table> <p>Above information tested with edge board size 50x50x5mm</p>	Speed	Angle	40m/min	110° - 120°	30m/min	95° - 110°	25m/min	85° - 90°	20m/min	85° - 90°	12m/min	85°
Speed	Angle												
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25m/min	85° - 90°												
20m/min	85° - 90°												
12m/min	85°												
<b>in-line Printer</b>	<p>Edge Protector Size 25 - 110 mm Flexo Single Color Printing Diameter of Printing Cylinder 180 mm</p>												
<b>Inner Paper Grammage</b>	<p>400-500 g/m<sup>2</sup> Recycled Paper Paper Surface should be rough</p>												
<b>Surface Paper Grammage</b>	<p>140 - 250 g/m<sup>2</sup> Kraft</p>												
<b>Core Diameter of Paper Reel</b>	<p>3" (76 mm) (Customizable)</p>												
<b>Glue</b>	<p>Content 1: Kaolin (Al<sub>2</sub>O<sub>3</sub>·2SiO<sub>2</sub>·2H<sub>2</sub>O) Content 2: Polyethylene (PE) (C<sub>2</sub>H<sub>4</sub>)<sub>n</sub> The solid percent is 15%-25%.</p>												
<b>Paper Roll Diameter</b>	<p>1500 mm (As a Maximum)</p>												
<b>Layers</b>	<p>3-13</p>												
<b>Compressor Air Requirement</b>	<p>0.8MPa/0.2m<sup>3</sup></p>												



# MODULES

## *Inline Flexo Printer (Optional)*

The inline printer is designed for single color printing only, simple structure make it easy to operate.



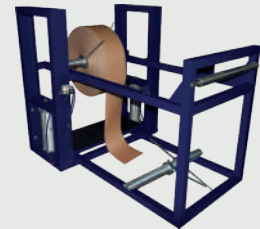
## *Inner Paper Roll Stand*

Used for holding inner paper rolls, replace the paper rolls with an electric hoist to help load paper in order to reduce work intensity.



## *Surface Paper Stand*

Is an independent paper stand, used for holding the surface layer paper roll for making the edge board protector.



## *Gluing Unit*

Cascade type gluing system, with automatic feeding by diaphragm pump, electrical heating with temperature control system, to ensures glue good quality even in low temperature.



## *Combination Stand*

Each layer paper will pass through this combination stand, so that can make sure all layers will be laminated well.



## *Forming Unit*

The control of all system is done in this unit, working speed, edge board protector length, production quantity, etc.



## *Cutter Unit*

Cutting unit is controlled by servo motor, so it can control cutting accuracy on the edge board protector.



## *90° Angle Cutter (Optional)*

This unit can punch dies into the edge board to make it 90° fold.



## *Transmitting Table*

The transmitting table transports the previously cut edge board to the stacking table.





### Counter Stacker

The stacking stand will collect the edge board after cutting off.



*The edge protector is a packaging accessory that is used as a reinforcement to improve load resistance against vibrations and tension caused by adhesive hoops or different types of belts, evening force distribution.*

## APPLICATIONS

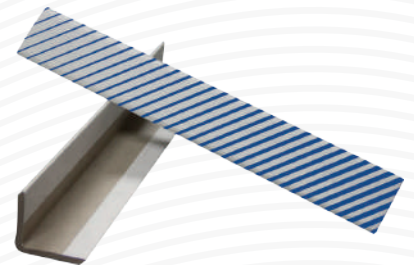
### Kraft Edge Board



### WhiteEdge Board



### Printed Edge Board



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