

# AEM-1650VQ

Lead edge feeding automatic flatbed die cutting machine  
with waste stripping

## TECHNICAL INSTRUCTION



## Features

- ★ Complete design, accurate installation, high stability, high security, low noise.
- ★ High strength gripper, advanced gripper device can apply all kinds of corrugated paper. Positioning device ensure the cutting precision.
- ★ Worm, worm gear and special designed crankshaft connecting device is linked by bearing bush, reduce the movement clearance, avoid impact between worm and worm gear. Run steadily, high cutting pressure. It has a function of high point pressure hold. Worm gear is made of high wear-resisting aluminum bronze, it has long durability.
- ★ Non-stop feeding and delivery device can shorten the auxiliary time, improve the efficiency.
- ★ Adopt advance cam mechanism, pressure adjusting device, pneumatic die locking, pneumatic sampling, overload protection device. Adopt imported high precision chain, imported pneumatic clutch.
- ★ Adopt lead edge feeding, apply secondary positioning mechanism, lower the requirement about paper. During the process, keep the workers hands far away from the cutting section, ensure the safety.
- ★ Pneumatic die locking mechanism makes changing of die, makeready more convenient, die frame fix firmer, more accurate, time saving.
- ★ Programmable controller and man-machine interface. Digital display the working speed, processing umber, total running time. The display of trouble

makes trouble shooting more convenient. Automatic control and real time monitor feeding, cutting and delivery parts, cooperate with the safety device in each part. Make the operation more reliable, machine adjustment and trouble shooting more convenient.

★ High precision intermittent mechanism, high cutting precision, running steadily.

★ Automatic paper delivery, arranging device makes delivery more convenient and neat.

★ Floating function of cutting die plate make inserting and pulling out the plate more convenient

★ Double sheet, crooked sheet, empty sheet optoelectronic detecting device, ensure the paper in the right position, reduce waste.

★ Electronic control module design, adopt imported electronic components, ensure the accuracy and reliability.

★ Cycling cooling oil supply system ensure the movement parts get adequately lubricated to ensure the durability.

★ Imported pneumatic clutch, joint and withdraw conveniently, with small brake angle, it can transmit high torque.

★ Front and rear cutting pressure can be adjust separately, manual wheel makes it convenient.

★ Adopt fixed quantity at fixed timing oil supply system, ensure the movement parts get adequately lubricated to let better durability.

★ 3 waste stripping frames work together, human-friendly design, easy to install and uninstall the waste stripping plate.

★ Automatic waste stripping device can remove the waste easily.

★ Full side stripping is optional.

★ Non-stop delivery conveyor is optional.

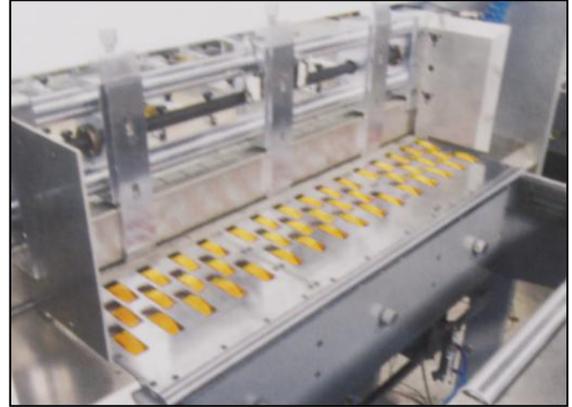
## Main technical parameters

Max paper size:	1670 x 1210 mm
Min paper size:	520 x 460 mm
Max cutting size:	1650 x 1200 mm
Cutting precision:	$\leq \pm 0.25$ mm
Max cutting pressure:	300 N/cm <sup>2</sup>
Max cutting speed:	4500 s/h
Delivery stack height:	1300 mm
Application:	
White board:	250 ~ 2000
g/m <sup>2</sup>	
Corrugated paper:	< 8 mm
Main motor power	15 KW
Total power:	18.5 KW
AEM-1650VQ dimension:	8700 x 2600(+2300)x 2400 mm
AEM-1650VQ weight:	27 T

## Standard configuration

### Feeding section:

- ★ Lead edge feeding system, automatic paper feeding.
- ★ 2 side lay on both side.
- ★ Feeding system fine tuning device, non-stop adjust.
- ★ Electronic double detector.
- ★ Wear-resisting PU feeding wheel.
- ★ Feeding timing fine tuning device.
- ★ Adjustable rubber wheel and brush wheel ensure paper fed to the right position.
- ★ Front lay detector ensure the paper fed to the right position.
- ★ Adopt double side lay to meet the requirement of different printing register.



## Standard configuration

### Host machine section:

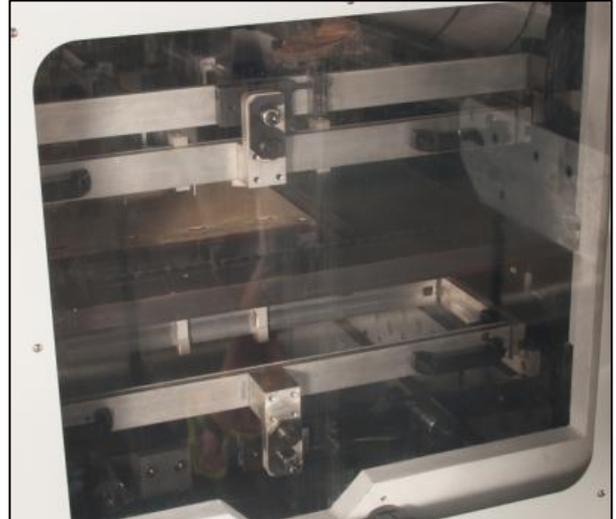
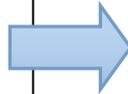
- ★ Pressure-bearing part is made of high ductile iron QT500, high strength, never deform.
- ★ Alloy crankshaft with special process treatment.
- ★ Wear resisting worm, worm gear.
- ★ Convenient die flipping device.
- ★ Cycling lubrication oil supply system with high pressure oil pump from Taiwan
- ★ High precision interval mechanism.
- ★ Pneumatic brake clutch device from Italy
- ★ Japanese SMC rotary joint.
- ★ Import gripper bar chain.
- ★ Pneumatic die locking device.
- ★ High hardness, strength Ti-Al alloy gripper.
- ★ Precise pressure adjust device.
- ★ PLC and man-machine interface from Taiwan.



## Standard configuration

### Waste stripping section:

- ★ High strength Ti-Al waste stripping frame.
- ★ Light waste stripping needle.



### Delivery section:

- ★ Automatic arrange device, 2 blowing devices ensure all the paper could be well collected whether thin or thick.
- ★ Delivery section with control panel, more human-friendly.
- ★ Optoelectronic sensor ensure better delivery.
- ★ Automatic delivery board control system.
- ★ Manual delivery device
- ★ Main chain protection device
- ★ Rolling back preventing device



## Configuration list

<b>No</b>	<b>Name</b>	<b>Brand</b>	<b>Origin</b>	<b>No</b>	<b>Name</b>	<b>Brand</b>	<b>Origin</b>
1	Shell, main structure	QT500-7 DUCTILE IRON	China	14	Linear guide rail	HIWIN	Taiwan
2	Die cutting plate	75CR1ALLOY STEEL	China	15	Fastener	GEM-YEAR	Taiwan
3	Worm, Worm gear	XINGTANG	China	16	Invertor	PANASONIC	Japan
4	Crankshaft material	NI-CR-MO ALLOY	China	17	HMI	TAISEE	Taiwan
5	Gripper bar	ALUMINUM ALLOY	Taiwan	18	Sensor	PANASONIC	Japan
6	Gripper	IMPORTED MANGANESE STEEL	Taiwan	19	PLC controller	FATEK	Taiwan
7	Cam box	Handex	Taiwan	20	Encoder	Kubler	Germany
8	Main transmission chain	TYC	Taiwan	21	Proximity switch	Fotek	Taiwan
9	Rotary joint	SMC	Japan	22	Relay	SCHNEIDER	France
10	Pneumatic solenoid valve	AIRTAC	Taiwan	23	Optoelectronic switch	PANASONIC	Japan
11	Main motor	TECO	Taiwan	24	Button	SCHNEIDER	France
12	Delivery lift motor	DUNGLEE	Taiwan	25	AC contactor	SCHNEIDER	France
13	Bearing	NSK	Japan	26	Circuit breaker	SCHNEIDER	France