



**AMC MACHINERY**

# PAPER TUBE PRODUCTION LINE

Model TSJG





# SPIRAL WOUND TUBES AND CORES

Paper tubes and cores, also called spiral-wound paper cores and fiberboard cores, are used for many applications, toilet paper rolls, tape and label cores, mailing and shipping tubes, carpet rolls, etc. If it's brown and round, it's a tube or a core. A paper tube is something we use to put product inside of, its protection. A paper core is something we use to wind material onto like tape, labels, fabric, etc.

Paper tubes and cores are manufactured to fit specifications, such as inside diameter, wall thickness, length, quantity, etc. AMC Paper Tube Production Line is available in different models, to produce the appropriate tube or core exactly for your needs and specifications, with diameters from 18 mm up to 600 mm and wall thickness from 2 to over 30 mm.

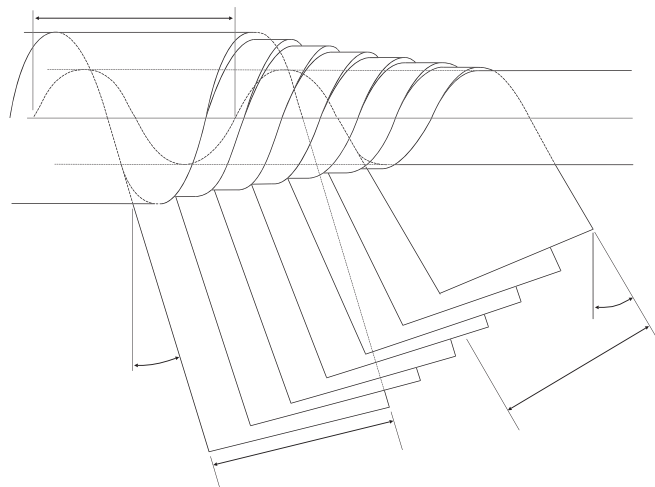


Figure: Tube Making

## CHARACTERISTICS

Code	Inner Diameter
TSJG-60	20-60 mm
TSJG-100	30-100 mm
TSJG-200	30-200 mm
TSJG-350	50-350 mm
TSJG-500	50-500 mm
TSJG-600	300-600 mm

Paper tubes and cores are made of multiple plies of recycled paper laminated together and precisely cut to length.



Paper Tubes and Cores are made of 100% recycled paperboard.

- 1.- Paper Tube Production Line TSJG is incorporated with a PLC control panel for enabling user friendly operations.
- 2.- Frequency converter control the main motor.
- 3.- Cutting length is controlled by sensor.
- 4.- Cutting speed is controlled by air valve.
- 5.- Spiral Winder with 2 Heads and 4 Heads.
- 6.- The main beam es made of cast iron and through ageing-treatment, it is durable and no deformable.
- 7.- Equipped with a unique and advanced technology.
- 8.- Ensure consistent and continuous production.
- 9.- Stringently tested on various standard quality parameters, like functioning, efficiency and maintenance.
- 10.- Paper Roll lifting system with electric hoist to save labor.
- 11.- Cascade type gluing unit.



# SPECIFICATIONS

<i>Paper Tube Production Line Model TSJG</i>						
<i>Specifications</i>	<i>TSJG-60</i>	<i>TSJG-100</i>	<i>TSJG-200</i>	<i>TSJG-350</i>	<i>TSJG-500</i>	<i>TSJG-600</i>
<b>Inner Diameter of Paper Tube</b>	18-76mm	30-100mm	30-200mm	50-350mm	40-500mm	300-610mm
<b>Thickness of Paper Tube</b>	2-5mm	2-12mm	1-15mm	2-15mm	2-15mm	2-30mm
<b>Paper Layers</b>	2-7 layers	3-25 layers				5-25 layers
<b>Production Speed</b>	0-30 MPM	0-25 MPM	0-20 MPM			0-3 MPM
<b>Main Motor Power</b>	7.4 KW	15 KW	15 KW	18 KW	30 KW	44 KW
<b>Cutter</b>	Circular blade					
<b>Length-Control Method</b>	Sensor control					
<b>Wrapping Head Quantity</b>	2 Head	4 Head				
<b>Cutting Blade Motor Power</b>	0.2 KW	0.75 KW	0.4 KW	0.4 KW	0.75 KW	5.5 KW
<b>Glue Unit</b>	Multilayer Gluing Type					
<b>Paper Reel Stand</b>	Right Angle Type	Cross Type				
<b>Operator</b>	2-3 persons				3-6 persons	
<b>Head Dimension</b>	∅ 200 mm H 300mm	∅ 215 mm H 260/320mm	∅ 294 mm H 360mm    H 360mm    H 360/750mm			∅ 350 mm H 360mm
<b>Two Head Distance</b>	800-1100mm	840-1180mm	590-1190mm	840-1440mm	1540-1880mm	1800-2200mm

# MODULES

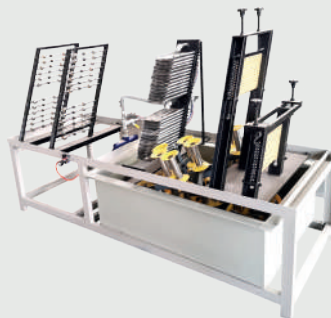
## *Inner Paper Stand*

It is used to support rolls of inner kraft paper, equipped with an electronic hoist to help load paper to reduce labor intensity.



## *Gluing Unit*

Cascade type-gluing system, with automatic feeding by diaphragm pump, which makes the plies stay together and keeps the final product from falling apart or collapsing.



## *Surface Paper Stand*

It is an independent paper stand, which is used to support the surface layer paper roll, to make the paper tube.





## Wrapping & Cutting Unit

The main function of this unit is to wind the plies of paper around the mandrel. The part that gathers the different plies of paper and wraps them around the mandrel (metal bar) is called the winder, so this step in the process is called "winding p". The paper tube is being directed into the cutting unit, which cuts it to size.



## Paper Tube Collector

This unit will collect the paper tubes or cores after cutting off.



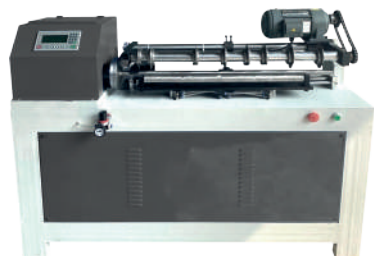
## Inline Flexo Printer

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



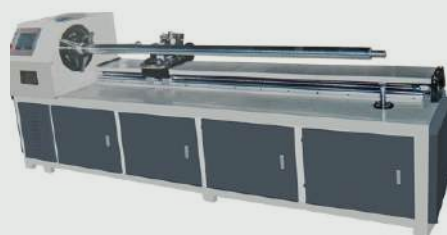
## Special Cutter TSJQ-70 (Optional)

TSJQ-70 Special Cutter it is used for cutting several paper tubes at the same time, minimum cutting length is 180 mm.



## Special Cutter TSJQ-S (Optional)

TSJQ-S Special Cutter it is used for cutting very short paper tubes, minimum length 10 mm.



## Label Laminator SLTB-600X (Optional)

Label Laminator SLTB-600X it is used for laminating printed paper on paperboard tubes.





# APPLICATIONS

## *Mailing Tubes*

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Ideal solution for delivering documents, patterns or posters in perfect condition.



## *Cores*

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Intended for winding foils, films and flexible packaging materials.



## *Fiber Cans & Telescope Tubes*

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Are often used for high-end packaging, candle and cosmetic packaging, general retail packaging, bath and skin care packaging, and promotional kits.



## *Printed Tubes*

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Tubes printed on both inside and outside, impression in one reference color, company name or logo, multi-color printing.



## *Laminated Tubes*

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Latest packaging eco-innovation for the planet is a paper laminated tube, this sustainable packaging solution utilizes paper printed and can be easily recycled.





**AMC MACHINERY**


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