

## PAPER PIN, GEM CLIP, STAPLE PIN



### Production capacity

Paper Pin–250 to 300 nos/minute  
 a Gem clip-120 to 150 nos/minute  
 Staple Pin-168 pkts/day

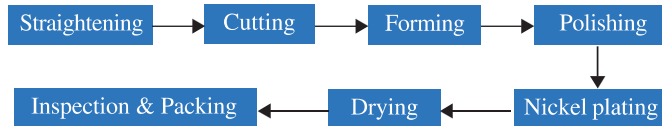
### Production process

Wire of required diameter is fed into the paper pin making /Gem clip making machine. The wire is made to pass the straightening rolls for straightening and required length is cut and formation is carried out. The machine is fully automatic.

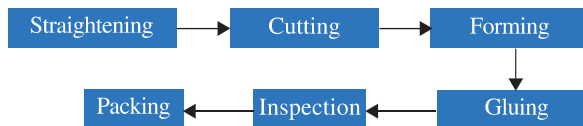
The paper pins/ gem clips collected in trays are sent for polishing. After polishing nickel plating is carried out. The pins are dried, inspected and packed.

### Process flow chart

#### Paper Pin/Gem Clip



#### Staple Pin



### Machinery & equipment required

- Automatic Paper pin making machine 1 No
- Automatic Gem clip making machine 1 No
- Automatic Staple pin making machine 1 No
- Polishing Barrel 1 No
- Plating Tank 1 No
- Drying Drum 1 No

### Raw material/consumables required

- Wire and Copper Coated wire
- Glue
- Tin chloride
- Copper Sulphate
- Washing soda
- Nitric acid
- Zinc
- Hand tools
- Packing Material etc.

### Utilities required:

Power required (load)	:	20 K.W.
Water required (per shift basis)	:	1 KL

### Manpower required

Supervisor	:	1 No.
Skilled	:	2 Nos.
Semi Skilled	:	2 Nos.
Unskilled	:	2 Nos.

### Area required

Total Area	:	150 Sq. Mtr.
Covered Area	:	120 Sq. Mtr.

### Investment required

Machinery & Equipment	:	} ₹ 21.15 Lakhs
Working Capital for 3 Months (Raw material, utilities & salary)	:	

