High speed / High spec. function / Space saving!

PP Band Binding System
Automatic Bundling Device
MITSUBA Automatic Binding & Bundling Device 〈Features〉

1. Space saving
Our binding machine for PP band of our own development was exclusively designed from the beginning. As it is a small size unlike commercially available packaging binding machines, the degree of freedom of the installation location of the binding machine-body expands. Moreover, due to a small binding unit, it is available to remove it from the main body of the binding machine. The maintainability is also improved.

2. Reduction of binding failure, Tightening power UP
The PP banding is done by forced feeding belt wrap. This mechanism reduces binding failure due to poor feeding caused by band slippage. In addition, the tightening force is increased because there is a brake effect at the time of tightening.

3. Production speed UP
By using the small PP band binding unit, it became possible to install two binding machines like the photo on the right. This will increase the production speed during production of short bundles such as 100 m length of VVF cable.

[Application example]
Line speed for bundle with cable length 100m in 2(Two) points bound: 260 m/min

4. Traverse section
As temporary stop at the turn position, winding start position, pitch at lowering / rising etc. can be set on the touch panel by adopting electronic traverse, it is available to adjust to the optimum winding form according to the characteristics of the cable.
For the traverse, either guide pipe type or guide roller type is selectable.
We recommend a guide roller type for cables where bleaching is concerned.

5. Setting-up efficiency
As the screw shaft system is adopted for the height of the bundle frame, it is possible to change the height without using an attachment or a tool.

6. Degree of freedom of binding
It is possible to set the following binding method according to the customer’s application.
- Binding position: 2 or 3 or 4 positions bound
- Binding location: outside or inside the bundle
- PP band extra length: It is also available to bind the band terminals with excess band like the photo on the right so that it could be easy to remove the PP band for the next process.

7. Measures to keep bundle shape during transport
A bundle holding mechanism is provided in the bundle transport section to prevent bundle collapse at the bundle holding unit during transport.

By adopting a slip resistant resin plate on the bundle conveying surface, prevention of sticking, bundle collapse and product whitening are carried out.

8. Available to update the binding part as well
The bundling section can also update the binding machine section including the turntable / bundle holding conveyance device by using existing equipment.

[Application example using PP band binding device]

Vertical Auto Binding Bundling Machine
It is ideal for bundling soft cables which are weakly bending as well as easy collapsed.

Automatic binding bundling device for tubes
It is possible to bundle inline because the bundling part and binding part are separated by turret type. This machine is ideal for protective tubes such as corrugated tube and plastic tube with light weight.
## Delivery example

<table>
<thead>
<tr>
<th>Application</th>
<th>Barrel diameter (⌀ mm)</th>
<th>Collar diameter (⌀ mm)</th>
<th>Height (mm)</th>
<th>Line speed (m/min)</th>
<th>Minimum Cable Length(m)</th>
<th>Line speed ratio</th>
<th>No. of Binding Machines</th>
<th>Bound place</th>
</tr>
</thead>
<tbody>
<tr>
<td>VVF Cable</td>
<td>250</td>
<td>550</td>
<td>105~140</td>
<td>260</td>
<td>100</td>
<td>2.60</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>VCTF Cable</td>
<td>230/300</td>
<td>480/550</td>
<td>70~160</td>
<td>150</td>
<td>100</td>
<td>1.50</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>Drop Cable</td>
<td>250</td>
<td>450</td>
<td>105</td>
<td>250</td>
<td>500</td>
<td>0.40</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>Power Supply For Automotive</td>
<td>200</td>
<td>450</td>
<td>100/50</td>
<td>1000</td>
<td>1500</td>
<td>0.67</td>
<td>1</td>
<td>4</td>
</tr>
</tbody>
</table>

The above table is an example. Design such as bundle size and line speed can be made according to your request. Please do not hesitate to consult us.

### PP Band Binding Machine Specification

<table>
<thead>
<tr>
<th>Binding Method</th>
<th>PP Band Heat Melting Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Used band</td>
<td>PP band (foam type, soft type etc.) Tape width: 9 mm to 15 mm (Can be coped with by exchanging guides)</td>
</tr>
<tr>
<td>Bound place</td>
<td>You can select one of 1 to 4 places</td>
</tr>
<tr>
<td>Tightening force</td>
<td>2 - 20 kg (Setting type by touch panel input)</td>
</tr>
<tr>
<td>Binding Head Dimensions</td>
<td>Outer diameter ONGODB 182 mm × height 119mm</td>
</tr>
<tr>
<td>Binding Arch Size</td>
<td>Standard: Width 145 mm × Height 273 mm (inner dimension) *Applicable to various bundle sizes by changing the arch size</td>
</tr>
<tr>
<td>Power Supply</td>
<td>200V/220V 50Hz/60Hz</td>
</tr>
<tr>
<td>Supply Air Pressure</td>
<td>0.4 ~ 0.9MPa</td>
</tr>
</tbody>
</table>

This catalog shows a binding method using PP band, but there is also PE string binding and laminate binding methods available.

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