Applications:
- SOHO products, such as paper sheets, cardboard, laser and inkjet labels, special papers, paper assortments, brochures, greetings cards, and the like.

Types of wrapping:
- Wrapping of individual products or assortments
- With or without cover sheet / envelope: Max. pack height 30 mm
- Packages completely sealed, open on the narrow side (sleeve), with header and eurohole or resealable flap

Function:
- Pulsed product feed to a semi-tubular film, 90° arrangement relative to the film feed direction.
- Collating the products / assortments on a collating machine equipped with feeders
- Electrically heated sealing knife for heat-sealing the packages, equipped with water-cooled holding-down devices for permanently good sealing quality.

Programmable Logical Control:
- Operator guidance and status display by 4-line LC display
- Editing and input keys for entering values into operator menus or for acknowledging messages
- Operating keys for START, STOP, RESET and EMERGENCY STOP
- Operating mode MANUAL, JOG, CYCLE and AUTO
- Display or modification of operating parameters
- Choice of 2 operator languages
- Status diagnosis and fault messages
- Fault message indication by way of signal lamp and plain text message
- Electric and electronic plug-type connections.
VM 90 Technical Data (Standard configuration)

<table>
<thead>
<tr>
<th>Feature</th>
<th>VM 90</th>
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<tbody>
<tr>
<td>Format range</td>
<td>105 x 148 mm to 250 x 353 mm</td>
</tr>
<tr>
<td>Package height</td>
<td>Max. 30 mm</td>
</tr>
<tr>
<td>Performance (depending on product)</td>
<td>Up to 80 products/minute</td>
</tr>
<tr>
<td>Film material</td>
<td>Polypropylene (BOPP/CPP), 20 to 35 µm folded film on roll, flat film on roll, (optionally film folding module)</td>
</tr>
<tr>
<td>Drive</td>
<td>Infinitely adjustable geared servo motor</td>
</tr>
<tr>
<td>Control</td>
<td>PLC control SIEMENS S7 with control panel OP17</td>
</tr>
<tr>
<td>Supply voltage / power consumption</td>
<td>3 x 400 V / 50 Hz / approx. 6.4 kVA</td>
</tr>
<tr>
<td>Pressure / air supply</td>
<td>6 bar dry, oil-free air, connection ¼&quot;/air consumption approx. 470 l/min</td>
</tr>
<tr>
<td>Dimensions (W x D x H)</td>
<td>4,300 x 2,900 x 1,850 mm (configuration see layout)</td>
</tr>
<tr>
<td>Weight</td>
<td>Approx. 780 kg</td>
</tr>
</tbody>
</table>

Options:

- Tear-off perforation: With perforating knife for the tear-off perforation
- Print register control: For wrapping of pre-printed film
- Film folding module: Film folding module for folding flat film, optionally with header module for incorporating and sealing a header strip
- Collating machine: ZTM of 2 to 12 stations on request
- Feeder on ZTM: In-line (longitudinal feed) or transversely to direction of feed (lateral feed), on ZTM or with docking station
- Groove embossing unit: For applying a folding groove
- Folding module: For folding products previously provided with groove (in particular when equipped with groove-embossing unit)
- Flap closing module: For processing packages containing adhesive flaps
- Adhesive tape applicator: For applying an adhesive strip for re-sealable packages (in combination with adhesive flaps)
- Eurohole punching unit: For punching an eurohole (in combination with a header strip)
- Air punching unit: For punching an air hole into the film
- Product discharge: By flighted belt conveyor / By shingling conveyor
- Banding machine: Wrapping of cart stacks with film band
- Overwrapping: Wrapping machine VRM 25 for overwrapping product stacks

Special accessories:

- Scanner / camera: For detecting barcodes and serial numbers
- Labelling device: Different solutions on request
- Printing on film: Printer for printing on film
- Special solutions: Upon request