SHM
Folio-size sheeter concept
The SHM system is as flexible as your customers. The 1450, 1650, 2200 and 2400 converting widths (mm) give you all the variation you need to cope with a diverse and demanding market. They also come with the tried and tested Pemco reliability warranty. Like a faithful workhorse, they will work and convert for you with very little complaining. Not only that but they are simple to control, with touch-screen interface and an easy construction concept for accessing working units.

Add it all up and it makes sense to invest in a converting machine that will produce top quality products day after day. Every machine comes with Pemco’s guaranteed service parts and worldwide service program with additional online diagnostics. So you get full value for your money, whatever width you choose.
Ease of roll loading: SHM models PBF and MIDI are shaftless reelstands that can be combined with automatic reel feeding

Touch screen provides operator-friendly machine controls

The SHM four-point promise

Flexibility
The SHM 1450 / 1650 / 2200 / 2400 models have been designed for the concept of cost-effective folio-size sheeting machines. The variable widths are especially attractive to converters and those looking to broaden sales in international markets. SHM standards in machine design are state-of-the-art and with this range it is possible to get full capacity for all sheet sizes on a broad range of products from conventional paper and board through to premium products.

SHM’s motto is – “If it comes on a roll we’ll give it a go!”

Reliability
The SHM 2200 / 2400 machines are equipped with a carbon-fiber cross cutting unit from E.C.H. Will that assures the very highest levels in cut quality, cleanliness and accuracy. This means 100% consistency throughout each production cycle.

In general this synchro cross cutting technology, of which there are over 1200 operational units installed around the world, ensures that the cutting speed is always synchronous with the web speed for the full range of cut-off lengths. The resulting stack accuracy and presentation is another attractive feature.

Simplicity
The SHM 1450 / 1650 / 2200 / 2400 range is conceived for ease of control and requires only a minimum of maintenance. The main operator control has a touch screen plus extra panels along the machine making it very operator-friendly. You only require one operator to control your production line.

An automatic, non-stop pallet change system assures the highest flexibility. The SHM is also easy to install and adjust for size changes.

Affordability
Requiring only minimum maintenance and repair, you can rely on the SHM machines to give you continued service for years to come. The excellent price/performance ratio means that your investment will pay for itself in no time.

Up to ten rolls can be part of the machine configuration and with automatic non-stop splicing, high production output is realized plus there’s the added advantage of no production pauses when loading new rolls.

Higher standards: The E.C.H. Will synchro cross cutter sets the mark
Whatever your speciality – you’ll find a solution with SHM

For converters of paper and cartonboard – for new converters entering the market to mature sheeting facilities requiring high efficiency and flexibility, our solution comes with both single and dual rotary cross cutters in widths of 1450 - 2400 mm, with automatic splicing for cartonboard at 150 m/min and automatic pallet change up to 350 m/min. For smaller, independent converters who require a flexible machine, the SHM is able to run several sheet widths and lengths with a variety of different materials. Easy size changing makes it ideal for short runs. If you’re looking for your first ever sheeter the SHM gives you maximum flexibility in all converting aspects, is excellent value for money and very simple to operate.

For printers – who require cut-to-register, the SHM 1450 / 1650 is the perfect solution for labels, cigarette cartons, etc., where you can profit from low print costs from web presses. The flexibility of the SHM makes it also possible for it to be designed for cut-to-watermark (CTW) applications.

For sheet fed printers – we offer the SHM 1450 with a dual rotary (DR) and single rotary (SR) solution. Perfect for short runs and JIT (just in time) solutions.

For folding carton printers – where you need high quality sheets, press-ready stacks and short runs with quick changeover we offer a machine-range from 1450 mm to 1650 mm. The SHM has automatic splicing and automatic discharge of the stacks to keep production running at maximum efficiency.

Ultimate flexibility: The SHM ream discharge collates and automatically discharges up to 6 reams per cycle. Mate this with a Pemco wrapper for a complete solution.
For coaters and laminators – and all high-volume converters specializing in added value to paper and board requiring high efficiency with minimal waste, plus automatic discharge of stacks, we have the SHM 1450 / 1650 / 2200 / 2400 DR solutions giving you high quality sheets.

The SHM is ideal for individual solutions and a combination of sheeting and laminating allows you to keep it all in-house.

For speciality products – SHM has a reputation for being innovative and has successfully sheeted speciality products such as non-wovens, pulp, sandwich wrap and book cloth material. Here each requirement is special and “new” materials are product-tested to ensure we meet your expectations.

All SHM models offer potential solutions depending on your needs. That’s our promise of flexibility.

For films and sensitive products – where you require the ability to sheet a wide range of sensitive products, we offer the SHM 1450 / 1650 DR or the SHM 2200 / 2400 DR solutions, giving you high quality sheets for printing applications with sheet lengths ranging from 279 - 2794 mm (11" to 110").

The SHM 1450 Compact is specifically designed for converting highly sensitive products such as plastics and lightweight materials. The SHM 1450 Compact makes good converting quality possible by its unique out feed tape pulley system that can be adjusted to introduce a corrugated profile when running difficult lightweight materials, thus improving rigidity and presentation at the stacker.
Customer Service – worldwide

We supply quality components “off the shelf” on a worldwide basis and if you should require service assistance we can provide trained specialists that will keep your SHM running smoothly and efficiently.

With years of experience in the paper sheeting industry, Pemco provides you with a broad range of after-sales services from Training, Technical Improvement Program (T.I.P.), Service Parts to Technical Service. All tailored to your needs.

Our experienced staff is on hand to consult you on all aspects of your production system. In many areas we have a direct online maintenance support system for speedy consultation and help in emergency situations.

### Technical Details

<table>
<thead>
<tr>
<th></th>
<th>1450 SR</th>
<th>1450 DR</th>
<th>1450 Compact</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Web width (min.)</strong></td>
<td>400 mm (16&quot;)</td>
<td>400 mm (16&quot;)</td>
<td>400 mm (16&quot;)</td>
</tr>
<tr>
<td><strong>Web width (max.)</strong></td>
<td>1450 mm (57&quot;)</td>
<td>1450 mm (57&quot;)</td>
<td>1450 mm (57&quot;)</td>
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<tr>
<td><strong>Sheet length (min.)</strong></td>
<td>279 mm (11&quot;)</td>
<td>279 mm (11&quot;)</td>
<td>279 mm (11&quot;)</td>
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<tr>
<td><strong>Sheet length standard</strong></td>
<td>1500 mm (59&quot;)</td>
<td>1500 mm (59&quot;)</td>
<td>1500 mm (59&quot;)</td>
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<tr>
<td><strong>Sheet length (max.)</strong></td>
<td>2794 mm (110&quot;)</td>
<td>2794 mm (110&quot;)</td>
<td>2794 mm (110&quot;)</td>
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<tr>
<td><strong>Pile height including pallet (max.)</strong></td>
<td>1700 mm (67&quot;)</td>
<td>1700 mm (67&quot;)</td>
<td>1700 mm (67&quot;)</td>
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<tr>
<td><strong>Ream height (max.)</strong></td>
<td>127 mm (5&quot;)</td>
<td>127 mm (5&quot;)</td>
<td>127 mm (5&quot;)</td>
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<tr>
<td><strong>Pile weight (max.)</strong></td>
<td>2000 kg (4410 lbs)</td>
<td>2000 kg (4410 lbs)</td>
<td>2000 kg (4410 lbs)</td>
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<tr>
<td><strong>Web speed (max. mechanical)</strong></td>
<td>335 m/min. (1100 ft/min.)</td>
<td>350 m/min. (1150 ft/min.)</td>
<td>100 m/min. (328 ft/min.)</td>
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<tr>
<td><strong>Knife load cross cutter</strong></td>
<td>Single web 400 gsm</td>
<td>Single web 1000 gsm</td>
<td>Single web 400 gsm</td>
</tr>
<tr>
<td></td>
<td>Multiple web 500 gsm</td>
<td>Multiple web 1000 gsm</td>
<td>Multiple web 500 gsm</td>
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<tr>
<td><strong>Sheet squareness</strong></td>
<td>+/- 0.50 mm (.02&quot;) at 1000 mm (39&quot;) sheet width</td>
<td></td>
<td></td>
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<tr>
<td><strong>White web sheet length accuracy</strong></td>
<td>+/- 0.50 mm (.02&quot;)</td>
<td>+/- .381 mm (.015&quot;)</td>
<td>+/- 0.50 mm (.02&quot;)</td>
</tr>
<tr>
<td><strong>Cut-to-register accuracy</strong></td>
<td>+/- 0.25 mm (.009&quot;)</td>
<td>+/- .381 mm (.015&quot;)</td>
<td>+/- 0.25 mm (.009&quot;)</td>
</tr>
<tr>
<td><strong>High tolerance</strong></td>
<td>+/- 0.15 mm (.005&quot;)</td>
<td>+/- .381 mm (.015&quot;)</td>
<td>+/- 0.15 mm (.005&quot;)</td>
</tr>
</tbody>
</table>
The right choice

- Direct roll loading trolley & track
- Optional twin knife for increased output of short sheets
- Superior press ready stacks
- Digital slitter positioning
- No proprietary components

The flexibility of the SHM is ideal for sheeting a variety of materials:

- Printing and writing paper
- Coated and uncoated paper and cartonboard
- Lightweight materials
- Films
- Non-wovens
- NCR paper
- Laminates
- Self adhesive labels
- Watermarked paper
- Preprinted cut-to-register materials
- Printed labels
- Sandwich wrap

### Machine configuration SHM 2200/2400

<table>
<thead>
<tr>
<th>Unwind stand</th>
<th>Decurling</th>
<th>Splice detector</th>
<th>Slitter</th>
<th>Dual rotary cutter</th>
<th>Reject gate</th>
<th>Overlap</th>
<th>Stacker</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
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### Table: Dimensions and Weights

<table>
<thead>
<tr>
<th>Model</th>
<th>Width</th>
<th>Length</th>
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<th>Length</th>
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<tbody>
<tr>
<td>1650 SR</td>
<td>400 mm</td>
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<td>1650 mm</td>
<td>350 mm</td>
<td>2200 mm</td>
<td>350 mm</td>
<td>2400 mm</td>
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<tr>
<td>1650 DR</td>
<td>279 mm</td>
<td>1650 mm</td>
<td>279 mm</td>
<td>1650 mm</td>
<td>400 mm</td>
<td>1650 mm</td>
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<tr>
<td>2400 DR</td>
<td>1700 mm</td>
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<td>400 mm</td>
<td>1650 mm</td>
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</tr>
</tbody>
</table>

- Unwind stand
- Decurling
- Splice detector
- Slitter
- Dual rotary cutter
- Reject gate
- Overlap
- Stacker

### Weights

- 1650 SR: 2268 kg (5000 lbs)
- 1650 DR: 2268 kg (5000 lbs)
- 2200 DR: 5000 kg (11,023 lbs)
- 2400 DR: 5000 kg (11,023 lbs)

### Speeds

- 335 m/min. (1100 ft/min.)

### Measurements

- +/- 0.50 mm (.02") at 1000 mm (39") sheet width
- +/- 0.25 mm (.009")
- +/- 0.15 mm (.005")
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