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All information and indications given in this brochure are correct to the best of our knowledge and represent a true reflection of our current technology and experience. Due to ongoing developments, however, certain details may soon become obsolete. We can accept no responsibility for errors or omissions in recommendations given in the brochure.

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FORECH-HILTON is the Brand for a group of Companies, focused on meeting the needs of the Mining & Mineral Processing and construction industry related to bulk material handling: wear protection and environment management.

The Group started its activities in the year 1972 with initial focus on Conveyor Belts. Gradually, with the incorporation of new technologies and systems its activities have grown, to cover the rubber based needs of all the areas where these products are being used. Today, the group exports its products to over 50 countries around the world, which constitute to almost 55% of its turnover and endeavors to become a one-stop-shop to meet all the rubber related needs of the mining and mineral processing industry.

The group holds its prominent position in this field on account of a constant search for improvement and further development based on customer needs and responses.

FORECH-HILTON have shown in the past is a result of efficient production processes and keeping a close contact with all the areas where these products are being used. Today, the group exports its products to over 50 countries around the world, which constitute to almost 55% of its turnover and endeavors to become a one-stop-shop to meet all the rubber related needs of the mining and mineral processing industry.

The Group started its activities in the year 1972 with initial focus on Conveyor Belts. Gradually, with the induction of new technologies and systems its activities have grown, to cover the rubber based needs of the above industry segment specifically in Crushing, Screening & Material Handling area.

FORECH-HILTON Conveyor Belts are offered in a standard range manufactured in two to six plies. This enables selection of the most appropriate construction for every conceivable application.

FORECH-HILTON Conveyor Belts, Rubber Lining materials both for Wear and Chemical Resistance, composites made of Metals, Ceramics, Textiles and Rubbers. Repairs and Splicing materials required for the above industrial segment. The continuous growth which had been shown in the past is a result of high anti-tear and high flex properties. Specially designed carcass belts are offered by FORECH-HILTON for special application considerations.

For applications where tear is a concern, Textile or Steel Rip-Check Breakers are available.

The interply rubber layers are of a special resilient rubber offering maximum resistance to impact and to cope with all mechanical and thermal requirements.

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Belt Carcass
The carcass consists of wholly synthetic fabrics covering both Polyamide-Polyamide (NN) and Polyester-Polyamide (EP) and Aramid construction. Cotton Cotton constructions are also available.

Special fabric weaves are also offered for applications requiring high anti-tear and high flex properties. Specially designed carcass belts are offered by FORECH-HILTON for special application considerations.

Belt Width
The belts are available in standard widths in full ply width up to 2400mm.

Belt Edges
Belt edges can be given in both cut and sealed (moulded) edges.

Cover Qualities
The top and the bottom covers provide protection to the carcass. Cover quality is always selected according to the material to be conveyed and the service conditions. FORECH-HILTON offers a wide range of cover qualities conforming to Indian & international standards to suit various application areas.

<table>
<thead>
<tr>
<th>General Purpose</th>
<th>X - DIN 22102</th>
<th>Y - DIN 22102</th>
<th>M-24 IS 1891-1</th>
<th>H - ISO 10247</th>
<th>RMA GR I &amp; II</th>
</tr>
</thead>
<tbody>
<tr>
<td>Restraint Temp.</td>
<td>T1 100 - 120 Deg C</td>
<td>T2 125 - 150 Deg C</td>
<td>T3 150 - 200 Deg C</td>
<td>ISO 10247 - 1 &amp; 2</td>
<td>ISO 10247 - 1 &amp; 2</td>
</tr>
</tbody>
</table>

Low Rolling Resistant belt covers are also available for general purpose as well as fire resistant grades.
### BELT SELECTION CHART NYLON/ NYLON (NN) BELTS

<table>
<thead>
<tr>
<th>Belt Type</th>
<th>Maximum Recommended Working Tension kN/mm</th>
<th>Nominal Carcass Weight (kg/m²)</th>
<th>Pulley Diameters (mm) *</th>
<th>Min. Belt Width (mm)</th>
<th>Maximum Belt Width for Satisfactory Load Support. (mm) **</th>
<th>Material Weight in Tons/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>FH250/2</td>
<td>25</td>
<td>2.6</td>
<td>315</td>
<td>250</td>
<td>200</td>
<td>A</td>
</tr>
<tr>
<td>FH315/2</td>
<td>31.5</td>
<td>2.9</td>
<td>315</td>
<td>250</td>
<td>200</td>
<td>A</td>
</tr>
<tr>
<td>FH315/3</td>
<td>31.5</td>
<td>3.2</td>
<td>400</td>
<td>315</td>
<td>250</td>
<td>A</td>
</tr>
<tr>
<td>FH400/3</td>
<td>40</td>
<td>3.5</td>
<td>400</td>
<td>315</td>
<td>250</td>
<td>A</td>
</tr>
<tr>
<td>FH400/4</td>
<td>40</td>
<td>3.8</td>
<td>400</td>
<td>400</td>
<td>315</td>
<td>A</td>
</tr>
<tr>
<td>FH500/3</td>
<td>50</td>
<td>4.2</td>
<td>500</td>
<td>400</td>
<td>315</td>
<td>A</td>
</tr>
<tr>
<td>FH500/5</td>
<td>50</td>
<td>4.9</td>
<td>560</td>
<td>500</td>
<td>400</td>
<td>A</td>
</tr>
<tr>
<td>FH630/3</td>
<td>63</td>
<td>4.8</td>
<td>500</td>
<td>400</td>
<td>315</td>
<td>A</td>
</tr>
<tr>
<td>FH630/4</td>
<td>63</td>
<td>5.7</td>
<td>630</td>
<td>500</td>
<td>400</td>
<td>A</td>
</tr>
<tr>
<td>FH800/3</td>
<td>80</td>
<td>5.3</td>
<td>610</td>
<td>630</td>
<td>500</td>
<td>A</td>
</tr>
<tr>
<td>FH800/4</td>
<td>80</td>
<td>6.2</td>
<td>780</td>
<td>630</td>
<td>500</td>
<td>A</td>
</tr>
<tr>
<td>FH1000/0</td>
<td>100</td>
<td>6.1</td>
<td>830</td>
<td>630</td>
<td>500</td>
<td>A</td>
</tr>
<tr>
<td>FH1000/5</td>
<td>100</td>
<td>6.8</td>
<td>830</td>
<td>830</td>
<td>630</td>
<td>A</td>
</tr>
<tr>
<td>FH1250/5</td>
<td>125</td>
<td>7.1</td>
<td>800</td>
<td>830</td>
<td>630</td>
<td>A</td>
</tr>
<tr>
<td>FH1250/6</td>
<td>125</td>
<td>7.8</td>
<td>800</td>
<td>830</td>
<td>630</td>
<td>A</td>
</tr>
<tr>
<td>FH1400/4</td>
<td>140</td>
<td>8.0</td>
<td>800</td>
<td>830</td>
<td>630</td>
<td>A</td>
</tr>
<tr>
<td>FH1600/5</td>
<td>160</td>
<td>9.5</td>
<td>800</td>
<td>830</td>
<td>630</td>
<td>A</td>
</tr>
<tr>
<td>FH1800/5</td>
<td>180</td>
<td>10.5</td>
<td>1250</td>
<td>800</td>
<td>1200</td>
<td>A</td>
</tr>
<tr>
<td>FH1800/6</td>
<td>180</td>
<td>11.1</td>
<td>1450</td>
<td>1250</td>
<td>800</td>
<td>A</td>
</tr>
</tbody>
</table>

- To determine total belt thickness, add the sum of the cover thickness to the carcass thickness.
- **Pulley diameters apply to belts operating at 60% to 100% of their recommended max. belt tension.
- For lower tensions, smaller diameter pulleys may be used.
- The load support of a belt is determined by belt width, tensile strength and bulk material density. The figures given in the table relate to 3 roll 30 degree carrying idlers.
- When extremely thick covers are selected, the advice of our Technical Service Department should be sought.
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### RANGE OF ACCESSORIES AND OTHER PRODUCTS FROM FORECH

- COLD VULCANIZING ADHESIVES
- ANTI WEAR & ANTI CORROSION RUBBER SHEETS
- IMPACT BARS & CRADLES
- SHEET PULLEY LAGGING
- CERAMIC PULLEY LAGGING
- CERAMIC PADS
- SIDE WALL CONVEYOR BELTS
- CONVEYOR REPAIR MATERIALS
- CHUTE & HOPPER LINING DUMPER LINING
- CHEVRON CONVEYOR BELT
Straight Warp Conveyor Belts

Designed to provide excellent strength and low stretch with superior load support and troughability.

Exceptionally high longitudinal Rip Resistance – almost 4~5 times that of plied belts of similar strength.

What is an EPP Belt

An EPP belt is manufactured as single ply or as duo ply belt. Preferred in difficult application, this gives long, trouble free service.

The straight polyester (E) warp threads are placed in the direction of belt movement similar to the polyamide (P) weft threads. These are joined together by an additional binder polyester (P) yarn resulting in a very low stretch.

Key features of EPP Belts

- High Rip impact resistance
- Light fabric
- High tensile strength
- Runs on short distance conveyors with high tensile strength and smaller pulley diameter
- Minimal elongation

Popular Sizes of EPP belts

1 ply straight warp belt

<table>
<thead>
<tr>
<th>Belt type</th>
<th>Fabric</th>
<th>Top Cover</th>
<th>Bottom Cover</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sw 400/1</td>
<td>Sw 400</td>
<td>5</td>
<td>2</td>
</tr>
<tr>
<td>Sw 500/1</td>
<td>Sw 500</td>
<td>6</td>
<td>2</td>
</tr>
<tr>
<td>Sw 630/1</td>
<td>Sw 630</td>
<td>6</td>
<td>3</td>
</tr>
</tbody>
</table>

2 ply straight warp belt

<table>
<thead>
<tr>
<th>Belt type</th>
<th>Fabric</th>
<th>Top Cover</th>
<th>Bottom Cover</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sw 800/2</td>
<td>Sw 400</td>
<td>6</td>
<td>2</td>
</tr>
<tr>
<td>Sw 1000/2</td>
<td>Sw 500</td>
<td>8</td>
<td>3</td>
</tr>
<tr>
<td>Sw 1250/2</td>
<td>Sw 630</td>
<td>8</td>
<td>3</td>
</tr>
</tbody>
</table>

The above chart is indicative in nature. The belt construction, cover thicknesses and grade of rubber cover can be offered as per customer’s specific requirement.