HINGED STEELBELT CONVEYORS
FOR THE METALWORKING INDUSTRY
MAYFRAN INTERNATIONAL

SCRAP DISPOSAL

SWARF PROCESSING

SCRAP PROCESSING

PARTS HANDLING
The MAYFRAN modular design

The conveyor structure, manufactured from precision built stock material, is designed to suit each application, interchange of parts or future extensions can be easily accommodated.

Various belt types

The hinged steelbelt conveyor is available in various designs. Plain steel belts are normally used.

Belt support liniers and high strength belt pins can be supplied for severe applications.

Belt plates with perforated or dimpled surfaces, welded loops, reinforced belt plates and reinforced cleats can be supplied for special applications.
Reducing the effects of relative motion between the pin and link - the key to prolonging chain life.

Relative motion and the related friction that occurs at the joint between chain side bars and pins is the main cause of chain wear. It has also been proven that joint pressures are inversely proportional to chain life.

Many competitive chains are still designed so that some relative motion can occur between the side bars and pins. This causes higher wear at the pin and chain links. Mayfran chains, however, are designed to avoid relative motion, thus minimizing wear and prolonging the chain life.

A belt tube passes through the formed or welded hinged loops to link the individual belt plates. This simultaneously increases the resistance to sagging and envelops the full width belt pins.

The belt pull is borne solely by the chains, thus reducing the tension on the belt plates. Standard belt widths are available from 305 mm to 1,219 mm in 152.4 steps.

Typical components of a hinged steelbelt
The conveyor design

Various sizes and dimensions are not a problem - the prefabricated frame parts are assembled according to each individual case and the given conditions. The curve sections with wear resistant liners on the chain tracks can be varied in 15 degree stages between 15 and 75 degrees, 90 degrees for crushed swarf is also possible. A watertight frame can be supplied for applications involving coolants.

Standard dimensions

<table>
<thead>
<tr>
<th>Pitch</th>
<th>4&quot; = 101.6 mm</th>
<th>6&quot; = 152.4 mm</th>
<th>9&quot; = 228.6 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model A/B</td>
<td>H = 50 m, V = 90 mm</td>
<td>H = 90 m, V = 180 mm</td>
<td>H = 200 m, V = 360 mm</td>
</tr>
<tr>
<td>Model C</td>
<td>H = 60 m, V = 120 mm</td>
<td>H = 90 m, V = 180 mm</td>
<td>H = 150 m, V = 300 m</td>
</tr>
<tr>
<td>Model D</td>
<td>H = 70 m, V = 140 mm</td>
<td>H = 100 m, V = 200 mm</td>
<td>H = 150 m, V = 300 mm</td>
</tr>
</tbody>
</table>

Approx. weights varying greatly depending on the application.

X, XS Plate thickness for stamped belt plates. The thickness can be adjusted correspondingly for welded loops.

H = Spooled distance horizontal

V = Spool end distance vertical

Frame sizes

<table>
<thead>
<tr>
<th>Pitch</th>
<th>FR</th>
<th>CL</th>
<th>Standard radius</th>
</tr>
</thead>
<tbody>
<tr>
<td>4&quot;</td>
<td>101.6 mm</td>
<td>354</td>
<td>500</td>
</tr>
<tr>
<td>6&quot;</td>
<td>152.4 mm</td>
<td>550</td>
<td>700</td>
</tr>
<tr>
<td>9&quot;</td>
<td>228.6 mm</td>
<td>819</td>
<td>850</td>
</tr>
</tbody>
</table>

FR = Frame height; CL = Changing length

Individual, customised solutions are always possible. We would be pleased to help you with your planning.
The conveyor frame

Overlapping side wings prevent the ingress of swarf or scrap into the chain running track, the skirts on the conveyor frame enable high volumes of material to be handled and adjustable conveyor support legs ensure easy installation and compensate for uneven foundations.

The drive unit

Shaft mounted gear motors complete with torque limiters are fitted as standard, with right or left hand configuration. Limit switches or amperage overload relays can be supplied on request.