WTP Equipment Corp. Mechanical Bar Screen Model SL
for cost-effective, automatic collection and removal of wastewater screenings. Screen size, bar rack opening size, discharge height and channel dimensions are engineered to your specific application.

**ADVANTAGES**

**ANTI-FOULING DESIGN**
Screenings, collected on a stationary front-cleaned bar rack, are removed by a heavy duty chain & sprocket driven traveling rake. No moving parts, other than the rake, are submerged at any time - chains & sprockets are located above the maximum liquid level. Drive mechanism fouling is eliminated and maximum corrosion protection is provided. Maintenance is done at the operating floor level.

**FULL DEPTH CLEANING**
The cantilevered rake swings into initial engagement with the bar rack at the channel invert, scooping and lifting large quantities of screenings. Maximum screening efficiency is achieved because, during each cleaning rake cycle, the full depth and width of the screen bar rack openings are cleaned to prevent binding by lodged materials.

**CLEAN DISCHARGE**
At discharge the cleaning rake swings out, above and behind the deadplate apex; to ensure screenings are cleanly deposited into the discharge chute without material hang-up.

**LONG SERVICE LIFE**
Trouble-free operation is ensured by use of non-corrosive materials of construction - stainless steel and engineering plastics.
**BAR SCREENS**

**SIDE VIEW**

**FRONT VIEW**

**DIMENSIONS**

<table>
<thead>
<tr>
<th>9</th>
<th>SCRAPER ASSEMBLY</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>LOWER SPROCKET</td>
</tr>
<tr>
<td>7</td>
<td>DISCHARGE CHUTE</td>
</tr>
<tr>
<td>6</td>
<td>DEADPLATE</td>
</tr>
<tr>
<td>5</td>
<td>ANCHOR PLATE</td>
</tr>
<tr>
<td>4</td>
<td>BAR RACK ASSEMBLY</td>
</tr>
<tr>
<td>3</td>
<td>FRAME ASSEMBLY</td>
</tr>
<tr>
<td>2</td>
<td>RAKE ASSEMBLY</td>
</tr>
<tr>
<td>1</td>
<td>DRIVE UNIT</td>
</tr>
</tbody>
</table>

**COMPONENT LIST**

**MECHANICAL BAR SCREEN STANDARD MODEL**

**FULL DEPTH BAR RACK CLEANING** is achieved on each pass of the rake as the front face and inside surfaces of the parallel rectangular screening bars are cleaned over the full bar rack slot depth. This ensures complete screenings removal and prevents screen blinding by materials lodged between bars and, since the bar rack height is greater than the design maximum water depth, the flow cannot submerge and overload the screen.

**CLEAN, POSITIVE SCREENINGS DISCHARGE** for efficient operation is achieved as an additional advantage of using parallel screening bars. As screenings are lifted to discharge the traveling rake makes a smooth transition above the bar rack onto a flat deadplate to prevent the raised screenings from dropping behind the bars and to eliminate liquid from dripping onto the operating floor area. This, with the clean deposit of screenings into the discharge chute resulting from rake rear swing-out behind the deadplate, achieves maximum screening efficiency.

**MAXIMUM SCREENING EFFICIENCY**

**WTP EQUIPMENT CORP.**

Manufacturers of Engineered Environmental Treatment Systems

TORONTO, CANADA  www.wtpcorp.com

© 2004 WTP EQUIPMENT CORP. ALL RIGHTS RESERVED