### Chop-Flow Pump and Motor Dimensions

#### MODEL CF

<table>
<thead>
<tr>
<th>HP</th>
<th>Speed</th>
<th>Frame Size</th>
<th>H - Inches</th>
<th>H - mm</th>
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<tbody>
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<td>3.75</td>
<td>215TC</td>
<td>10 1/4</td>
<td>260</td>
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<tr>
<td>7</td>
<td>5.2</td>
<td>254TC</td>
<td>13</td>
<td>330</td>
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<tr>
<td>10</td>
<td>7.5</td>
<td>256TC</td>
<td>13</td>
<td>330</td>
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<tr>
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<td>330</td>
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<tr>
<td>20</td>
<td>15</td>
<td>256TC</td>
<td>13</td>
<td>330</td>
</tr>
<tr>
<td>25</td>
<td>19.2</td>
<td>256TC</td>
<td>13</td>
<td>330</td>
</tr>
<tr>
<td>30</td>
<td>22.4</td>
<td>256TC</td>
<td>13</td>
<td>330</td>
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<tr>
<td>40</td>
<td>30</td>
<td>264TC</td>
<td>19 7/8</td>
<td>422</td>
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<td>37</td>
<td>264TC</td>
<td>19 7/8</td>
<td>422</td>
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<tr>
<td>60</td>
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<td>364TC</td>
<td>18 7/8</td>
<td>476</td>
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<td>364/365TC</td>
<td>18 7/8</td>
<td>476</td>
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<td>100</td>
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<td>440/445TC</td>
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<td>541</td>
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<tr>
<td>350</td>
<td>331</td>
<td>444/445TC</td>
<td>23 7/8</td>
<td>594</td>
</tr>
</tbody>
</table>

#### Chop-Flow Pump

Chopping While Pumping

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*Please note that the table above is not for construction, request certified prints.*

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**Represented by:**

Weir Specialty Pumps

440 W. 800 South
P.O. Box 209 (84110-0209)
Salt Lake City, UT 84101
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Excellent Engineering Solutions
A New Generation of WEMCO® Pumps

The WEMCO® Model CF™ Chop-Flow® Pump is a powerful, cost-efficient way to chop and pump at the same time.

Created by the same engineers and manufactured side-by-side with the dependable WEMCO® and WEMCO®-Hidrostal® pumps you already have in service, the WEMCO® Model CF™ chopped pump has just as rugged and dependable. It is a cost-effective addition to the problemsolving, trouble-free WEMCO® pumps you installed years ago.

The Wemco® Model CF™ chopped pump keeps oversized solids and stringy material from clogging your downstream process.

Configurations and Sizes available

Available in horizontal, vertical and submersible models with pump sizes 6x3 to 14x12. There is a WEMCO Chop-flow pump with the right size and configuration for your service.

How the Wemco® Chop-Flow® Chopper Pump Works

Solids, fibrous and other hard to pump materials are pulled into the pump suction. Before these materials enter the pump impeller vanes, they are cut by the action of the rotating impeller against the stationary cutter plate, so they easily pass through the pump after being chopped several hundred times per minute.

Rugged & Dependable Wemco® Chop-Flow® Chopper Pump

The Chop-Flow pump’s ability to handle large solids and stringy materials make it ideal for use in waste treatment applications and industrial applications such as pulp & paper, food processing, and meat & poultry production.

When this chopping action is combined with its abrasion & corrosion-resistant materials of construction and rugged, heavy-duty casting, the Chop-Flow will be the workhorse you’ve come to expect in a WEMCO pump. With a common footprint to other chopper pumps, the Chop-Flow will bolt up to your existing piping and coupling.

Nothing could be easier – PUT IT TO WORK!
The WEMCO® Model CF. Chop-Flow. pump complements the WEMCO®-Hidrostal® Pump and WEMCO®-Torque-Flow® pumps you probably already have installed!

There’s no need to consult a dozen companies for the specialized pumps & equipment needed to transport raw sewage or sludge in your wastewater treatment plant. Nor do you have to use a so-called “do-it-all” pump from one company.

WEMCO pump has the expertise developed from over 50 years of experience and applications know-how, and has designed a pump for every application of sludge processing. No other pump company comes close.

The new Chop-Flow CF pump is just the newest addition to the WEMCO® line of pumps and pumping systems, which handle tough solids efficiently, from lift stations to dewatered sludge. Every WEMCO® pump is specially designed to be the best pump for a specific application to ensure clog-free, wear-resistant, long-lasting performance.

Our pumps move sewage, fibrous material, grit and all types of sludge from raw to digested - thick, thin, even dewatered. They do it routinely with no fuss, no mess, no hassle.

Our WEMCO®-Hidrostal® prerotation pumping system automatically adjusts discharge volume to varying flow rates with the use of constant-speed motors. The system easily handles wide fluctuations in flow rates due to varying diurnal flows, storm run-off, and lift station services.

The WEMCO® Hydrogritter® is a highly efficient system for removing and dewatering grit from influent and primary sludge. Let us help you select the best pumps or equipment for your specific wastewater applications. When it comes to wastewater treatment know how, the only name you need to know is WEMCO®. Wastewater and sludge handling is our business!

WEMCO® Has The Right Pump!
Large Solids, Abrasive Solids, High Efficiency, Self-Priming or Chopping

- **Raw Sewage**
  - Lift stations, collection basins, CSO discharges, headworks, & our prerotation system skims & cleans the wet-well, too!
- **Screenings/Septage**
  - Pumps and/or chops raw concentrated solids, stringy materials, latex, organics, plastics, hair, or rags.
- **Clarifier Scum Pits**
  - Pumps and/or chops primary or secondary scum.
- **Primary Sludge**
  - Our abrasion-resistant WEMCO®-Torque-Flow recessed impeller pumps are the right choice.
- **Return-Activated & Waste-Activated Sludge**
  - Nothing better than our high-efficiency, solids handling WEMCO®-Hidrostal® screw-centrifugal pumps.
- **Digester Service**
  - **Mixing**
    - High efficiency WEMCO®-Hidrostal® pumps for the lowest life-cycle costs of any pumps available for this application.
    - Our Model CF. Chop-Flow. pump for those services with nockles to mix the digester.
    - Heat Exchanger Circulation - Through the heat exchanger, either our WEMCO®-Torque-Flow or WEMCO®-Hidrostal® pump, depending on the flow rate required, or the Model CF. Chopper pump, if required for chopping.
    - Transfer – Great application for the Chop-Flow. pump. Chops and conditions sludge before going to dewatering, and for larger flows, the WEMCO®-Hidrostal® pump is a cost-effective solution.
- **Thickened Sludge**
  - Any of our WEMCO® pumps for gravity-thickened sludges, depending on the flow and amount of abrasives present.

The WEMCO® Model CF. Chop-Flow. designed from the start as a WEMCO® pump, the new Chop-Flow pump is the same kind of user-friendly pump you’ve trusted from WEMCO for over 50 years - rugged, reliable, dependable, and maintenance-free!

- High hydraulic efficiency.
- Wrap around nose vanes insure effective chopping at the center of the impeller, without the need for an impeller nut.
- A one-piece, easily replaceable, ridged cutter bar spans the entire suction opening.
- Rear pump out vanes with cutting slots repel and chop any material that gets behind the impeller.
- The wearing parts - cutting bar and rear cutting teeth - are easily and inexpensively replaceable.
- All clearances are easily and externally adjustable, by one person without the hassle to unbolt and move the pump and/or the motor as required by other designs.
- Top-quality materials and castings throughout - no flimsy fabricated parts to corrode.
- Although the pump is completely new technology, it is dimensionally interchangeable with your present pump. Simply remove the old technology, and the Chop-Flow will bolt up to your existing piping and coupling.
- Available with packing and all conventional mechanical seals, flushed or flushless.

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**Chop-Flow® Performance Curves**

- **Flow – M³/hr**
- **Flow – GPM**
- **Head – Feet**
- **Head – Meters**
- **Performance Curves**

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Front Side - Chop-Flow® Impeller & Cutter Bar
- Patent pending chopper/impeller
  - Chops stringy material and solids as it runs against the stationary cutter plate and is moved through the pump casing with its highly efficient vane design.
  - Has nose vanes that completely wrap around the center of rotation, pulling material into the cutting area and assuring positive and complete chopping action.
  - Made of tough and hard ASTM A148 steel, hardened to RC60.
  - Has ultra sharp blade face that maintains a cutting edge as it wears, coupled with a generous and easily adjustable wear allowance to maintain optimum chopping over the life of the impeller.

The stationary cutter bar
- Single piece – easily removable, replaceable and economical as well.
  - Made of T-1 tool steel, as tough and hard as the impeller at RC60 for maximum wear resistance.

The inlet:
- Heavy, thick casting for rigidity and corrosion resistance. No flimsy fabrications that can distort or corrode.
- Provides a smooth, slightly tapered transition for the flow, channeling solids to the cutter bar/impeller, without dead spots and recirculation caused by the fabricated inlets of competitive units.

Simple 2 step clearance adjustment with external adjusting screws!
- Adjust bearing assembly and impeller forward to set clearance with cutter bar.
- Adjust backplate to the impeller.

Nothing could be easier!